ENSOLUM

CLOSURE REPORT

Property:

NM B Com #1E (02/15/24)
Unit Letter H, S32 T27N R9W
San Juan County, New Mexico

New Mexico EMNRD OCD Incident ID No. NAPP2404637666

April 3, 2024

Ensolum Project No. 05A1226304

Prepared for:

Enterprise Field Services, LLC
614 Reilly Avenue
Farmington, NM 87401
Attn: Mr. Thomas Long

Prepared by:

Chad D'Aponti
Project Scientist

Kyle Summers
Senior Managing Geologist

TABLE OF CONTENTS

LIST OF APPENDICES

1.0 INTRODUCTION

1.1 Site Description & Background

Operator:	Enterprise Field Services, LLC / Enterprise Products Operating LLC (Enterprise)
Site Name:	NM B Com #1E (02/15/24) (Site)
NM EMNRD OCD Incident ID No.	NAPP2404637666
Location:	36.5345° North, 107.805° West Unit Letter H, Section 32, Township 27 North, Range 9 West San Juan County, New Mexico
Property:	New Mexico State Land Office
Regulatory:	New Mexico (NM) Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

On January 10, 2024, Enterprise personnel identified a release of natural gas from the NM B Com #1E meter run. Enterprise subsequently isolated and locked the meter run out of service. On February 16, 2023, Enterprise initiated activities to remediate petroleum hydrocarbon impact. In addition, Enterprise determined the release was "reportable" due to the potential volume of impacted soil. The NM EMNRD OCD was subsequently notified.

A **Topographic Map** depicting the location of the Site is included as **Figure 1**, and a **Site Vicinity Map** is included as **Figure 2** in **Appendix A**.

1.2 Project Objective

The primary objective of the closure activities was to reduce constituent of concern (COC) concentrations in the on-site soils to below the applicable NM EMNRD OCD closure criteria.

2.0 CLOSURE CRITERIA

The Site is subject to regulatory oversight by the NM EMNRD OCD. During the evaluation and remediation of the Site, Ensolum, LLC (Ensolum) referenced New Mexico Administrative Code (NMAC) 19.15.29 *Releases,* which establishes investigation and abatement action requirements for oil and gas release sites that are subject to reporting and/or corrective action. The appropriate closure criteria for sites are determined using the siting requirements outlined in Paragraph (4) of Subsection C of 19.15.29.12 NMAC. Ensolum utilized the general site characteristics and information available from NM state agency databases and federal agency geospatial databases to determine the appropriate closure criteria for the Site. Supporting figures and documentation associated with the following Siting bullets are provided in **Appendix B**.

- The NM Office of the State Engineer (OSE) tracks the usage and assignment of water rights and water well installations and records this information in the Water Rights Reporting System (WRRS) database. Water wells and other points of diversion (PODs) are each assigned POD numbers in the database (which is searchable and includes an interactive map). No PODs were identified in the same Public Land Survey System (PLSS) section as the Site, and no PODs were identified in the adjacent PLSS sections (**Figure A**, **Appendix B**).

- Numerous cathodic protection wells (CPWs) were identified in the NM EMNRD OCD imaging database in the adjacent PLSS sections. No CPWs were identified in the same PLSS section as the Site. These CPWs are depicted on **Figure B** (**Appendix B**). The closet CPWs (Huerfanito Unit #73 and Huerfano Unit #140 and NP #248) are located less than one mile from the Site. Documentation for the cathodic protection well located near the Huerfanito Unit #73 production pad indicates a depth to water of 130 feet below grade surface (bgs). This cathodic protection well is located approximately 0.90 miles east of the Site and is approximately 224 feet higher in elevation than the Site. Documentation for the cathodic protection well located near the Huerfano Unit #140 and NP #248 production pads indicates a depth to water of 115 feet bgs. This cathodic protection well is located approximately 0.99 miles southwest of the Site and is approximately 93 feet higher in elevation than the Site.

- The Site is located within 300 feet of a NM EMNRD OCD-defined significant watercourse (**Figure C**, **Appendix B**). A stock pond, which the NM EMNRD OCD defines as a significant watercourse, is located approximately 275 feet northwest of the Site. The nearest ephemeral wash is located approximately 362 feet west of the Site.

- The Site is not located within 200 feet of a lakebed, sinkhole, or playa lake.

- The Site is not located within 300 feet of a permanent residence, school, hospital, institution, or church (**Figure D**, **Appendix B**).

- No springs, or private domestic freshwater wells used by less than five households for domestic or stock watering purposes were identified within 500 feet of the Site (**Figure E**, **Appendix B**).

- No freshwater wells or springs were identified within 1,000 feet of the Site (**Figure E**, **Appendix B**).

- The Site is not located within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to New Mexico Statutes Annotated (NMSA) 1978, Section 3-27-3.

- Based on information identified in the U.S. Fish & Wildlife Service National Wetlands Inventory Wetlands Mapper, the Site is not within 300 feet of a wetland (**Figure F**, **Appendix B**).

- Based on information identified in the NM Mining and Minerals Division's Geographic Information System (GIS) Maps and Mine Data database, the Site is not within an area overlying a subsurface mine (**Figure G**, **Appendix B**).

- The Site is not located within an unstable area per Paragraph (6) of Subsection U of 19.15.2.7 NMAC.

- Based on information provided by the Federal Emergency Management Agency (FEMA) National Flood Hazard Layer (NFHL) geospatial database, the Site is not within a 100-year floodplain (**Figure H**, **Appendix B**).

Based on available information Enterprise estimates the depth to water at the Site to potentially be less than 50 feet bgs, resulting in a Tier I ranking. The closure criteria for soils remaining in place at the Site include:

Tier I Closure Criteria for Soils Impacted by a Release		
Constituent[1]	**Method**	**Limit**
Chloride	EPA 300.0 or SM4500 Cl B	600 mg/kg
TPH (GRO+DRO+MRO)[2]	EPA SW-846 Method 8015	100 mg/kg
BTEX[3]	EPA SW-846 Method 8021 or 8260	50 mg/kg
Benzene	EPA SW-846 Method 8021 or 8260	10 mg/kg

[1] – Constituent concentrations are in milligrams per kilogram (mg/kg).
[2] – Total Petroleum Hydrocarbons (TPH). Gasoline Range Organics (GRO). Diesel Range Organics (DRO). Motor Oil/Lube Oil Range Organics (MRO).
[3] – Benzene, Toluene, Ethylbenzene, and Total Xylenes (BTEX).

3.0 SOIL REMEDIATION ACTIVITIES

On February 16, 2024, Enterprise initiated activities to remediate petroleum hydrocarbon impact resulting from the release. During the remediation and corrective action activities, Sunland Construction, Inc., provided heavy equipment and labor support, while Ensolum provided environmental consulting support.

The excavation measured approximately 24 feet long and 18 feet wide at the maximum extents. The maximum depth of the excavation measured approximately 4.5 feet bgs. The lithology encountered during the completion of remediation activities consisted primarily of silty sand and sandstone.

Approximately 106 cubic yards (yd^3) of petroleum hydrocarbon-affected soils and 10 barrels (bbls) of hydro-excavation soil cuttings and water were transported to the Envirotech, Inc., (Envirotech) landfarm in San Juan County, NM for disposal/remediation. The executed C-138 solid waste acceptance form is provided in **Appendix C**. The excavation was backfilled with imported fill and then contoured to the surrounding grade.

Figure 3 is a map that identifies approximate soil sample locations and depicts the approximate dimensions of the excavation with respect to the meter run (**Appendix A**). Photographic documentation of the field activities is included in **Appendix D**.

4.0 SOIL SAMPLING PROGRAM

Ensolum field screened the soil samples from the excavation utilizing a calibrated Dexsil PetroFLAG® hydrocarbon analyzer system and a photoionization detector (PID) fitted with a 10.6 eV lamp to guide excavation extents.

Ensolum's soil sampling program included the collection of six composite soil samples (S-1 through S-6) from the excavation for laboratory analysis. The composite samples were comprised of five aliquots each and represent an estimated 200 square foot (ft^2) or less sample area per guidelines outlined in Section D of 19.15.29.12 NMAC. The hand tools were utilized to obtain fresh aliquots from each area of the excavation. Regulatory correspondence is provided in **Appendix E**.

Sampling Event

On February 20, 2024, sampling was performed at the Site. The NM EMNRD OCD was notified of the sampling event although no representative was present during sampling activities. Composite soil samples S-1 (4.5') and S-2 (4.5') were collected from the floor of the excavation. Composite soil samples S-3 (0' to 4.5'), S-4 (0' to 4.5'), S-5 (0' to 4.5'), and S-6 (0' to 16') were collected from the walls of the excavation.

All soil samples were collected and placed in laboratory-prepared glassware. The containers were labeled and sealed using the laboratory-supplied labels and custody seals and were stored on ice in a cooler. The samples were relinquished to the courier for Eurofins Environment Testing South Central LLC (Eurofins) of Albuquerque, NM, under proper chain-of-custody procedures.

5.0 SOIL LABORATORY ANALYTICAL METHODS

The composite soil samples were analyzed for BTEX using Environmental Protection Agency (EPA) SW-846 Method 8021; TPH GRO/DRO/MRO using EPA SW-846 Method 8015; and chlorides using EPA Method 300.0.

The laboratory analytical results are summarized in **Table 1** (**Appendix F**). The laboratory data sheets and executed chain-of-custody forms are provided in **Appendix G**.

6.0 SOIL DATA EVALUATION

Ensolum compared the benzene, BTEX, TPH, and chloride laboratory analytical results or laboratory practical quantitation limits (PQLs) / reporting limits (RLs) associated with the composite soil samples (S-1 through S-6) to the applicable NM EMNRD OCD closure criteria. The laboratory analytical results are summarized in **Table 1** (**Appendix F**).

- The laboratory analytical results for the composite soil samples indicate benzene is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the NM EMNRD OCD closure criteria of 10 mg/kg.
- The laboratory analytical results for the composite soil samples indicate total BTEX is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the NM EMNRD OCD closure criteria of 50 mg/kg.
- The laboratory analytical results for the composite soil samples indicate total combined TPH GRO/DRO/MRO is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the NM EMNRD OCD closure criteria of 100 mg/kg.
- The laboratory analytical results for the composite soil samples indicate chloride is not present at concentrations greater than the laboratory PQLs/RLs, which is less than the NM EMNRD OCD closure criteria of 600 mg/kg.

7.0 RECLAMATION

The excavation was backfilled with imported fill and then contoured to the surrounding grade. Once the Site is no longer being used for oil and gas production, final reclamation and revegetation will be addressed in accordance with 19.15.29.13 NMAC.

8.0 FINDINGS AND RECOMMENDATION

- Six composite soil samples were collected from the Site. Based on laboratory analytical results, no benzene, BTEX, chloride, or total combined TPH GRO/DRO/MRO exceedances were identified in the soils remaining at the Site.

- Approximately 106 yd^3 of petroleum hydrocarbon-affected soils and 10 bbls of hydro-excavation soil cuttings and water were transported to the Envirotech landfarm for disposal/remediation.

- Enterprise requests deferment of final reclamation and revegetation at the Site to address the requirements of 19.15.29.13 NMAC until after the Site is no longer being utilized for oil and gas production.

Based on field observations and laboratory analytical results, no additional investigation or corrective action appears warranted at this time.

9.0 STANDARDS OF CARE, LIMITATIONS, AND RELIANCE

9.1 Standard of Care

Ensolum's services were performed in accordance with standards customarily provided by a firm rendering the same or similar services in the area during the same time period. Ensolum makes no warranties, express or implied, as to the services performed hereunder. Additionally, Ensolum does not warrant the work of third parties supplying information used in the report (e.g., laboratories, regulatory agencies, or other third parties).

9.2 Limitations

Findings, conclusions, and recommendations resulting from these services are based upon information derived from the on-Site activities and other services performed under this scope of work, and it should be noted that this information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, or not present during these services, and Ensolum cannot represent that the Site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those identified during the investigation. Environmental conditions at other areas or portions of the Site may vary from those encountered at actual sample locations. Ensolum's findings and recommendation are based solely upon data available to Ensolum at the time of these services.

9.3 Reliance

This report has been prepared for the exclusive use of Enterprise, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Site) is prohibited without the express written authorization of Enterprise and Ensolum. Any unauthorized distribution or reuse is at the client's sole risk. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions, and limitations stated in the Closure Report and Ensolum's Master Services Agreement. The limitation of liability defined in the agreement is the aggregate limit of Ensolum's liability to the client.

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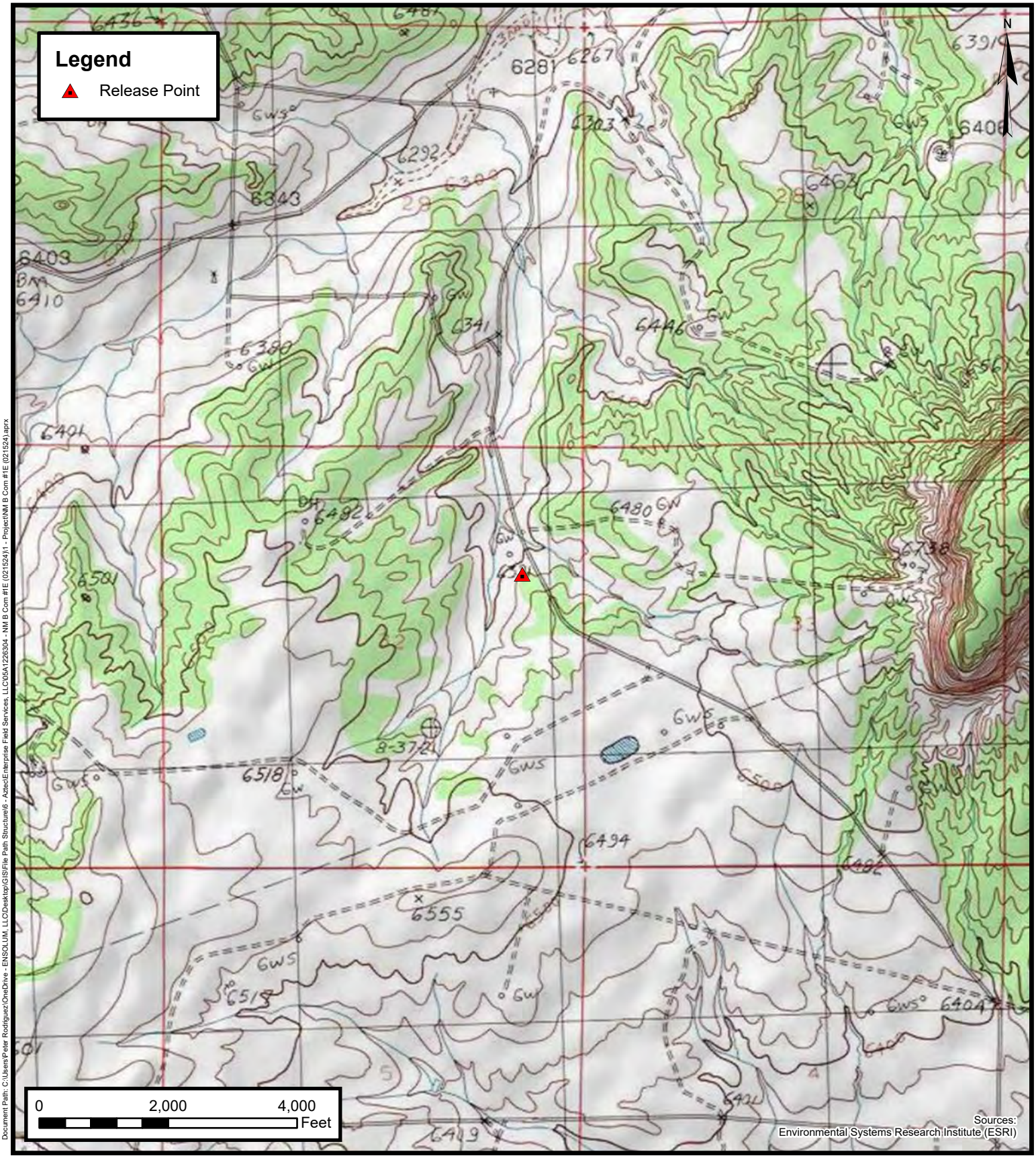
APPENDIX A

Figures



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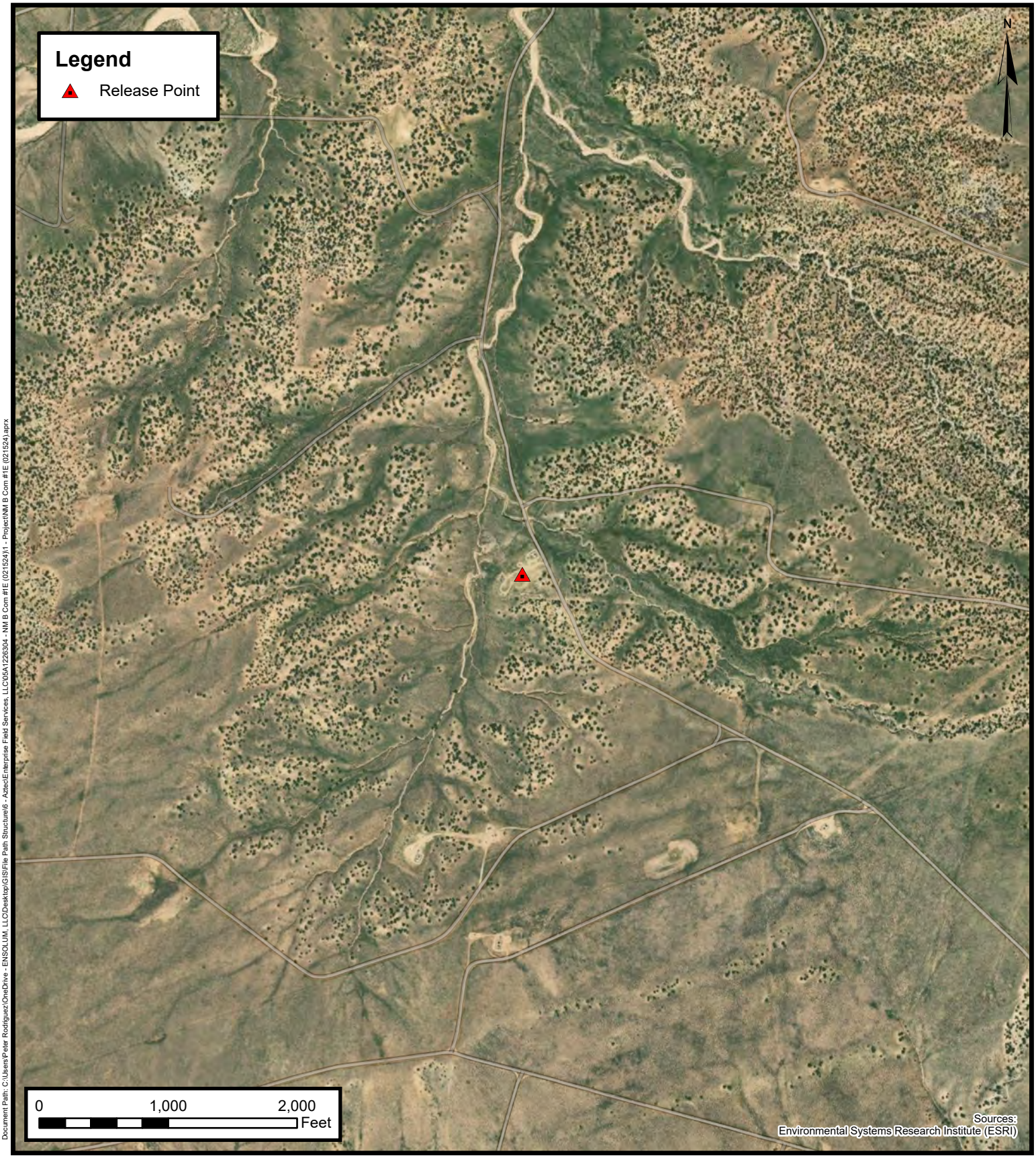
ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Topographic Map

Enterprise Field Services, LLC
NM B Com #1E (02/15/24)
Project Number: 05A1226304
Unit Letter H, S32 T27N R9W, San Juan County, New Mexico
36.5345, -107.805

FIGURE
1



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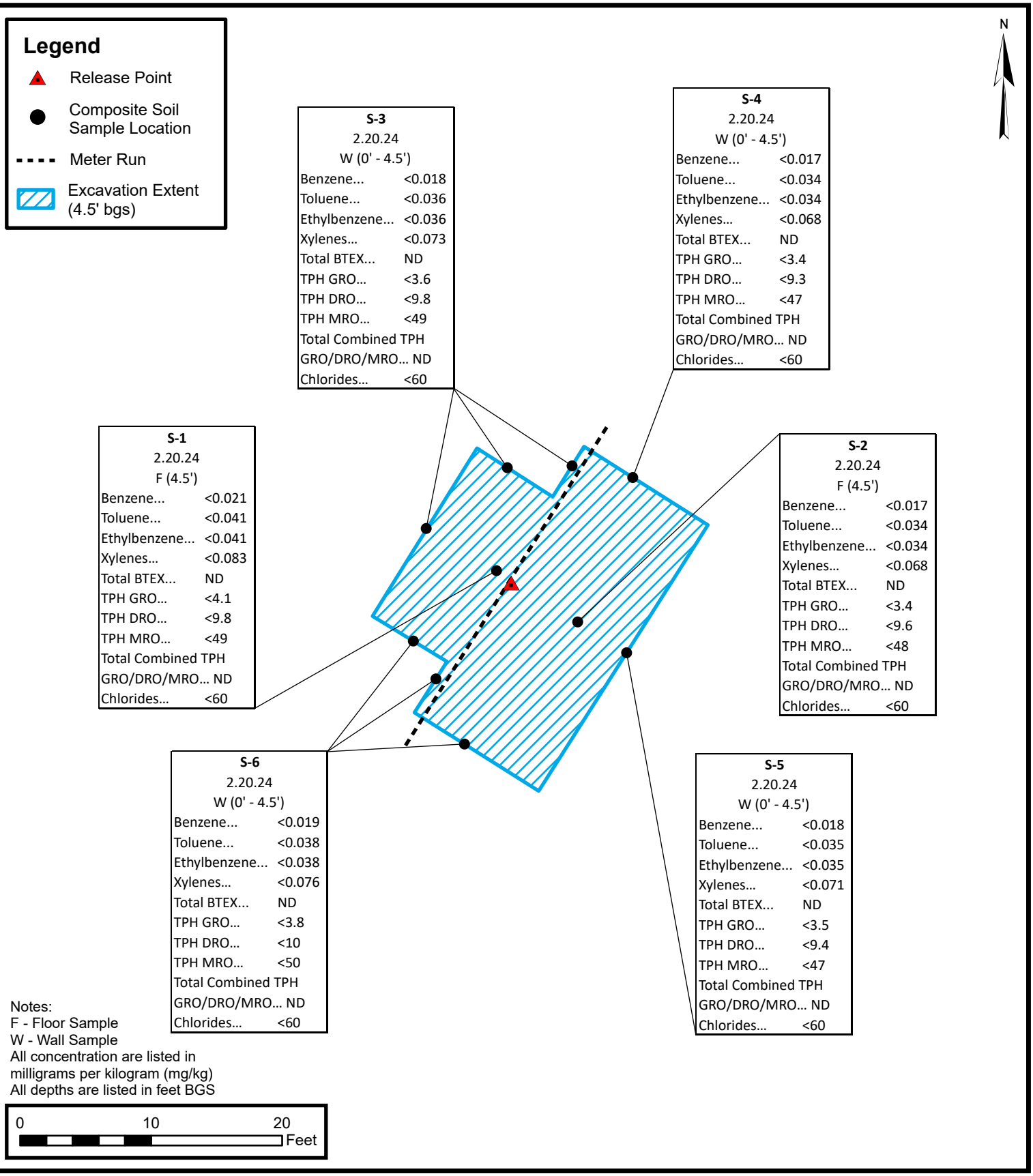
Site Vicinity Map

Enterprise Field Services, LLC
NM B Com #1E (02/15/24)
Project Number: 05A1226304
Unit Letter H, S32 T27N R9W, San Juan County, New Mexico
36.5345, -107.805

FIGURE
2



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Site Map with Soil Analytical Results

Enterprise Field Services, LLC
NM B Com #1E (02/15/24)
Project Number: 05A1226304
Unit Letter H, S32 T27N R9W, San Juan County, New Mexico
36.5345, -107.805

FIGURE
3

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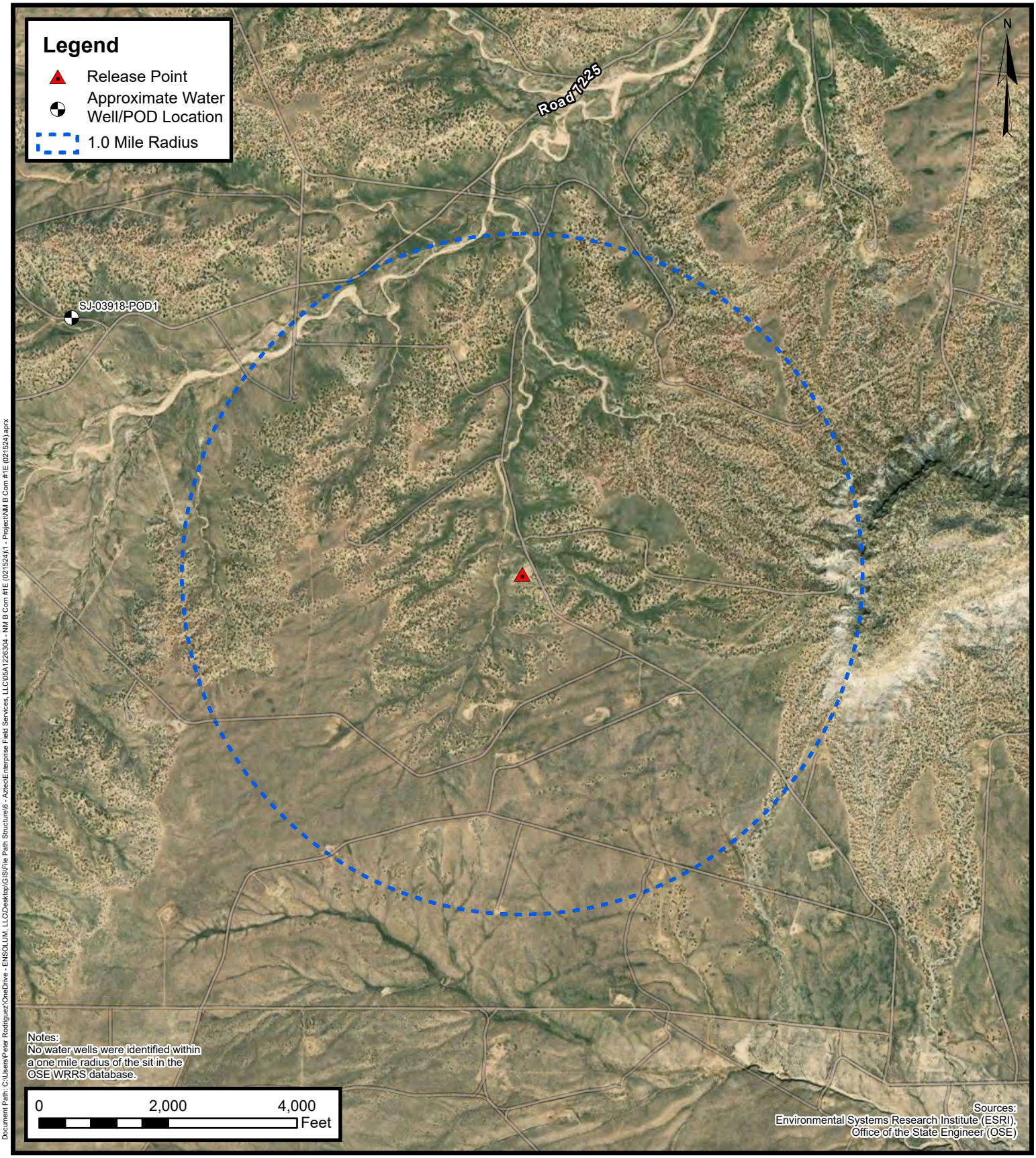
APPENDIX B

Siting Figures and Documentation



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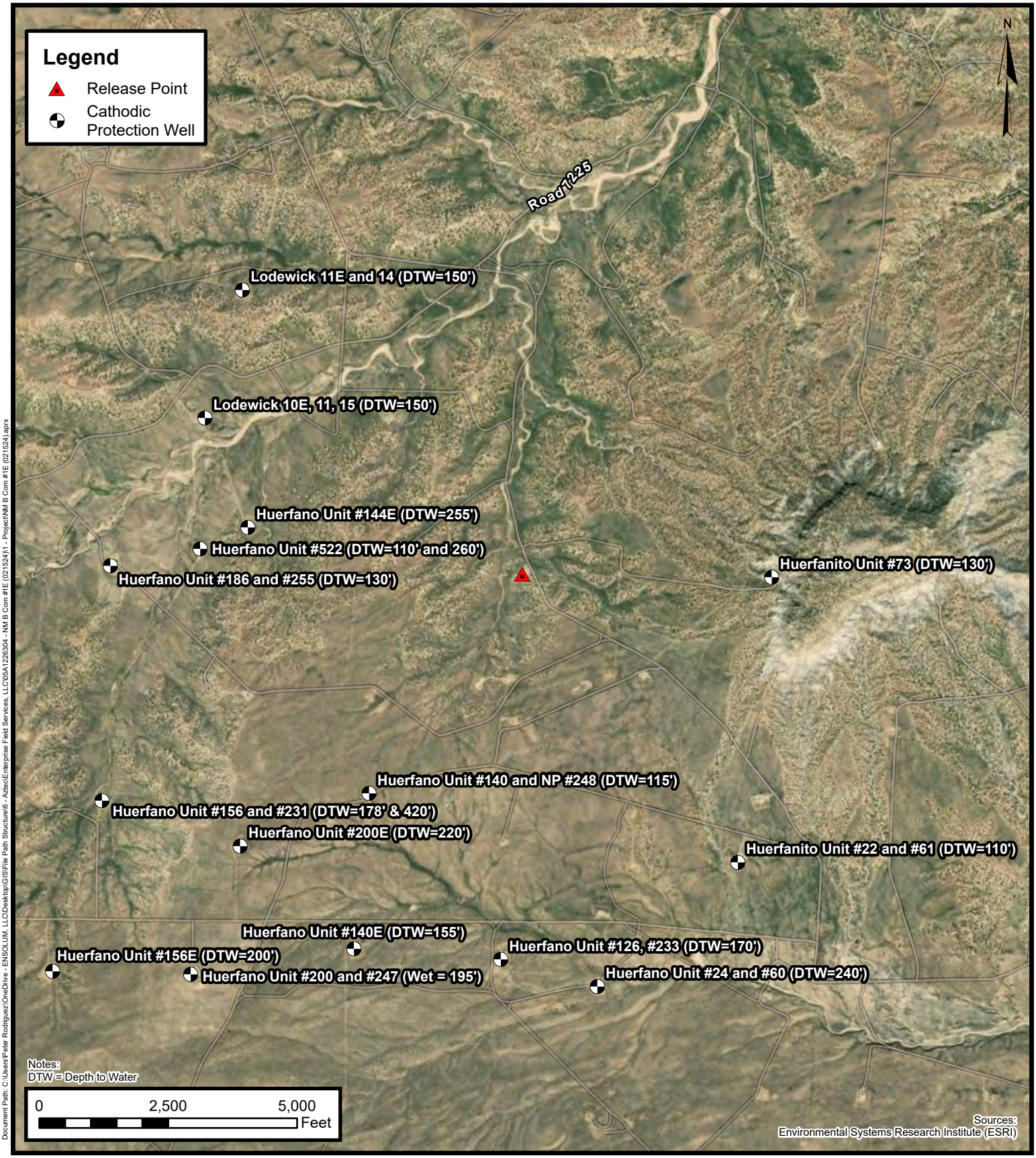
1.0 Mile Radius Water Well/POD Location Map

Enterprise Field Services, LLC
NM B Com #1E (02/15/24)
Project Number: 05A1226304

Unit Letter H, S32 T27N R9W, San Juan County, New Mexico
36.5345, -107.805

FIGURE

A



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Cathodic Protection Well
Recorded Depth to Water
Enterprise Field Services, LLC
NM B Com #1E (02/15/24)
Project Number: 05A1226304
Unit Letter H, S32 T27N R9W, San Juan County, New Mexico
36.5345, -107.805

FIGURE
B

Document Path: C:\Users\Peter Rodriguez\OneDrive - ENSOLUM, LLC\Desktop\GIS\File Path Structure\6 - Aztec\Enterprise Field Services, LLC\05A1226304 - NM B Com #1E (021524)\1 - Project\NM B Com #1E (021524).aprx

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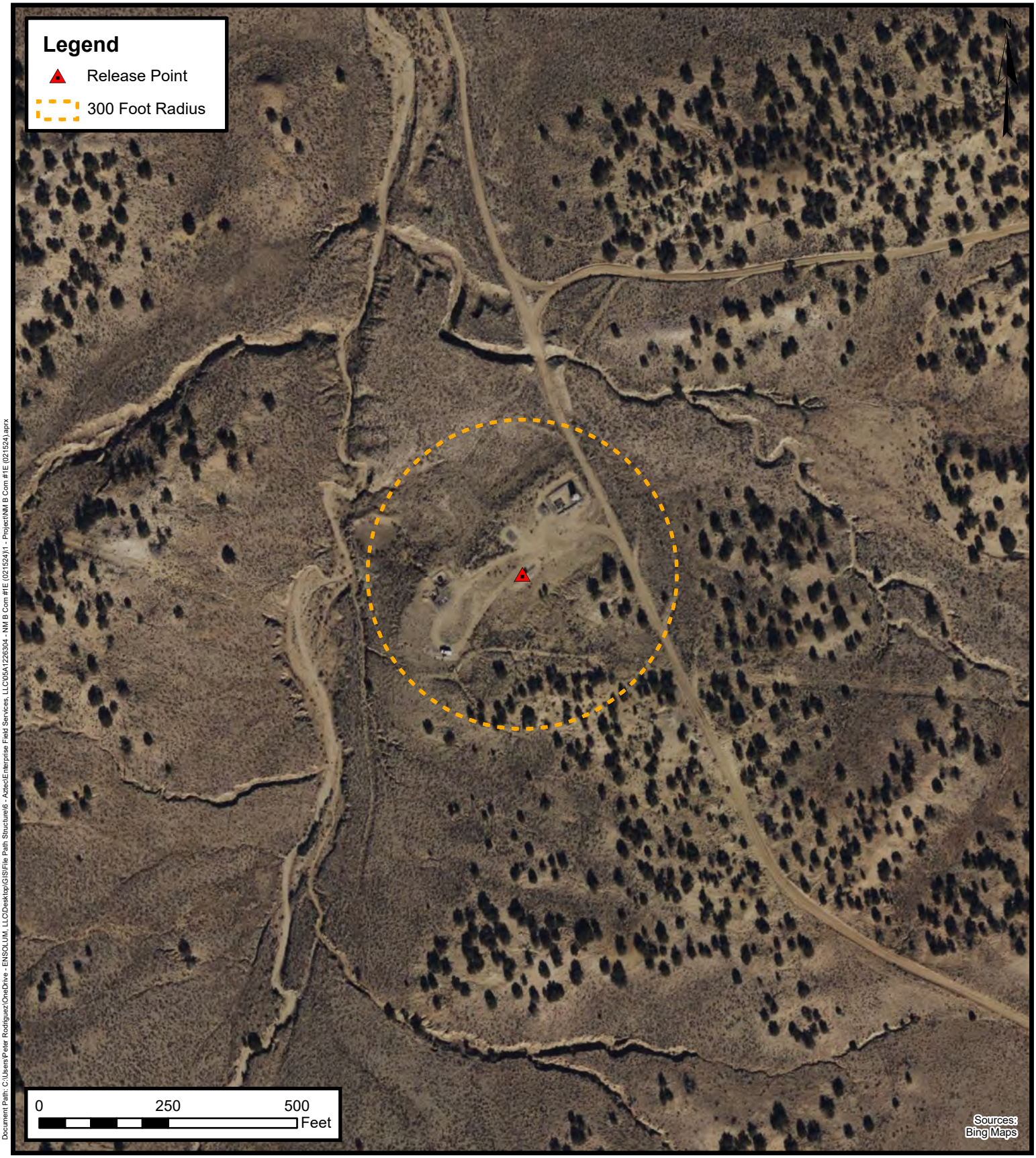
300 Foot Radius Watercourse and Drainage Identification

Enterprise Field Services, LLC
NM B Com #1E (02/15/24)
Project Number: 05A1226304
Unit Letter H, S32 T27N R9W, San Juan County, New Mexico
36.5345, -107.805

FIGURE

C



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300 Foot Radius Occupied Structure Identification

Enterprise Field Services, LLC
NM B Com #1E (02/15/24)
Project Number: 05A1226304
Unit Letter H, S32 T27N R9W, San Juan County, New Mexico
36.5345, -107.805

FIGURE

D

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Water Well and Natural Spring Location
Enterprise Field Services, LLC
NM B Com #1E (02/15/24)
Project Number: 05A1226304
Unit Letter H, S32 T27N R9W, San Juan County, New Mexico
36.5345, -107.805

FIGURE
E

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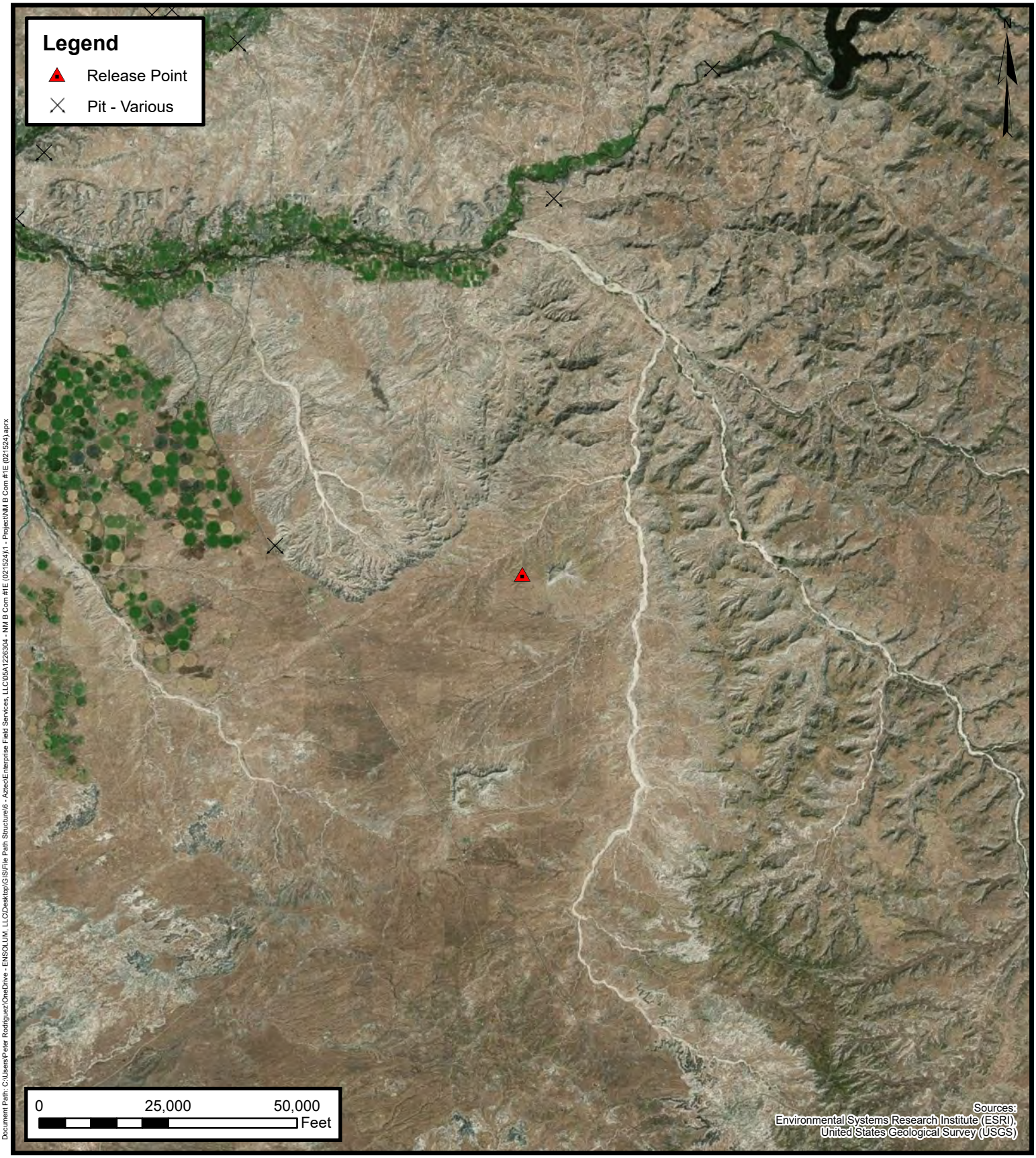
Wetlands

Enterprise Field Services, LLC
NM B Com #1E (02/15/24)
Project Number: 05A1226304
Unit Letter H, S32 T27N R9W, San Juan County, New Mexico
36.5345, -107.805

FIGURE
F



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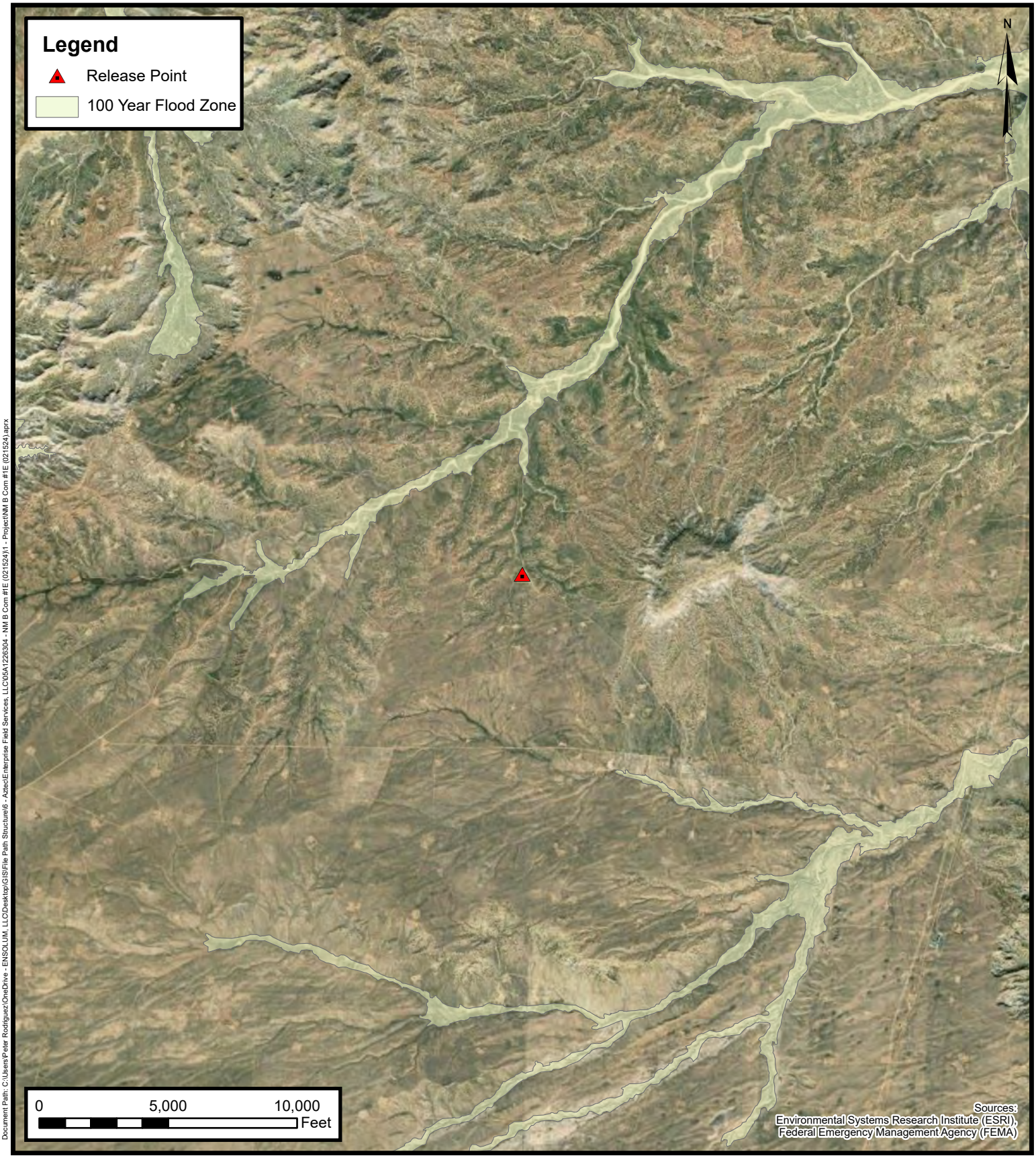
Mines, Mills, and Quarries

Enterprise Field Services, LLC
NM B Com #1E (02/15/24)
Project Number: 05A1226304
Unit Letter H, S32 T27N R9W, San Juan County, New Mexico
36.5345, -107.805

FIGURE
G



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Environmental, Engineering and Hydrogeologic Consultants

100-Year Flood Plain Map

Enterprise Field Services, LLC
NM B Com #1E (02/15/24)
Project Number: 05A1226304
Unit Letter H, S32 T27N R9W, San Juan County, New Mexico
36.5345, -107.805

FIGURE
H

New Mexico Office of the State Engineer
Water Column/Average Depth to Water

No records found.

PLSS Search:

Section(s): 28, 29, 30, 31, 32, 33 **Township:** 27N **Range:** 09W

New Mexico Office of the State Engineer
Water Column/Average Depth to Water

No records found.

PLSS Search:

Section(s): 4, 5, 6 **Township:** 26N **Range:** 09W

10E - 30-045-23845
15 - 30-045-27719
11 - 30-045-20363

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICO
(Submit 3 copies to OCD Aztec Office)

Operator UNOCAL Oil & Gas Location: Unit ___ Sec. 30 Twp 27 Rng 9

Name of Well/Wells or Pipeline Serviced Lodewick No. 10E, 15, 11

Elevation 6479' Completion Date 12-18-90 Total Depth 300' Land Type* F

Casing, Sizes, Types & Depths NONE

If Casing is cemented, show amounts & types used NONE

If Cement or Bentonite Plugs have been placed, show depths & amounts used

NONE

Depths & thickness of water zones with description of water when possible:

Fresh, Clear, Salty, Sulphur, Etc. 150' deep = damp streak fresh water

Depths gas encountered: NONE

Type & amount of coke breeze used: 300' deep with 99.9% carbon=carbo 40 petroleum Coke breeze = 1400 lbs.

Depths anodes placed: 245', 255', 265', 275', 285', 295'

Depths vent pipes placed: 0 to 300'

Vent pipe perforations: From 160' to 300' - All vent laser slots

Remarks: First ground bed installed on location

If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included.

*Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee.
If Federal or Indian, add Lease Number.

RECEIVED
JAN 30 1991.
OIL CON. DIV.
DIST. 3

Cathodic Protection Services
A LUKENS COMPANY

CP #: 751-00054 WELL NAME: Lodewick #10E LOCATION: 30 27 9 DATE: 12-18-90

TOTAL VOLTS: 12.33 TOTAL AMPS: 11.2 OHMS RESISTANCE: 1.10

Lida

DEEP	LOG ANODE	ANODE NO.	DEEP	LOG ANODE	ANODE NO.	DEEP	LOG ANODE	ANODE No.	DEEP	LOG ANODE	ANODE No.
5			185	1.7		365			545		
10			190	1.6		370			550		
15			195	2.0		375			555		
20			200	2.3		380			560		
25			205	2.3		385			565		
30			210	2.8		390			570		
35			215	2.4		395			575		
40			220	2.7		400			580		
45			225	2.5		405			585		
50			230	2.8		410			590		
55			235	2.8		415			595		
60			240	3.2		420			600		
65			245	3.6	6	425			605		
70			250	3.9		430			610		
75			255	4.3	5	435			615		
80			260	4.3		440			620		
85			265	4.4	4	445			625		
90			270	4.8		450			630		
95			275	4.8	3	455			635		
100			280	5.0		460			640		
105			285	5.1	2	465			645		
110	.8		290	5.5		470			650		
115	1.6		295	5.0	1	475			655		
120	1.5		300	TD		480			660		
125	2.0		305			485			665		
130	1.7		310			490			670		
135	1.5		315			495			675		
140	2.1		320			500			680		
145	1.6		325			505			685		
150	1.9		330			510			690		
155	2.3		335			515			695		
160	2.1		340			520			700		
165	2.3		345			525			705		
170	2.3		350			530			710		
175	1.8		355			535			715		
180	1.8		360			540			720		

ANODE DEALINGS

NO.	DEPTH	NO COKE	WITH COKE
1	290	5.5	11.2

REMARKS: 5 5/8 Dia - 300 TYD - All vent 160'

MOTE DRILLING, INC.

DAY Tuesday

DRILLER Bob B.		LEFT TOWN	ARRIVED FIELD
HELPER Rick Santee		LEFT FIELD	ARRIVED TOWN
HELPER Bill Jurris		TOTAL FOOTAGE TODAY	

RIG NO. 206 DATE 12-18-90 CLIENT Uns Cal

BEGIN WORK ON HOLE NO. Lodewick 10-E AT _____ FEET

BEGIN WORK ON HOLE NO. _____ AT _____ FEET

TIME FROM	TIME TO	ACTIVITY
0	40	Brown sand & clay
40	50	grey sand
50	80	grey shale
80	200	grey sandstone w/ some shale
200	300	grey shale

BIT RECORD SIZE & MAKE	SERIAL NO.	FOOTAGE	
1 Jet	5 7/8"	new blades	

CIRCULATION MATERIAL QUAN.	UNIT	MATERIAL	

NO. OF LOADS OF WATER 1 SOURCE Hilltop Waterhole.

san juan repr farm,nm Form 219-6

DATE 21 Nov 90 ITEM# 7

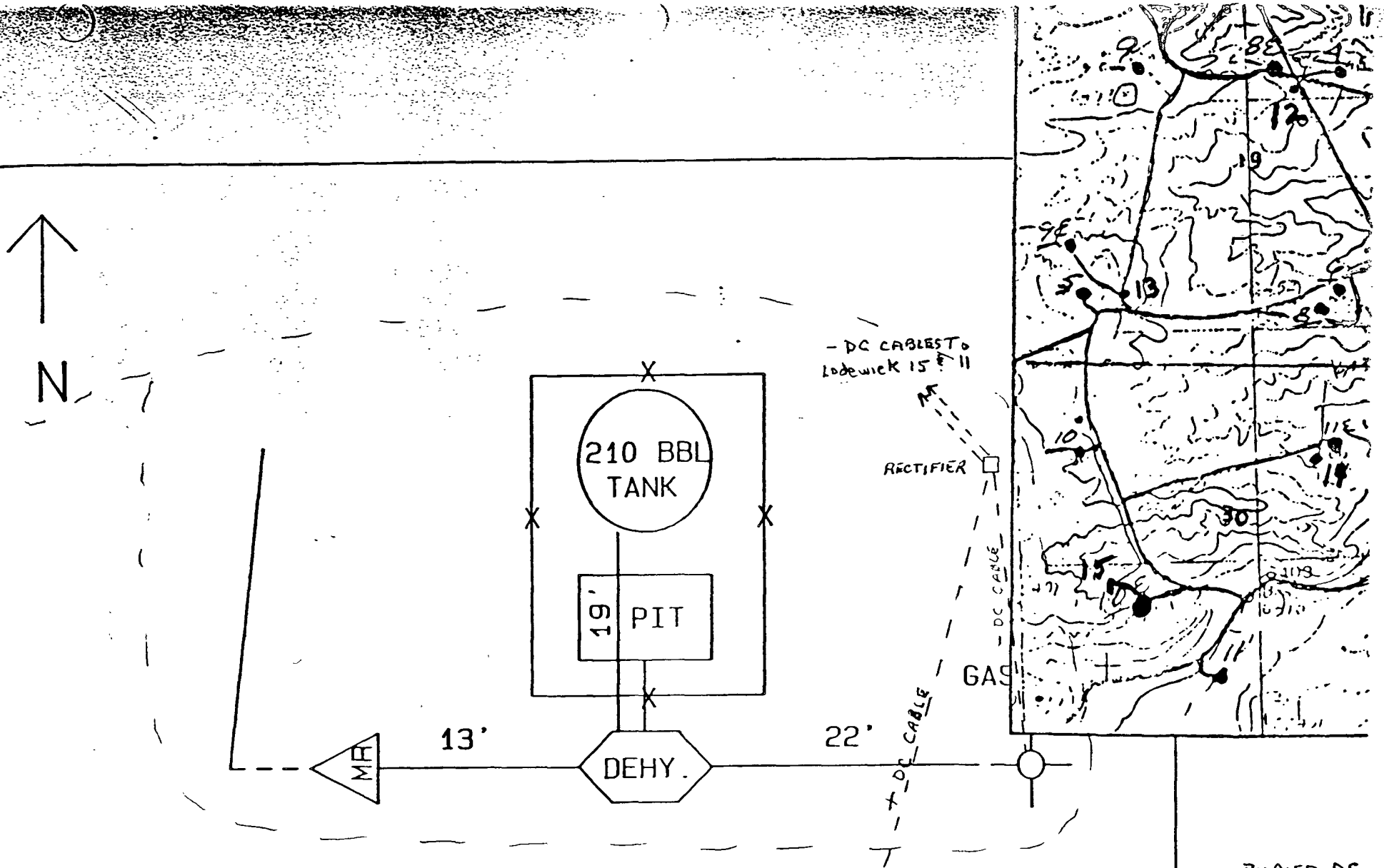
PART# 90-T-352 CPS P.O.# RC75075790

TOTAL LENGTH 305'

TAIL A LENGTH 258.36'

TAIL B LENGTH

INSPECTED BY [illegible] Lodewick No 10E



REMARKS

LODEWICK #10E DK
NE/SW SEC 30 T27N R9W NMPM
METER NO. 93034
NM 02861

DATE: 09/05/89
SCALE: NONE

GROUNDBED

UNOCAL

BURIED DC CABLE IN MIDDLE OF ROAD

● LOCATION OF GROUNDBED, RECTIFIER, & METER POLE

11E - 30-045-23878

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICO
(Submit 3 copies to OCD Aztec Office)

14 - 30-045-27718

Operator UNOCAL Oil & Gas Location: Unit ___ Sec. 30 Twp 27 Rng 9

Name of Well/Wells or Pipeline Serviced Lodewick No. 11E, 14

Elevation 6371' Completion Date 12-18-90 Total Depth 300' Land Type* F

Casing, Sizes, Types & Depths NONE

If Casing is cemented, show amounts & types used NONE

If Cement or Bentonite Plugs have been placed, show depths & amounts used

NONE

Depths & thickness of water zones with description of water when possible:

Fresh, Clear, Salty, Sulphur, Etc. 150' deep = damp streak fresh water

Depths gas encountered: NONE

Type & amount of coke breeze used: 300' with 99.9% carbon-carbo 40 petroleum Coke breeze = 1400 lbs

Depths anodes placed: 245', 255', 265', 275', 285', 295'

Depths vent pipes placed: 0 to 300'

Vent pipe perforations: From 160' to 300' = All vent = Laser cut slots

Remarks: First ground bed installed on location

If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included.

*Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee.
If Federal or Indian, add Lease Number.

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DIST. 3

Cathodic Protection Services — A LUKENS COMPANY

CPS #: 751-00084 WELL NAME: Lodewick No 11E LOCATION: -229 DATE: 12-18-90

TOTAL VOLTS: 12.23 TOTAL AMPS: 13.2 OHMS RESISTANCE: 0.93

DEEP	LOG ANODE	ANODE NO.	DEEP	LOG ANODE	ANODE NO	DEEP	LOG ANODE	ANODE No.	DEEP	LOG ANODE	ANODE No.	ANODE READINGS NO.	DEPTH	NO COKE	WITH COKE
5			185	1.6		365			545			1	290	6.5	13.2
10			190	1.9		370			550						
15			195	2.0		375			555						
20			200	2.0		380			560						
25			205	2.3		385			565						
30			210	2.4		390			570						
35			215	2.2		395			575						
40			220	2.6		400			580						
45			225	2.4		405			585						
50			230	2.3		410			590						
55			235	2.5		415			595						
60			240	2.5		420			600						
65			245	2.7	6	425			605						
70			250	2.6		430			610						
75			255	2.7	5	435			615						
80			260	3.0		440			620						
85			265	3.0	4	445			625						
90			270	3.2		450			630						
95			275	3.4	3	455			635						
100			280	3.6		460			640						
105			285	3.9	2	465			645						
110			290	4.0		470			650						
115			295	4.9	1	475			655						
120			300	TD		480			660						
125			305			485			665						
130			310			490			670						
135			315			495			675						
140			320			500			680						
145			325			505			685						
150			330			510			690						
155	.8		335			515			695						
160	.9		340			520			700						
165	.8		345			525			705						
170	1.2		350			530			710						
175	1.4		355			535			715						
180	1.5		360			540			720						

REMARKS: 5 5/8 Dia ~ 300 TD All vent 160'

CPS

MC-TE DRILLING, INC.

DAY Tuesday

DRILLER Bob B.		LEFT TOWN	ARRIVED FIELD
HELPER Bill Santee		LEFT FIELD	ARRIVED TOWN
HELPER Bill Y.		TOTAL FOOTAGE TODAY	

RIG NO. 206 DATE 2-18-90 CLIENT Mobil

BEGIN WORK ON HOLE NO Lodewick 11-E AT _____ FEET

BEGIN WORK ON HOLE NO. _____ AT _____ FEET

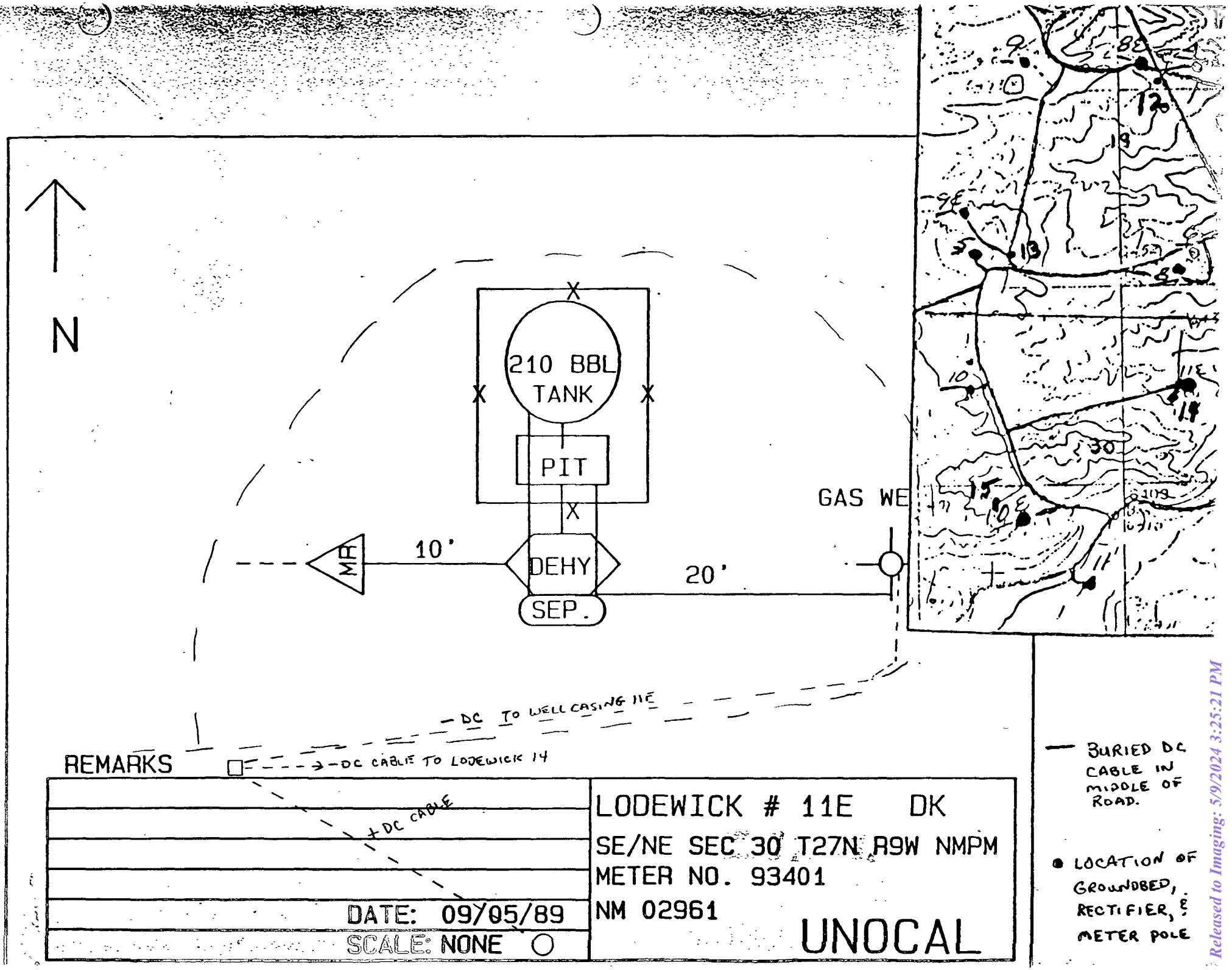
TIME FROM	TIME TO	ACTIVITY
0	50	Brown sand & clay
50	90	grey shale
90	220	grey sandstone
220	300	grey shale

BIT RECORD SIZE & MAKE	SERIAL NO.	FOOTAGE	
—			

CIRCULATION MATERIAL QUAN.	UNIT	MATERIAL	

NO. OF LOADS OF WATER — SOURCE —

san juan repr farm,nm Form 219-6



REMARKS

LODEWICK # 11E DK

SE/NE SEC 30 T27N R9W NMPM

METER NO. 93401

NM 02961

DATE: 09/05/89

SCALE: NONE

UNOCAL

#255 30-045-20531
#186 30-045-20531

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICO

Operator Meridian Oil Co. Location: Unit E Sec. 31 Twp 27 Rng 9

Name of Well/Wells or Pipeline Serviced Huerfano #253, #186

Elevation ____ Completion Date 6-20-95 Total Depth 410' Land Type S

Casing Strings, Sizes, Types & Depths 100' 8" PVC Casing on 4-18-95
No gas, water or boulders encountered during casing

If Casing Strings are cemented, show amounts & types used yes, Cemented with 18sacks

If Cement or Bentonite Plugs have been placed, show depths & amounts used
None

Depths & thickness of water zones with description of water: Fresh, Clear, Salty, Sulphur, Etc. 130' Fresh

Depths gas encountered: None

Ground bed depth with type & amount of coke breeze used: 410'
5800 lbs Asbury

Depths anodes placed: 395, 385, 375, 365, 355, 345, 335, 325, 315, 305, 290, 280, 270, 260, 250

Depths vent pipes placed: Surface to 410'

Vent pipe perforations: From 160' to 410'

Remarks: No gas or boulders encountered during casing

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OIL CON. DIV.
DIST. 3

If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included.

Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee.
If Federal or Indian, add Lease Number.

30-045-24846

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICO
(Submit 3 copies to OCD Aztec Office)

Operator MERIDIAN OIL Location: Unit NE Sec. 31 Twp 26 Rng 9

Name of Well/Wells or Pipeline Serviced HUERFANO UNIT #144E

cps 1675w

Elevation 6428' Completion Date 8/17/83 Total Depth 560' Land Type* N/A

Casing, Sizes, Types & Depths 20' OF 8" CASING

If Casing is cemented, show amounts & types used N/A

If Cement or Bentonite Plugs have been placed, show depths & amounts used

N/A

Depths & thickness of water zones with description of water when possible:

Fresh, Clear, Salty, Sulphur, Etc. 255' NO SAMPLE

Depths gas encountered: N/A

Type & amount of coke breeze used: 5400 lbs.

Depths anodes placed: 515', 505', 495', 485', 455', 445', 410', 400', 390', 380'

Depths vent pipes placed: 545'

Vent pipe perforations: 360'

Remarks: gb #1

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DIST. 3

If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included.

*Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee.
If Federal or Indian, add Lease Number.

FM-07-0238 (Rev. 10-82)

WELL CASING

CATHODIC PROTECTION CONSTRUCTION REPORT

DAILY LOG

Drilling Log (Attach Hereto) ☐ Completion Date 8-17-83

CPS #	Well Name, Line or Plant	Work Order #	Static:	Ins. Union Check
1675. W	HUERFANO UNIT #144E	184-59138-21	-.80	☑ Good ☐ Bad

Location	Anode Size	Anode Type	Size Bit
NE31-26-9	2"	DURIRON	6 3/4

Depth Drilled	Depth Logged	Drilling Rig Time	Total Lbs. Coke Used	Lost Circulation Mat'l Used	No. Sacks Mud Used
560	545		5400		

	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10
Anode Depth	515	505	495	485	455	445	410	400	390	380
Anode Output (Amps)	3.9	5.0	4.7	4.2	4.3	3.2	5.0	5.0	5.1	5.6
Anode Depth	#11	#12	#13	#14	#15	#16	#17	#18	#19	#20
Anode Output (Amps)	#11	#12	#13	#14	#15	#16	#17	#18	#19	#20

Total Circuit Resistance			No. 8 C.P. Cable Used	No. 2 C.P. Cable Used
Volts 12.2	Amps. 19.5	Ohms .62		

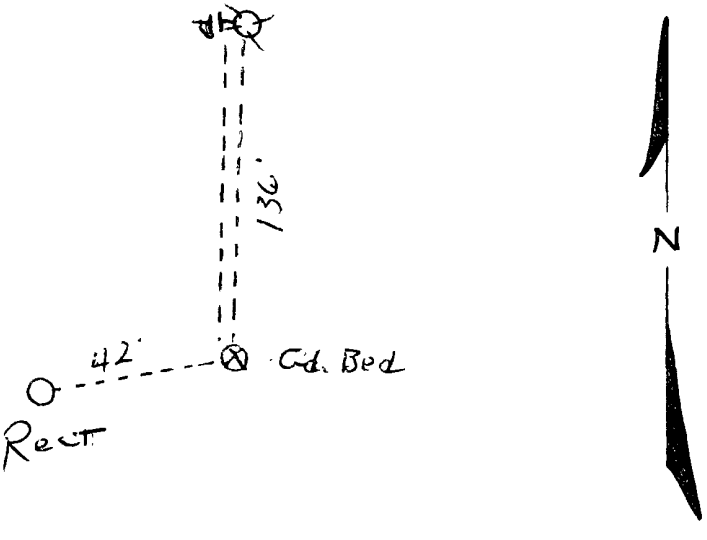
Remarks: DRILLER Said WET AT 255', DRILLED 10' CUTTINGS QUIT COMING OUT OF HOLE. HAD TO INJECT NEXT A.M TO CLEAN HOLE, DID NOT GET WATER SAMPLE. HOLE IS MAKING WATER. INSTALLED 545' OF 1" VENT PIPE, PERFORATED 360' OF VENT PIPE. SLURRIED 5400 LBS OF COKE BREEZE SET 20' OF 8" PVC CASING (NO CHARGE)

Rectifier Size: 40 V 16 A ✓
Addn'l Depth 45' ✓
Depth Credit: —
Extra Cable: 151' ✓
Ditch & 1 Cable: 178' ✓
25' Meter Pole: 1 ✓
20' Meter Pole: —
10' Stub Pole: —

All Construction Completed

Willis Knight Jr
(Signature)

GROUND BED LAYOUT SKETCH



4428

El Paso Natural Gas Company
ENGINEERING CALCULATION SHEET
Form 7-371 (11-77)

Page ____
Date 8-17-83
By WK

CPS 1675-W
Huerfano Unit #144E
NE 31-26-9

W/O 184-59138-21-50-20-63

Static .80
Union OK

Driller said wet at 255. Drilled 10' cuttings quit coming out of hole. Had to inject next AM to clean hole. Did not get water sample.
Installed 545' of 1" vent pipe, perforate 360' of vent pipe. Slurried 5400 lbs of coke breeze
Set 20' of 8" PVC casing (no charge)

250	1.2
55	1.3
60	1.3
65	1.3
70	1.6
75	1.6
80	1.0
85	.90
90	.90
95	.90
300	1.6
05	1.9
10	1.8
15	1.5
20	1.6
25	1.8
30	1.9
35	1.7
40	1.5
45	1.7
50	1.9
55	2.1
60	2.1
65	2.1
70	2.2
75	2.2
80	2.1 (10)
85	2.1
90	2.1 (9)
95	1.9
400	2.0 (8)
05	1.9
10	1.8 (7)
15	1.7
20	1.6
25	1.3
30	1.1
35	1.7

40	1.8
45	2.0 (6)
50	2.1
55	2.0 (5)
60	1.7
65	1.6
70	1.2
75	1.1
80	1.8
85	2.0 (4)
90	2.1
95	2.1 (3)
500	2.0
05	2.0 (2)
10	1.6
15	1.6 (1)
20	1.5
25	1.5
30	1.4
35	1.5
40	
45	TD
50	
55	
60	

Anode	Depth		
(1)	515	3.9	1.8
(2)	505	5.0	2.2
(3)	495	4.7	2.2
(4)	485	4.2	2.0
(5)	455	4.3	2.1
(6)	445	3.2	2.0
(7)	410	5.0	2.3
(8)	400	5.0	2.3
(9)	390	5.1	2.3
(10)	360	5.6	2.5

12.2 V
19.5 A
.62 Ω

Form 22-2 (Rev. 1-61)

EL PASO NATURAL GAS COMPANY

DRILLING DEPARTMENT

DAILY DRILLING REPORT

LEASE O'S 1675 W WELL NO. Hubbard Unit 144E CONTRACTOR LOFTIS CO RIG NO. JR1 REPORT NO. DATE 8-17 1983

MORNING

Driller Total Men In Crew

FROM	TO	FORMATION	WT-BIT	R.P.M.
0	250	SAND & STONE		
250	280	Shale		
280	295	SAND		
295	535	Shale		

NO. DC ____ SIZE ____ LENG. ____

BIT NO. ____

NO. DC ____ SIZE ____ LENG. ____

SER. NO. ____ STANDS

SIZE ____ SINGLES

TYPE ____ DOWN ON KELLY

MAKE ____ TOTAL DEPTH

MUD RECORD			MUD, ADDITIVES USED AND RECEIVED
Time	Wt.	Vis.	
			N.A.I

FROM	TO	TIME BREAKDOWN

REMARKS –

3-5 gal per min

WATER

DAYLIGHT

Driller Total Men In Crew

FROM	TO	FORMATION	WT-BIT	R.P.M.

NO. DC ____ SIZE ____ LENG. ____

BIT NO. ____

NO. DC ____ SIZE ____ LENG. ____

SERIAL NO. ____ STANDS

SIZE ____ SINGLES

TYPE ____ DOWN ON KELLY

MAKE ____ TOTAL DEPTH

MUD RECORD			MUD, ADDITIVES USED AND RECEIVED
Time	Wt.	Vis.	

FROM	TO	TIME BREAKDOWN

REMARKS –

EVENING

Driller Total Men In Crew

FROM	TO	FORMATION	WT-BIT	R.P.M.

NO. DC ____ SIZE ____ LENG. ____

BIT NO. ____

NO. DC ____ SIZE ____ LENG. ____

SERIAL NO. ____ STANDS

SIZE ____ SINGLES

TYPE ____ DOWN ON KELLY

MAKE ____ TOTAL DEPTH

MUD RECORD			MUD, ADDITIVES USED AND RECEIVED
Time	Wt.	Vis.	

FROM	TO	TIME BREAKDOWN

REMARKS –

SIGNED: Toolpusher ____ Company Supervisor Kyle Smith

#522 30-045-29105

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICO

Operator Meridian O.I Location: Unit L Sec. 31 Twp 27 Rng 9

Name of Well/Wells or Pipeline Serviced HuerFano #522

Elevation ____ Completion Date 2-7-95 Total Depth ____ Land Type F

Casing Strings, Sizes, Types & Depths 100' of 8" PVC Casing

C

If Casing Strings are cemented, show amounts & types used Yes

17 sacks.

If Cement or Bentonite Plugs have been placed, show depths & amounts used

None

Depths & thickness of water zones with description of water: Fresh, Clear,

Salty, Sulphur, Etc. 110'-Fresh 260'-Fresh

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Depths gas encountered: None

Ground bed depth with type & amount of coke breeze used: 410

5300 lbs Loresco

Depths anodes placed: (1) 385, 375, 365, 355, 345, 335, 325, 315, 305, 295, 270, 240, 175, 165, 150'

Depths vent pipes placed: Surface to 410'

Vent pipe perforations: From 140' to 410'

Remarks: No gas encountered during drilling of hole

If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included.

Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee.
If Federal or Indian, add Lease Number.

#73 30-045-06165

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICO

Operator Meridian Oil Co. Location: Unit H Sec. 33 Twp 27 Rng 9

Name of Well/Wells or Pipeline Serviced Huerfanito #73

Elevation ____ Completion Date 6-21-95 Total Depth 407' Land Type S

Casing Strings, Sizes, Types & Depths 100' of 8" PVC casing set on 4-20-95. No gas, water or boulders were encountered during casing.

If Casing Strings are cemented, show amounts & types used yes, Cemented with 18 sacks

If Cement or Bentonite Plugs have been placed, show depths & amounts used None

Depths & thickness of water zones with description of water: Fresh, Clear, Salty, Sulphur, Etc. 130'-Fresh

Depths gas encountered: None

Ground bed depth with type & amount of coke breeze used: 407' 5900 lbs- Asbury Coke

Depths anodes placed: 1-390, 380, 372, 365, 345, 335, 328, 320, 313, 300, 293, 185, 175, 165, 155

Depths vent pipes placed: Surface to 407'

Vent pipe perforations: From 132' to 407'

Remarks:

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OIL CON. DIV.
DIST. 3

If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included.

Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee.
If Federal or Indian, add Lease Number.

E

812

24-30-045-06030

60-30-045-06015

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICO
(Submit 3 copies to OCD Aztec Office)

Operator MERIDIAN OIL Location: Unit SW Sec. 4 Twp 26 Rng 9

Name of Well/Wells or Pipeline Serviced HUERFANITO UNIT #60, #24

cps 1015w

Elevation 6401' Completion Date 8/18/75 Total Depth 400' Land Type* N/A

Casing, Sizes, Types & Depths N/A

If Casing is cemented, show amounts & types used N/A

If Cement or Bentonite Plugs have been placed, show depths & amounts used

N/A

Depths & thickness of water zones with description of water when possible:

Fresh, Clear, Salty, Sulphur, Etc. 240'

Depths gas encountered: N/A

Type & amount of coke breeze used: 3100 lbs.

Depths anodes placed: 350', 340', 330', 320', 310', 300', 290', 280', 255', 245'

Depths vent pipes placed: N/A

Vent pipe perforations: 200'

Remarks: gb #1

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OIL CON. DIV.

If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included.

*Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee.
If Federal or Indian, add Lease Number.

El Paso Natural Gas Company
Form 7-238 (Rev. 1-69)

WELL CASING
CATHODIC PROTECTION CONSTRUCTION REPORT
DAILY LOG

Log

Drilling Log (Attach Hereto) ☐

Completion Date 8-18-75

Well Name	Location	CPS No.
Huerfanito # 60 Huerfanito # 29	SW 4 - 26N - 9W	1015W

Type & Size Bit Used	Work Order No.
6 3/4"	90990. 19-50-20 90216. 19-50-28

Anode Hole Depth	Total Drilling Rig Time	Total Lbs. Coke Used	Lost Circulation Mat'l Used	No. Sacks Mud Used
400		3,100		

	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10
Anode Depth	350	340	330	320	310	300	290	280	255	245
Anode Output (Amps)	3.2	3.6	4.2	4.0	4.2	4.2	4.0	3.8	3.6	3.4

	#11	#12	#13	#14	#15	#16	#17	#18	#19	#20
Anode Depth										
Anode Output (Amps)										

Total Circuit Resistance				No. 8 C.P. Cable Used	No. 2 C.P. Cable Used
Volts 11.6	Amps 11.6	Ohms 1.0		3110	

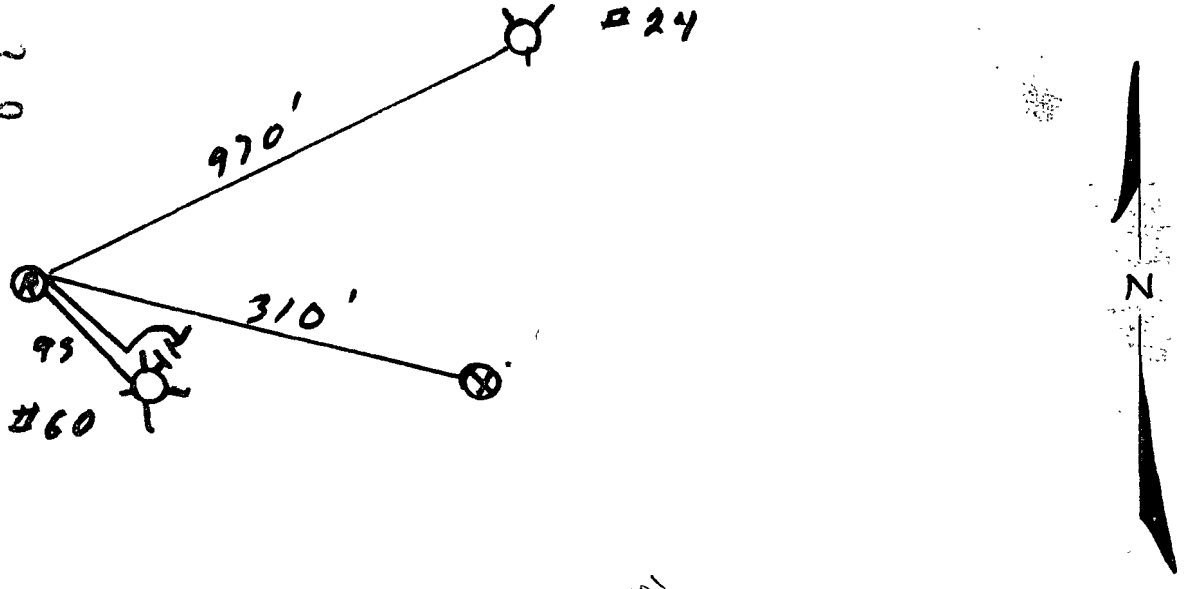
Remarks: Drill with Air Driller said water at 240' Vent Hose Perforated 200' Logging Anode stopped at 373'

Anodes - 1163.76
Mate - 417.56
Pump - 213.40
Wire 289.23
Coke 186.—
Anodes 244.60
J Box 86 —
Rect 333.50
Vent 23 —
Misc. 50 —
3027.05

All Construction Completed

Edward R. Pankey
(Signature)

GROUND BED LAYOUT SKETCH



1119

Le 401

MORGAN DRILLING COMPANY

P.O. Box 326 • Broken Bow, Oklahoma 74728

Ph. Office 405/584-6000
Mobile 584-6860
Night 420-3248

DATE 8-18-73

Work Order No. 92990 / 42316 - 19-41-20

Well point #60 & 24

CUSTOMER		SERVICE ADDRESS	CITY
El Paso Gas Co		Box 990 - ZCP 87401 Farmington New Mexico	Farmington N.M.
TEL. NO.	**REQ. NO.**	**SERVICEMAN** / **VEHICLE NO.**	**DATE COMPLETED**
Ext. 1615		Morgan Drilling / T4	

LITHOLOGIC LOG

Material	From	To	Water Strata	Time
Blue Shale	150	170	240	
Gray sand stone	170	190		
Blue Shale	190	240		
Gray sandstone	240	260		
Blue shale	260	400		

Date started ______________________, 19__
Date completed ______________________, 19__

INSTRUCTIONS:

SERVICE PERFORMED: ______

TOTAL DEPTH 373'

RIG TIME

WATER TRUCK

DRILLERS CERTIFICATION

This well was drilled under my supervision and the report is true to the bes of my knowledge.

Name Al Gibson

Address ______

Well driller's license number ______

Signed ______

Date ______

Customer's Signature

By Edward R. Paulk

Form 2-2 (Rev. 12-44)

EL PASO NATURAL GAS COMPANY
ENGINEERING DEPARTMENT

Date:

By:

10154

MW		gals/mol
16	C_1	6 4
30	C_2	10 12
44	C_3	10 42
58	IC_4	12 38
"	NC_4	11 93
72	IC_5	13 85
"	NC_5	13 71
86	IC_6	15 50
"	C_6	15 57
100	IC_7	17 2
"	C_7	17 46
114	C_8	19 19
28	$C_2^=$	9 64
42	$C_3^=$	9 67

MISC		
MW		gals/mol
44	CO_2	5 38
34	H_2S	5 17
28	N_2	4 16
2	H_2	3 38

240	2.0	
	2.0	
50	2.0	
	2.0	
60	1.6	
	1.4	
70	1.2	
	1.2	
80	1.6	
	2.0	
90	2.1	
	2.2	
300	2.2	
	2.4	
10	2.2	
	2.2	
20	2.2	
	1.0	
30	2.2	
	2.2	
40	1.8	
	1.8	
50	1.8	
	1.8	
60	1.8	
	1.8	
70	1.8	
	373' BOTTOM	
80		
90		
400		
10		

Driller said water
AT 240
Vent Hose Per 200'

4

①	350	2.0	3.2	
②	340	2.0	3.6	
③	330	2.0	4.2	
④	320	2.0	4.0	
⑤	310	2.0	4.2	
⑥	300	2.4	4.2	
⑦	290	2.2	4.0	
⑧	280	2.0	3.8	
⑨	255	2.0	3.6	
⑩	245	2.0	3.41	
	2810	11.6V	11.6A	1.0Ω
	300			
	3110			

1574

61 - 30-045-06045

22 - 30-045-06052

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICO
(Submit 3 copies to OCD Aztec Office)

Operator MERIDIAN OIL Location: Unit NE Sec. 4 Twp 26 Rng 9

Name of Well/Wells or Pipeline Serviced HUERFANITO UNIT #61, #22

cps 1014w

Elevation 6421' Completion Date 8/19/75 Total Depth 325' Land Type* N/A

Casing, Sizes, Types & Depths N/A

If Casing is cemented, show amounts & types used N/A

If Cement or Bentonite Plugs have been placed, show depths & amounts used

N/A

Depths & thickness of water zones with description of water when possible:

Fresh, Clear, Salty, Sulphur, Etc. 110'

Depths gas encountered: N/A

Type & amount of coke breeze used: 3100 lbs.

Depths anodes placed: 270', 260', 250', 240', 230', 220', 210', 200', 190', 180'

Depths vent pipes placed: N/A

Vent pipe perforations: 230'

Remarks: gb #1

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OIL CON. DIV.
DIST. 3

If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included.

*Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee.
If Federal or Indian, add Lease Number.

126-30-045-06022

233-30-045-21215

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICO
(Submit 3 copies to OCD Aztec Office)

Operator MERIDIAN OIL Location: Unit SE Sec. 5 Twp 26 Rng 9

Name of Well/Wells or Pipeline Serviced HUERFANO UNIT #126, #233

cps 906w

Elevation 6439' Completion Date 7/1/75 Total Depth 375' Land Type* N/A

Casing, Sizes, Types & Depths N/A

If Casing is cemented, show amounts & types used N/A

If Cement or Bentonite Plugs have been placed, show depths & amounts used

N/A

Depths & thickness of water zones with description of water when possible:

Fresh, Clear, Salty, Sulphur, Etc. 170'

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MAY 31 1991
OIL CON. DIV
DIST. 3

Depths gas encountered: N/A

Type & amount of coke breeze used: 3600 lbs.

Depths anodes placed: 325', 315', 290', 280', 270', 260', 230', 220', 195', 185'

Depths vent pipes placed: N/A

Vent pipe perforations: 210'

Remarks: cgb #1

If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included.

*Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee.
If Federal or Indian, add Lease Number.

El Paso Natural Gas Company
Form 7-238 (Rev. 1-69)

WELL CASING
CATHODIC PROTECTION CONSTRUCTION REPORT
DAILY LOG

Logged

Drilling Log (Attach Hereto). ☐

Completion Date 7-1-75

Well Name	Location	CPS No.
Huerfano 126 Huerfano 233	SE 5 - 26N - 9W	906W

Type & Size Bit Used: 6 3/4"

Work Order No.: 184-5431.19-50-20
184-5511.19-50-20

Anode Hole Depth	Total Drilling Rig Time	Total Lbs. Coke Used	Lost Circulation Mat'l Used	No. Sacks Mud Used
375'		3600		

	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10
Anode Depth	325	315	290	280	270	260	230	220	195	185
Anode Output (Amps)	3.0	3.5	3.8	3.6	3.8	4.0	3.8	4.0	3.2	3.4

	#11	#12	#13	#14	#15	#16	#17	#18	#19	#20
Anode Depth										
Anode Output (Amps)										

Total Circuit Resistance			No. 8 C.P. Cable Used	No. 2 C.P. Cable Used
Volts 11.8	Amps 15.0	Ohms 0.78	2860	

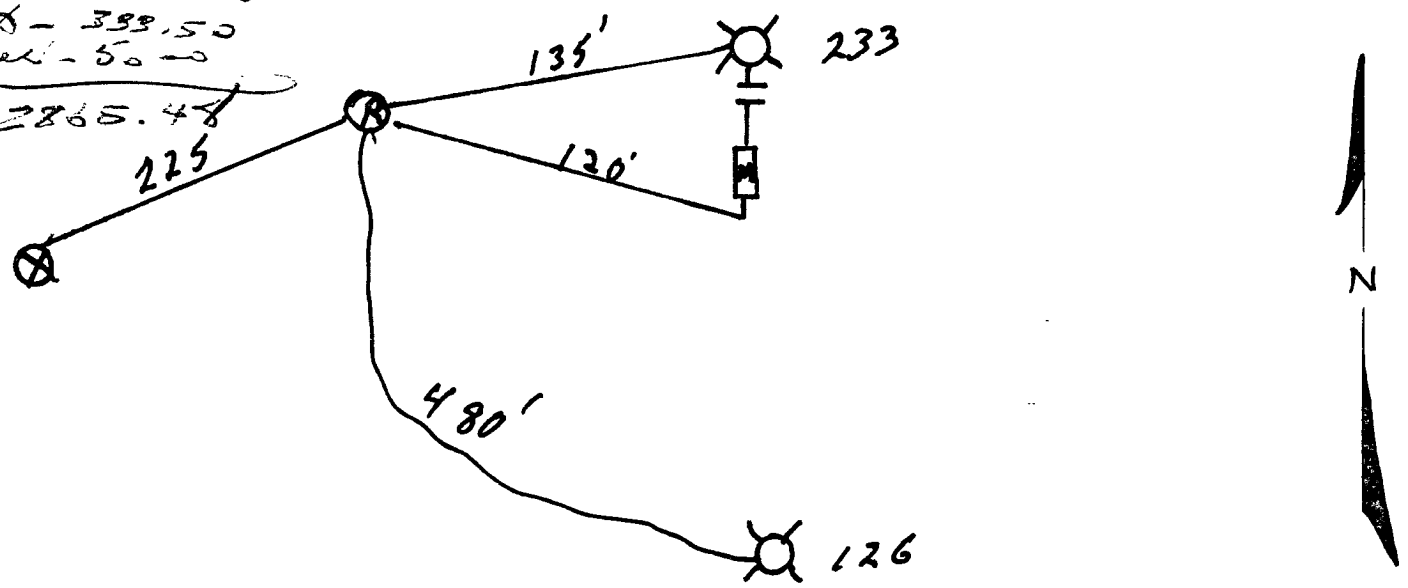
Remarks: Drill With Air Driller Said Water At 170' Vent Hose Perforated 210' Logging And Stopped At 350'

Driller - 1092.00
Meter - 453.70
Pump - 106.70
Hose - 265.78
Coke - 216.00
Anodes - 264.00
T Bar - 83.00
Rent - 399.50
misc - 50.00
2865.48

All Construction Completed

Edward R. Pauley
(Signature)

GROUND BED LAYOUT SKETCH



White - Water Resources Board
Canary - Drillers Copy
Pink - Drillers Copy

STATE OF OKLAHOMA
WATER RESOURCES BOARD
5th Floor, Jim Thorpe Building
Oklahoma City, Oklahoma 73105

Application No. _____
Aquifer _____
Stream System Code _____
Use Code _____
County _____
(Office Use Only)

906 W

WELL DRILLERS REPORT

1. OWNER _____ ADDRESS _____

2. LOCATION _____ 1/4 _____ 1/4 _____ 1/4 Sec. _____ Twp. _____ N/S Rge. _____ E/W _____ County
PERMIT NO. _____

3. TYPE OF WORK	4. PROPOSED USE	5. TYPE WELL
☐ New Well ☐ Recondition	☐ Domestic ☐ Irrigation ☐ Test	☐ Cable ☐ Rotary
☐ Deepen ☒ Other	☐ Municipal ☐ Industrial ☐ Stock	☐ Other ☐ Rev. Rot.

6. LITHOLOGIC LOG

Material	Water Strata	From	To	Thickness
blue shale		150	160	
gray sandstone		160	184	
blue shale		184	300	
gray sandy shale		300	375	
water at 170'				

Date started _____, 19__
Date completed _____, 19__

7. WELL TEST DATA

Pump R.P.M.	G.P.M.	Draw Down	After Hours Pump

8. WELL CONSTRUCTION

Diameter hole _____ inches Total depth _____ feet
Casing record _____
Weight per foot _____ Thickness _____

Diameter	From	To
_____ inches	_____ feet	_____ feet
_____ inches	_____ feet	_____ feet
_____ inches	_____ feet	_____ feet

Surface seal: ☐ Yes ☐ No Type _____
Depth of seal _____ feet
Gravel packed: ☐ Yes ☐ No
Gravel packed from _____ feet to _____ feet
Perforations:
Type perforation _____
Size perforation _____
From _____ feet to _____ feet
From _____ feet to _____ feet
From _____ feet to _____ feet

9. WATER LEVEL

Static water level _____ Feet below land surface _____
Flow _____ G.P.M. _____
Water temperature _____ F. Quality _____

10. DRILLERS CERTIFICATION

This well was drilled under my supervision and the report is true to the best of my knowledge.

Name _____
Address _____
Well driller's license number _____
Signed Billy R Morgan
Date _____

Form 407 - 1074

USE ADDITIONAL SHEETS IF NECESSARY

EL PASO NATURAL GAS COMPANY
ENGINEERING DEPARTMENT

Sheet
Date:
By:

906W

MW		gals/mol
16	C_1	6 4
30	C_2	10 12
44	C_3	10 4[illegible]
58	IC_4	12 38
"	NC_4	11 93
72	IC_5	13 85
"	NC_5	13 71
86	IC_6	15 50
"	C_6	15 57
100	IC_7	17 [illegible]
"	C_7	17 46
114	C_8	19 [illegible]
28	$C_2^=$	9 64
42	$C_3^=$	9 67

MISC

MW		gals/mol
44	CO_2	6 38
34	H_2S	5 17
28	N_2	4 16
2	H_2	3 38

	170	1.4	50 — Bottom. Driller said water @ 170'. Next Hose Depth 210'
		1.8	
10	80	1.8	
		1.8	
	90	1.9	
(9)		1.8	
	200	1.6	
		1.7	
	10	1.7	
		1.7	
(8)	20	1.8	
		1.9	
(7)	30	1.9	
		1.6	
	40	1.6	
		1.6	
	50	1.6	
		1.8	
(6)	60	1.8	
		1.7	
(5)	70	1.8	
		1.7	
(4)	80	1.8	
		1.7	
(3)	90	1.8	
		1.7	
	300	1.5	
		1.2	
	10	1.4	
(2)		1.8	
	20	1.8	
(1)		1.8	
	30	1.6	
		1.4	
	40	1.6	
		1.7	

(1)	325	1.8	3.0
(2)	315	1.8	3.5
(3)	290	2.2	3.8
(4)	280	2.0	3.6
(5)	270	2.2	3.8
(6)	260	2.2	4.0
(7)	230	2.4	3.8
(8)	220	2.2	4.0
(9)	195	2.0	3.2
(10)	185	2.2	3.4

2560
300
2860

11.8 15.0 0.78

140 - 30-045-06080
248- 30-045-21407

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICO
(Submit 3 copies to OCD Aztec Office)

Operator MERIDIAN OIL Location: Unit NW Sec. 5 Twp 26 Rng 9

Name of Well/Wells or Pipeline Serviced HUERFANO UNIT #140, NP #248

cps 905w

Elevation 6519' Completion Date 7/2/75 Total Depth 400' Land Type* N/A

Casing, Sizes, Types & Depths N/A

If Casing is cemented, show amounts & types used N/A

If Cement or Bentonite Plugs have been placed, show depths & amounts used

N/A

Depths & thickness of water zones with description of water when possible:

Fresh, Clear, Salty, Sulphur, Etc. 115'

Depths gas encountered: N/A

Type & amount of coke breeze used: 3400 lbs.

Depths anodes placed: 320', 300', 275', 265', 215', 205', 195', 185', 175', 165'

Depths vent pipes placed: N/A

Vent pipe perforations: 200'

Remarks: cgb #1

RECEIVED
MAY 31 1991
OIL CON. DIV.

If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included.

*Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee.
If Federal or Indian, add Lease Number.

Form 7-238 (Rev. 1-69)

WELL CASING
CATHODIC PROTECTION CONSTRUCTION REPORT
DAILY LOG

Logged

Drilling Log (Attach Hereto). [–]

Completion Date 7/2/75

Well Name Huerfano 140 Huerfano 248			Location NW5-26N-9W				CPS No. 905W		
Type & Size Bit Used 6 3/4"							Work Order No. 184-54357.19-50-26 184 55397.15-50-26		
Anode Hole Depth 400'		Total Drilling Rig Time		Total Lbs. Coke Used 3400		Lost Circulation Mat'l Used	No. Sacks Mud Used		
Anode Depth									
# 1 320	# 2 300	# 3 275	# 4 265	# 5 215	# 6 205	# 7 195	# 8 185	# 9 175	# 10 136
Anode Output (Amps)									
# 1 3.0	# 2 2.8	# 3 2.8	# 4 3.0	# 5 3.0	# 6 3.0	# 7 3.2	# 8 3.4	# 9 3.4	# 10 2.6
Anode Depth									
# 11	# 12	# 13	# 14	# 15	# 16	# 17	# 18	# 19	# 20
Anode Output (Amps)									
# 11	# 12	# 13	# 14	# 15	# 16	# 17	# 18	# 19	# 20
Total Circuit Resistance Volts 11.8		Amps 11.0		Ohms 1.07		No. 8 C.P. Cable Used 2585		No. 2 C.P. Cable Used	

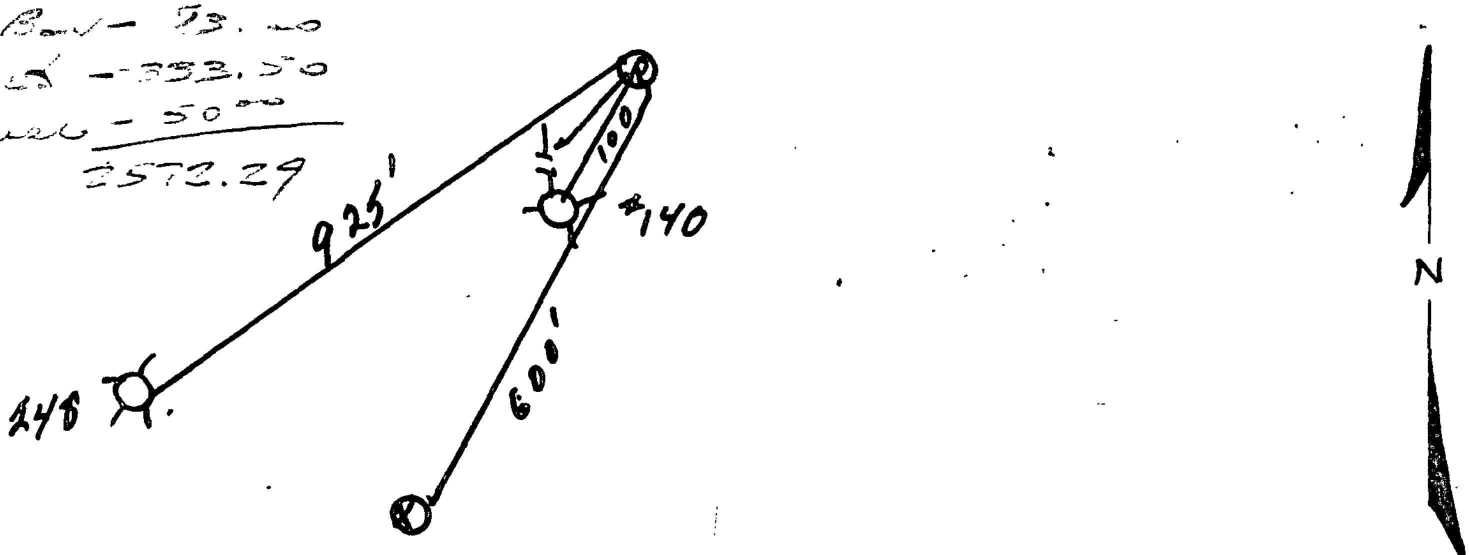
Remarks: Drill with Air Driller said water @ 115' Vent Hose Perforated 200' Logging Anode Stopped @ 370

Driller 1076.40
Mate - 356.36
Insp - 64.00
Wire - 240.41
anodes - 754.50
Coke - 204.00
J Box - 73.00
Labor - 553.50
Misc - 50.00
2573.29

All Construction Completed

Edward R. Parker
(Signature)

GROUND BED LAYOUT SKETCH



White - Water Resources Board
Canary - Drillers Copy
Pink - Drillers Copy

STATE OF OKLAHOMA
WATER RESOURCES BOARD
5th Floor, Jim Thorpe Building
Oklahoma City, Oklahoma 73105

Application No. _____
Aquifer _____
Stream System Code _____
Use Code _____
County _____
(Office Use Only)

905 W

WELL DRILLERS REPORT

1. OWNER _____ ADDRESS _____

2. LOCATION ____ 1/4 ____ 1/4 ____ 1/4 Sec. ____ Twp. ____ N/S Rge. ____ E/W _____ County
PERMIT NO. _____

3. TYPE OF WORK	4. PROPOSED USE	5. TYPE WELL
☐ New Well ☐ Recondition	☐ Domestic ☐ Irrigation ☐ Test	☐ Cable ☐ Rotary
☐ Deepen ☐ Other	☐ Municipal ☐ Industrial ☐ Stock	☐ Other ☐ Rev. Rot.

6. LITHOLOGIC LOG

Material	Water Strata	From	To	Thickness
blue shale		150	160	
gray sandy shale		160	184	
blue shale		184	300	
gray sandy shale		300	375	
Water 185				

Date started _____ , 19 ___
Date completed _____ , 19 ___

7. WELL TEST DATA

Pump R.P.M.	G.P.M.	Draw Down	After Hours Pump

8. WELL CONSTRUCTION

Diameter hole _____ inches Total depth _____ feet
Casing record _____
Weight per foot _____ Thickness _____

Diameter	From	To
_____ inches	_____ feet	_____ feet
_____ inches	_____ feet	_____ feet
_____ inches	_____ feet	_____ feet

Surface seal: ☐ Yes ☐ No Type _____
Depth of seal _____ feet
Gravel packed: ☐ Yes ☐ No
Gravel packed from _____ feet to _____ feet
Perforations:
Type perforation _____
Size perforation _____
From _____ feet to _____ feet
From _____ feet to _____ feet
From _____ feet to _____ feet

9. WATER LEVEL

Static water level _____ Feet below land surface
Flow _____ G.P.M.
Water temperature _____ F. Quality _____

10. DRILLERS CERTIFICATION

This well was drilled under my supervision and the report is true to the best of my knowledge.

Name _____
Address _____
Well driller's license number _____
Signed Bobby R Morgan
Date _____

USE ADDITIONAL SHEETS IF NECESSARY

EL PASO NATURAL GAS COMPANY
ENGINEERING DEPARTMENT

Date:
By:

MW		gals/mol
16	C_1	6 4
30	C_2	10 2
44	C_3	10 42
58	IC_4	12 38
"	NC_4	11 93
72	IC_5	13 85
"	NC_5	13 71
86	IC_6	15 50
"	C_6	15 57
100	IC_7	17 2
"	C_7	17 46
114	C_8	[illegible]
28	$C_2^=$	9 64
42	$C_3^=$	9 67

MISC.

MW		gals/mol
44	CO_2	6 38
34	H_2S	5 17
28	N_2	4 16
2	H_2	3 38

905W

	120	1.8	(2) 300	1.6	Driller said wet @ 115
		1.6		1.2	
(10)	30	1.6	10	.8	vent perforated 200'
		1.6		1.2	
	40	1.4	(1) 20	1.8 ✓	
		1.0		1.6 ✓	
	50	1.2	30	1.4	
		1.2		1.2	
	60	1.2	40	1.2	
		1.0		1.0	
	70	1.0	50	1.4	
(9)		1.6		1.8	
	80	2.0	60	1.8	
(8)		1.8		1.8	
	90	1.9	70	2.0 BOTTOM	
(7)		1.9		1	
	200	1.8	80		
(6)		1.8			
	10	1.8			
(5)		1.8			
	20	1.2			
		1.0			
	30	1.0			
		.6			
	40	1.0			
		1.4			
	50	1.0			
		1.0			
	60	1.0			
(4)		1.6			
	70	1.6			
(3)		1.6			
	80	1.0			
		.9			
	90	1.2			
		1.6			

	43			
1	320	[illegible]	3.0	
(2)	300	1.8	2.8	
3	275	1.8	2.8	
4	265	2.0	3.0	
5	215	2.0	3.0	
6	205	2.0	3.0	
7	195	2.0	3.2	
8	185	2.0	3.4	
9	175	2.0	3.4	
10	130	1.8	2.6	
	2285	11.8V	11.0	1.07Ω
	300			
	2578	11.8	11.0	

30-045-26651

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICO
(Submit 3 copies to OCD Aztec Office)

Operator MERIDIAN OIL INC. Location: Unit K Sec. 5 Twp 26 Rng 9

Name of Well/Wells or Pipeline Serviced HUERFANO UNIT #140E

cps 1977w

Elevation 6527' Completion Date 7/7/88 Total Depth 325' Land Type* N/A

Casing, Sizes, Types & Depths NONE SET

If Casing is cemented, show amounts & types used N/A

If Cement or Bentonite Plugs have been placed, show depths & amounts used

N/A

Depths & thickness of water zones with description of water when possible:

Fresh, Clear, Salty, Sulphur, Etc. 155' NO SAMPLE

Depths gas encountered: N/A

Type & amount of coke breeze used: N/A

Depths anodes placed: 300', 290', 280', 270', 260'

Depths vent pipes placed: 325'

Vent pipe perforations: 240'

Remarks: gb #1

RECEIVED
MAY 31 1991
OIL CON. DIV.
DIST. 3

If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included.

*Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee.
If Federal or Indian, add Lease Number.

FM-07-0238 (Rev. 10-82)

WELL CASING

CATHODIC PROTECTION CONSTRUCTION REPORT

DAILY LOG

comp 7-11-88

0.087

Drilling Log (Attach Hereto) ☒ Completion Date 7-7-88

CPS #	Well Name, Line or Plant:	Work Order #	Static:	Ins. Union Check
19774	Fuller Fee unit 140E	54520A 2054520A	600E -.903	☒ Good ☐ Bad

Location	Anode Size:	Anode Type:	Size Bit:
K05-26-09	1½" × 20"	Lida	6"

Depth Drilled	Depth Logged	Drilling Rig Time	Total Lbs. Coke Used	Lost Circulation Mat'l Used	No. Sacks Mud Used
325	320				

Anode Depth									
# 1 260 to 300	# 3	# 4	# 5	# 6	# 7	# 8	# 9	# 10	
Anode Output (Amps)									
# 1 11.9	# 2	# 3	# 4	# 5	# 6	# 7	# 8	# 9	# 10
Anode Depth									
# 11	# 12	# 13	# 14	# 15	# 16	# 17	# 18	# 19	# 20
Anode Output (Amps)									
# 11	# 12	# 13	# 14	# 15	# 16	# 17	# 18	# 19	# 20

Total Circuit Resistance			No. 8 C.P. Cable Used	No. 2 C.P. Cable Used
Volts 12.2	Amps 11.9	Ohms 1.02		

Remarks: Driller said water to be at 155', no water sample. No surface casing installed. Installed 325' of 1" PVC vent pipe, bottom 240' perforated. 1 five anode string, anodes 10' center to center. Carbo 60 coke to 340' with anodes, Metal magical coke from 65' to surface.

Hole was logged with 2" × 2½' duriron anode.

G. L. 4013.00 (excluding junction box)
669.00

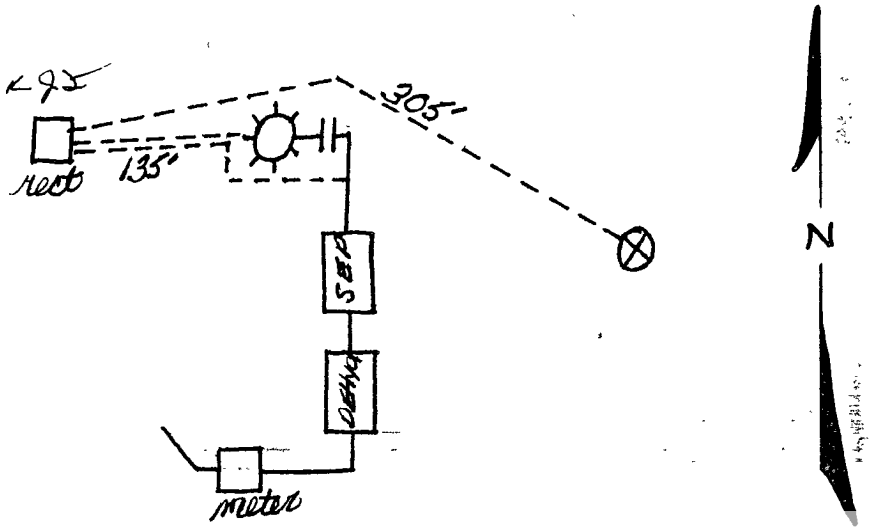
Rectifier Size: 40 V 16 A
Addn'l Depth
Depth Credit: 180' @ 3.50 — 630.00
Extra Cable: 165' @ .24 — 39.60
Ditch & 1 Cable: 305' @ .70 — 213.50
25' Meter Pole:
20' Meter Pole:
10' Stub Pole: 1 @ 156.50 — 156.50

4523.60
tax 226.18
4749.78

All Construction Completed

Calvin Rochman
(Signature)

GROUND BED LAYOUT SKETCH



WELL TYPE GROUNDBED DATA

DA: SHEET NO.:

COMPANY: MERIDIAN OIL JOB No.: 13128 DATE: 7-7-88

WELL: HUERFANO # 140 E PIPELINE:

LOCATION: SEC 5 TWP 26 RGE. 9 CO. SAN JUAN STATE N MEX

ELEV. ____ FT: ROTARY 320 FT: CABLE TOOL -0- FT: CASING -0- FT.

GROUNDBED: DEPTH 325 FT. DIA. 6 IN. GAS 3250 LBS. ANODES 5 LIMA String

DEPTH FT.	DRILLER'S LOG	EXPLORING ANODE TO STRUCTURE E	I	R	NO COKE I	WITH COKE I	ANODE NO.	DEPTH TOP OF ANODES
	FIRST WATER 155							
50								
55								
60								
65								
70								
75								
80								
85								
90								
95								
100								
5								
10								
15								
20								
25								
30								
35								
40								
45								
50								
55			1.2					
60			1.9					
65			1.4					
70			1.0					
75			0.9					
80			0.7					
85			1.9					
90			1.7					
95			1.3					
200			1.2					
5			0.9					
10			0.8					
15			1.0					
20			1.0					
25			1.2					
30			1.2					
35			1.0					
40			0.5					
45			0.6					
50			0.5					
55			0.7					

GROUNDBED RESISTANCE: (1) VOLTS 12.2 - AMPS 11.9 - ____ OHMS

(2) VERO GROUND ____ OHMS

GENERAL CATHODIC PROTECTION SERVICES CO.

A LUKENS COMPANY

WELL TYPE GROUNDBED DATA

DA. SHEET NO. _____

COMPANY _____ JOB No. _____ DATE: _____

WELL: _____ PIPELINE: _____

LOCATION: SEC. _____ TWP. _____ RGE. _____ CO. _____ STATE _____

ELEV. _____ FT: ROTARY _____ FT: CABLE TOOL _____ FT: CASING _____ FT.

GROUNDBED: DEPTH _____ FT. DIA. _____ IN. GAS _____ LBS. ANODES _____

DEPTH FT.	DRILLER'S LOG	EXPLORING ANODE TO STRUCTURE E	I	R	NO COKE I	WITH COKE I	ANODE NO.	DEPTH TOP OF ANODES
60			0.8					
65			1.3					
70			1.1					
75			1.6					
80			1.6			11.9	Lida Stat.	
85			1.6	4.2				
90			1.8					
95			1.6					
300			0.9					
5			0.4					
10			0.4					
15			0.8					
20	T. D. 325		0.6					
25								
30								
35								
40								
45								
50								
55								
60								
65								
70								
75								
80								
85								
90								
95								
400								
5								
10								
15								
20								
25								
30								
35								
40								
45								
50								

GROUNDBED RESISTANCE: (1) VOLTS _____ ÷ AMPS _____ = _____ OHMS

(2) VIBROGROUND _____ OHMS

GENERAL CATHODIC PROTECTION SERVICES CO.

A LUKENS COMPANY

O. CRASS DRILLING CO.

1977

Drill No. 3

DRILLER'S WELL LOG

S. P. No. Huerfano #140E-DK Date 6-7-88

Client Meridian Oil Co. Prospect

County San Juan State New Mex.

If hole is a redrill or if moved from original staked position show distance and direction moved:

FROM	TO	FORMATION — COLOR — HARDNESS
0	10	Sandy Shale
10	30	Sandstone
30	40	Shale
40	80	Sandy shale
80	100	Sand
100	125	Shale
125	155	Sand
155	195	Shale
195	270	Sandy shale
270	290	Shale
290	320	Sand

Mud Bran Lime

Rock Bit Number Make

Remarks: Water @ 155'

Driller Connie Brown

156 - 30-045-20003

231 - 30-045-21117

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICO
(Submit 3 copies to OCD Aztec Office)

Operator MERIDIAN OIL Location: Unit NW Sec. 6 Twp 29 Rng 6

Name of Well/Wells or Pipeline Serviced HUERFANO UNIT #156, #231

cps 907w

Elevation 6506' Completion Date 8/15/83 Total Depth 520' Land Type* N/A

Casing, Sizes, Types & Depths 35' OF 8' PVC CASING

If Casing is cemented, show amounts & types used N/A

If Cement or Bentonite Plugs have been placed, show depths & amounts used

N/A

Depths & thickness of water zones with description of water when possible:

Fresh, Clear, Salty, Sulphur, Etc. 178' & 420' SAMPLE TAKEN

Depths gas encountered: N/A

Type & amount of coke breeze used: 5200 lbs.

Depths anodes placed: 480', 470', 425', 415', 405', 395', 355', 335'

Depths vent pipes placed: 515' OF 1" VENT PIPE

Vent pipe perforations: 400'

Remarks: gb #2

If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included.

*Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee.
If Federal or Indian, add Lease Number.

FM-07-0238 (Rev. 10-82)

WELL CASING

CATHODIC PROTECTION CONSTRUCTION REPORT

DAILY LOG

Drilling Log (Attach Hereto) ☐ Completion Date 8-15-83

CPS #	Well Name, Line or Plant:	Work Order #	Static:	Ins. Union Check
907-W	HUERFANO # 156	184-54468-19		☑ Good ☐ Bad
	HUERFANO # 231	184-55351-19		

Location	Anode Size:	Anode Type	Size Bit
NW6-29-6	2"	DURIRON	6 3/4

Depth Drilled	Depth Logged	Drilling Rig Time	Total Lbs. Coke Used	Lost Circulation Mat'l Used	No. Sacks Mud Used
520'	515'		5200		

	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10
Anode Depth	480	470	425	415	405	395	385	375	355	335
Anode Output (Amps)	3.9	3.3	4.3	4.0	4.8	4.9	5.1	4.6	3.9	4.2
Anode Depth	#11	#12	#13	#14	#15	#16	#17	#18	#19	#20
Anode Output (Amps)	#11	#12	#13	#14	#15	#16	#17	#18	#19	#20

Total Circuit Resistance			No. 8 C.P. Cable Used	No. 2 C.P. Cable Used
Volts 12.1	Amps. 17.4	Ohms .70		

Remarks: DRILLER SAID HIT WATER 178'. GOT WATER SAMPLE. SAID HIT MOR WATER AT 420'. INSTALLED 515' OF 1" VENT PIPE, PERFORATED 400' OF VENT PIPE. SLURRIED 5200 LBS OF COKE BREEZE. SET 35' OF 8" PVC-CASING. (NO CHARGE)

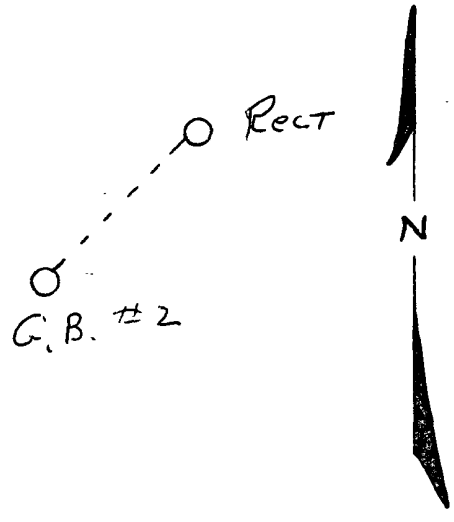
Rectifier Size: _____ V _____ A
Addn'l Depth 15'
Depth Credit: _____
Extra Cable: 5'
Ditch & 1 Cable: 36'
25' Meter Pole: _____
20' Meter Pole: _____
10' Stub Pole: _____

All Construction Completed

Willis Knight Jr
(Signature)

GROUND BED LAYOUT SKETCH

Rog	0.7
7/15=2	2



EL PASO NATURAL GAS COMPANY

DRILLING DEPARTMENT

DAILY DRILLING REPORT

LEASE CPS 907-W WELL NO. Huerfano 156-231 CONTRACTOR Loffis RIG NO. IR1 REPORT NO. DATE 8-16 19 83

MORNING

Driller Total Men In Crew

FROM	TO	FORMATION	WT-BIT	R.P.M.
0	23	SAND		
23	300	SAND		
300	445	SHALE		
445	465	SAND		

BIT NO. NO. DC SIZE LENG.

BIT NO. NO. DC SIZE LENG.

SERIAL NO. STANDS

SIZE SINGLES

TYPE DOWN ON KELLY

MAKE TOTAL DEPTH

MUD RECORD			MUD, ADDITIVES USED AND RECEIVED
Time	Wt.	Vis.	

FROM	TO	TIME BREAKDOWN

REMARKS –

DAYLIGHT

Driller Total Men In Crew

FROM	TO	FORMATION	WT-BIT	R.P.M.
465	515	Shale		

BIT NO. NO. DC SIZE LENG.

BIT NO. NO. DC SIZE LENG.

SERIAL NO. STANDS

SIZE SINGLES

TYPE DOWN ON KELLY

MAKE TOTAL DEPTH

MUD RECORD			MUD, ADDITIVES USED AND RECEIVED
Time	Wt.	Vis.	

FROM	TO	TIME BREAKDOWN

REMARKS –

EVENING

Driller Total Men In Crew

FROM	TO	FORMATION	WT-BIT	R.P.M.

BIT NO. NO. DC SIZE LENG.

BIT NO. NO. DC SIZE LENG.

SERIAL NO. STANDS

SIZE SINGLES

TYPE DOWN ON KELLY

MAKE TOTAL DEPTH

MUD RECORD			MUD, ADDITIVES USED AND RECEIVED
Time	Wt.	Vis.	

FROM	TO	TIME BREAKDOWN

REMARKS –

SIGNED: Toolpusher _____ Company Supervisor Roger Smith

El Paso Natural Gas Company
ENGINEERING CALCULATION SHEET
Form 7-371 (11-77)

Page ______
Date 8-15-83
By WK

CPS 907-W
Huerfano #156
Huerfano #231
NW 6-29-6

W/O
184-54468-19-50-20-63
184-55351-19-50-20-63

Driller said hit water 178'. Got water sample. Said hit more water at 420'. Installed 515' of 1" vent pipe. Perforated 400' of vent pipe. Slurried 5200 lbs. of coke breeze. Set 35' of 8" PVC casing.

Depth	Reading	Depth	Reading	Mark
180	.80	55	1.1	⑨
85	.80	60	1.0	
90	.90	65	.80	
95	.90	70	.80	
200	.90	75	1.0	⑧
05	.90	80	1.1	
10	.90	85	1.1	⑦
15	.90	90	1.1	
20	.80	95	1.1	⑥
25	.60	400	1.1	
30	.50	05	1.1	⑤
35	.60	10	1.1	
40	.80	15	1.1	④
45	.90	20	1.1	
50	.90	25	1.1	③
55	.90	30	1.0	
60	.90	35	.90	
65	.80	40	.90	
70	.90	45	.90	
75	.90	50	.70	
80	.90	55	.60	
85	.90	60	.60	
90	.80	65	.80	
95	.80	70	1.1	②
300	.80	75	1.1	
05	1.0	80	1.0	①
10	1.1	85	.90	
15	1.1	90	.80	
20	1.1	95	.80	
25	1.1	500	1.0	
30	1.2	05	1.0	
35	1.1 ⑩	10		
40	1.1	15		TD
45	.90	20		
50	1.1			

Anode	Depth		
①	450	1.30	3.9
②	470	1.10	3.3
③	425	1.40	4.3
④	415	1.30	4.0
⑤	405	1.40	4.8
⑥	395	1.50	4.9
⑦	385	1.50	5.1
⑧	375	1.20	4.6
⑨	355	1.30	3.9
⑩	335	1.60	4.20

12.1 V	17.4 A	.70 Ω

EL PASO NATURAL GAS COMPANY
SAN JUAN DIVISION
FARMINGTON, NEW MEXICO
PRODUCTION DEPARTMENT WATER ANALYSIS

Analysis No. 1-10924 **Date** November 15, 1983

Operator El Paso Natural Gas **Well Name** Huerfano Unit #156 CPS 907W

Location NW 6-29-6 **County** San Juan **State** New Mexico

Field Ballard **Formation**

Sampled From 178 feet CPS 907W

Date Sampled August 15, 1983 **By** Willis Knight

Tbg. Press. **Csg.** **Surface Csg. Press.**

	ppm	epm		ppm	epm
Sodium	148	6.4	Chloride	45	1.3
Calcium	0	0	Bicarbonate	207	3.4
Magnesium	0	0	Sulfate	27	0.6
Iron			Carbonate	36	1.2
H_2S			Hydroxide	0	0

Total Solids Dissolved 408

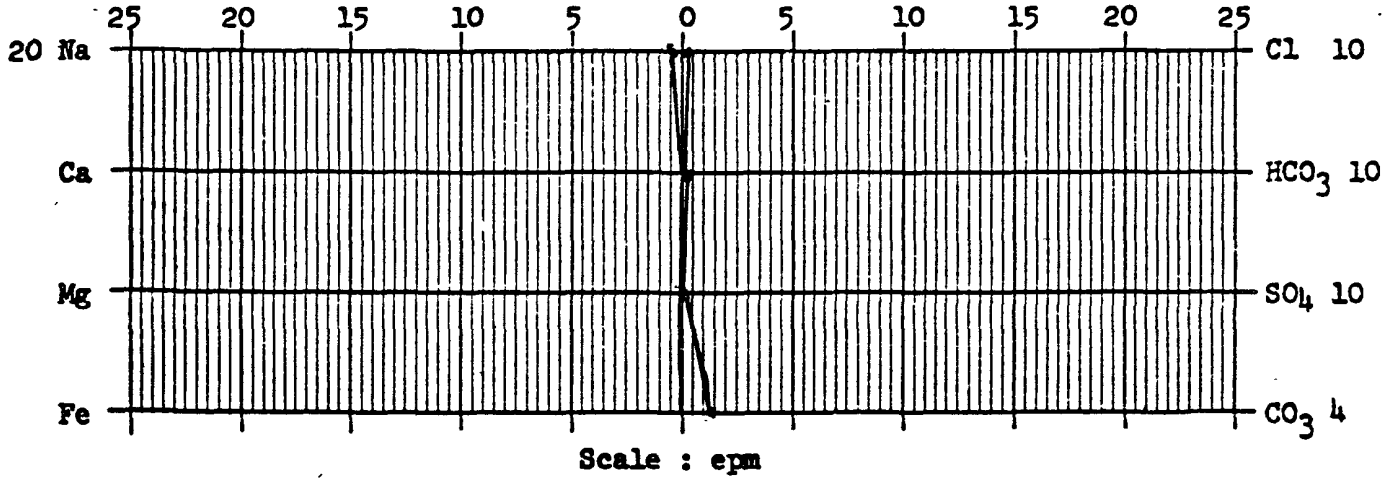
pH 9.2

Sp. Gr. 0.9955 **At** 60°F

Resistivity 1,379 **ohm-cm at** 75°F

Joe Barnett
Chemist GCK

cc: R. A. Ullrich
E. R. Paulek
J. W. McCarthy
J. D. Evans
W. B. Shropshire
D. C. Adams
File



200 - 30-045-20620
247 - 30-045-21284

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICO

Operator MERIDIAN OIL CO. **Location: Unit** O **Sec.** 6 **Twp** 26 **Rng** 9

Name of Well/Wells or Pipeline Serviced Huerfano # 200 & 247

cps 908w

Elevation 6628' **Completion Date** 8/9/90 **Total Depth** 380 **Land Type** N/A

Casing Strings, Sizes, Types & Depths 8" PVC Casing - 18 ft.

If Casing Strings are cemented, show amounts & types used

8" PVC Casing cemented 18 ft. used

If Cement or Bentonite Plugs have been placed, show depths & amounts used

N/A

Depths & thickness of water zones with description of water: Fresh, Clear Salty, Sulphur, Etc. WET AT 195'

RECEIVED
MAY 31 1991
OIL CON. DIV.
DIST.

Depths gas encountered: N/A

Ground bed depth with type & amount of coke breeze used:

370 ft., 3300 lbs used - Ashbury Petroleum Coke

Depths anodes placed: 360, 350, 340, 330, 320, 310, 285, 275, 265, 255

Depths vent pipes placed: 380 ft.

Vent pipe perforations: 200 ft. of 1" vent pipe perforated

Remarks: gb #2

If any of the above data is unavailable, please indicate so. Copies of al logs, including Drillers Log, Water Analyses & Well Bore Schematics shoul be submitted when available. Unplugged abandoned wells are to be include

Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee.
If Federal or Indian, add Lease Number.

200- 30-045-20620

247- 30-045-21284

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICO
(Submit 3 copies to OCD Aztec Office)

Operator MERIDIAN OIL Location: Unit SE Sec. 6 Twp 26 Rng 9

Name of Well/Wells or Pipeline Serviced HUERFANO UNIT #200, #247

cps 908w

Elevation 6628' Completion Date 6/30/75 Total Depth 425' Land Type* N/A

Casing, Sizes, Types & Depths N/A

If Casing is cemented, show amounts & types used N/A

If Cement or Bentonite Plugs have been placed, show depths & amounts used

N/A

Depths & thickness of water zones with description of water when possible:

Fresh, Clear, Salty, Sulphur, Etc. 210'

RECEIVED
MAY 31 1991
OIL CON. L
DIST. 3

Depths gas encountered: N/A

Type & amount of coke breeze used: 3400 lbs.

Depths anodes placed: 365', 355', 345', 335', 325', 315', 305', 285', 275', 265'

Depths vent pipes placed: N/A

Vent pipe perforations: 250'

Remarks: gb #1

If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included.

*Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee.
If Federal or Indian, add Lease Number.

2515

30-045-26391

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICO
(Submit 3 copies to OCD Aztec Office)

Operator MERIDIAN OIL INC. Location: Unit M Sec. 6 Twp 26 Rng 9

Name of Well/Wells or Pipeline Serviced HUERFANO UNIT #156E

cps 1839w

Elevation 6615' Completion Date 9/25/87 Total Depth 440' Land Type* N/A

Casing, Sizes, Types & Depths 60' OF PVC CASING

If Casing is cemented, show amounts & types used N/A

If Cement or Bentonite Plugs have been placed, show depths & amounts used

N/A

Depths & thickness of water zones with description of water when possible:

Fresh, Clear, Salty, Sulphur, Etc. 200' NO SAMPLE

Depths gas encountered: N/A

Type & amount of coke breeze used: N/A

Depths anodes placed: 400',390', 380', 370', 350', 340', 330', 320', 310', 300'

Depths vent pipes placed: N/A

Vent pipe perforations: 280'

Remarks: gb #1

RECEIVED
MAY 31 1991.
OIL CON. DIV
DIST. 3

If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included.

*Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee.
If Federal or Indian, add Lease Number.

3209

E

30-045-26667

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICO
(Submit 3 copies to OCD Aztec Office)

Operator MERIDIAN OIL INC. Location: Unit H Sec. 06 Twp 26 Rng 09

Name of Well/Wells or Pipeline Serviced HUERFANO UNIT #200E

cps 1978w

Elevation 6558' Completion Date 7/8/88 Total Depth 400' Land Type* N/A

Casing, Sizes, Types & Depths NONE SET

If Casing is cemented, show amounts & types used N/A

If Cement or Bentonite Plugs have been placed, show depths & amounts used

N/A

Depths & thickness of water zones with description of water when possible:

Fresh, Clear, Salty, Sulphur, Etc. 220' NO SAMPLE

Depths gas encountered: N/A

Type & amount of coke breeze used: CARBO 60 TO 285', METALURGICAL FROM 280' -SURFA

Depths anodes placed: 355', 345', 335', 325', 315'

Depths vent pipes placed: 410'

Vent pipe perforations: 200'

Remarks: gb #1

RECEIVED
MAY 21 1991
OIL CON. DIV.
DIST. 3

If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included.

*Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee.
If Federal or Indian, add Lease Number.

FM-07-0238 (Rev. 10-82)

WELL CASING
CATHODIC PROTECTION CONSTRUCTION REPORT
DAILY LOG

7-11-88 comp 85

Drilling Log (Attach Hereto) ☒

Completion Date 7-8-88

CPS #	Well Name, Line or Plant:	Work Order #	Static: volts	Ins. Union Check
1978W	Huerfano unit 200E	54539A 2054539A	600E = .842	☒ Good ☐ Bad

Location:	Anode Size:	Anode Type:	Size Bit:
H06-26-09	1/2" x 20"	Lida	6"

Depth Drilled	Depth Logged	Drilling Rig Time	Total Lbs. Coke Used	Lost Circulation Mat'l Used	No. Sacks Mud Used
400	400				

Anode Depth # 1 315 to	# 2 355	# 3	# 4	# 5	# 6	# 7	# 8	# 9	# 10
Anode Output (Amps) # 1 14.4	# 2	# 3	# 4	# 5	# 6	# 7	# 8	# 9	# 10
Anode Depth # 11	# 12	# 13	# 14	# 15	# 16	# 17	# 18	# 19	# 20
Anode Output (Amps) # 11	# 12	# 13	# 14	# 15	# 16	# 17	# 18	# 19	# 20

Total Circuit Resistance			No. 8 C.P. Cable Used	No. 2 C.P. Cable Used
Volts 12.0	Amps 14.4	Ohms .83		

Remarks: Driller said water to be at 220'; no water sample. No surface casing. 410' of 1" PVC vent pipe, bottom 200' perforated. Metalurgical coke to 355', carbo 60 coke, to 285' with anodes, Metalurgical coke from 280' to surface. Lida anode length total 40'. Hole was logged with 2" x 2½' duriron anode.

G. B. 4073.00 (including junction box)

Rectifier Size: 40.0 V 16.0 A — 669.00 ✓

Addn'l Depth — -350.00 ✓

Depth Credit: 100' @ 3.50

Extra Cable: 200' @ .24 — 48.00 ✓

Ditch & 1 Cable: 180' @ .70 — 126.00 ✓

25' Meter Pole: 1 @ 307.00 — 307.00 ✓

20' Meter Pole:

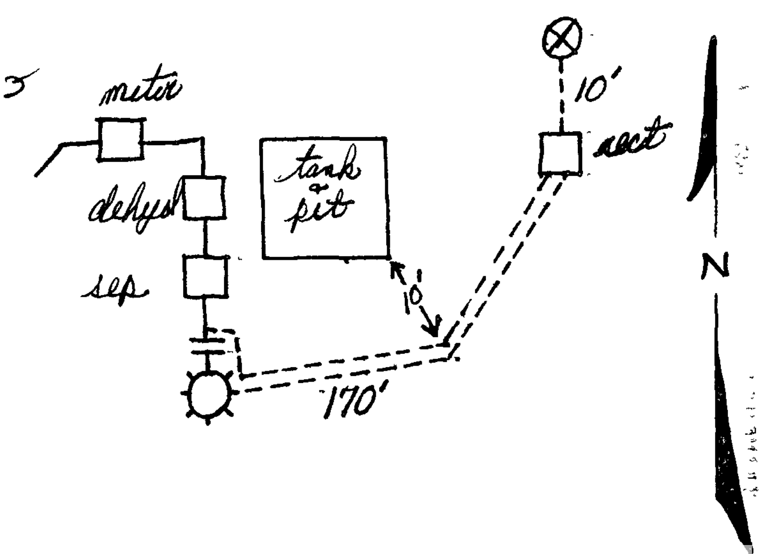
10' Stub Pole:

4873.00 ✓
tax 243.65 ✓
5116.65 ✓ ok 85

All Construction Completed

Calvin Rodman
(Signature)

GROUND BED LAYOUT SKETCH



6558

WELL TYPE GROUNDBED DATA

DATA SHEET NO. _____

COMPANY MERIDIAN OIL JOB No. 13128 DATE: 7-8-88

WELL. HUERFANO # 200 E PIPELINE: _____

LOCATION: SEC 6 TWP. 26 RGE. 9 CO. SAN JUAN STATE N MEX

ELEV. _____ FT: ROTARY 400 FT: CABLE TOOL -0- FT: CASING -0- FT:

GROUNDBED: DEPTH _____ FT. DIA. 6 IN. GAS _____ LBS. ANODES _____

DEPTH, FT.	DRILLER'S LOG	EXPLORING ANODE TO STRUCTURE E	I	R	NO COKE I	WITH COKE I	ANODE NO.	DEPTH TOP OF ANODES
	FIRST WATER R20							
50								
55	SAND							
60								
65								
70								
75								
80								
85								
90								
95								
100								
5								
10								
15								
20								
25								
30								
35								
40								
45								
50								
55								
60								
65								
70								
75								
80								
85								
90								
95								
200								
5								
10								
15								
20			0.7					
25			0.9					
30			1.0					
35			0.6					
40			0.9					
45			0.7					
50			0.8					
55			0.8					

GROUNDBED RESISTANCE: (I) VOLTS 12.0 - AMPS 14.4 = .83 OHMS

(E) VIBROGROUND _____ OHMS

GENERAL CATHODIC PROTECTION SERVICES CO.

A LUKENS COMPANY

WELL TYPE GROUNDBED DATA

DA) SHEET NO. _____

COMPANY _____ JOB No: _____ DATE: _____

WELL: _____ PIPELINE: _____

LOCATION: SEC _____ TWP _____ RGE. _____ CO. _____ STATE _____

ELEV. _____ FT: ROTARY _____ FT: CABLE TOOL _____ FT: CASING _____ FT.

GROUNDBED: DEPTH _____ FT. DIA. _____ IN. GAS _____ LBS. ANODES _____

DEPTH, FT.	DRILLER'S LOG	EXPLORING ANODE TO STRUCTURE E	I	R	NO COKE I	WITH COKE I	ANODE NO.	DEPTH, TOP OF ANODES
60	SAND & SHALE		0.5					
65			1.2					
70			1.5					
75			1.6					
80			1.5					
85			1.5					
90			0.8					
95			0.6					
300			0.5					
5			0.5					
10			0.7					
15			1.4					
20			1.7					
25			1.5					
30			1.1					
35			1.1					
40			1.0			4.6	14.4	
45			1.3					
50			1.5					
55			1.5					
60			1.3					
65			0.9					
70			0.5					
75			0.5					
80			1.0					
85			0.9					
90			0.7					
95			0.7					
400	TD 400		0.9					
5								
10								
15								
20								
25								
30								
35								
40								
45								
50								

GROUNDBED RESISTANCE: (1) VOLTS _____ ÷ AMPS _____ = _____ OHMS

(2) VERACGROUND _____ OHMS

GENERAL CATHODIC PROTECTION SERVICES CO.

LUKENS

D. CrASS DRILLING CO.

Drill No. 3 1978

DRILLER'S WELL LOG

S. P. No. Huer Fano #200-E-DK Date 7-8-88

Client Meridian Oil Co. Prospect

County SAN JUAN State New Mex.

If hole is a redrill or if moved from original staked position show distance and direction moved:

FROM	TO	FORMATION — COLOR — HARDNESS
0	40	Sandy Shale
40	50	Shale
50	65	Sandstone
65	140	Shale
140	150	Sand
150	180	Sandy Shale
180	190	Shale
190	210	Sandy Shale
210	245	Sand
245	270	Sandy Shale
270	300	Shale
300	340	Sandy Shale
340	380	Shale
380	400	Sand

Mud Lime

Rock Bit Number Make

Remarks: Water @ 220'

Driller Lonnie Brown

ENSOLUM

APPENDIX C

Executed C-138 Solid Waste Acceptance Form

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-138
Revised 08/01/11

*Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address:
Enterprise Field Services, LLC, 614 Reilly Ave, Farmington NM 87401

2. Originating Site:
NM B Com #1E

AFE: N71953
PM: Ron Weston
Pay Key: AM14058

3. Location of Material (Street Address, City, State or ULSTR):
UL H Section 32 T27N R9W; 36.5345, -107.8050

4. Source and Description of Waste:
Source: Hydrocarbon contaminated soil/water/sludge remediation of a natural gas meter tube release.
Description: Hydrocarbon contaminated soil/water/sludge remediation of a natural gas meter tube release.
Estimated Volume 10 (yd³) / bbls Known Volume (to be entered by the operator at the end of the haul) 106/10 yd³ / bbls

5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

I, Thomas Long (Thomas Long), representative or authorized agent for Enterprise Products Operating do hereby
Generator Signature
certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. ***Operator Use Only: Waste Acceptance Frequency*** ☐ ***Monthly*** ☐ ***Weekly*** ☐ ***Per Load***

☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description in Box 4)

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, Thomas Long (Thomas Long) 8-14-2024, representative for Enterprise Products Operating authorize to complete
Generator Signature
the required testing/sign the Generator Waste Testing Certification.

I, Greg Crabtree, representative for Envirotech, Inc. do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.

6. Transporter: Sunland Construction IMI, Second Chance,

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: **Envirotech, Inc. Soil Remediation Facility * Permit #: NM01-0011**
Address of Facility: **Hill Top, NM**
Method of Treatment and/or Disposal:
☐ Evaporation ☐ Injection ☐ Treating Plant ☒ Landfarm ☐ Landfill ☐ Other

Waste Acceptance Status:
☒ **APPROVED** ☐ **DENIED** (Must Be Maintained As Permanent Record)

PRINT NAME: Greg Crabtree TITLE: Enviro. Manager DATE: 2/14/24

SIGNATURE: _____ TELEPHONE NO.: 505-632-0615

Surface Waste Management Facility Authorized Agent

ENSOLUM

APPENDIX D

Photographic Documentation

SITE PHOTOGRAPHS

Closure Report
Enterprise Field Services, LLC
NM B Com #1E (02/15/24)
Ensolum Project No. 05A1226304

ENSOLUM

Photograph 1 Photograph Description: View of the in-process excavation activities.	
Photograph 2 Photograph Description: View of the in-process excavation activities.	
Photograph 3 Photograph Description: View of final excavation.	

SITE PHOTOGRAPHS

Closure Report
Enterprise Field Services, LLC
NM B Com #1E (02/15/24)
Ensolum Project No. 05A1226304

ENSOLUM

Photograph 4 Photograph Description: View of the site after initial restoration.	

ENSOLUM

APPENDIX E

Regulatory Correspondence

From: OCDOnline@state.nm.us
To: Long, Thomas
Subject: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 314728
Date: Thursday, February 15, 2024 10:58:25 AM

[Use caution with links/attachments]

To whom it may concern (c/o Thomas Long for Enterprise Field Services, LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2404637666.

The sampling event is expected to take place:

When: 02/20/2024 @ 09:00
Where: H-32-27N-09W 0 FNL 0 FEL (36.5345,-107.805)

Additional Information: Ensolum, LLC

Additional Instructions: 36.5345, -107.8050

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

ENSOLUM

APPENDIX F

Table 1 – Soil Analytical Summary

ENSOLUM

TABLE 1
NM B Com #1E (02/15/24)
SOIL ANALYTICAL SUMMARY

Sample I.D.	Date	Sample Type C- Composite G - Grab	Sample Depth (feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX[1] (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total Combined TPH (GRO/DRO/MRO)[1] (mg/kg)	Chloride (mg/kg)
New Mexico Energy, Mineral & Natural Resources Department Oil Conservation Division Closure Criteria (Tier I)				**10**	**NE**	**NE**	**NE**	**50**	**NE**	**NE**	**NE**	**100**	**600**
Excavation Composite Soil Samples													
S-1	2.20.24	C	4.5	<0.021	<0.041	<0.041	<0.083	ND	<4.1	<9.8	<49	ND	<60
S-2	2.20.24	C	4.5	<0.017	<0.034	<0.034	<0.068	ND	<3.4	<9.6	<48	ND	<60
S-3	2.20.24	C	0 to 4.5	<0.018	<0.036	<0.036	<0.073	ND	<3.6	<9.8	<49	ND	<60
S-4	2.20.24	C	0 to 4.5	<0.017	<0.034	<0.034	<0.068	ND	<3.4	<9.3	<47	ND	<60
S-5	2.20.24	C	0 to 4.5	<0.018	<0.035	<0.035	<0.071	ND	<3.5	<9.4	<47	ND	<60
S-6	2.20.24	C	0 to 4.5	<0.019	<0.038	<0.038	<0.076	ND	<3.8	<10	<50	ND	<60

[1] = Total combined concentrations are rounded to two (2) significant figures to match the laboratory resolution of the individual constituents.

ND = Not Detected above the Practical Quantitation Limits (PQLs) or Reporting Limits (RLs)

NE = Not established

mg/kg = milligrams per kilogram

BTEX = Benzene, Toluene, Ethylbenzene, and Xylenes

TPH = Total Petroleum Hydrocarbons

GRO = Gasoline Range Organics

DRO = Diesel Range Organics

MRO = Motor Oil/Lube Oil Range Organics

ENSOLUM

APPENDIX G

Laboratory Data Sheets & Chain of Custody Documentation

eurofins | Environment Testing

Eurofins Environment Testing South Central, LLC
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

March 02, 2024

Kyle Summers
ENSOLUM
606 S. Rio Grande Suite A
Aztec, NM 87410
TEL: (903) 821-5603
FAX:

RE: NM B Com 1 E OrderNo.: 2402973

Dear Kyle Summers:

Eurofins Environment Testing South Central, LLC received 6 sample(s) on 2/21/2024 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please do not hesitate to contact Eurofins Albuquerque for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2402973**
Date Reported: **3/2/2024**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-1
Project: NM B Com 1 E **Collection Date:** 2/20/2024 9:00:00 AM
Lab ID: 2402973-001 **Matrix:** MEOH (SOIL) **Received Date:** 2/21/2024 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **SNS**	
Chloride	ND	60		mg/Kg	20	2/21/2024 11:37:08 AM	80561
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	2/21/2024 10:42:08 AM	80552
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/21/2024 10:42:08 AM	80552
Surr: DNOP	103	61.2-134		%Rec	1	2/21/2024 10:42:08 AM	80552
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**	
Gasoline Range Organics (GRO)	ND	4.1		mg/Kg	1	2/21/2024 12:14:00 PM	GS03236
Surr: BFB	107	15-244		%Rec	1	2/21/2024 12:14:00 PM	GS03236
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**	
Benzene	ND	0.021		mg/Kg	1	2/21/2024 12:14:00 PM	R103236
Toluene	ND	0.041		mg/Kg	1	2/21/2024 12:14:00 PM	R103236
Ethylbenzene	ND	0.041		mg/Kg	1	2/21/2024 12:14:00 PM	R103236
Xylenes, Total	ND	0.083		mg/Kg	1	2/21/2024 12:14:00 PM	R103236
Surr: 4-Bromofluorobenzene	102	39.1-146		%Rec	1	2/21/2024 12:14:00 PM	R103236

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2402973**
Date Reported: **3/2/2024**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-2
Project: NM B Com 1 E **Collection Date:** 2/20/2024 9:05:00 AM
Lab ID: 2402973-002 **Matrix:** MEOH (SOIL) **Received Date:** 2/21/2024 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **SNS**	
Chloride	ND	60		mg/Kg	20	2/21/2024 11:49:29 AM	80561
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	2/21/2024 11:05:59 AM	80552
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/21/2024 11:05:59 AM	80552
Surr: DNOP	106	61.2-134		%Rec	1	2/21/2024 11:05:59 AM	80552
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**	
Gasoline Range Organics (GRO)	ND	3.4		mg/Kg	1	2/21/2024 12:36:00 PM	GS03236
Surr: BFB	112	15-244		%Rec	1	2/21/2024 12:36:00 PM	GS03236
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**	
Benzene	ND	0.017		mg/Kg	1	2/21/2024 12:36:00 PM	R103236
Toluene	ND	0.034		mg/Kg	1	2/21/2024 12:36:00 PM	R103236
Ethylbenzene	ND	0.034		mg/Kg	1	2/21/2024 12:36:00 PM	R103236
Xylenes, Total	ND	0.068		mg/Kg	1	2/21/2024 12:36:00 PM	R103236
Surr: 4-Bromofluorobenzene	104	39.1-146		%Rec	1	2/21/2024 12:36:00 PM	R103236

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2402973**
Date Reported: **3/2/2024**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-3
Project: NM B Com 1 E **Collection Date:** 2/20/2024 9:10:00 AM
Lab ID: 2402973-003 **Matrix:** MEOH (SOIL) **Received Date:** 2/21/2024 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **SNS**	
Chloride	ND	60		mg/Kg	20	2/21/2024 12:01:49 PM	80561
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	2/21/2024 11:29:53 AM	80552
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/21/2024 11:29:53 AM	80552
Surr: DNOP	106	61.2-134		%Rec	1	2/21/2024 11:29:53 AM	80552
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**	
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	2/21/2024 12:58:00 PM	GS03236
Surr: BFB	110	15-244		%Rec	1	2/21/2024 12:58:00 PM	GS03236
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**	
Benzene	ND	0.018		mg/Kg	1	2/21/2024 12:58:00 PM	R103236
Toluene	ND	0.036		mg/Kg	1	2/21/2024 12:58:00 PM	R103236
Ethylbenzene	ND	0.036		mg/Kg	1	2/21/2024 12:58:00 PM	R103236
Xylenes, Total	ND	0.073		mg/Kg	1	2/21/2024 12:58:00 PM	R103236
Surr: 4-Bromofluorobenzene	103	39.1-146		%Rec	1	2/21/2024 12:58:00 PM	R103236

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2402973**
Date Reported: **3/2/2024**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-4
Project: NM B Com 1 E **Collection Date:** 2/20/2024 9:15:00 AM
Lab ID: 2402973-004 **Matrix:** MEOH (SOIL) **Received Date:** 2/21/2024 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **SNS**	
Chloride	ND	60		mg/Kg	20	2/21/2024 12:14:10 PM	80561
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**	
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	2/21/2024 11:53:53 AM	80552
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/21/2024 11:53:53 AM	80552
Surr: DNOP	107	61.2-134		%Rec	1	2/21/2024 11:53:53 AM	80552
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**	
Gasoline Range Organics (GRO)	ND	3.4		mg/Kg	1	2/21/2024 1:20:00 PM	GS03236
Surr: BFB	106	15-244		%Rec	1	2/21/2024 1:20:00 PM	GS03236
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**	
Benzene	ND	0.017		mg/Kg	1	2/21/2024 1:20:00 PM	R103236
Toluene	ND	0.034		mg/Kg	1	2/21/2024 1:20:00 PM	R103236
Ethylbenzene	ND	0.034		mg/Kg	1	2/21/2024 1:20:00 PM	R103236
Xylenes, Total	ND	0.068		mg/Kg	1	2/21/2024 1:20:00 PM	R103236
Surr: 4-Bromofluorobenzene	103	39.1-146		%Rec	1	2/21/2024 1:20:00 PM	R103236

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2402973**
Date Reported: **3/2/2024**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-5
Project: NM B Com 1 E **Collection Date:** 2/20/2024 9:20:00 AM
Lab ID: 2402973-005 **Matrix:** MEOH (SOIL) **Received Date:** 2/21/2024 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **SNS**	
Chloride	ND	60		mg/Kg	20	2/21/2024 12:26:31 PM	80561
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**	
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	2/21/2024 12:17:53 PM	80552
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/21/2024 12:17:53 PM	80552
Surr: DNOP	127	61.2-134		%Rec	1	2/21/2024 12:17:53 PM	80552
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**	
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	2/21/2024 1:42:00 PM	GS03236
Surr: BFB	110	15-244		%Rec	1	2/21/2024 1:42:00 PM	GS03236
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**	
Benzene	ND	0.018		mg/Kg	1	2/21/2024 1:42:00 PM	R103236
Toluene	ND	0.035		mg/Kg	1	2/21/2024 1:42:00 PM	R103236
Ethylbenzene	ND	0.035		mg/Kg	1	2/21/2024 1:42:00 PM	R103236
Xylenes, Total	ND	0.071		mg/Kg	1	2/21/2024 1:42:00 PM	R103236
Surr: 4-Bromofluorobenzene	102	39.1-146		%Rec	1	2/21/2024 1:42:00 PM	R103236

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2402973**
Date Reported: **3/2/2024**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-6
Project: NM B Com 1 E **Collection Date:** 2/20/2024 9:25:00 AM
Lab ID: 2402973-006 **Matrix:** MEOH (SOIL) **Received Date:** 2/21/2024 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **SNS**	
Chloride	ND	60		mg/Kg	20	2/21/2024 12:38:52 PM	80561
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	2/21/2024 12:41:54 PM	80552
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	2/21/2024 12:41:54 PM	80552
Surr: DNOP	128	61.2-134		%Rec	1	2/21/2024 12:41:54 PM	80552
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**	
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg	1	2/21/2024 2:04:00 PM	GS03236
Surr: BFB	105	15-244		%Rec	1	2/21/2024 2:04:00 PM	GS03236
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**	
Benzene	ND	0.019		mg/Kg	1	2/21/2024 2:04:00 PM	R103236
Toluene	ND	0.038		mg/Kg	1	2/21/2024 2:04:00 PM	R103236
Ethylbenzene	ND	0.038		mg/Kg	1	2/21/2024 2:04:00 PM	R103236
Xylenes, Total	ND	0.076		mg/Kg	1	2/21/2024 2:04:00 PM	R103236
Surr: 4-Bromofluorobenzene	99.1	39.1-146		%Rec	1	2/21/2024 2:04:00 PM	R103236

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2402973**

02-Mar-24

Client: ENSOLUM

Project: NM B Com 1 E

Sample ID: **MB-80561**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **80561**	RunNo: **103234**
Prep Date: **2/21/2024**	Analysis Date: **2/21/2024**	SeqNo: **3818645** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-80561**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **80561**	RunNo: **103234**
Prep Date: **2/21/2024**	Analysis Date: **2/21/2024**	SeqNo: **3818646** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.1	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2402973**

02-Mar-24

Client: ENSOLUM

Project: NM B Com 1 E

Sample ID: **MB-80552** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **PBS** Batch ID: **80552** RunNo: **103229**

Prep Date: **2/21/2024** Analysis Date: **2/21/2024** SeqNo: **3817507** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		101	61.2	134			

Sample ID: **LCS-80552** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **LCSS** Batch ID: **80552** RunNo: **103229**

Prep Date: **2/21/2024** Analysis Date: **2/21/2024** SeqNo: **3817508** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	54	10	50.00	0	108	59.7	135			
Surr: DNOP	5.0		5.000		99.8	61.2	134			

Sample ID: **2402973-006AMS** SampType: **MS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **S-6** Batch ID: **80552** RunNo: **103229**

Prep Date: **2/21/2024** Analysis Date: **2/21/2024** SeqNo: **3818224** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53	9.8	48.88	0	109	43.7	136			
Surr: DNOP	5.2		4.888		107	61.2	134			

Sample ID: **2402973-006AMSD** SampType: **MSD** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **S-6** Batch ID: **80552** RunNo: **103229**

Prep Date: **2/21/2024** Analysis Date: **2/21/2024** SeqNo: **3818225** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	9.5	47.53	0	106	43.7	136	5.07	31.3	
Surr: DNOP	5.1		4.753		106	61.2	134	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2402973**

02-Mar-24

Client: ENSOLUM

Project: NM B Com 1 E

Sample ID: **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **GS03236**	RunNo: **103236**
Prep Date:	Analysis Date: **2/21/2024**	SeqNo: **3817593** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	91.6	70	130			
Surr: BFB	2300		1000		228	15	244			

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **GS03236**	RunNo: **103236**
Prep Date:	Analysis Date: **2/21/2024**	SeqNo: **3817594** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		112	15	244			

Sample ID: **2402973-001ams**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **S-1**	Batch ID: **GS03236**	RunNo: **103236**
Prep Date:	Analysis Date: **2/21/2024**	SeqNo: **3817900** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	19	4.1	20.63	0	94.2	70	130			
Surr: BFB	1800		825.1		221	15	244			

Sample ID: **2402973-001amsd**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **S-1**	Batch ID: **GS03236**	RunNo: **103236**
Prep Date:	Analysis Date: **2/21/2024**	SeqNo: **3817901** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	19	4.1	20.63	0	90.4	70	130	4.12	20	
Surr: BFB	1800		825.1		216	15	244	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2402973**

02-Mar-24

Client: ENSOLUM

Project: NM B Com 1 E

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **R103236**	RunNo: **103236**
Prep Date:	Analysis Date: **2/21/2024**	SeqNo: **3817602** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		108	39.1	146			

Sample ID: **100ng btex lcs**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **R103236**	RunNo: **103236**
Prep Date:	Analysis Date: **2/21/2024**	SeqNo: **3817608** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	1.000	0	94.0	70	130			
Toluene	0.95	0.050	1.000	0	94.6	70	130			
Ethylbenzene	0.97	0.050	1.000	0	97.1	70	130			
Xylenes, Total	2.9	0.10	3.000	0	98.2	70	130			
Surr: 4-Bromofluorobenzene	1.1		1.000		109	39.1	146			

Sample ID: **2402973-002ams**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **S-2**	Batch ID: **R103236**	RunNo: **103236**
Prep Date:	Analysis Date: **2/21/2024**	SeqNo: **3817902** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.63	0.017	0.6775	0	93.2	70	130			
Toluene	0.63	0.034	0.6775	0	93.0	70	130			
Ethylbenzene	0.64	0.034	0.6775	0	95.0	70	130			
Xylenes, Total	1.9	0.068	2.033	0	95.4	70	130			
Surr: 4-Bromofluorobenzene	0.68		0.6775		101	39.1	146			

Sample ID: **2402973-002amsd**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **S-2**	Batch ID: **R103236**	RunNo: **103236**
Prep Date:	Analysis Date: **2/21/2024**	SeqNo: **3817903** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.63	0.017	0.6775	0	92.5	70	130	0.748	20	
Toluene	0.63	0.034	0.6775	0	93.0	70	130	0.0301	20	
Ethylbenzene	0.64	0.034	0.6775	0	94.4	70	130	0.643	20	
Xylenes, Total	1.9	0.068	2.033	0	94.4	70	130	1.06	20	
Surr: 4-Bromofluorobenzene	0.70		0.6775		103	39.1	146	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

eurofins | Environment Testing

Eurofins Environment Testing South Central, LLC
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: **ENSOLUM** Work Order Number: **2402973** RcptNo: **1**

Received By: **Tracy Casarrubias** **2/21/2024 7:00:00 AM**

Completed By: **Tracy Casarrubias** **2/21/2024 7:21:04 AM**

Reviewed By: JM 2-21-24

Chain of Custody

1. Is Chain of Custody complete?	Yes ☐	No ☑	Not Present ☐	
2. How was the sample delivered?	Courier			

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☐	No ☐	NA ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____
(<2 or >12 unless noted)
Adjusted? _____
Checked by: JM 2/21/24

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____
By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding: _____
Client Instructions: Phone number and Email/Fax are missing on COC- TMC 2/21/24

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.4	Good	Yes	Yogi		

Chain-of-Custody Record

Client: Ensolum, LLC.

Mailing Address: 606 S Rio Grande Suit A 87410

Phone #:

email or Fax#:

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other
☐ EDD (Type)

Turn-Around Time: 100%
☐ Standard ☒ Rush 2-21-24

Project Name: NM B Com #1E

Project #:

Project Manager: K Summers

Sampler: C D'Aponti

On Ice: ☒ Yes ☐ No (yog)

# of Coolers: 1

Cooler Temp (Including CF): 0.4 ± 0 = 0.4 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2402973	BTEX / ~~MTBE / TMB's~~ (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, ~~F, Br, NO3, NO2, PO4, SO4~~	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)						
2/20	900	S	S-1	1 4oz Jar	Cool	001	✓	✓					✓									
2/20	905	S	S-2		Cool	002	✓	✓					✓									
2/20	910	S	S-3		Cool	003	✓	✓					✓									
2/20	915	S	S-4		Cool	004	✓	✓					✓									
2/20	920	S	S-5		Cool	005	✓	✓					✓									
2/20	925	S	S-6		Cool	006	✓	✓					✓									

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
2/20/24	1142	[signature]	[signature]		2/20/24	1142
2/20/24	1740	Christina Waller		courier	2/21/24	7:00

Remarks: Tom Long
Same Day

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Action 331186

QUESTIONS

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 331186
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2404637666**
Incident Name	**NAPP2404637666 NM B COM #1E @ 0**
Incident Type	**Oil Release**
Incident Status	**Remediation Closure Report Received**
Incident Facility	**[fAPP2122931016] ENTERPRISE FARMINGTON GS**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	NM B Com #1E
Date Release Discovered	02/15/2024
Surface Owner	State

Incident Details	
Please answer all the questions in this group.	
Incident Type	Oil Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	*Not answered.*
Produced Water Released (bbls) Details	*Not answered.*
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Cause: Equipment Failure | Pipeline (Any) | Condensate | Released: 5 BBL | Recovered: 0 BBL | Lost: 5 BBL.
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	*Not answered.*
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	*Not answered.*

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QUESTIONS (continued)

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 331186
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	**More info needed to determine if this will be treated as a "gas only" report.**
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	**No**
Reasons why this would be considered a submission for a notification of a major release	*Unavailable.*
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response	
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	None
Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

I hereby agree and sign off to the above statement	Name: Thomas Long Title: Sr Field Environmental Scientist Email: tjlong@eprod.com Date: 04/09/2024

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QUESTIONS (continued)

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 331186
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 26 and 50 (ft.)
What method was used to determine the depth to ground water	OCD Imaging Records Lookup
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 300 and 500 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between ½ and 1 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	None
A 100-year floodplain	Between ½ and 1 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	59.9
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0.1
GRO+DRO (EPA SW-846 Method 8015M)	13.9
BTEX (EPA SW-846 Method 8021B or 8260B)	0.1
Benzene (EPA SW-846 Method 8021B or 8260B)	0.1
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
On what estimated date will the remediation commence	02/16/2024
On what date will (or did) the final sampling or liner inspection occur	02/20/2024
On what date will (or was) the remediation complete(d)	02/21/2024
What is the estimated surface area (in square feet) that will be reclaimed	432
What is the estimated volume (in cubic yards) that will be reclaimed	106
What is the estimated surface area (in square feet) that will be remediated	432
What is the estimated volume (in cubic yards) that will be remediated	106
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.	
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 331186
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and **off-site** disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for **off-site** disposal	ENVIROTECH LANDFARM #1 [fEEM0112334691]
OR which OCD approved well (API) will be used for **off-site** disposal	*Not answered.*
OR is the **off-site** disposal site, to be used, out-of-state	*Not answered.*
OR is the **off-site** disposal site, to be used, an NMED facility	*Not answered.*
(Ex Situ) Excavation and **on-site** remediation (i.e. On-Site Land Farms)	*Not answered.*
(In Situ) Soil Vapor Extraction	*Not answered.*
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	*Not answered.*
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	*Not answered.*
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	*Not answered.*
Ground Water Abatement pursuant to 19.15.30 NMAC	*Not answered.*
OTHER (Non-listed remedial process)	*Not answered.*
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Thomas Long Title: Sr Field Environmental Scientist Email: tjlong@eprod.com Date: 04/09/2024
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 331186
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS (continued)

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 331186
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**314728**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**02/20/2024**
What was the (estimated) number of samples that were to be gathered	**6**
What was the sampling surface area in square feet	**200**

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	**Yes**
Was this release entirely contained within a lined containment area	**No**
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	432
What was the total volume (cubic yards) remediated	106
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	432
What was the total volume (in cubic yards) reclaimed	106
Summarize any additional remediation activities not included by answers (above)	None

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement	Name: Thomas Long Title: Sr Field Environmental Scientist Email: tjlong@eprod.com Date: 04/09/2024

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS (continued)

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 331186
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 331186

CONDITIONS

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 331186
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CONDITIONS

Created By	Condition	Condition Date
nvelez	None	5/9/2024