Petroleum Storage Tank Bureau
2905 Rodeo Park Drive East, Bldg. 1
Santa Fe, NM 87505
Phone: 505.476.4397
Fax: 505.476.4374

Underground Storage Tank Systems Inspection Report

Inspection Type: Compliance	**Case Number: 12 20191114 2034**	Inspection Start Time: 8:30:00 AM	Date: 14-Nov-19

I. Facility Name: PATS BERMUDA TRIANGLE		**Facility ID: 29877**	Phone: 505-744-4026
Address: 1006 HWY 195	City: ELEPHANT BUTTE, NM		Zip Code: 87935
E-mail:ginacarraher@yahoo.com	Access to property authorized by:		LUST Site:

II. Owner Name: CARRAHER DAVID		**Owner ID: 17128**	Phone: 505-744-4026
Address:PO BOX 36	City: ELEPHANT BUTTE	State: NM	Zip Code: 87935
Contact Name: David or Gina Carraher	E-mail:ginacarraher@yahoo.com		

III. Operator Name: CARRAHER DAVID		**Operator ID: P5600**	Phone: 505-744-4026
Address: PO BOX 36	City: ELEPHANT BUTTE	State: NM	Zip Code: 87935
Contact Name: David or Gina Carraher	E-mail: ginacarraher@yahoo.com		

IV. Class A/B Operator Name: David Carraher	Phone: 505-744-4026	E-mail:ginacarraher@yahoo.com	
Address: 1006 HWY 195	City: ELEPHANT BUTTE	State: NM	Zip Code: 87935
Who trained Class A/B Operator: Petro Classroom		Date Trained: 10-24-2018	

V. NMED Compliance Officer's Name: Bart Butler	Phone: 505-222-9556	E-mail:Bart.Butler@State.NM.US	
Address: 121 Tijeras NE Suite 1000	City: Albuquerque	State: NM	Zip Code: 87102

VI. Tank Number	28708	28709	28710				
Size/Capacity:	10000	10000	10000				
Contents:	B85	B02	B03				
Installation Date:	10/1/1988	10/1/1988	10/1/1988				
Tank Construction:	A05	A05	A05				
Tank Secondary Containment:	S16	S16	S16				
Piping Construction:	F03	F03	F03				
Piping Secondary Containment:	S17	S17	S17				
Other Secondary Containment / Ancillary:	S06 S07	S06 S07	S06 S07				
Corrosion/Cathodic Protection:	C19 C20	C19 C20	C19 C20				
Tank Release Detection:	H03	H03	H03				
Piping Release Detection:	G08 G09	G08 G09	G08 G09				
Spill Prevention:	I03	I03	I03				
Overfill Prevention:	I02	I02	I02				
Tank Status & Usage:	In Use	In Use	In Use				

Facility ID Number: 29877 Case Number: 12 20191114 2034

1. Registration (20.5.102 NMAC) and Tank Fees (20.5.103 NMAC) ☐ N/A

A. Are all applicable tanks registered? (20.5.102.200 NMAC)	Yes
B. Current & Valid Registration Certificate on-site? (20.5.102.207 NMAC)	Yes
C. Owner Mailing address is correct? (20.5.102.208 NMAC)	Yes
D. Owner in compliance with tank fees. (20.5.103.300 NMAC)	Yes
E. Notification of transfer of ownership submitted per (20.5.102.201 NMAC)	N/A

2. Operator Training (20.5.104 NMAC) ☐ N/A

A. Class A&B Operator(s) designated for the storage tank system(s). (20.5.104.400 NMAC)	Yes
B. Class A&B Operator(s) conducting monthly inspections. (20.5.104.409.B NMAC)	Yes
C. Class A & B Operator(s) must retrain within next 60 days due to significant violation(s). (20.5.104.406.B NMAC)	N/A
D. Class A/B Operator retrains: Every 5 Years	
E. Class A/B Operator retrained by NMED Inspector following significant violation.	N/A
F. Operator Training requirements have been met for Class A/B and C. (20.5.104 NMAC)	Yes

3. Operations and Maintenance Plan (20.5.107.701 NMAC) ☐ N/A

A. Operations & Maintenance Plan at the facility?	Yes
B. Operations & Maintenance Plan is updated?	Yes

4. Financial Responsibility (20.5.117 NMAC) ☐ N/A

A. Proof of Financial Responsibility provided? (20.5.117.1703.A NMAC)	Yes
B. Amount and scope meets requirements. (20.5.117.1703 NMAC)	Yes
C. Mechanism(s) meets requirements. (20.5.117.1755 thru 1767 NMAC)	Yes
D. Mechanism/Policy Number: Endorsement Pol#29877	
E. Effective Date: 5-31-2019 to 5-30-2020 Petroleum Marketers Management Insurance Company	

5. Release Prevention ☐ N/A

A. Spill Prevention Equipment:	Spill Bucket

		Tank(s) in Violation
1. Equipment is present? (20.5.106.613.A(1) NMAC)	Yes	
2. Equipment is free of tears, rips, or damage. (20.5.107.704.C NMAC)	Yes	
3. Equipment has adequate volume to contain spills. (20.5.107.704.A NMAC)	Yes	
4. Equipment free of regulated substance, debris, water, or other liquids. (20.5.107.704.C NMAC)	Yes	
5. Equipment free of minor damage or other operational defects. (20.5.107.704.C NMAC)	Yes	
6. Equipment has been tested within the last 3 years? (20.5.107.704.C(1)/(2)/(3)/(4)/(5) NMAC)	N/A	
7. Equipment passed the test? (20.5.107.704.D NMAC)	N/A	
8. Test conducted per regulations and by tester who meets qualifications. (107.704.C/H NMAC)	N/A	
9. Test report submitted within required time frames. (20.5.107.704.C(9)/20.5.107.715.C NMAC)	N/A	
10. Double walled spill bucket or containment sump monitored monthly. (20.5.107.704.C(5))	N/A	

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B. Overfill Prevention Equipment: Automatic Shutoff

		Tank(s) in Violation
1. Equipment is present? (20.5.106.613.A(2) NMAC)	Yes	
2. Equipment is operational/functional? (20.5.107.704.E NMAC)	Yes	
3. Alarm audible to delivery driver? (20.5.106.613.A(2)(b) NMAC)	N/A	
4. Equipment inspected or tested per regulations within last 3 years? (20.5.107.704.E NMAC)	N/A	
5. Equipment passed periodic inspection or test? (20.5.107.704.E NMAC)	N/A	
6. Inspection/Test report submitted within required time frames. (20.5.107.704.C(9)/715.C NMAC)	N/A	
7. Inspection/Test conducted per regulations and by tester who meets qualifications. (107.704.C/H)	N/A	

C. Corrosion Protection ☐ N/A

1. Tank(s): STi-P3

		Tank(s) in Violation
a. Steel Tank system protected from corrosion. (20.5.106.602/607/608 NMAC)	Yes	
b. Corrosion protection is operational. (20.5.106.602/107.705/115.1501 NMAC)	Yes	
c. Impressed Current System monitored every 60 days. (20.5.107.705/115.1501 NMAC)	N/A	
d. Cathodic Protection system tested every 3 years/within 6 months of repair. (20.5.107.705/115)	Yes	6-5-2019 TPC
e. Internally lined UST inspected within required time frames. (20.5.106.607.B NMAC)	N/A	
f. Internal lining passed inspection. (20.5.106.607.B NMAC)	N/A	

2. Piping: Isolation

		Tank(s) in Violation
a. Steel piping / flex connector(s) protected from corrosion. (20.5.106.608 NMAC)	Yes	
b. Corrosion protection is operational. (20.5.107.705 NMAC)	Yes	
c. Corrosion protection is inspected monthly. (20.5.107.705.D NMAC)	Yes	
d. Containment sump(s) free of water and soil. (20.5.107.706.A NMAC)	Yes	

3. Cathodic Protection Test.		Tank(s) in Violation
a. Report contains all required information. (20.5.107.705.B NMAC)	Yes	
b. Report contains test data for all steel tanks and steel piping at the facility. (20.5.107.705.B)	Yes	
c. Cathodic protection system passed the last test. (20.5.107.705.A NMAC)	Yes	
d. Tester meets qualification requirements. (20.5.105.504.A(6) NMAC)	Yes	

6. Release Detection ☐ N/A

A. Tank(s): Automatic Tank Gauging

		Tank(s) in Violation
1. Applicable method is present. (20.5.108.800 NMAC/20.5.113.1303/1304 NMAC)	Yes	
2. Tank(s) being monitored monthly for releases. (20.5.108.800.E/F & 115.1501.A NMAC)	Yes	
3. Method is being operated and maintained as required. (20.5.108.800 thru 814 NMAC)	Yes	

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4. Equipment inspected or tested annually for operability and serviceability.(20.5.108 NMAC)	Yes	
5. Annual inspections and testing conducted by tester. (20.5.108.800.G NMAC)	N/A	
6. Records are being maintained. (20.5.107.715/108.815 NMAC)	Yes	
7. Integrity Test performed prior to return-to-service. (20.5.115.1501.I NMAC)	N/A	

B. Piping: Line Tightness & Leak Detector Testing

		Tank(s) in Violation
1. Applicable method is present. (20.5.108 NMAC) (20.5.113.1303/1304 NMAC)	Yes	
2. Piping being monitored monthly for releases. (20.5.108.800.E/F NMAC)	N/A	
3. Method is being operated and maintained as required. (20.5.108.810/811/812/813 NMAC)	Yes	
4. ALLD is capable of detecting leaks. (20.5.108.810.A(1)/811.A(1) NMAC)	Yes	
5. ALLD Functionality tested within last 12 months (20.5.108.810.A(2)/811.A(2) NMAC)	Yes	6-2-2019 RTS
6. Tightness test conducted within required time frames. (20.5.108.810.A(3)(a)/812.A(1) NMAC)	Yes	6-2-2019 RTS
7. Records are being maintained. (20.5.108.815 NMAC)	Yes	
8. Interstitial monitoring has automatic shutoff and sensors tested annually. (20.5.108.810/811)	N/A	
9. Interstitial monitoring for emergency generator triggers alarm & tested annually. (20.5.113)	N/A	
10. Equipment inspected or tested by tester. (20.5.105.504 NMAC)	Yes	

7. Containment ☐ N/A

		Tank(s) in Violation
A. Secondary containment installed on new or replaced UST system. (20.5106.606 NMAC)	N/A	
B. Under-dispenser containment is present? (20.5.106.606.A(2) NMAC)	Yes-Not Required	
C. STP containment sump is present? (20.5.106.606.B(2) NMAC)	N/A	
D. Transition sump is present for above-ground piping? (20.5.106.608.D NMAC)	N/A	
E. Containment for loading rack is present and meets volume requirements? (20.5.106.614 NMAC)	N/A	
F. Containment is operated and maintained as required? (20.5.107.702/706/707 NMAC)	Yes	
G. Periodic testing conducted on sumps used for interstitial monitoring.(20.5.107.706 NMAC)	N/A	
H. Monthly monitoring of containment sumps used for interstitial monitoring meets requirements.	N/A	
I. Periodic testing of sumps reported within required time frames. (20.5.107.706.F/714.B/C NMAC)	N/A	
J. Sump testing conducted per regulations and by tester who meets qualifications. (107.706.G)	N/A	

8. Periodic Walk-through Inspections (20.5.107.707 NMAC) ☐ N/A

		Tank(s) in Violation
A. Spill and overfill prevention is inspected monthly. (20.5.107.707.A(1) NMAC)	Yes	
B. Containment sumps inspected monthly. (20.5.107.707.A(3) NMAC)	Yes	
C. Release detection equipment checked monthly for alarms, signs of release. (107.707.A(2))	Yes	
D. Tank sticks & bailers inspected annually. (20.5.107.707.A(4) NMAC)	N/A	
E. Equipment/material used to isolate metal components inspected every 30 days. (705.D)	Yes	

9. Tank(s)/Piping/Operations & Maintenance ☐ N/A

	Tank(s) in Violation

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A. Ancillary equipment is maintained. (20.5.107.700 NMAC)	No	
B. Fill port lids are marked. (20.5.107.700(A) NMAC)	Yes	
C. Normal venting is maintained. (20.5.107.703 NMAC)	Yes	
D. Underground piping replaced that shows signs of deterioration/failure.(20.5.107.709.A)	N/A	
E. Sump liners and penetration boots are maintained as required.(20.5.106.600.D NMAC)	Yes	
F. UST system is documented to be compatible with contents greater than E10 or B20. (708.B)	N/A	
G. Is UST system compatible with regulated substance stored? (20.5.107.708 NMAC)	Yes	

10. Notifications ☑ N/A

11. Evidence of a release or spill: N/A

12. Attachments

☐ Pictures	☐ Site Sketch	☐ Records	☐ Re-training module	☐ Other	☐ Financial Respons.

13. Comments.

11-14-2019 Compliance Inspection

FYI:
•The revised regulations which became effective 7-24-2018 requires tester to be "qualified" in accordance with NMAC 20.5.105.504.
-The requirement to demonstrate tester qualifications became effective 7-24-2019.
-The tester qualifications can be provided with each test the tester performs or the tester can submit his/her qualifications to the Bureau on the Owners behalf prior to performing tests.
•The revised regulations which became effective 7-24-2018 requires an annual ATG certification (NMAC 20.5.108.805) and an annual check of the operability and serviceability of any measuring device or equipment used (NMAC 20.5.108.802, 803, 806, 807, 809).
-The first annual ATG certification is due by 7-24-2021 and every year thereafter.
-The annual check of the operability and serviceability of any measuring device became effective 7-24-2018.
•The revised regulations which became effective 7-24-2018 requires Spill and Overfill Prevention systems to be tested every three years (NMAC 20.5.107.704).
-The first periodic (3-year) test of Spill Prevention and Overfill Prevention systems are due by 7-24-2021 and every third year thereafter.
•The revised regulations which became effective 7-24-2018 requires containment sumps associated with interstitial monitoring to be integrity tested every three years (NMAC 20.5.107.706).
- The first periodic (3-year) test of containment sumps associated with interstitial monitoring are due by 7-24-2021 and every third year thereafter.

Comments are continued on the following page.

Facility ID Number: 29877 Case Number: 12 20191114 2034

1) Fyi: There are Under Dispenser Containment (UDC) sumps installed at Dispenser #1/2 and 3/4, however there is no UDC at Dispenser #5/6.

2) The steel piping / flexes at the Submerged Turbine Pumps are isolated from the backfill with "pipe wrap" which may not provide adequate isolation and the steel flexes at Dispenser #5/6 are isolated from the backfill with "flex boots".
-It is advised to have these isolation methods checked during every 3-year corrosion protection test to verify that these steel components are indeed isolated and properly protected from corrosion.
-Inspect equipment or materials used to isolate metal components monthly.
-Document the findings on the monthly checklist.

3) At Dispenser #5/6, boots have been installed to isolate the steel flexes from the backfill.
The southern-most isolation boot is torn around the top, however the tear is above the backfill and the flex appears to remain isolated.
-It is advised to replace this torn isolation boot.
-Inspect equipment or materials used to isolate metal components monthly.
-Document the findings on the monthly checklist.

4) At the Under Dispenser Containment (UDC) for Dispenser #3/4, the entry boots have some minor cracking. The cracks do not appear to have traveled past the hose clamp that secures the boot to the product piping.
-Monitor the cracking of this entry boot and replace the entry boot when the crack extends beyond the hose clamp to prevent any contained liquid from escaping the sump.

5) At Dispenser #3/4, the north Shear Valve anchor plate is not secured to the cross brace. A bolt is missing and the "spring nut" may also be missing.
-Properly bolt and secure the shear valve anchor plate to the cross brace as per the manufacturers installation instructions to ensure the shear valve functions as designed in an emergency situation.

6) At Dispenser #1/2, the middle shear valve Cross Brace is missing a bolt on both sides of the dispenser where the cross brace is bolted to the frame of the UDC.
-Install the missing bolts on the cross brace as per the manufacturers installation instructions to ensure the shear valve functions as designed in an emergency situation.

7) The A/B Operator was recently provided the Monthly Visual checklist for the monthly inspection and is now "documenting" the monthly inspection.
-Inspect monthly and document the findings on the checklist provided.

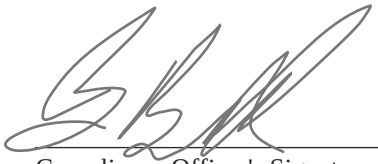
8) The Operation and Maintenance plan is lacking some of the necessary information to describe the storage tank system and how the system is to be operated and maintained.
-A guidance document on drafting an Operation and Maintenance plan will be provided to the owner with a copy of this report.

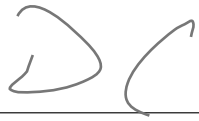
No violations were written for these concerns.

Facility ID Number: 29877 Case Number: 12 20191114 2034

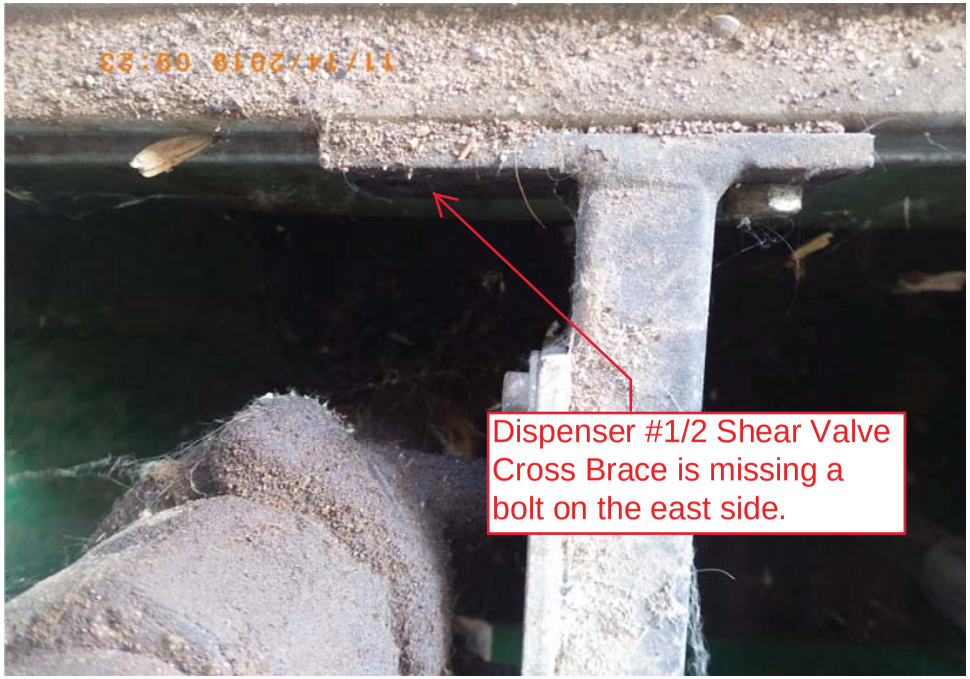
14. Closing Conference and Signatures.

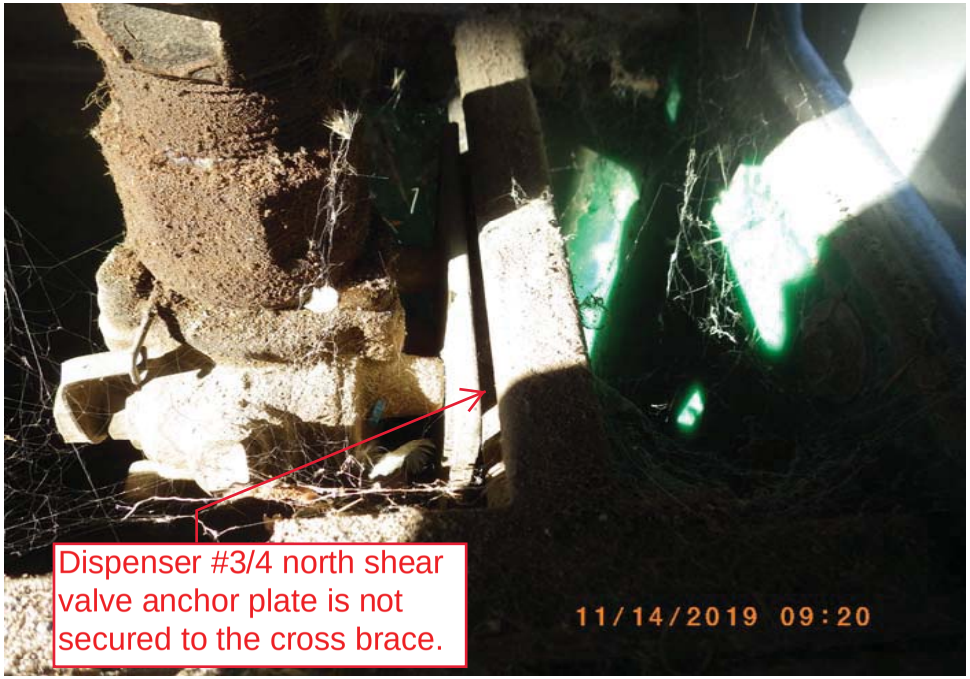
Closing Conference Date: Nov 14, 2019 Closing Conference Time: 10:00:00 AM

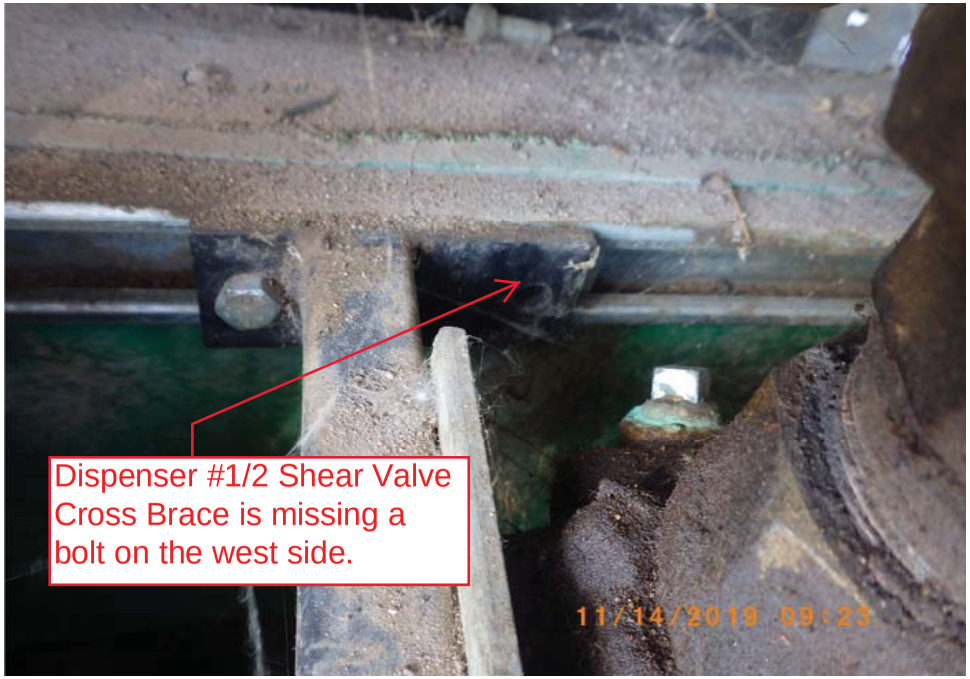
Bart Butler		11/14/2019
Compliance Officer - Print Name	Compliance Officer's Signature	Date

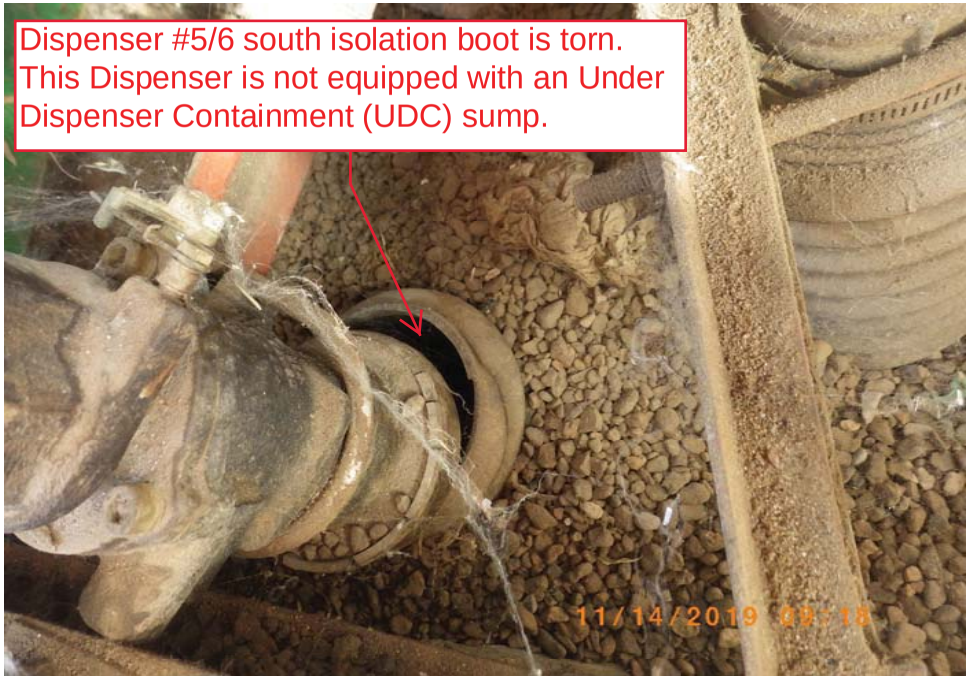
David Carraher		11/14/2019
On-Site Representative - Print Name	On-site Representative's Signature	Date

F#29877 Pats Bermuda Triangle Elephant Butte, NM 11-14-2019 Compliance Inspection









New Mexico Environment Department, Environmental Protection Division
Storage Tank Registration Certificate

1618

Owner Name and Address

CARRAHER DAVID
PO BOX 36
ELEPHANT BUTTE, NM 87935

Owner Number

17128

Facility Name and Address

PATS BERMUDA TRIANGLE
1006 HWY 195
ELEPHANT BUTTE, NM 87935

Number of Regulated Storage Tanks at this Location

3

Facility Number

29877

Effective Dates of this Fee Registration: July 1, 2019 to June 30, 2020

The owner of the regulated storage tanks at this facility has complied with the registration and annual fee requirements of 20.5.2 NMAC, Registration of Tanks, for the number of tanks listed above.

No person shall operate a storage tank system without a current and valid registration certificate, and the operator of any storage tank system shall display a current and valid registration certificate on the premises of this facility at all times.

Issued the 19th day of June, 2019

Chief, Petroleum Storage Tank Bureau

11/14/2019 09:39

PETRO CLASSROOM

CERTIFICATE OF COMPLETION

This certifies that

David Carraher

has successfully completed the following professional training course:

Petroleum Storage Tank Owner/Operator Training

New Mexico Class A/B/C Operator

Certificate ID: NM181024-01-AB-22559

Las Cruces, New Mexico
October 24, 2018
Certificate to remain in effect 5 years from date of training,
or until retraining is required, whichever comes first.

Thomas Palace
Petro Classroom

Ed Haselwood, Instructor
Petro Classroom

11/14/2019 09:37

9237 Ward Parkway, Suite 220 | Kansas City, MO 64114 | (844) 303-6752 | info@petroclassroom.com | www.petroclassroom.com

PETROLEUM MARKETERS MANAGEMENT INSURANCE COMPANY

2894 – 106th Street, PO Box 7628, Urbandale, IA 50323
(515) 334-3001 (phone), (515) 334-3013 (fax), (800) 942-1000 (toll-free)

DECLARATIONS AND ENDORSEMENT OF FINANCIAL RESPONSIBILITY (INSURANCE)

UNDER TITLE 40 CODE OF FEDERAL REGULATIONS PART 280.97

PAT'S INC
PO BOX 36
ELEPHANT BUTTE, NM 87935

COVERED LOCATION

Name:	PAT'S INC DBA PAT'S BERMUDA TRIANGLE				
Address:	1006 HWY 195				
City:	ELEPHANT BUTTE	State:	NM	Zip Code:	87935

COVERAGE

Policy Number:	29877	Deductible:	$10,000 per "release"
Period of Coverage:	5/31/2019 to 5/30/2020	Limits of Liability:	$500,000 each occurrence $1,000,000 annual aggregate
Retroactive Date:	5/31/2019	Premium:	$687

INSURER

Name:	PETROLEUM MARKETERS MANAGEMENT INSURANCE COMPANY				
Address:	2894 – 106TH STREET, PO BOX 7628				
City:	URBANDALE	State:	IA	Zip Code:	50323

INSURED

Name:	PAT'S INC				
Address:	PO BOX 36				
City:	ELEPHANT BUTTE	State:	NM	Zip Code:	87935

ADDITIONAL INSURED(S)

None

Premium	$687.00
Broker Fee	$150.00
NM Surplus Lines Tax	$25.14
Total Charges	$862.14

"THIS POLICY PROVIDES SURPLUS LINES INSURANCE BY AN INSURER NOT OTHERWISE AUTHORIZED TO TRANSACT BUSINESS IN NEW MEXICO. THIS POLICY IS NOT SUBJECT TO SUPERVISION, REVIEW OR APPROVAL BY THE SUPERINTENDENT OF INSURANCE. THE INSURANCE SO PROVIDED IS NOT WITHIN THE PROTECTION OF ANY GUARANTY FUND LAW OF NEW MEXICO DESIGNED TO PROTECT THE PUBLIC IN THE EVENT OF THE INSURER'S INSOLVENCY."

To Report a Loss
- Dial toll-free #1 (844)777-5323 or visit our
- Website: https://my.rpsins.com/claimsfnol
- Contact insurer directly (see policy section)

John D. Cavaness
Pierce Place
ca, IL 60143

6/6/2019 08:01:24
Form US-NM-POLLIB-UST-10, Edition 2016-01-29 - Declarations and Endorsement of Financial Responsibility (Insurance)

RPSSCO/SC/2019.06.16

11/14/2019 09:36

PETROLEUM MARKETERS MANAGEMENT INSURANCE COMPANY

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DECLARATIONS AND ENDORSEMENT OF FINANCIAL RESPONSIBILITY (INSURANCE)

UNDER TITLE 40 CODE OF FEDERAL REGULATIONS PART 280.97

ENDORSEMENT

1. This endorsement certifies that the policy to which the endorsement is attached provides liability insurance covering the following underground storage tanks:

Tank Number	Installation Year	Capacity (gal.)	Product	Compartments	Status
1	1988	10,000	Regular	1	Regulated tank - active
2	1988	10,000	Super Unl	1	Regulated tank - active
3	1988	10,000	Diesel	1	Regulated tank - active

for compensating third parties for bodily injury and property damage caused by either sudden accidental "releases" or nonsudden accidental "releases" or accidental "releases" in accordance with and subject to the limits of liability, exclusions, conditions and other terms of the policy arising from operating the underground storage tank(s) identified above.

The limits of liability are **$500,000** "each occurrence" and **$1,000,000** "annual aggregate", exclusive of legal defense costs, which are subject to a separate limit under the policy. This coverage is provided under **29877**. The effective date of said policy is **5/31/2019**.

2. The insurance afforded with respect to such occurrences is subject to all of the terms and conditions of the policy; provided, however, that any provisions inconsistent with subsections (a) through (e) of this Paragraph 2 are hereby amended to conform with subsections (a) through (e).

a. Bankruptcy or insolvency of the insured shall not relieve the Insurer of its obligations under the policy to which this endorsement is attached.

b. The Insurer is liable for the payment of amounts within any deductible applicable to the policy to the provider of corrective action or a damaged third-party, with a right of reimbursement by the insured for any such payment made by the Insurer. This provision does not apply with respect to that amount of any deductible for which coverage is demonstrated under another mechanism or combination of mechanisms as specified in 40 CFR 280.95 - 280.102.

c. Whenever requested by a Director of an implementing agency, the Insurer agrees to furnish to the Director a signed duplicate original of the policy and all endorsements.

d. Cancellation or any other termination of the insurance by the Insurer, except for non-payment of premium or misrepresentation by the insured, will be effective only upon written notice and only after the expiration of 60 days after a copy of such written notice is received by the insured. Cancellation for non-payment of premium or misrepresentation by the insured will be effective only upon written notice and only after expiration of a minimum of 10 days after a copy of such written notice is received by the insured.

e. The insurance covers claims otherwise covered by the policy that are reported to the Insurer within six months of the effective date of cancellation or non-renewal of the policy except where the new or renewed policy has the same retroactive date or a retroactive date earlier than that of the prior policy, and which arise out of any covered occurrence that commenced after the policy retroactive date, if applicable, and prior to such policy renewal or termination date. Claims reported during such extended reporting period are subject to the terms, conditions, limits, including limits of liability, and exclusions of the policy.

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(515) 334-3001 (phone), (515) 334-3013 (fax), (800) 942-1000 (toll-free)

DECLARATIONS AND ENDORSEMENT OF FINANCIAL RESPONSIBILITY (INSURANCE)

UNDER TITLE 40 CODE OF FEDERAL REGULATIONS PART 280.97

I hereby certify that the wording of this instrument is identical to the wording in 40 CFR 280.97(b)(1) and that the insurer is eligible to provide insurance as an excess or surplus lines insurer in one or more states.

Patrick J. Rounds

President, Authorized Representative of Petroleum Marketers Management Insurance Company

2894 – 106th Street, PO Box 7628, Urbandale, IA 50323

11/14/2019 09:37

Policy Number

Tank Protection Corporation

P.O. Box 3119
Edgewood, NM 87015-3119
Ph. 505-281-6316
Fax 505-281-6300
N.M. License 030090

6/5/19

Pat's Bermuda Triangle
1006 Highway 95
Elephant Butte, New Mexico 87935

Attn: David Carraher

Subject: Cathodic Protection Survey
Three (3)-10,000 Gallon U.S.T.

Gentlemen:

This report is sent to detail the results of corrosion testing conducted for three (3) underground fuel storage tanks at the referenced location. The purpose of the test was to determine the effectiveness of the existing STI-P3 cathodic protection system on the vessels in reference to established criteria for cathodic protection by the National Association of Corrosion Engineers (NACE) and the Petroleum Storage Tank (PST) Division of the State of New Mexico. **ALL THREE (3) TANKS PASSED NMPST AND NACE CRITERIA FOR CATHODIC PROTECTION.**

GENERAL INFORMATION

In June, 2019, Tank Protection Corporation performed testing on the referenced tanks. We performed:
*recorded "On" structure-to-soil potentials over the tanks
*noted any problems with the systems
*prepared a written report, including test procedures, results, and recommendations.

The tests are required by Pat's Bermuda Triangle to comply with EPA and PST regulations on underground fuel storage tanks.

The tanks are STI-P3 with a quality fiberglass coating, isolated vents, fills, piping and factory installed sacrificial anodes. The pipe transistion fittings at the tanks and dispensers are booted and taped, thus not requiring cathodic protection.

TEST PROCEDURES

All tests were performed by Bob Garlinger, a NACE certified Corrosion Technologist and President of Tank Protection Corporation. The following is a description of the test method employed during this survey.

a) STRUCTURE-TO-SOIL POTENTIAL MEASUREMENTS

Structure-to-soil potential measurements were obtained and recorded on the tanks using a high input impedance voltmeter, a Wavetek Model HD110B, in conjunction with a copper-copper sulfate reference electrode. The structure being tested was connected to the positive terminal of the voltmeter with a probe to the tank bottom, the negative terminal being connected to the reference electrode. The electrode was then placed contacting the soil directly over or adjacent to the structure. The "On" measurement was recorded on each structure.

The National Association of Corrosion Engineers (NACE) Standard SP-0285-92, (2011 Revision) states three (3) accepted criteria for cathodic protection of buried metallic structures.

4.2.1.1 A negative (cathodic) potential of at least 850 millivolts with the cathodic current applied. This potential is measured with respect to a saturated copper-copper sulfate reference electrode contacting the electrolyte. Voltage drops other than those across the structure-to-electrolyte boundary must be considered for valid interpretation of this voltage measurement.
4.2.1.2 A negative polarized potential of a least 850 millivolts relative to a saturated copper-copper sulfate reference electrode
4.2.1.3. A minimum of 100 millivolts of cathodic polarization. The formation or decay of polarization can be measured to satisfy this criterion.

The tanks were considered protected when the potentials satisfied these criterion.

RESULTS AND ANALYSIS

The pumps, vents and fill piping are isolated properly from the tanks. The tanks were probed to complete an electrical connection for proper potential measurement. The structure-to-soil potentials recorded on the structures verified that the cathodic protection system is working properly on all three (3) vessels. Readings are tabulated in the "Data" section of this report.

RECOMMENDATIONS

1. Verify system operation every three (3) years by having TPC perform a survey as required in PST regulations. All systems must be tested by a qualified cathodic protection tester. (Although regulations require testing every three (3) years, we recommend that testing be conducted on an annual basis.)

Should you have any questions, or if we can offer any assistance, please do not hesitate to contact us.

Very Truly Yours,

Bob Garlinger
President
Tank Protection Corporation

BG/kg

11/14/2019 09:34

Record for Periodic Testing Of Cathodic Protection Systems

(for use by a qualified cathodic protection tester)

Test Date: 6/5/19 Facility Name/ID: Lati Bermuda Triangle

Note: Provide site sketch as directed on the back of this page.

Cathodic Protection (CP) Tester Information:

Name: Bob Hasbrouck Phone Number: 505-281-6316

Address: P.O. Box 3179 Edgewood, New Mexico 87015

Testing must be conducted by a qualified CP tester. Indicate your qualifications as a CP tester:

NACE Corrosion Technologist #3774

Identify which of the following testing situations applies:

- ☐ Test required within 6 months of installation of CP system (installation date was _/_/_)
- ☑ Test required at least every 3 years after installation test noted above
- ☐ Test required within 6 months of any repair activity – note repair activity and date below:

Indicate which industry standard you used to determine that the cathodic protection test criteria are adequate: (2) Potential with CP Applied IR Drop Considered

	Cathodic Protection Test Method Used (check one)
	100 mV Cathodic Polarization Test
	-850 mV Test (Circle 1 or 2 below)
	1) Polarized Potential (Instant off) (2) Potential with CP Applied, IR Drop Considered
	Note: All readings taken must meet the -850 mV criteria to pass
	Other Accepted Method (please describe):

Is the cathodic protection system working properly? (Yes) No (Circle one)

If answer is no, go to the directions at the bottom on the back of this page.

By signature below affirms that I have sufficient education and experience to be a cathodic protection tester; I am competent to perform the tests indicated above; and that the results on this form are a complete and truthful record of all testing at this location on the date shown.

CP Tester Signature: Bob Hasbrouck Date: 6/5/19

Keep This Paper on File For At Least Six Years

11/14/2019 09:35

ANNUAL CATHODIC PROTECTION PERFORMANCE SURVEY

☐ IMPRESSED CURRENT SYSTEMS
☒ SACRIFICIAL ANODE SYSTEM

RECTIFIER NO:

DATE: 6/5/19

INSPECTOR: BOB GARLINGER, TPC

LOCATION: PAT'S BERMUDA TRIANGLE

ANODE TEST STATION:

RECTIFIER SETTING: DC VOLTS / DC AMPS:

STRUCTURE PROTECTED: 3-10,000 GALLON UST

NO	TEST STATIONS LOCATION	ON[1&3]	OFF[1]	REMARKS
	1-10,000 GALLON SNL			
	EAST END	-1.108		PROTECTED
	MIDDLE	-1.102		PROTECTED
	WEST END	-.980		PROTECTED
	2-10,000 GALLON DSL			
	EAST END	-1.211		PROTECTED
	MIDDLE	-1.110		PROTECTED
	WEST END	-1.088		PROTECTED
	3-10,000 GALLON NL			
	EAST END	-1.210		PROTECTED
	MIDDLE	-1.207		PROTECTED
	WEST END	-1.182		PROTECTED

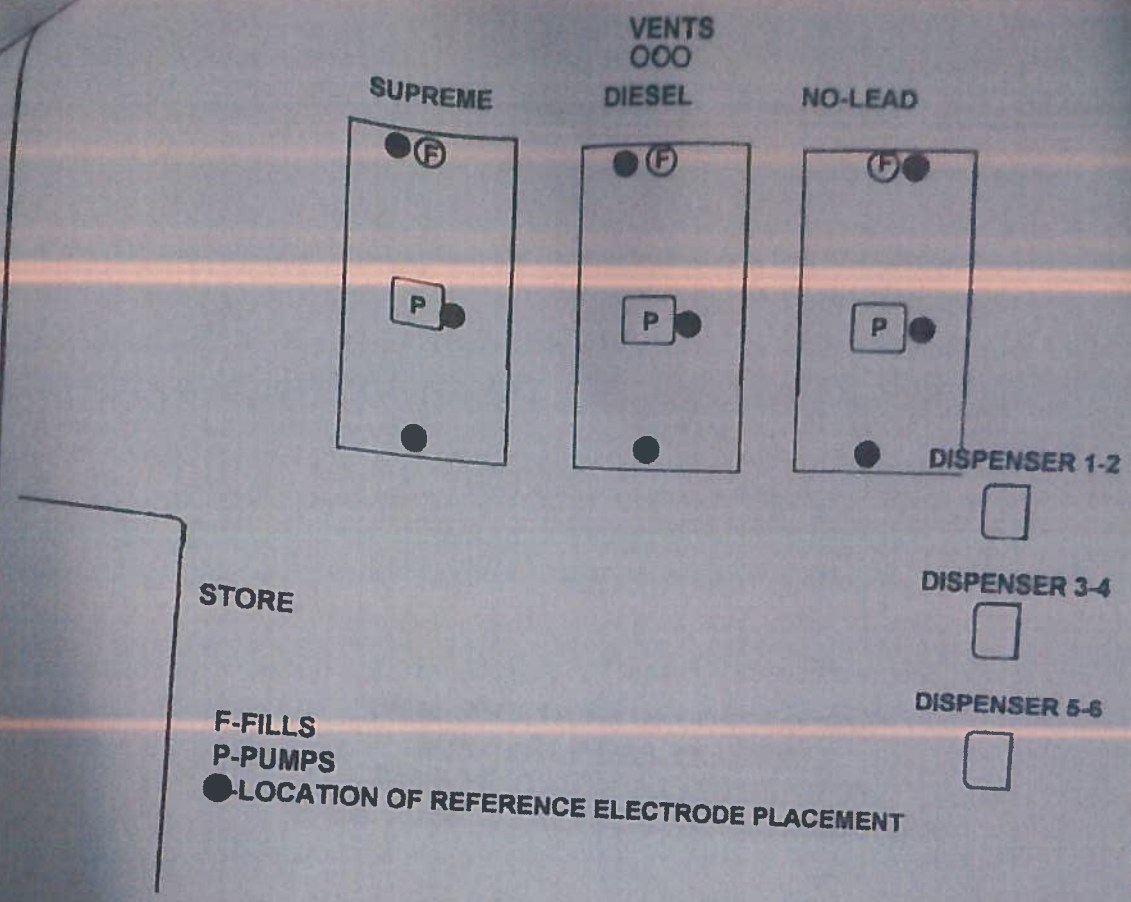
ALL READINGS IN D.C. VOLTS/ -.850 OR MORE IN NEGATIVE MAGNITUDE REQUIRED FOR CATHODIC PROTECTION

ALL TRANSITION PIPING AT TANKS AND DISPENSERS IS BOOTED AND TAPED-NO CATHODIC PROTECTION IS REQUIRED.

11/14/2019 09:34

1 Connect to structure potentials to volts to a copper-copper sulfate reference electrode.
2 For applied current system enter reading here.

THREE (3) 10,000 GALLON UNDERGROUND FUEL STORAGE TANKS



F-FILLS
P-PUMPS
●-LOCATION OF REFERENCE ELECTRODE PLACEMENT

Tank Protection Corporation	DRAWN BY: DESIGNED BY: DATE: DRAWING NUMBER:	CATHODIC PROTECTION SURVEY REFERENCE ELECTRODE PLACEMENT PAT'S BERMUDA TRIANGLE ELEPHANT BUTTE, NEW MEXICO

11/14/2019 09:35

INVOICE:
DATE: 6/2/19

Customer Name:		Site Name:	PAT'S CHEVRON
Address:		Address:	1006 HWY 195
City, State:		City:	ELEPHANT BUTTE, NM
Zip Code:			

PRODUCT LINE TEST					
ITEM	LINE 1	LINE 2	LINE 3	LINE 4	LINE 5
PRODUCT:	RUL	PUL	DSL		
PUMP TYPE: PRESSURE/SUCTION	PRESSURE	PRESSURE	PRESSURE		
TURBINE/PUMP MANUFACTURE	RED JACKET	RED JACKET	RED JACKET		
TYPE OF PIPING (RIGID/FLEX)	RIGID	RIGID	RIGID		
APPROX. LENGTH OF PIPING	100	120	110		
PIPING DIAMETER	2	2	2		
TEST PRESSURE (psi)	50	50	50		
START TIME	10:15	10:15	10:15		
END TIME	10:45	10:45	10:45		
TEST DURATION IN MINUTES	30	30	30		
BEGINNING LEVEL	61	61	61		
ENDING LEVEL	61	61	61		
LEAK RATE IN GPH	0.0000	0.0000	0.0000		
RESULTS	PASS	PASS	PASS		

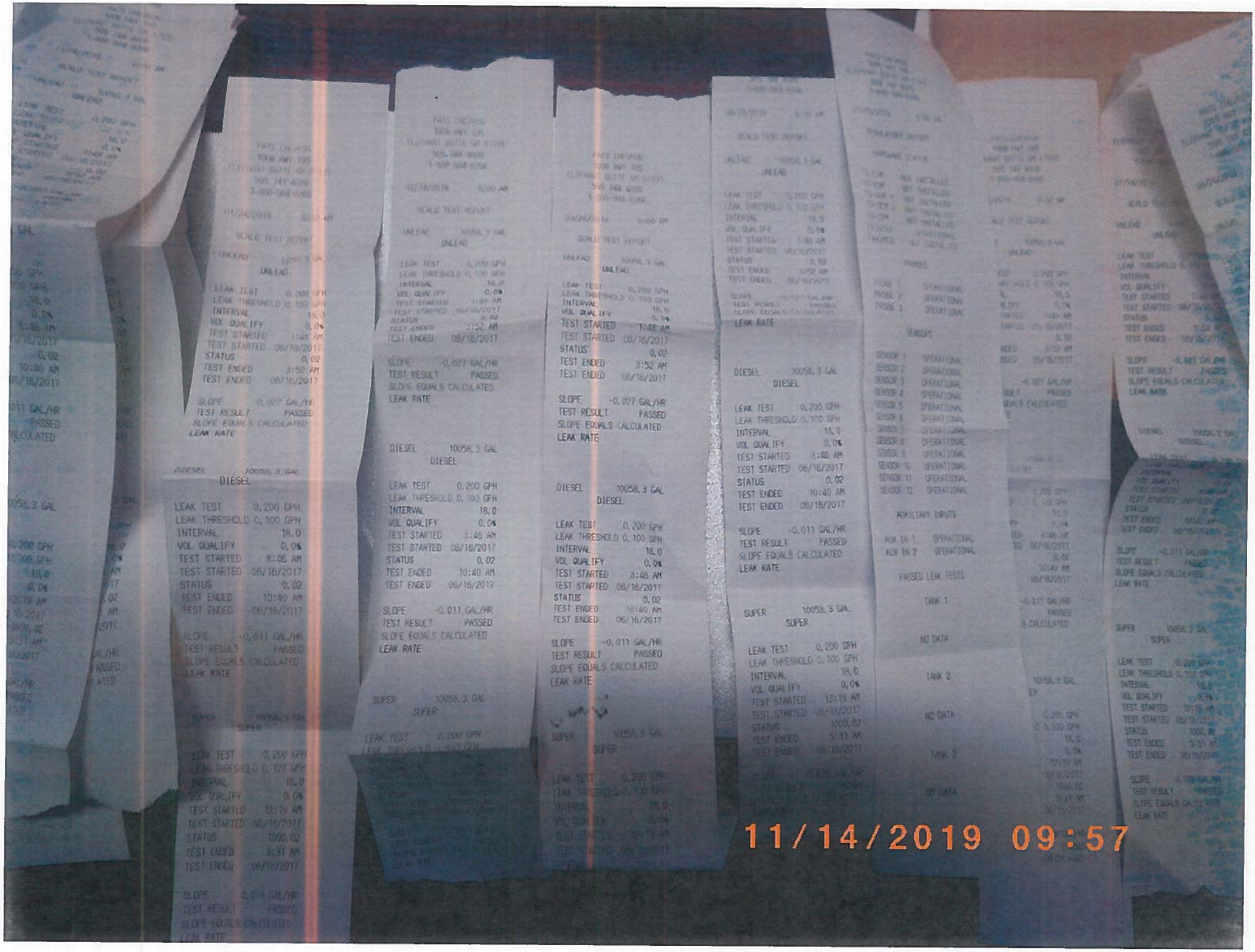
LEAK DETECTOR TEST					
ELLD OR MLLD (E/M)	MLLD	MLLD	MLLD		
MANUFACTURER	VEEDER ROOT	VEEDER ROOT	VEEDER ROOT		
MODEL	FX	FX	FX		
SER.#	4753	2092	4550		
OPERATING PRESSURE:	26	24	26		
METERING PRESSURE:	10PSI	10PSI	10PSI		
OPENING TIME (sec)	2	2	2		
HOLDING PRESSURE:	14	22	16		
RESILIENCY:	60	70	60		
LEAK RATE:	3GPH	3GPH	3GPH		
IF ELLD:					
SET - UP PARAMETERS CORRECT (Y/N)	N/A	N/A	N/A		
SIMULATED LEAK CAUSES ALARM OR PUMP SHUTDOWN (Y/N)	N/A	N/A	N/A		
NUMBER OF TEST CYCLES BEFORE ALARM & PUMP SHUTDOWN OCCURS	N/A	N/A	N/A		
RESULTS	PASS	PASS	PASS		

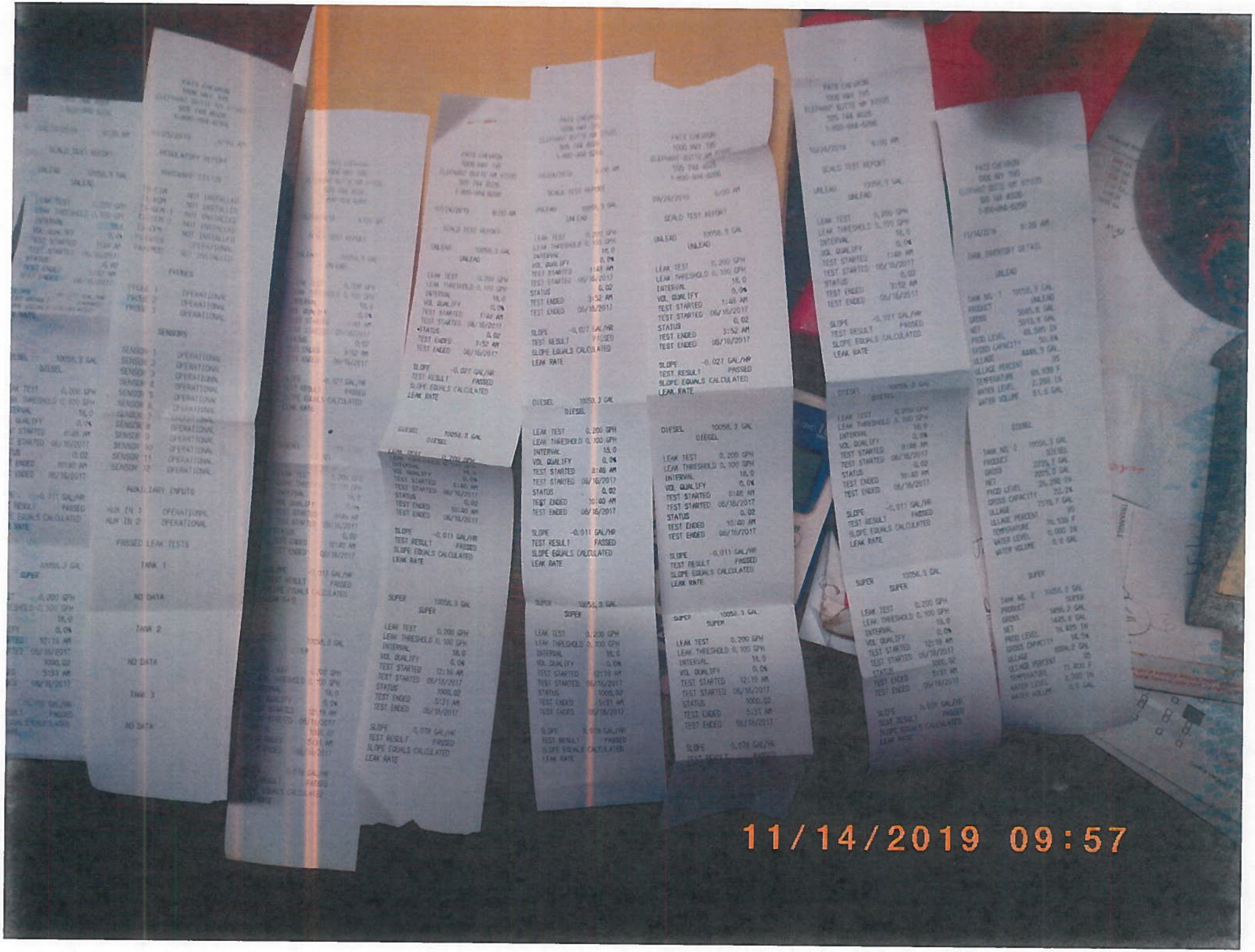
NEW LEAK DETECTOR					
ITEM	LINE 1	LINE 2	LINE 3	LINE 4	LINE 5
PRODUCT:					
MANUFACTURER					
MODEL					
SER.#					
OPERATING PRESSURE:					
RESILIENCY:					
RESULTS					

CERTIFICATION # 47-5871

TEST EQUIPMENT USED: ESTABROOK'S EZYCHEK

11/14/2019 09:38


UNLEAD
LEAK TEST 0.200 GPH
LEAK THRESHOLD 0.100 GPH
INTERVAL 18.0
VOL QUALIFY 0.0%
TEST STARTED 1:48 AM
TEST STARTED 08/16/2017
STATUS 0.02
TEST ENDED 3:52 AM
TEST ENDED 08/16/2017
SLOPE 0.027 GAL/HR
TEST RESULT PASSED
SLOPE EQUALS CALCULATED
LEAK RATE
DIESEL 10058.3 GAL
DIESEL
LEAK TEST 0.200 GPH
LEAK THRESHOLD 0.100 GPH
INTERVAL 18.0
VOL QUALIFY 0.0%
TEST STARTED 8:46 AM
TEST STARTED 08/16/2017
STATUS 0.02
TEST ENDED 10:40 AM
TEST ENDED 08/16/2017
SLOPE -0.011 GAL/HR
TEST RESULT PASSED
SLOPE EQUALS CALCULATED
LEAK RATE
SUPER 10058.3 GAL
SUPER
LEAK TEST 0.200 GPH
LEAK THRESHOLD 0.100 GPH
INTERVAL 18.0
VOL QUALIFY 0.0%
TEST STARTED 12:19 AM
TEST STARTED 08/17/2017
STATUS 1000.02
TEST ENDED 5:31 AM
TEST ENDED 08/17/2017
SLOPE 0.014 GAL/HR
TEST RESULT PASSED
SLOPE EQUALS CALCULATED
LEAK RATE
SENSORS
SENSOR 1 OPERATIONAL
SENSOR 2 OPERATIONAL
SENSOR 3 OPERATIONAL
SENSOR 4 OPERATIONAL
SENSOR 5 OPERATIONAL
SENSOR 6 OPERATIONAL
SENSOR 7 OPERATIONAL
SENSOR 8 OPERATIONAL
SENSOR 9 OPERATIONAL
SENSOR 10 OPERATIONAL
SENSOR 11 OPERATIONAL
SENSOR 12 OPERATIONAL
AUXILIARY INPUTS
AUX IN 1 OPERATIONAL
AUX IN 2 OPERATIONAL
PASSED LEAK TESTS
TANK 1
NO DATA
TANK 2
NO DATA
TANK 3
NO DATA
11/14/2019 09:57


11/14/2019 09:57

Operations and Maintenance Plan

Pat's, Inc. dba Pat's Bermuda Triangle
1006 Hwy 195
Elephant Butte, New Mexico 87935

Pat's, Inc. dba Pat's Bermuda Triangle
Site Description

3 - 10,000 gal UST's
W/fiberglass coated steel
Overflow containment buckets
Regular, Premium and diesel
Installed 1988

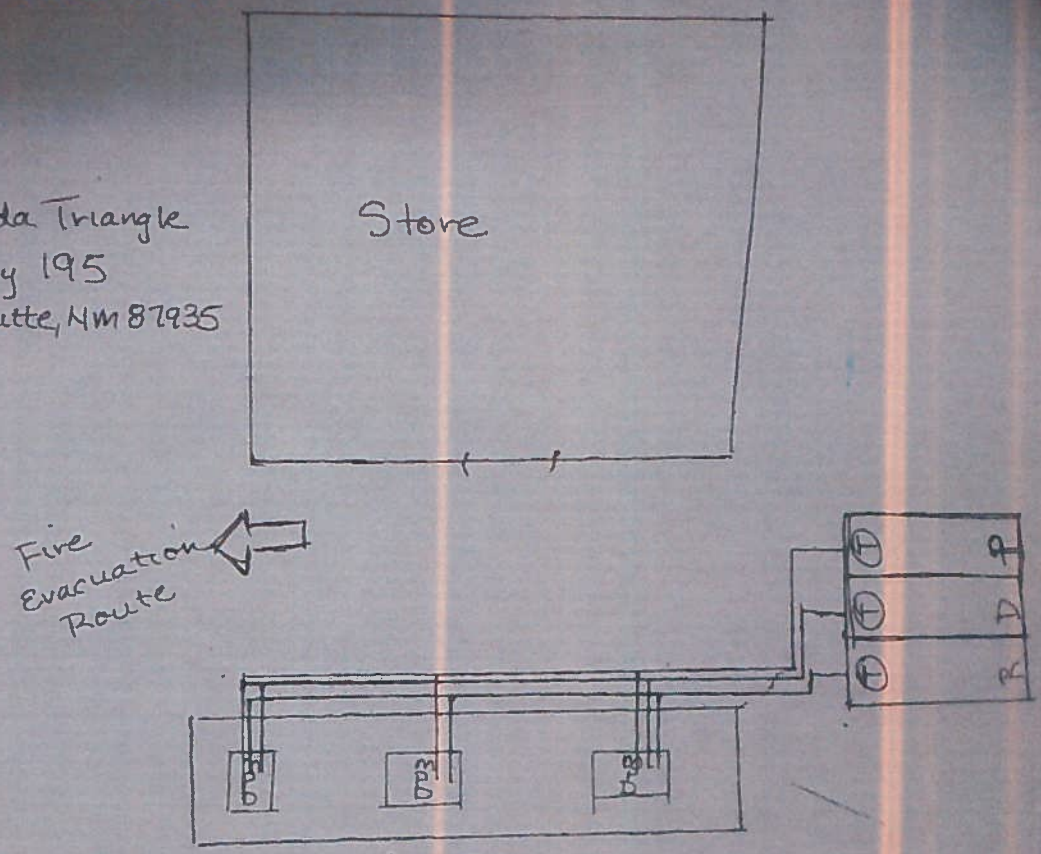
Fiberglass lines with flex to dispensers
Incon Automatic ~~lines~~ Tank leak detection with
monthly testing of ~~lines and~~ all tank

3 - MPD's with containment under ~~each~~ two, one dispenser - Yearly line and tank testing done by RTS

Maintenance by Kachina Petroleum
Contact numbers:
Kachina 505 292-3090
RTS 505 881-2384
Elephant Butte Fire Dept. 575 740-4638
David Carraher/owner 575 744-4232

11/14/2019 09:41

Pat's Bermuda Triangle
1006 Hwy 195
Elephant Butte, NM 87935



UST Number:

Date/Time: 10 27 11 ~ AM

	Yes	No	N/A
Tank is monitored for releases every 30 days. [20.5.108 NMAC]	X		
Release detection for piping is performed. [20.5.108.810 thru 813 NMAC]	X		
Release detection records are reviewed monthly. [20.5.107.707 NMAC]	X		
Operations and Maintenance Plan in place and is being followed. [20.5.107.701 NMAC]	X		
Monthly monitoring indicates a release may have occurred. [20.5.108.800.D NMAC]		X	
Automatic tank gauging system operating properly. [20.5.108.805 NMAC]	X		
Fill port lid is properly marked. [20.5.107.700.A NMAC]	X		
Spill prevention is in operational condition. [20.5.107.704 NMAC]	X		
Spill prevention free of fuel, water, and debris.* [20.5.107.707 NMAC]	X		
Double walled spill prevention is monitored every 30 days. [20.5.107.704 NMAC]	X		
Cap on vapor recovery riser is tight and in good condition. [20.5.107.704 NMAC]	X		
Cap on ATG riser is tight and in good condition. [20.5.107.704 NMAC]	X		
Overfill alarm is operational. [20.5.107.704 NMAC]	X		
Overfill prevention equipment is operational. [20.5.107.707 NMAC]	X		
Tank checked for water. (Height in inches found:) [20.5.108.802.G NMAC]	X		
Cathodic Protection system is properly operated & maintained. [20.5.107.705 NMAC]	X		
Transition sump free of fuel, water, and debris.* [20.5.107.702 NMAC]			N/A
Transition sump liner in serviceable condition. [20.5.107.702 NMAC]			N/A
Transition sump sensor at proper height & orientation. [20.5.108.808/811/813 NMAC]			N/A
Turbine sump free of fuel, water, and debris.* [20.5.107.702 NMAC]			
Turbine sump liner in serviceable condition. [20.5.107.702 NMAC]			
Turbine sump sensor at proper height & orientation. [20.5.108.808/811/813 NMAC]			
Dispenser sump free of fuel, water, and debris.* [20.5.107.702 NMAC]			
Dispenser sump liner in serviceable condition. [20.5.107.702 NMAC]			
Dispenser sump sensor at proper height & orientation. [20.5.108.808/811/813 NMAC]			
Double walled containment sump is monitored every 30 days. [20.5.107.706 NMAC]			
Loading rack secondary containment is operational and properly maintained. [20.5.107.702 NMAC]			N/A
All fuel, water, and debris removed from system have been properly disposed. [20.5.107.702 NMAC]	X		

Comments and Follow up Needed:

Operator Name (Print): David Carnahe Operator Certification Class: A/B Signature: D Carnahe

*Must also be checked within one week of a rainfall event

(8/15/2018)

11/14/2016 09:35