



August 14, 2020

RECEIVED

By PSTB at 11:27 am, Aug 17, 2020

Mr. Tim Noger
New Mexico Environment Department
Petroleum Storage Tank Bureau
2905 Rodeo Park Drive East, Building 1
Santa Fe, NM 87505

Re: Site Survey Report
Lovington 66 State Lead UST Site, Lovington, New Mexico
Facility #1489, Release ID #1182, WPID #4123

Dear Mr. Noger:

Daniel B. Stephens & Associates, Inc. (DBS&A) is pleased to submit the enclosed survey control report (Attachment 1) and associated topography and utilities map (Attachment 2) summarizing the results of the detailed survey activities conducted at the above-referenced site in May, June, and July 2020, in accordance with work plan identification (WPID) #4123. The site is located in Lovington, New Mexico (Figure 1).

As a subcontractor to DBS&A, Atkins Engineering Associates, Inc. (AEA) of Roswell, New Mexico, performed a detailed site survey over an approximate 900-foot by 1,000-foot area encompassing the site and adjacent properties on May 12, 2020 (Attachment 2). The survey included site topography, high-resolution aerial photography, planimetric features (pavement, buildings, traffic signs, etc.), and subsurface utilities, which will be used in the horizontal well design.

In addition to the above survey activities, existing site wells, with the exception of W-7, were resurveyed to a common datum on June 22, 2020. Figure 2 provides a detailed site map showing the well locations and platted property boundaries on the new high-resolution base. Well coordinate locations, vertical elevations, and survey control points are provided in Attachment 1. Complete survey data in electronic format is available to the New Mexico Environment Department (NMED) Petroleum Storage Tank Bureau (PSTB) upon request.

Site well W-7, located northwest of the site (Figure 2), had been paved over and was reported lost. However, the location of the well vault was identified during initial site reconnaissance activities. As part of the site survey activities, AEA located the well and opened the vault, pressure-jetted the well to remove any obstructions or sediment that had accumulated since it was last accessed, and replaced the vault and surrounding paving. Due to ongoing negotiations with the City of Lovington to secure access to monitor wells in the city right-of-way, recovery activities at well W-7 were delayed until mid-July. The well was jetted and repaired on July 15, 2020, and was surveyed to a common datum with other site wells on July 17, 2020. Photographs and field notes documenting the well repair activities are provided as Attachments 3 and 4, respectively.

Daniel B. Stephens & Associates, Inc.

6020 Academy Rd. NE, Suite 100

Albuquerque, NM 87109

505-822-9400

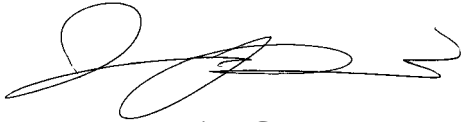
FAX 505-822-8877

Mr. Tim Noger
August 14, 2020
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All work was completed in accordance with the requirements of Part 119 of the New Mexico Petroleum Storage Tank Regulations and DBS&A standard operating procedures. DBS&A plans to invoice in full for the amount approved on January 29, 2020 (including New Mexico gross receipts tax) for Deliverable ID# 4123-2. Please do not hesitate to call me at (505) 822-9400 if you have any questions or require additional information.

Sincerely,

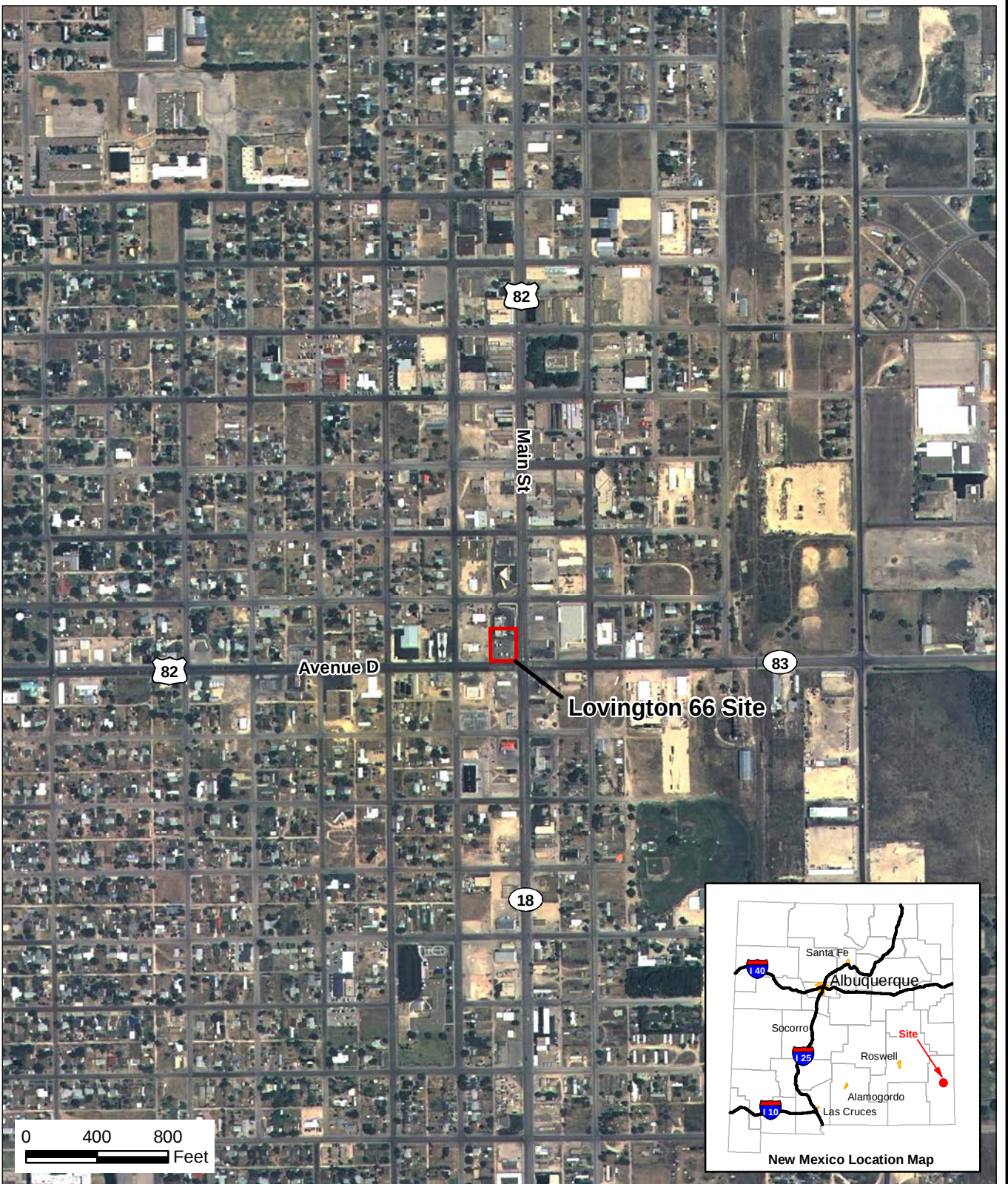
DANIEL B. STEPHENS & ASSOCIATES, INC.

A handwritten signature in black ink, appearing to read 'JR', with a large loop at the start and a trailing flourish.

Jason J. Raucci, P.G.
Project Geologist

JR/ed
Attachments

Figures



Source: RGIS DOQQ aerial photograph
dated July 23, 2005

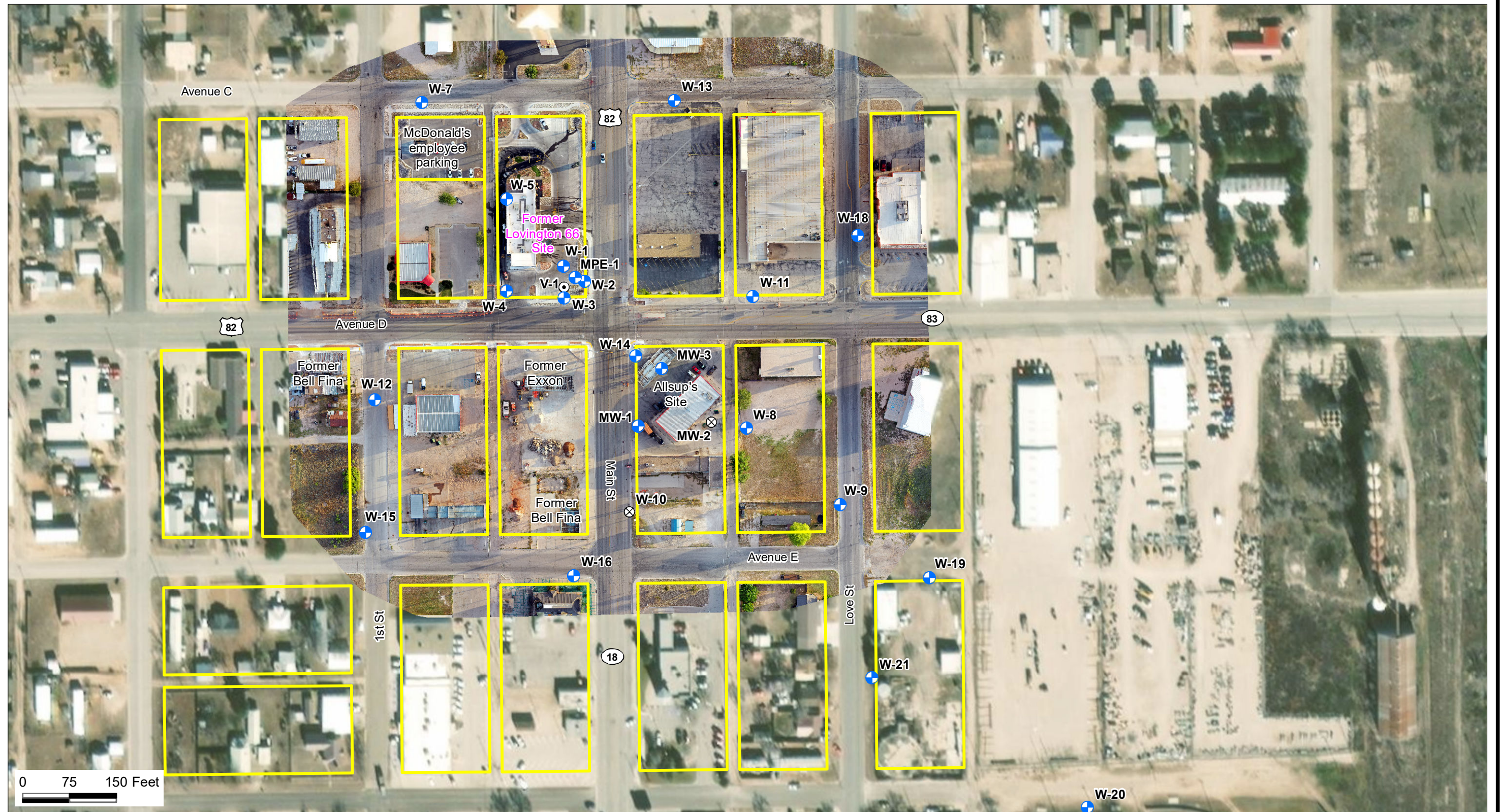


Daniel B. Stephens & Associates, Inc.
4/2/2018 JN DB19.1395

LOVINGTON 66
424 SOUTH MAIN STREET
LOVINGTON, NEW MEXICO
Area Map

Figure 1

S:\PROJECTS\191395_LOVINGTON_66\GIS\MXDS\SITE_MAP\MXD



Source: USDA NAIP 5/10/2014

Explanation

- Monitor well
- ⊗ Monitor well - destroyed or inaccessible
- ⊙ Monitor well - plugged and abandoned
- Approximate parcel block boundaries



Daniel B. Stephens & Associates, Inc.
7/20/2020 JN DB19.1395

LOVINGTON 66
424 SOUTH MAIN STREET
LOVINGTON, NEW MEXICO
Site Map

Figure 2

Attachment 1
Survey Control Report

08/04/2020

Jason Raucci, PG
Daniel B. Stephens & Associates, Inc.
6020 Academy Road NE, Suite 100
Albuquerque, NM 87109

Emailed to: jraucci@geo-logic.com on date of letter

RE: Lovington 66 Site

Atkins Engineering Associates, Inc. (AEA) has completed the Monitor Well survey at the Lovington 66 Site, 424 South Main Street, Lovington, NM 88260. The table on the following page summarizes the coordinate and elevation data for the Monitor Well locations, top-of-casing (TOC) north side and center top of well vault, located at the Lovington 66 Site.

Horizontal coordinates are in US Survey Feet NAD 83 (2011) (EPOCH:2010.0000) New Mexico State Plane East Grid Coordinates.

Orthometric Heights for Monitor Well Locations were established by observations referenced to an on site temporary benchmark, "TBM". TBM is a set 3" aluminum cap and is referenced to NGS Benchmark designated "B 35" with a PID of CV0247 and a published Orthometric Elevation of 3987.20 feet (NAVD88).

Attached to this email is a .xlsx spreadsheet of the table above.

If you have any questions, please contact me at (575) 624-2420 or ryan@atkinseng.com


Ryan C. Cortez, PS 22761

8/4/2020
Date (Signed)



Name	Northing (USft)	Easting (USft)	Latitude (DD)	Longitude (DD)	Elevation (USft)	Vault Top Elevation (USft)
MW-1	708391.92	843467.63	32.943498	-103.348484	3909.08	3909.32
MW-3	708484.27	843504.69	32.943751	-103.348360	3909.46	3909.86
MPE-1	708630.69	843366.45	32.944157	-103.348807	3909.76	3910.15
W-1	708648.45	843347.97	32.944206	-103.348866	3910.51	3910.89
W-2	708624.29	843381.11	32.944139	-103.348759	3909.52	3909.76
W-3	708597.20	843348.50	32.944065	-103.348866	3910.04	3910.28
W-4	708608.09	843256.33	32.944098	-103.349166	3910.23	3910.63
W-7	708910.75	843120.58	32.944933	-103.349599	3910.43	3910.75
W-8	708388.92	843640.72	32.943486	-103.347920	3909.28	3909.44
W-9	708266.43	843790.41	32.943145	-103.347436	3908.04	3908.29
W-11	708600.11	843651.16	32.944066	-103.347879	3909.24	3909.48
W-12	708434.55	843045.80	32.943626	-103.349858	3910.15	3910.44
W-13	708914.24	843525.43	32.944932	-103.348280	3909.66	3909.93
W-14	708504.28	843463.79	32.943807	-103.348493	3909.08	3909.38
W-15	708222.07	843030.78	32.943043	-103.349913	3908.91	3909.20
W-16	708152.49	843364.39	32.942843	-103.348828	3907.99	3908.23
W-18	708697.44	843819.01	32.944329	-103.347329	3908.66	3908.98
W-19	708149.17	843934.04	32.942819	-103.346971	3907.40	3908.03
W-20	707781.15	844187.23	32.941801	-103.346157	3906.32	3907.01
W-21	707989.03	843841.54	32.942381	-103.347278	3907.37	3908.03
TBM	708445.97	843020.55	32.943658	-103.349940	3910.61	--



Attachment 2

**Topography and
Utilities Map**

NEW MEXICO STATE PLANE ZONE EAST (GRID)

- LEGEND
- WM = WATER METER
 - WV = WATER VALVE
 - WL = WATER LINE (BLUE MARK)
 - LP = LIGHT POLE (NOTE A LOT OF POWER POLES HAD LIGHTS ATTACHED)
 - PP = POWER POLE
 - MP = METER POLE
 - SP = STUB POLE
 - AP = ANCHOR POINT
 - TP = TELEPHONE POLE (NOTE A LOT OF POWER POLES ALSO FUNCTION AS TELEPHONE POLES)
 - UGP = UNDERGROUND POWER (RED MARK)
 - GM = GAS METER
 - GL = GAS LINE (YELLOW MARK)
 - SC = SEWER MANHOLE COVER
 - SL = SEWER LINE (GREEN MARK)
 - TSBOX = TRAFFIC SIGNAL BOXES/UNDERGROUND POWER BOXES
 - GCP = GROUND CONTROL POINTS FOR UAV
 - FH = FIRE HYDRANT
 - PENTRY= ENTRY POINT FOR POWER AND SOMETIMES COMMUNICATION LINES

- CONTOURS
- 3907'
 - 3908'
 - 3909'
 - 3910'
 - 3911'
 - 3912'
 - 3913'



Attachment 3

**Photographic
Documentation**



1. Partially paved over well W-7, view to the west.



2. W-7 wellhead excavated and surrounding asphalt saw-cut, view to the west-northwest.

LOVINGTON 66
424 SOUTH MAIN STREET
LOVINGTON, NEW MEXICO
Photographs





3. New vault and re-bar reinforced well pad installed around existing well W-7.



4. Finished well vault and pad at well W-7, view to the south.

LOVINGTON 66
424 SOUTH MAIN STREET
LOVINGTON, NEW MEXICO
Photographs



Attachment 4

Field Notes

7/15/2020

Obsalon - Spj - 20

T.L. - 6:30 - 103291 - Dodge

T.A. - 9:00 - 103393 - Dodge

9:13 - Set up and Set MW-7
Blockage is @ 65.23' BGS

WL - 59.15' TD - 65.23'

9:20 - Set MW-7

After WL - 59.45' After TD - 65.32'

9:28 - Start Breakout of old well pad.

10:13 - End Breakout.

10:39 - Start new Surface completion

11:10 - End completion of MW-7

★ 7 Bags of 5000 w/ rebar ★

Final WL - 59.12'

Final TD - 65.32'

T.L. - 1130 - 103394 - Dodge

T.A. - 1323 - 103502 - Dodge