

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., 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 Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Enterprise Field Services, LLC	OGRID: 241602
Contact Name: Thomas Long	Contact Telephone: 505-599-2286
Contact email: tjlong@eprod.com	Incident # (assigned by OCD) nAPP2307927327
Contact mailing address: 614 Reilly Ave, Farmington, NM 87401	

Location of Release Source

Latitude **36.557716** Longitude **-107.892107** (NAD 83 in decimal degrees to 5 decimal places)

Site Name Lateral 2A-2	Site Type Natural Gas Gathering Pipeline
Date Release Discovered: 03/20/2023	Serial Number (if applicable): N/A

Unit Letter	Section	Township	Range	County
I	21	27N	10W	San Juan

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (Name: **BLM**)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input checked="" type="checkbox"/> Condensate	Volume Released (bbls): Estimated 5 BBLs	Volume Recovered (bbls): None
<input checked="" type="checkbox"/> Natural Gas	Volume Released (Mcf): 8.23 MCF	Volume Recovered (Mcf): None
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units):	Volume/Weight Recovered (provide units)

Cause of Release: On March 20, 2023, Enterprise had a release of natural gas and natural gas liquids from the Lateral 2A-2 pipeline. The pipeline was isolated, depressurized, locked and tagged out. No fire nor injuries occurred. Release liquids flowed approximately 50 feet to the southwest entering an ephemeral wash. Repairs and remediation were completed on January 30, 2023. The final excavation dimensions measured approximately 12 feet long by seven feet wide by 4.5 feet deep. A total of 24 cubic yards of hydrocarbon impacted soil was excavated and transported to a New Mexico Oil Conservation Division (NMOCD) approved land farm. A third party closure report is included with this "Final" C-141.

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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 (electronic submittals in .pdf format are preferred) 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.

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

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.

Printed Name: Thomas Long Title: Senior Environmental Scientist


Signature:  Date: 06-12-2023

email: tjlong@eprod.com Telephone: (505) 599-2286

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by:  Date: 06/13/2023

Printed Name: Nelson Velez Title: Environmental Specialist – Adv



CLOSURE REPORT

Property:

Lateral 2A-2 (03/20/23)
Unit Letter I, S21 T27N R10W
San Juan County, New Mexico

New Mexico EMNRD OCD Incident ID No. NAPP2307927327

June 8, 2023

Ensolum Project No. 05A1226232

Prepared for:

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

Prepared by:

Chad D'Apointi
Project Scientist

Kyle Summers
Senior Managing Geologist

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1.0 INTRODUCTION

1.1 Site Description & Background

Operator:	Enterprise Field Services, LLC / Enterprise Products Operating LLC (Enterprise)
Site Name:	Lateral 2A-2 (03/20/23) (Site)
NM EMNRD OCD Incident ID No.	NAPP2307927327
Location:	36.557716° North, 107.892107° West Unit Letter I, Section 21, Township 27 North, Range 10 West San Juan County, New Mexico
Property:	United States Bureau of Land Management (BLM)
Regulatory:	New Mexico (NM) Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

On March 19, 2023, Enterprise identified a potential release of natural gas from the Lateral 2A-2 pipeline. Enterprise subsequently isolated and locked the pipeline out of service. On March 20, 2023, Enterprise determined the release was “reportable” due to the estimated volume of impacted soil. The NM EMNRD OCD was subsequently notified. On March 27, 2023, Enterprise initiated activities to repair the pipeline and remediate petroleum hydrocarbon impact.

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 New Mexico EMNRD OCD. 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, during the evaluation and remediation of the Site. 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 or in the adjacent PLSS sections (**Figure A**, **Appendix B**).
- Eleven cathodic protection wells (CPWs) were identified in the NM EMNRD OCD imaging database in the same PLSS section as the Site and in the adjacent PLSS sections. These CPWs are depicted on **Figure B** (**Appendix B**). Two of the closest CPWs are located less

than 0.25 miles from the Site. Documentation for the cathodic protection well located near the Johnson #2 well location indicates a depth to water of approximately 120 feet below grade surface (bgs). This cathodic protection well is located approximately 0.18 miles southwest of the Site and is approximately 20 feet lower in elevation than the Site. Documentation for the cathodic protection well located near the Gordon #5 well location indicates a depth to water of approximately 115 feet bgs. This cathodic protection well is located approximately 0.24 miles southeast of the Site and is approximately 10 feet higher in elevation than the Site.

- The Site is located within 300 feet of a NM EMNRD OCD-defined continuously flowing watercourse or significant watercourse (**Figure C, Appendix B**).
- 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, the applicable 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 March 27, 2023, Enterprise initiated activities to repair the pipeline and remediate petroleum hydrocarbon impact resulting from the release. During the remediation and corrective action activities, Industrial Mechanical Inc (IMI), provided heavy equipment and labor support, while Ensolum provided environmental consulting support.

The final excavation measured approximately 12 feet long and 7 feet wide at the maximum extent. The maximum depth of the excavation measured approximately 4.5 feet bgs. The flow path measured approximately 100 feet long and 1 foot wide. The lithology encountered during the completion of remediation activities consisted primarily of silty sandy clay.

Approximately 24 cubic yards (yd³) of petroleum hydrocarbon-affected soils were transported to the Envirotech, Inc., (Envirotech) landfarm near Hilltop, NM for disposal/remediation. The executed C-138 solid waste acceptance form is provided in **Appendix C**. After acceptable analytical results were obtained, the excavation was backfilled with imported fill and then contoured to the surrounding topography.

Figure 3 is a map that identifies approximate soil sample locations and depicts the approximate dimensions of the excavation with respect to the pipeline (**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 photoionization detector (PID) fitted with a 10.6 eV lamp to guide excavation extents.

Ensolum's soil sampling program included the collection of five composite soil samples (S-1 through S-5) from the excavation and two flow path composite soil samples (FP-1 and FP-2) for laboratory analysis. The composite samples were comprised of five aliquots each and represent an estimated 200 square foot (ft²) or less sample area per guidelines outlined in Section D of 19.15.29.12 NMAC. Hand tools were utilized to obtain fresh aliquots from each area of the excavation. Regulatory correspondence is provided in **Appendix E**.

Sampling Event

On March 28, 2023, 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 sample S-1 (4.5') was collected from the floor of the excavation. Composite soil samples S-2 (0'-4.5'), S-3 (0'-4.5'), S-4 (0'-4.5'), and S-5 (0'-4.5'), were collected from the walls of the excavation. Two composite soil samples (FP-1 (0.25') and FP-2 (0.25')) were collected from the flow path to confirm the soil did not exhibit petroleum hydrocarbon impact.

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 Hall Environmental Analysis Laboratory 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-5, FP-1, and FP-2) 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 applicable NM EMNRD OCD criteria of 10 mg/kg.
- The laboratory analytical results for the composite soil samples indicate that total BTEX is not present in concentrations greater than the laboratory PQLs/RLs, which are less than the applicable 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 in concentrations greater than the laboratory PQLs/RLs, which are less than the applicable 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 are less than the applicable NM EMNRD OCD criteria of 600 mg/kg.

7.0 RECLAMATION AND REVEGETATION

The excavation was backfilled with imported fill and then contoured to the surrounding topography.

8.0 FINDINGS AND RECOMMENDATION

- Seven composite soil samples were collected from the Site. Based on laboratory analytical results, no benzene, total BTEX, chloride, or combined TPH GRO/DRO/MRO exceedances were identified in the soils remaining at the Site.
- Approximately 24 yd³ of petroleum hydrocarbon-affected soils were transported to the Envirotech landfarm for disposal/remediation. The excavation was backfilled with imported fill and then contoured to the surrounding topography.

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

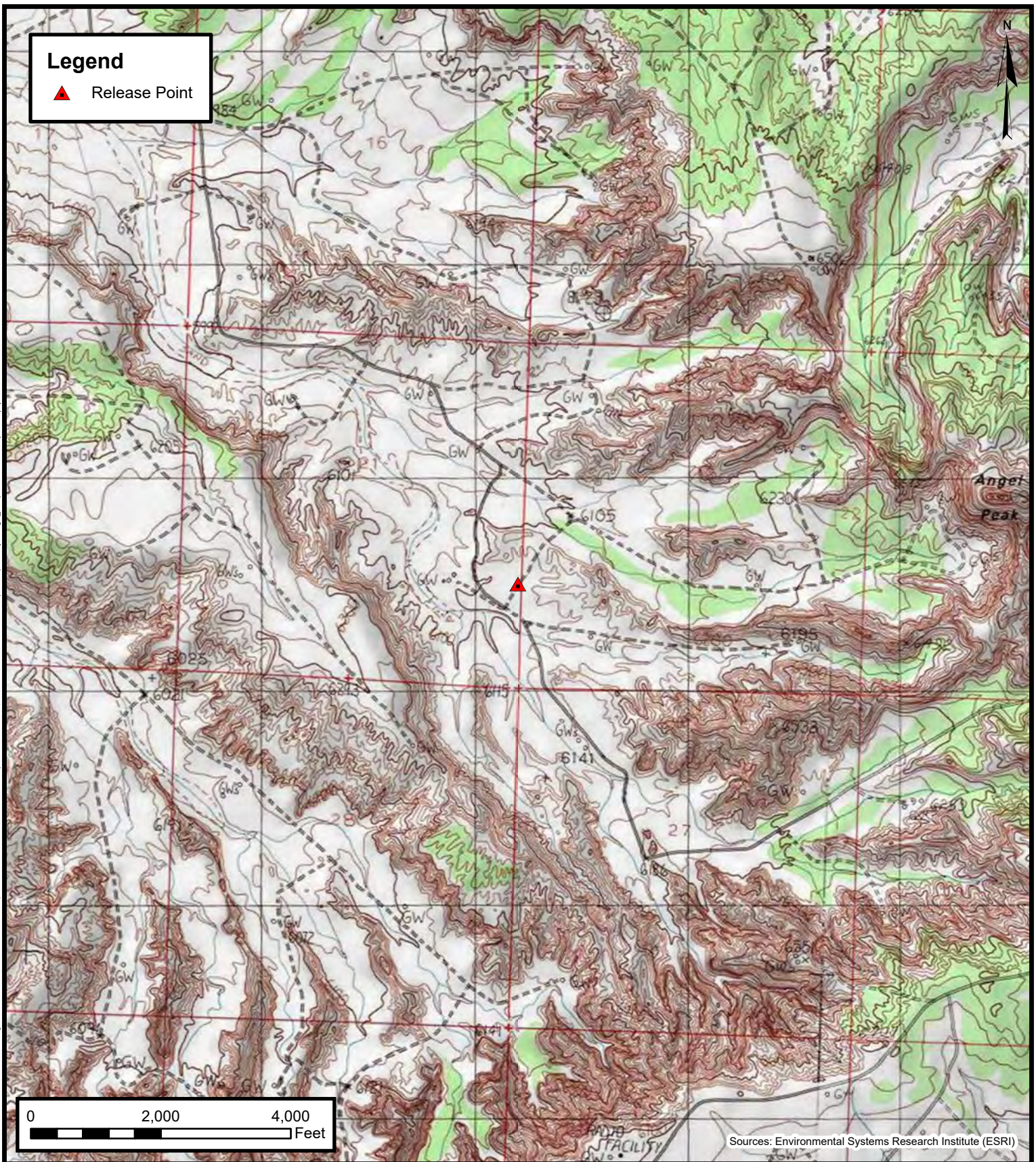
This report has been prepared for the exclusive use of Enterprise, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Site) is prohibited without the express written authorization of Enterprise and Ensolum. Any unauthorized distribution 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.



APPENDIX A

Figures

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Topographic Map

Enterprise Field Services, LLC

Lateral 2A-2 (03/20/23)

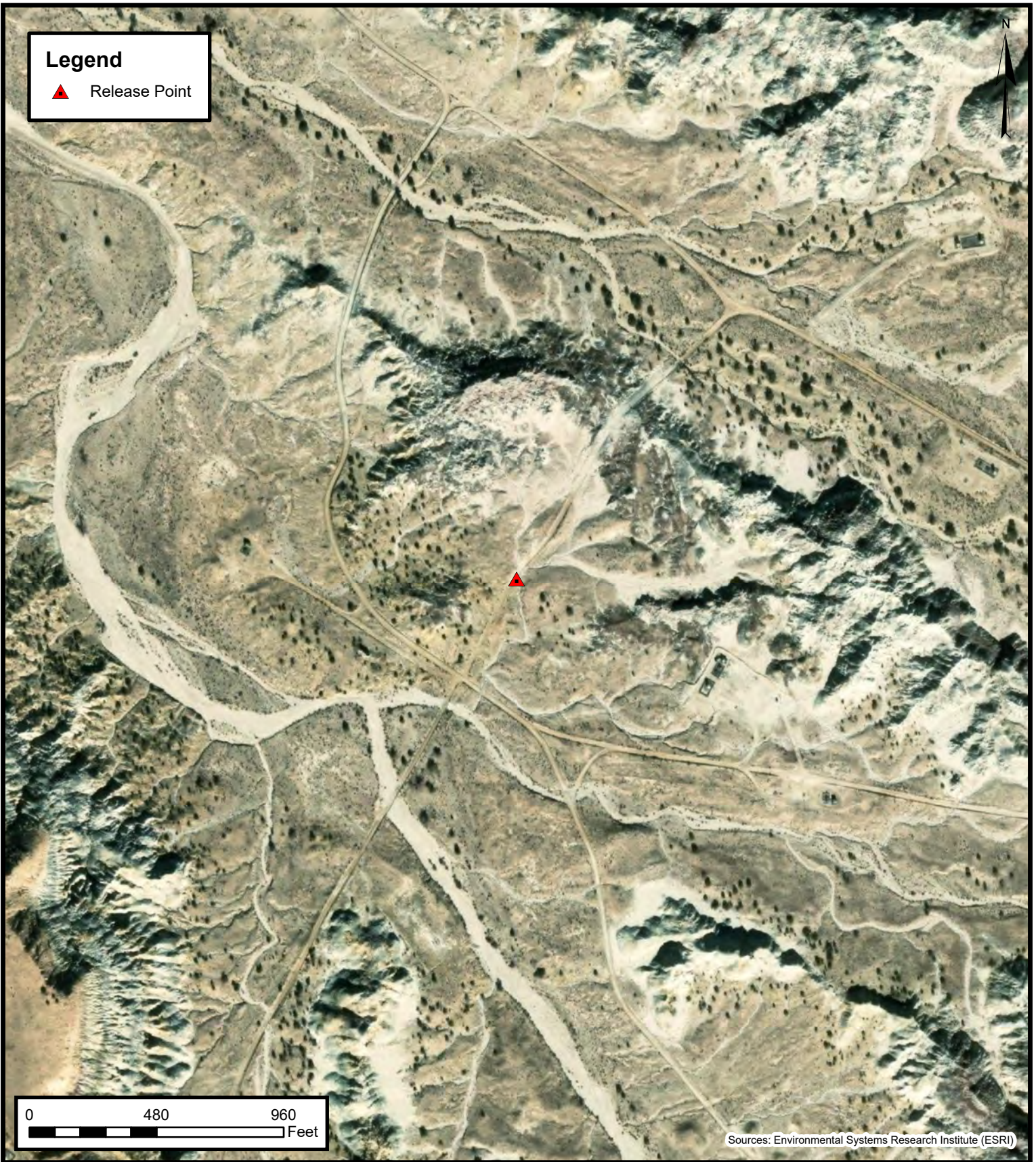
Project Number: 05A1226232

Unit Letter I, S21 T27N R10W, San Juan County, New Mexico
36.557716, -107.892107

FIGURE

1

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Site Vicinity Map

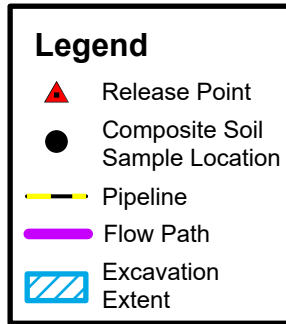
Enterprise Field Services, LLC
Lateral 2A-2 (03/20/23)

Project Number: 05A1226232

Unit Letter I, S21 T27N R10W, San Juan County, New Mexico
36.557716, -107.892107

FIGURE

1



S-5	
3.28.23	
W (0-4.5')	
Benzene...	<0.017
Toluene...	<0.035
Ethylbenzene...	<0.035
Xylenes...	<0.069
Total BTEX...	ND
TPH GRO...	<3.5
TPH DRO...	<9.7
TPH MRO...	<48
Total Combined TPH	
GRO/DRO/MRO...	ND
Chlorides...	<60

S-2	
3.28.23	
W (0-4.5')	
Benzene...	<0.018
Toluene...	<0.036
Ethylbenzene...	<0.036
Xylenes...	<0.072
Total BTEX...	ND
TPH GRO...	<3.6
TPH DRO...	<9.6
TPH MRO...	<48
Total Combined TPH	
GRO/DRO/MRO...	ND
Chlorides...	<60

S-4	
3.28.23	
W (0-4.5')	
Benzene...	<0.017
Toluene...	<0.034
Ethylbenzene...	<0.034
Xylenes...	<0.069
Total BTEX...	ND
TPH GRO...	<3.4
TPH DRO...	<10
TPH MRO...	<50
Total Combined TPH	
GRO/DRO/MRO...	ND
Chlorides...	<60

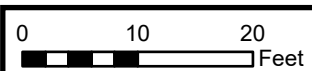
S-3	
3.28.23	
W (0-4.5')	
Benzene...	<0.017
Toluene...	<0.033
Ethylbenzene...	<0.033
Xylenes...	<0.067
Total BTEX...	ND
TPH GRO...	<3.3
TPH DRO...	<9.8
TPH MRO...	<49
Total Combined TPH	
GRO/DRO/MRO...	ND
Chlorides...	<60

S-1	
3.28.23	
F (4.5')	
Benzene...	<0.017
Toluene...	<0.035
Ethylbenzene...	<0.035
Xylenes...	<0.069
Total BTEX...	ND
TPH GRO...	<3.5
TPH DRO...	<9.6
TPH MRO...	<48
Total Combined TPH	
GRO/DRO/MRO...	ND
Chlorides...	<60

FP-2	
3.28.23	
F (0.25')	
Benzene...	<0.018
Toluene...	<0.035
Ethylbenzene...	<0.035
Xylenes...	<0.071
Total BTEX...	ND
TPH GRO...	<3.5
TPH DRO...	<9.9
TPH MRO...	<50
Total Combined TPH	
GRO/DRO/MRO...	ND
Chlorides...	<60

FP-1	
3.28.23	
F (0.25')	
Benzene...	<0.017
Toluene...	<0.035
Ethylbenzene...	<0.035
Xylenes...	<0.070
Total BTEX...	ND
TPH GRO...	<3.5
TPH DRO...	<9.6
TPH MRO...	<48
Total Combined TPH	
GRO/DRO/MRO...	ND
Chlorides...	<60

Notes:
 F - Floor Sample
 W - Wall Sample
 All concentration are
 listed in milligrams per kilogram (mg/kg).
 All depths are listed in feet BGS.



Sources:
 Environmental Systems Research Institute (ESRI)



Site Map with Soil Analytical Results

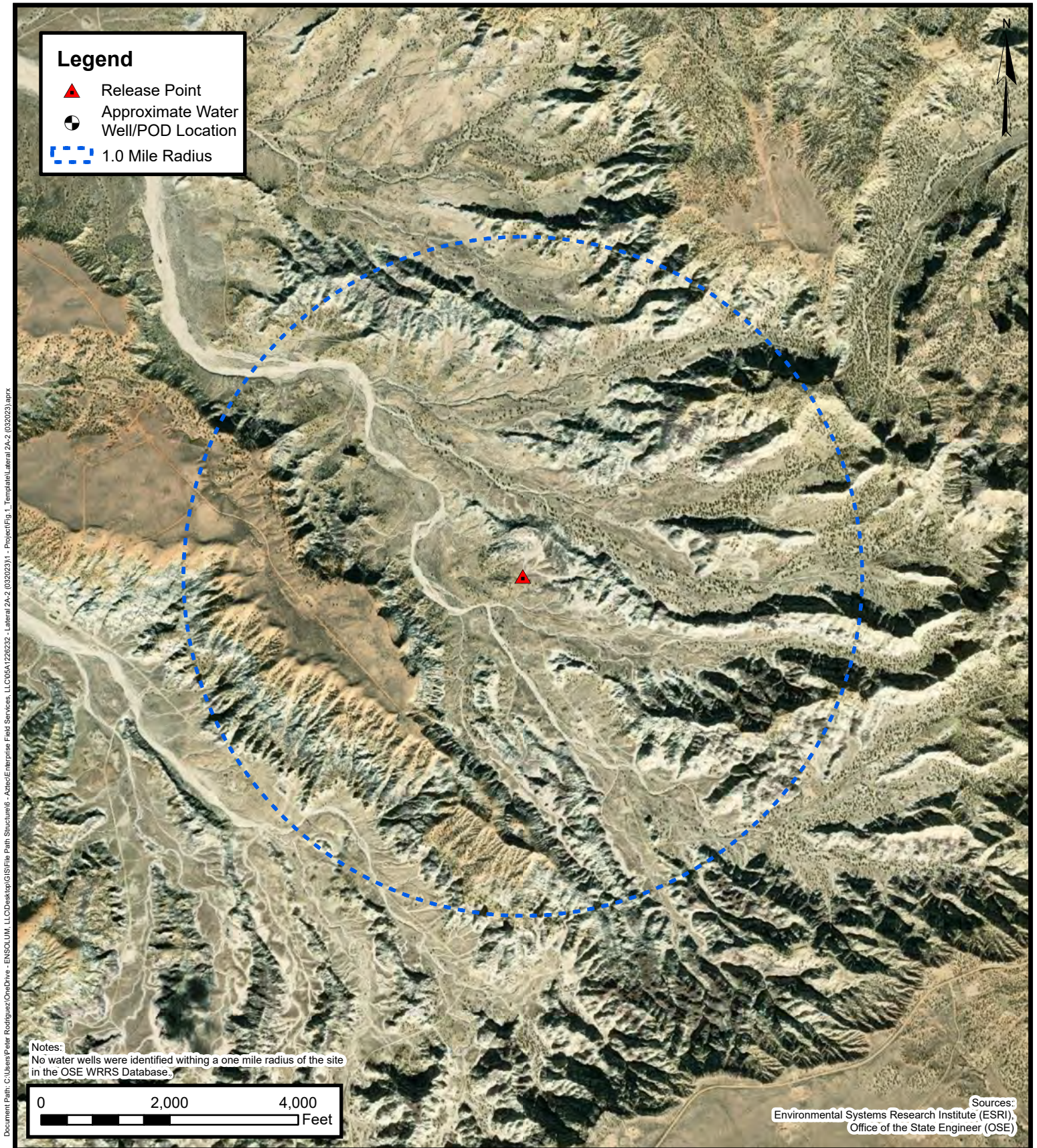
Enterprise Field Services, LLC
 Lateral 2A-2 (03/20/23)
 Project Number: 05A1226232
 Unit Letter I, S21 T27N R10W, San Juan County, New Mexico
 36.557716, -107.892107

FIGURE
3



APPENDIX B

Siting Figures and Documentation

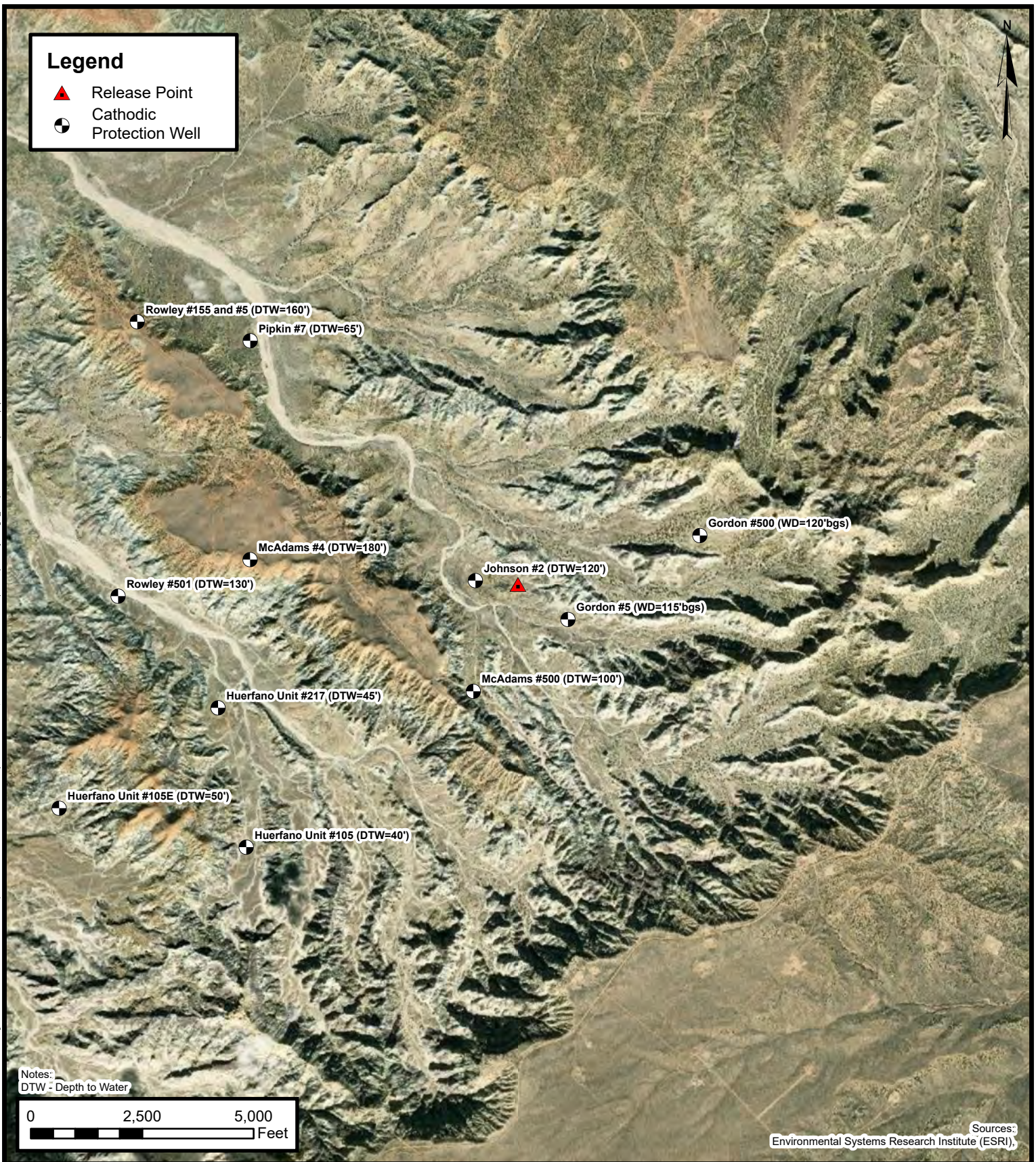


1.0 Mile Radius Water Well/ POD Location Map

Enterprise Field Services, LLC
Lateral 2A-2 (03/20/23)
Project Number: 05A1226232
Unit Letter I, S21 T27N R10W, San Juan County, New Mexico
36.557716, -107.892107

FIGURE
A

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Cathodic Protection Well Recorded Depth to Water

Enterprise Field Services, LLC

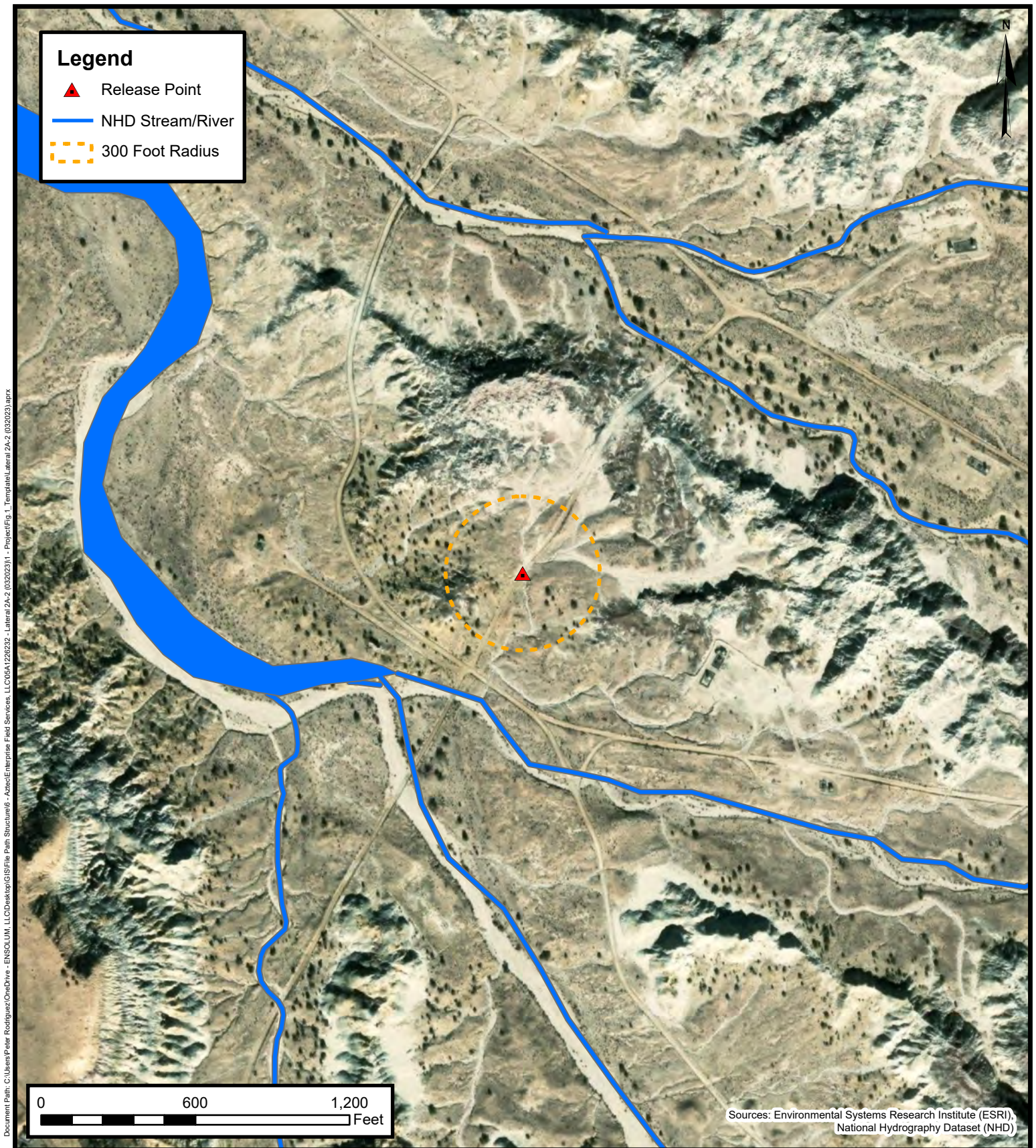
Lateral 2A-2 (03/20/23)

Project Number: 05A1226232

Unit Letter I, S21 T27N R10W, San Juan County, New Mexico
36.557716, -107.892107

FIGURE

B



300 Foot Radius Watercourse and Drainage Identification

Enterprise Field Services, LLC

Lateral 2A-2 (03/20/23)

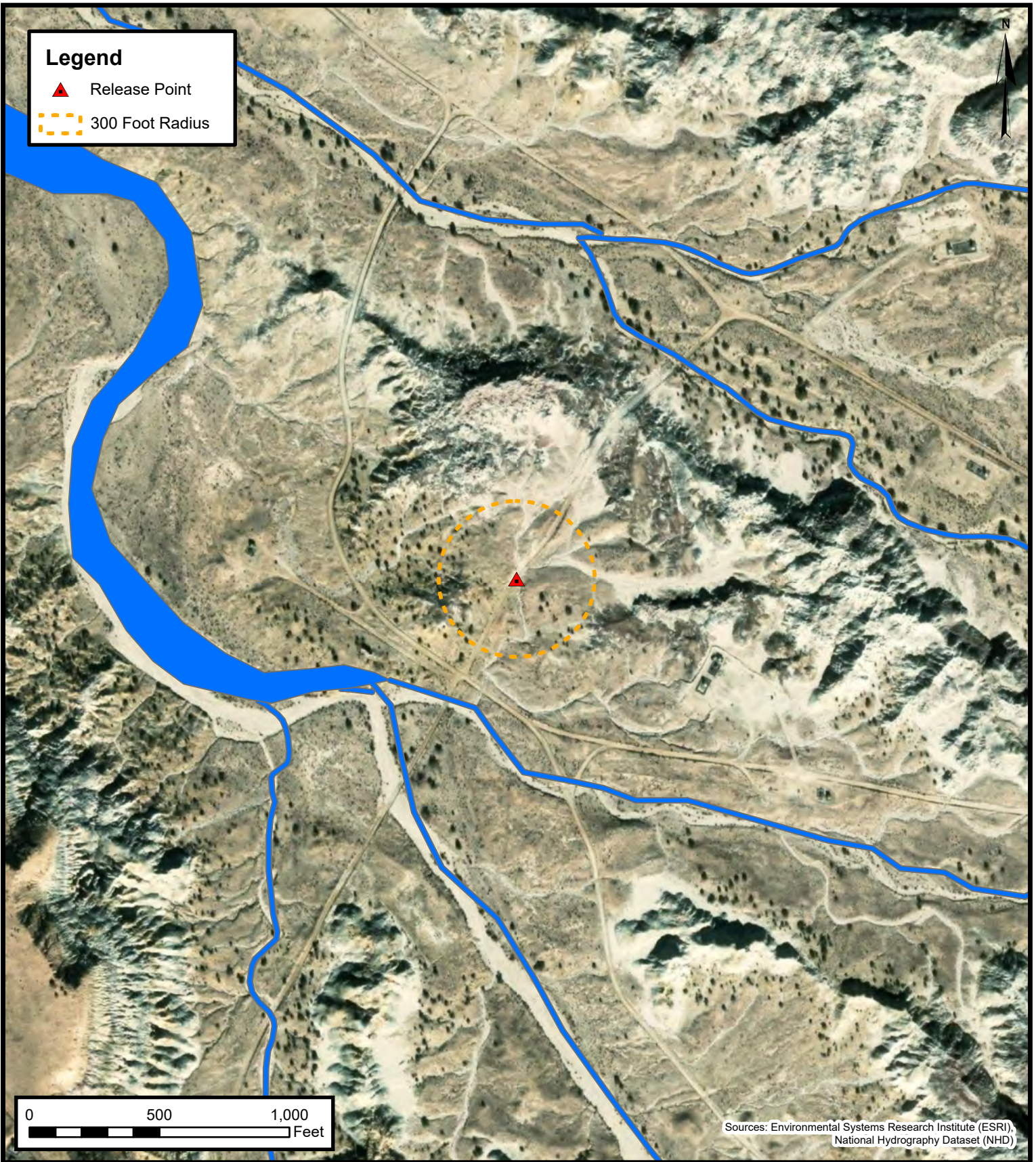
Project Number: 05A1226232

Unit Letter I, S21 T27N R10W, San Juan County, New Mexico
36.557716, -107.892107

FIGURE

C

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300 Foot Radius Occupied Structure Identification

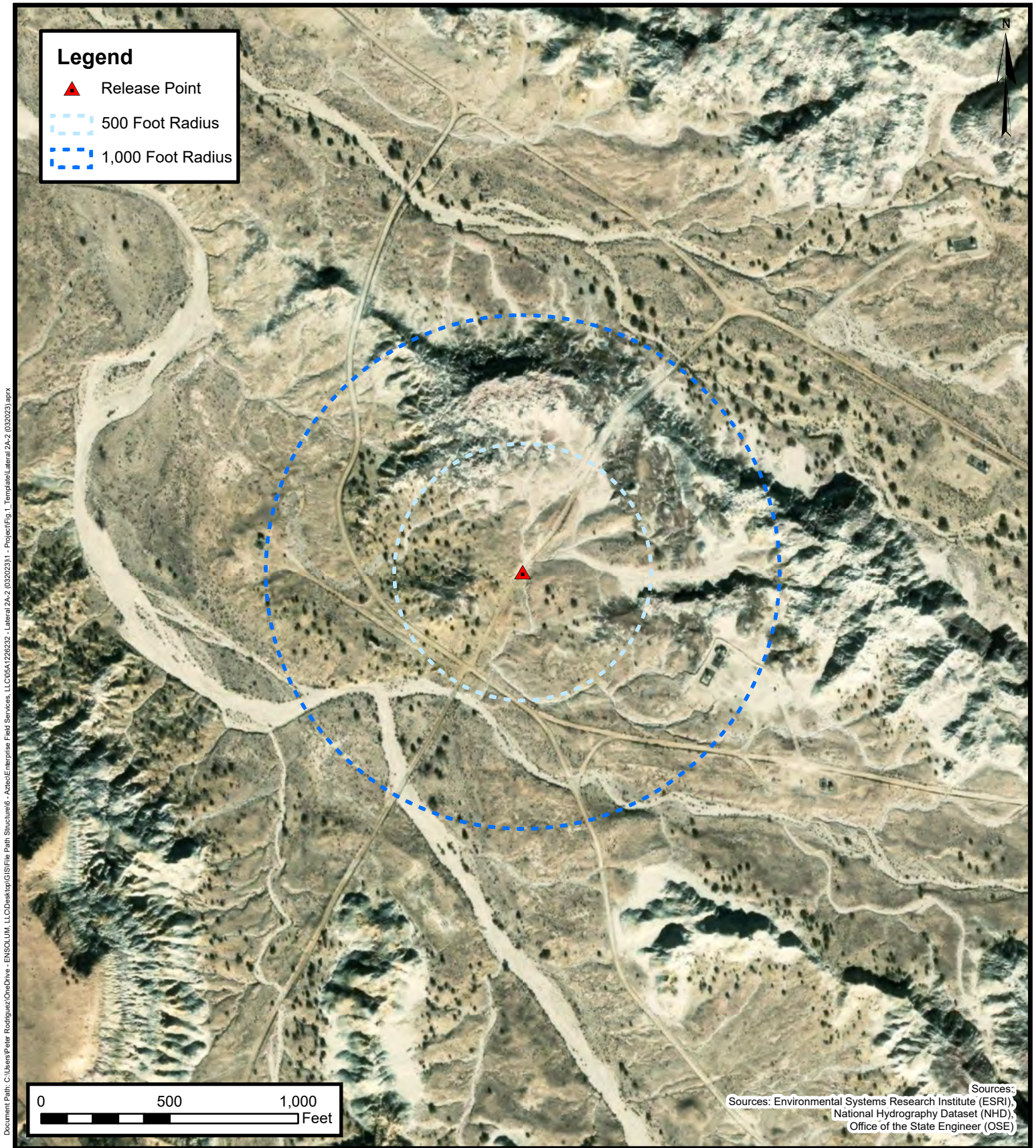
Enterprise Field Services, LLC

Lateral 2A-2 (03/20/23)

Project Number: 05A1226232

Unit Letter I, S21 T27N R10W, San Juan County, New Mexico
36.557716, -107.892107

FIGURE
D



Water Well and Natural Spring Location

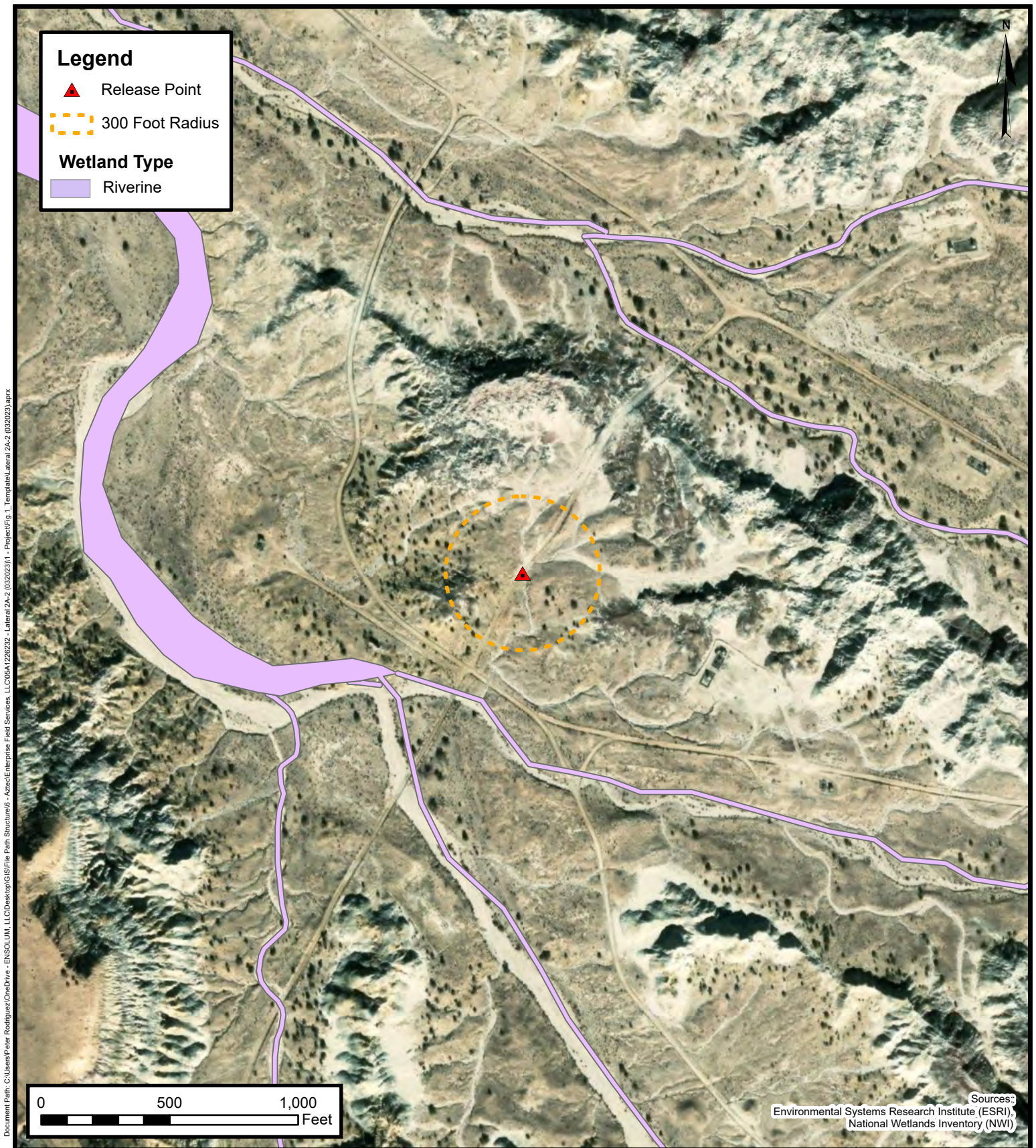
Enterprise Field Services, LLC

Lateral 2A-2 (03/20/23)

Project Number: 05A1226232

Unit Letter I, S21 T27N R10W, San Juan County, New Mexico
36.557716, -107.892107

**FIGURE
E**



Wetlands

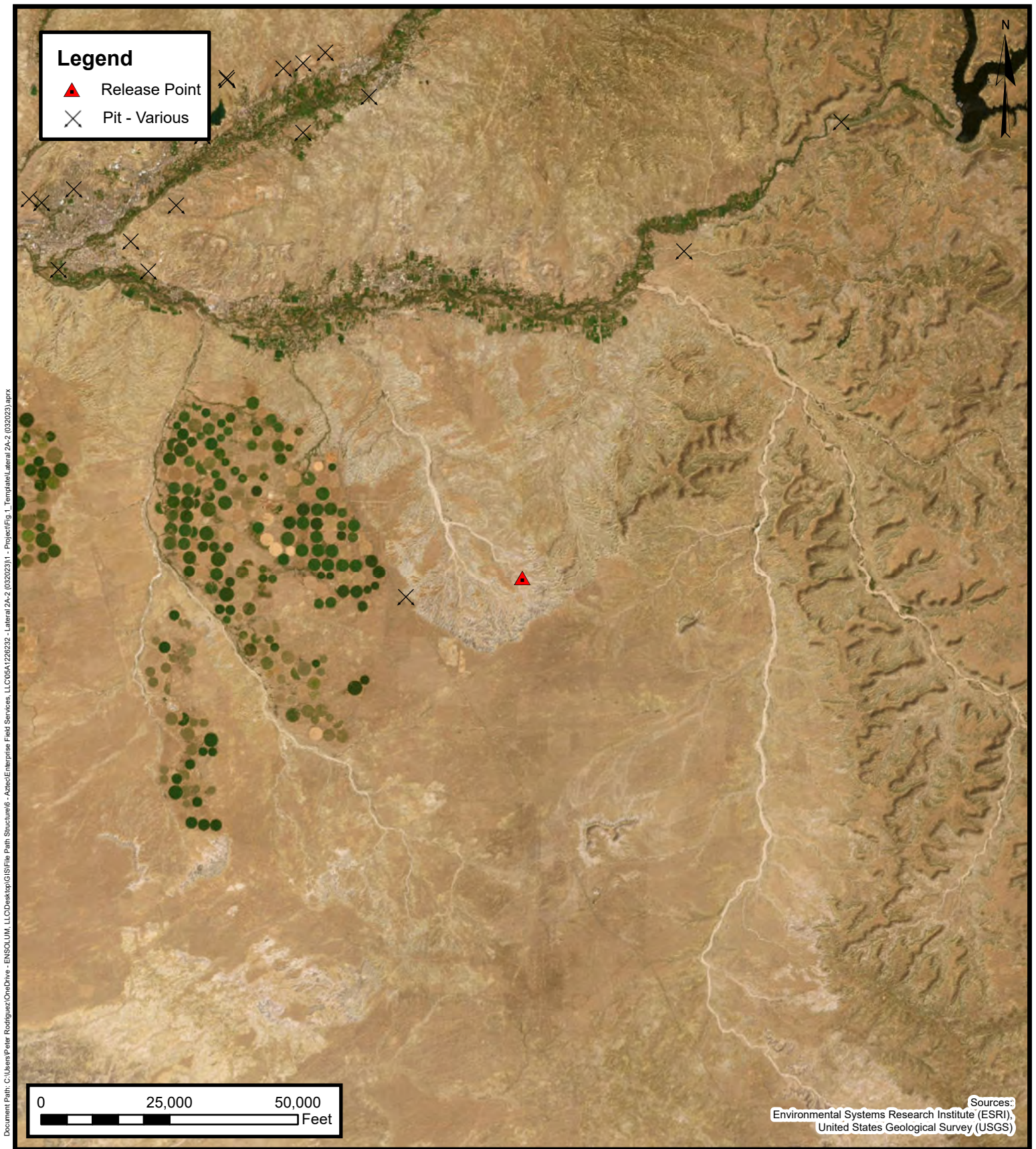
Enterprise Field Services, LLC
Lateral 2A-2 (03/2023)

Project Number: 05A1226232

Unit Letter I, S21 T27N R10W, San Juan County, New Mexico
36.557716, -107.892107

FIGURE

F



Mines, Mills, and Quarries

Enterprise Field Services, LLC

Lateral 2A-2 (03/20/23)

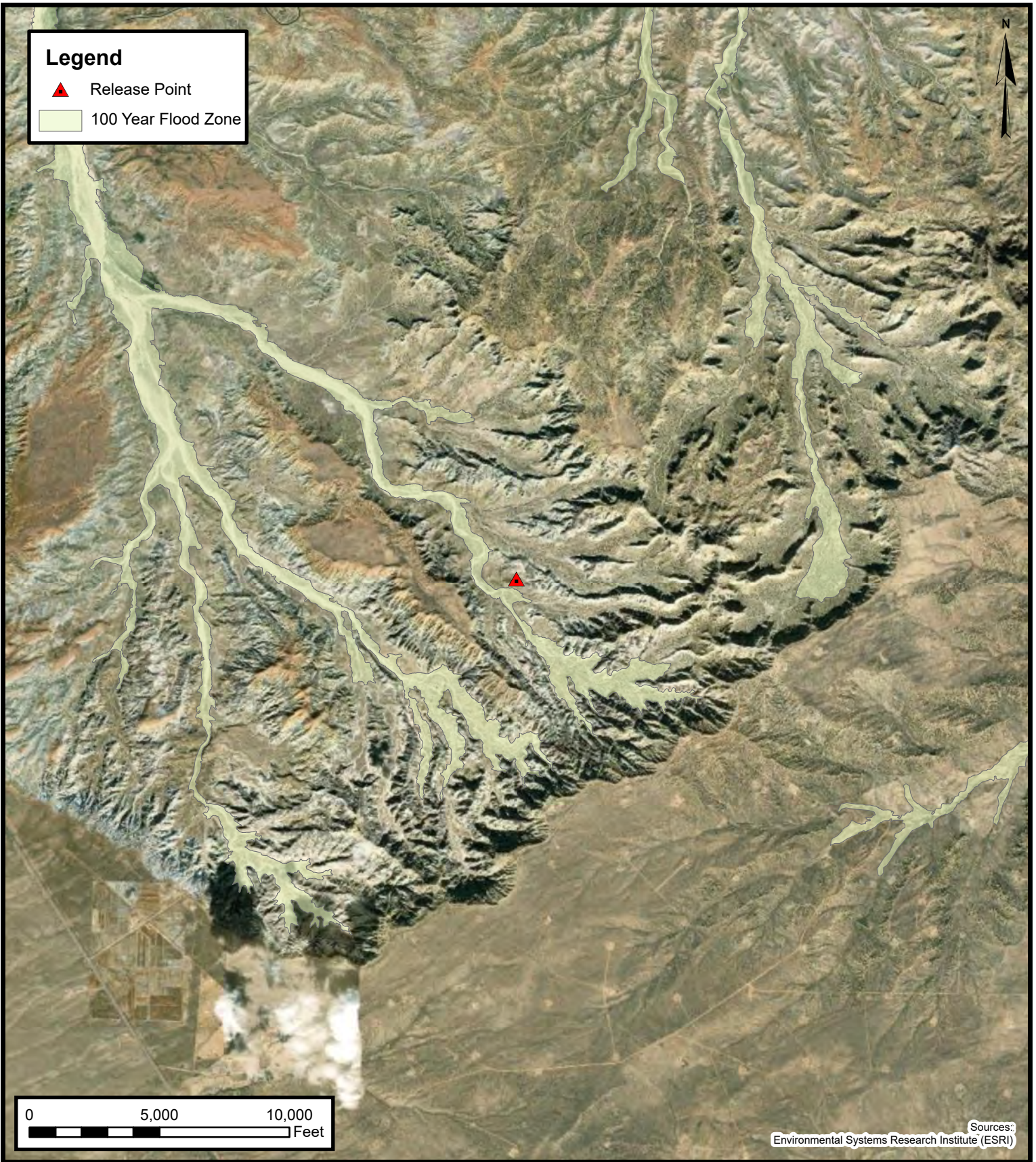
Project Number: 05A1226232

Unit Letter I, S21 T27N R10W, San Juan County, New Mexico
36.557716, -107.892107

FIGURE

G

Document Path: C:\Users\Peter.Rodriguez\OneDrive - ENSOLUM, LLC\Desktop\GIS\File Path Structure6 - Article\Enterprise Field Services, LLC\05A1226232 - Lateral 2A-2 (03/20/23)\1 - Project\Fig 1_Template\Lateral 2A-2 (03/20/23).aprx



100-Year Flood Plain Map

Enterprise Field Services, LLC

Lateral 2A-2 (03/20/23)

Project Number: 05A1226232

Unit Letter I, S21 T27N R10W, San Juan County, New Mexico
36.557716, -107.892107

FIGURE

H



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

No records found.

PLSS Search:

Section(s): 21, 15, 16, 17,
20, 22, 27, 28,
29 **Township:** 27N **Range:** 10W

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

4/25/23 9:07 AM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER

#2 30-045-06366

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICOOperator Meridian Oil Co. Location: Unit I Sec. 21 Twp 27 Rng 10

Name of Well/Wells or Pipeline Serviced _____

JOHNSON #2Elevation 609' Completion Date 2-20-93 Total Depth 367' Land Type FCasing Strings, Sizes, Types & Depths 2 1/2 Set 98' of 8" PVC CASING.NO GAS, WATER, OR BOULDERS WERE ENCOUNTERED DURING CASING.If Casing Strings are cemented, show amounts & types used CementedWITH 21 SACKS.

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. 120' Fresh waterDepths gas encountered: NoneGround bed depth with type & amount of coke breeze used: 367' 50 SACKSDS LoreSCO Type SW① 335 ② 320 ③ 310 ④ 300 ⑤ 290 ⑥ 280 ⑦ 270 ⑧ 225 ⑨ 215Depths anodes placed: ⑩ 205 ⑪ 195 ⑫ 185 ⑬ 175 ⑭ 165 ⑮ 145Depths vent pipes placed: 367'Vent pipe perforations: Bottom 260'

Remarks: _____

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JAN 31 1994

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.

API WATER ANALYSIS REPORT FORM

Laboratory No. 25-930315-4

Company MERIDIAN OIL		Sample No.		Date Sampled 2-20-93	
Field 2405W		Legal Description I-21-27-10		County or Parish San Juan	
Lease or Unit		Well JOHNSON #2		Depth	
Type of Water (Produced, Supply, etc.)		Sampling Point Ground Bed		Sampled By K. Bishop	

DISSOLVED SOLIDS

CATIONS

	mg/l	me/l
Sodium, Na (calc.)	400	17
Calcium, Ca	6	0.3
Magnesium, Mg		
Barium, Ba		

OTHER PROPERTIES

pH	9.35
Specific Gravity, 60/60 F.	1.0033
Resistivity (ohm-meters) 72 F.	7.0

Total Dissolved Solids (calc.)

1,270

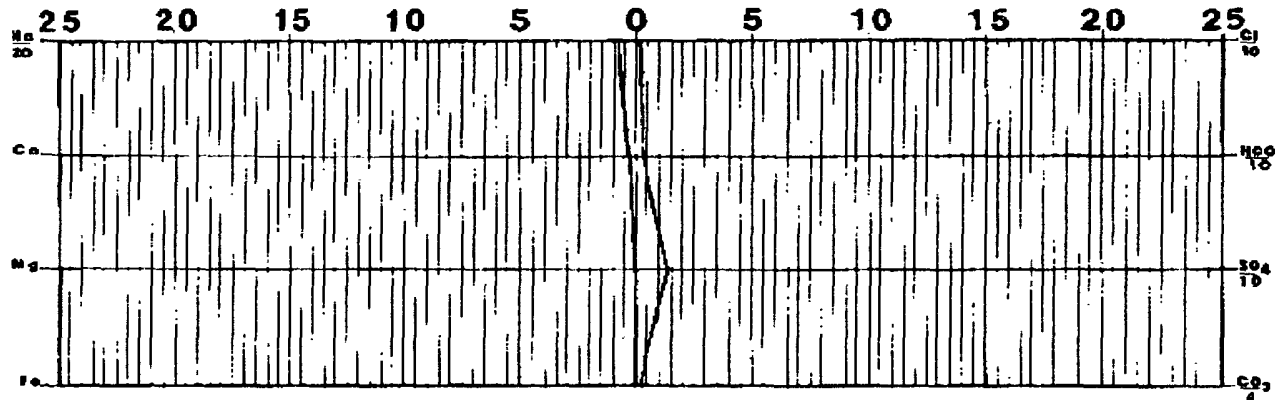
ANIONS

Chloride, Cl	25	0.7
Sulfate, SO_4	643	13.4
Carbonate, CO_3	24	0.6
Bicarbonate, HCO_3	170	2.8

Iron, Fe (total)
Sulfide, as H_2S

REMARKS & RECOMMENDATIONS:

ATTN: BILL DONAHUE



Date Received March 16th, 1993	Preserved	Date Analyzed March 19th, 1993	Analyzed By R.H.
--	-----------	--	----------------------------



TECH, Inc.
 333 East Main
 Farmington
 New Mexico
 87401
 505/327-3311

Mar 21, 93 16:02 No.001 P.04

TEL No.5053253311

BRIONES LAW FIRM

#5 → 30-045-06491
#155 → 30-045-27278

3777

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICOOperator Meridian Oil Co Location: Unit K Sec. 17 Twp 27 Rng 10

Name of Well/Wells or Pipeline Serviced _____

Rowley #155 and #5Elevation _____ Completion Date 2-17-93 Total Depth 412' Land Type FCasing Strings, Sizes, Types & Depths 2 1/2 SET 99 OF 8" PVC CASING.NO GAS, WATER, OR BOULDERS WERE ENCOUNTERED DURING CASING.If Casing Strings are cemented, show amounts & types used CementedWITH 22 SACKS.

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

no plugs

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

Salty, Sulphur, Etc. 180' and 260' both zones were
clear.Depths gas encountered: no gasGround bed depth with type & amount of coke breeze used: 412' with
60 (100 lb) sacks of Loresco S.W.Depths anodes placed: #1 at 380' and #15 at 180'Depths vent pipes placed: Bottom to SurfaceVent pipe perforations: up to 180'

Remarks: _____

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OIL CON. DIV.
DIST.

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.



LABORATORY REPORT
OIL-FIELD WATER ANALYSIS

TECH, Inc.
333 East Main
Farmington
New Mexico
8/401
505/327-3311

Lab Number: 25930310-01 *2447W* Date Sampled: 02-17-93
Client: Meridian Oil Date Received: 03-15-93
Sample ID: Rowley #135 Groundbed Date Analyzed: 03-15-93
Location: K17-27-10 Date Reported: 03-18-93

DISSOLVED SOLIDS:	me/L	mg/L	Detection Limit, mg/L
Calcium, Ca++	4.7	95	1.0
Magnesium, Mg++	0.2	2	1.0
Sodium, Na+ (calc)	ND	ND	10.0
Chloride, Cl-	0.4	13	2.0
Sulfate, SO4--	1.4	68	3.0
Bicarbonate, HCO3-	1.0	61	3.0
Carbonate, CO3--	2.0	60	1.0
Hydroxide, OH-	ND	ND	1.0
Total Dissolved Solids (calculated):		295	10.0

OTHER PROPERTIES:

pH (units): 8.3
resistivity (ohm-meters): 6.2
specific gravity at 60F: 1.0052
room temperature (F): 72

ND = Not Detected at the stated detection limit

Comments: Fruitland Coal
San Juan County, New Mexico
Sampled by R. Smith

Methods: American Petroleum Institute, "Recommended Practice
for Analysis of Oil-Field Waters," 2nd edition.

Leila Leila
analyst



LABORATORY REPORT
OIL-FIELD WATER ANALYSIS

TECH, Inc.
333 East Main
Farmington
New Mexico
87401
505/327-3311

Lab Number: 25930315-01
Client: Meridian Oil *244760*
Sample ID: Rowley #155 Groundbed
Location: K17-27-10
Date Sampled: 02-17-93
Date Received: 03-15-93
Date Analyzed: 03-15-93
Date Reported: 03-18-93

DISSOLVED SOLIDS:	me/L	mg/L	Detection Limit, mg/L
Calcium, Ca++	4.7	95	1.0
Magnesium, Mg++	0.2	2	1.0
Sodium, Na+ (calc)	ND	ND	10.0
Chloride, Cl-	0.4	13	2.0
Sulfate, SO4--	1.4	68	5.0
Bicarbonate, HCO3-	1.0	61	5.0
Carbonate, CO3--	2.0	60	1.0
Hydroxide, OH-	ND	ND	1.0
Total Dissolved Solids (calculated):		295	10.0

OTHER PROPERTIES:

pH (units): 8.3
resistivity (ohm-meters): 6.2
specific gravity at 60F: 1.0052
room temperature (F): 72

ND = Not Detected at the stated detection limit

Comments: Fruitland Coal
San Juan County, New Mexico
Sampled by R. Smith

Methods: American Petroleum Institute, "Recommended Practice
for Analysis of Oil-Field Waters;" 2nd edition.

Leif Lefler
analyst

30-045-13472

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICOOperator Meridian Oil Inc. Location: Unit I Sec. 17 Twp 27 Rng 10

Name of Well/Wells or Pipeline Serviced _____

Pipkin #7Elevation 5965 Completion Date 9/23/93 Total Depth 436' Land Type FCasing Strings, Sizes, Types & Depths 6/29 Set 60' of 8" PVC Casing.No Gas, Water, or Boulders were Encountered During Casing.If Casing Strings are cemented, show amounts & types used Cemented
With 19 Sacks.If Cement or Bentonite Plugs have been placed, show depths & amounts used
NONEDepths & thickness of water zones with description of water: Fresh, Clear,
Salty, Sulphur, Etc. HIT FRESH WATER AT 65' A WATER
SAMPLE WAS TAKEN.Depths gas encountered: NONEGround bed depth with type & amount of coke breeze used: 436' Depth
Used 123 Sacks of Asbury 218R (6150#)Depths anodes placed: 405', 373', 363', 355', 348', 341', 333', 326', 205', 195', 183', 175', 165', 155', + 145'Depths vent pipes placed: SURFACE TO 436'Vent pipe perforations: BOTTOM 320'

Remarks: _____

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JAN 31 1994

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.

3717

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

30-045-06368

Operator Meridian Oil Co. Location: Unit I Sec. 20 Twp 27 Rng 10

Name of Well/Wells or Pipeline Serviced _____

Mc Adams #4Elevation 6242 Completion Date 2-8-93 Total Depth 395 Land Type FCasing Strings, Sizes, Types & Depths 2 1/6 SET 100' OF 8" PVC CASINGNO GAS, WATER, OR BOULDERS WERE ENCOUNTERED DURING CASINGIf Casing Strings are cemented, show amounts & types used CementedWITH 21 SACKS

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

No plugs

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

Salty, Sulphur, Etc. 180 and 275' both zones clearDepths gas encountered: No gasGround bed depth with type & amount of coke breeze used: 395' with 57 (10016) sacks of Loresco S.W.Depths anodes placed: #1 at 375' and #15 at 205'Depths vent pipes placed: Bottom to surfaceVent pipe perforations: up to 160'

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.



LABORATORY REPORT
OIL-FIELD WATER ANALYSIS

TECH, Inc.
333 East Main
Farmington
New Mexico
87401
505/327-3311

Lab Number: 25930315-03 *2461W*
Client: Meridian Oil
Sample ID: McAdams #4 groundbed
Location: F20-27-10

Date Sampled: 02-18-93
Date Received: 03-15-93
Date Analyzed: 03-15-93
Date Reported: 03-18-93

DISSOLVED SOLIDS:	me/L	mg/L	Detection Limit, mg/L
Calcium, Ca++	5.8	116	1.0
Magnesium, Mg++	0.2	2	1.0
Sodium, Na+ (calc)	15.7	360	5.0
Chloride, Cl-	0.4	14	2.0
Sulfate, SO4--	18.0	866	5.0
Bicarbonate, HCO3--	2.8	171	5.0
Carbonate, CO3--	0.4	12	1.0
Hydroxide, OH-	0.0	0	1.0
Total Dissolved Solids (calculated):		1,540	10.0

OTHER PROPERTIES:

pH (units): 8.2
resistivity (ohm-meters): 4.8
specific gravity at 60F: 1.0059
room temperature (F): 72

ND = Not Detected at the stated detection limit

Comments: Fruitland Coal
San Juan County, New Mexico
Sampled by R. Smith

Methods: American Petroleum Institute, "Recommended Practice
for Analysis of Oil-Field Waters;" 2nd edition.

Stacy Larson
analyst

LABORATORY REPORT
OIL-FIELD WATER ANALYSISTECH, Inc.
333 East Main
Farmington
New Mexico
87401
505/327-3311Lab Number: 25930315-03
Client: Meridian Oil 2461 W
Sample ID: McAdams #4 groundbed
Location: F20-27-10Date Sampled: 02-18-93
Date Received: 03-15-93
Date Analyzed: 03-15-93
Date Reported: 03-18-93

DISSOLVED SOLIDS:

	me/L	mg/L	Detection Limit, mg/L
Calcium, Ca++	5.8	116	1.0
Magnesium, Mg++	0.2	2	1.0
Sodium, Na+ (calc)	15.7	360	5.0
Chloride, Cl-	0.4	14	2.0
Sulfate, SO4--	18.0	866	5.0
Bicarbonate, HCO3-	2.8	171	5.0
Carbonate, CO3--	0.4	12	1.0
Hydroxide, OH-	0.0	0	1.0
Total Dissolved Solids (calculated):		1,540	10.0

OTHER PROPERTIES:

pH (units): 8.2
resistivity (ohm-meters): 4.8
specific gravity at 60F: 1.0059
room temperature (F): 72

ND = Not Detected at the stated detection limit

Comments: Fruitland Coal
San Juan County, New Mexico
Sampled by R. SmithMethods: American Petroleum Institute, "Recommended Practice
for Analysis of Oil-Field Waters;" 2nd edition.
analyst

#501 30-045-28518

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICOOperator Meridian Oil Co Location: Unit N Sec. 20 Twp 27 Rng 10

Name of Well/Wells or Pipeline Serviced _____

Rowley #501Elevation _____ Completion Date 2-18-93 Total Depth 373' Land Type FCasing Strings, Sizes, Types & Depths 2 1/2 SET 99' OF 8" PVC CASING.NO GAS, WATER, OR BOULDERS WERE ENCOUNTERED DURING CASING.If Casing Strings are cemented, show amounts & types used CementedWITH 21 SACKS.

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

N/ADepths & thickness of water zones with description of water: Fresh, Clear,
Salty, Sulphur, Etc. 130' freshDepths gas encountered: NONEGround bed depth with type & amount of coke breeze used: 373' 51 SACKSof LorescoDepths anodes placed: (1) 350 (2) 343 (3) 335 (4) 327 (5) 320 (6) 314 (7) 305 (8) 275 (9) 180
(10) 170 (11) 150 (12) 140 (13) 133 (14) 125 (15) 118Depths vent pipes placed: 373'Vent pipe perforations: Bottom 250'

Remarks: _____

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JAN 31 1994

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.



LABORATORY REPORT
OIL-FIELD WATER ANALYSIS

TECH, Inc
333 East Main
Farmington
New Mexico
87401
505/327-3311

Lab Number: 930220-4	Date Sampled: 02-18-93
Client: Meridian Oil	Date Received: 02-20-93
Sample ID: Rowley #501	Date Analysed: 02-20-93
Location: N20-27-10	Date Reported: 02-21-93

DISSOLVED SOLIDS:	me/L	mg/L	Detection Limit, mg/L
Calcium, Ca ⁺⁺	2.2	43.3	1.0
Magnesium, Mg ⁺⁺	0.2	2.0	1.0
Sodium, Na ⁺ (calc)	86.7	2,000	5.0
Chloride, Cl ⁻	0.2	7.8	2.0
Sulfate, SO ₄ ⁻⁻	87.8	4,220	5.0
Bicarbonate, HCO ₃ ⁻	0.8	48.8	5.0
Carbonate, CO ₃ ⁻⁻	0.4	12.0	1.0
Hydroxide, OH ⁻	ND	ND	1.0
Total Dissolved Solids (calculated):		6,330	10.0

OTHER PROPERTIES:

pH (units): 8.7
 resistivity (ohm-meters): 6.2
 specific gravity at 60F: 1.0039
 room temperature (F): 72

ND = Not Detected at the stated detection limit

Methods: American Petroleum Institute, "Recommended Practice
for Analysis of Oil-Field Waters;" 2nd edition.

Comments: DK, DK, PC; SJ, NM; Groundbed
Sampled by K. Bishop

Debra L. Bishop
analyst

3725

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICOOperator Meridian Oil Inc. Location: Unit A Sec. 28 Twp 27 Rng 10

Name of Well/Wells or Pipeline Serviced _____

Mc Adams #500 30-045-28932Elevation _____ Completion Date _____ Total Depth _____ Land Type FCasing Strings, Sizes, Types & Depths 8 1/2" Set 58' of 8" PVC Casing.NO GAS, WATER, OR BOULDERS WERE ENCOUNTERED DURING CASING.If Casing Strings are cemented, show amounts & types used CementedWITH 14 SACKS.

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

NODepths & thickness of water zones with description of water: Fresh, Clear,
Salty, Sulphur, Etc. FRESH WATER 100'Depths gas encountered: NOGround bed depth with type & amount of coke breeze used: 362' deepwith 5300 lbs Ashbury 218 R Flo CokeDepths anodes placed: 310, 300, 290, 278, 269, 260, 251, 242, 233, 224, 200, 191, 182, 173, 115Depths vent pipes placed: 362'Vent pipe perforations: bottom 280

Remarks: _____

RECEIVED

JAN 31 1994

OIL CON. DIV.
DIST. 8

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.

1055

105-30-045-06210

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. 29 Twp 27 Rng 10Name of Well/Wells or Pipeline Serviced HUERFANO UNIT #105

cps 1736w

Elevation 6054' Completion Date 11/14/84 Total Depth 200' Land Type* N/ACasing, Sizes, Types & Depths N/AIf Casing is cemented, show amounts & types used N/AIf 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. 40' SAMPLE TAKENDepths gas encountered: N/AType & amount of coke breeze used: 1970 lbs.Depths anodes placed: 185', 170', 155', 140', 125', 110', 100', 90', 80', 58'Depths vent pipes placed: 200'Vent pipe perforations: 180'Remarks: /gb #1

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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 LOGDrilling Log (Attach Hereto) ☒

Completion Date: 11-14

CPS #	Well Name, Line or Plant:	Work Order #	Static	Ins. Union Check
1736-W	Huertano # 105	53658-19-50-20	RP = .82 600' N	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Bad
Location:	Anode Size:	Anode Type:	Size Bit:	
SE29-27-10	2" X 60"	Duriron	6 3/4	
Depth Drilled	Depth Logged	Drilling Rig Time	Total Lbs. Coke Used	Lost Circulation Mat'l Used
200	197		1,970	
Anode Depth				
# 1 185	# 2 170	# 3 155	# 4 140	# 5 125
# 6 110	# 7 100	# 8 90	# 9 80	# 10 58
Anode Output (Amps)				
# 1 4.44	# 2 4.93	# 3 4.75	# 4 4.95	# 5 5.15
# 6 5.06	# 7 5.42	# 8 5.00	# 9 4.45	# 10 4.80
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 20.0	Ohms .60		

Remarks: Drilled to 40' + found water. Blew water from hole next morning found good shale from 40' to bottom of hole. Estimated to make 29 PM. Installed 200' of 1" P.V.C vent Pipe, 280' with perforation slurred approx. 1,970 lbs Coke down hole. Caught water sample.

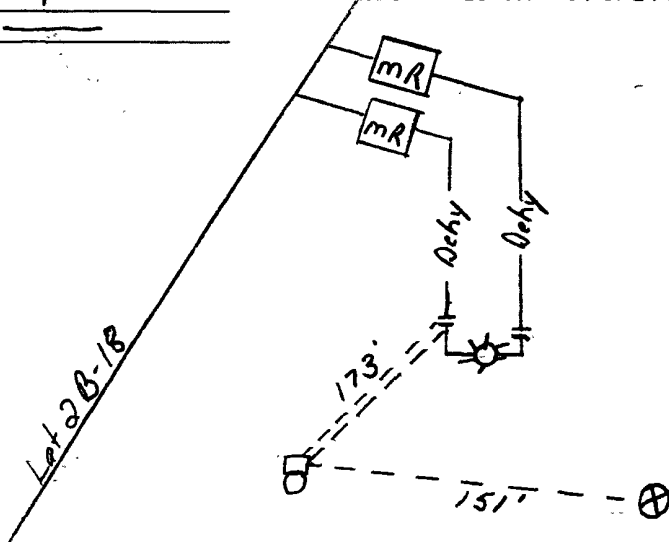
Rectifier Size: 40 V 16 A
 Addn'l Depth: _____
 Depth Credit: 303 ✓
 Extra Cable: 193 ✓
 Ditch & 1 Cable: 324 ✓
 25' Meter Pole: _____
 20' Meter Pole: 1
 10' Stub Pole: _____

Req Time = 8
 O.T. = 0

All Construction Completed

C. W. Donohue
 (Signature)

GROUND BED LAYOUT SKETCH



6054

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

ANALYSIS NO.: 1-11504
OPERATOR: EL PASO NATURAL GAS
LOCATION: 19-27-10
FIELD: ANGEL PEAK
SAMPLED FROM: 40 FEET
DATE SAMPLED: NOVEMBER 14, 1984
TUBING PRESSURE:
SURFACE CASING PRESSURE:

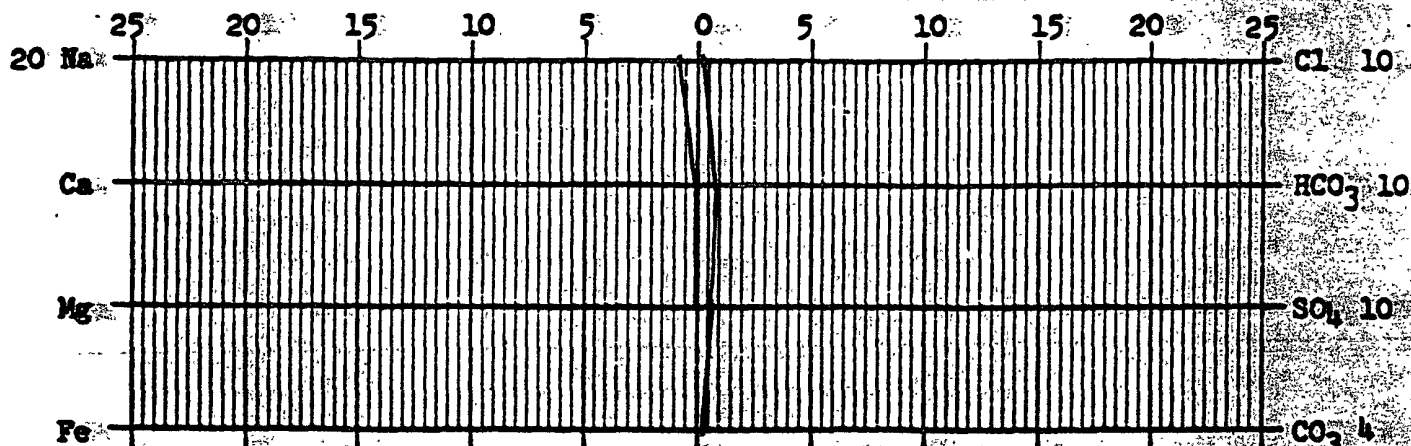
DATE: DECEMBER 5, 1984
WELL NAME: HUERFANO #105 CFS
COUNTY SAN JUAN STATE: NEW MEXICO
FORMATION:
SECURED BY: BILL DONOHUE
CASING PRESSURE:

	SAMPLE SIZE	ml. TIT	AS CaCO ₃	AS ION	ep
TOTAL ALKALINITY	20	10.5	525		
P. ALKALINITY	20	.8	40		
BICARBONATE	20	8.9	445	543	8.
CARBONATE	20	1.6	80	48	1.
CHLORIDE	25	1.2		48	1.
SULFATE				320	6
TOTAL HARDNESS	25	0	0		
CALCIUM	25	0	0	0	0.
MAGNESIUM	25	0	0	0	0.
IRON					
SODIUM (CALCULATED)				426	18.
H ₂ S					
HYDROCARBONS					
TOTAL DISSOLVED SOLIDS				1684	
pH				8.9	
SPECIFIC GRAVITY			AT 60F		
RESISTIVITY			OHM-CM AT 72		
CONDUCTIVITY			MICROMHOS @ 25C.		

ALL RESULTS EXPRESSED IN PARTS PER MILLION-TRACE IS LESS THAN 0.1 pp

CC: R. A. ULLMICH
J. D. EVANS
D. C. ADAMS
E. R. PAULEK
W. B. SHROPSHIRE
FILE

Gennis Bird
CHEMIST CCK



CPS #: 1736-u WELL NAME: Huertano #105 LOCATION: SE 29-27-10 DATE: 11-14-84

TOTAL VOLTS: 12.1 TOTAL AMPS: 20.0 OHMS RESISTANCE: .60

Readings 1099' to Thru 2400' Spool

												ANODE READINGS			
DEEP	LOG ANODE	ANODE NO.	DEEP	LOG ANODE	ANODE NO.	DEEP	LOG ANODE	ANODE NO.	DEEP	LOG ANODE	ANODE NO.	NO.	DEPTH	NO COKE	WITH COKE
5			185	2.08	⑩	365			545			①	185	2.90	4.44
10			190	1.92		370			550			②	170	2.95	4.93
15			197 195	TD		375			555			③	155	3.03	4.75
20			200			380			560			④	140	3.12	4.95
25			205			385			565			⑤	125	3.20	5.15
30			210			390			570			⑥	110	3.20	5.06
35			215			395			575			⑦	100	3.18	5.42
40	2.00		220			400			580			⑧	90	3.28	5.00
45	2.05		225			405			585			⑨	80	3.00	4.45
50	2.00		230			410			590			⑩	58	3.27	4.80
55	2.41		235			415			595						
60	2.09	10	240			420			600						
65	1.96		245			425			605						
70	1.70		250			430			610						
75	1.82		255			435			615						
80	2.09	⑨	260			440			620						
85	2.27		265			445			625						
90	2.28	⑧	270			450			630						
95	2.13		275			455			635						
100	2.21	⑦	280			460			640						
105	2.22		285			465			645						
110	2.22	⑥	290			470			650						
115	2.11		295			475			655						
120	2.21		300			480			660						
125	2.21	⑤	305			485			665						
130	1.97		310			490			670						
135	2.11		315			495			675						
140	2.17	④	320			500			680						
145	2.12		325			505			685						
150	2.08		330			510			690						
155	2.25	③	335			515			695						
160	2.08		340			520			700						
165	2.22		345			525			705						
170	2.12	②	350			530			710						
175	2.07		355			535			715						
180	1.95		360			540			720						

REMARKS: Drilled to 40' found water. Blew water from hole next morning. Found good shale from 40' to bottom of hole. Hole Est. used to make 29pm. Installed 200' of 1" p.v.c. vent pipe, 280' with perforations. Slurried approx. 1,970 lbs coke down hole.

DAILY DRILLING REPORT

CP51736-W Huerfano #105
LEASE WELL NO. CONTRACTOR CORR. CONTROL RIG NO. 102 REPORT NO. DATE NOV 14 1984

MORNING					DAYLIGHT					EVENING				
Driller: TERENCE LARGENT Men In Crew 3					Driller: Total Men In Crew					Driller: Total Men In Crew				
FROM	TO	FORMATION	WT-BIT	R.P.M.	FROM	TO	FORMATION	WT-BIT	R.P.M.	FROM	TO	FORMATION	WT-BIT	R.P.M.
0	20	SURFACE SAND												
20	40	SAND (WATER)												
40	60	SANDSTONE												
60	200	SANDY SHALE												

BIT NO.		NO. DC	SIZE	LENG.	BIT NO.		NO. DC	SIZE	LENG.	BIT NO.		NO. DC	SIZE	LENG.
SE L NO.		STANDS			SERIAL NO.		STANDS			SERIAL NO.		STANDS		
SIZE		SINGLES			TYPE		DOWN ON KELLY			TYPE		DOWN ON KELLY		
MAKE		TOTAL DEPTH			MAKE		TOTAL DEPTH			MAKE		TOTAL DEPTH		

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

FROM	TO	TIME BREAKDOWN	FROM	TO	TIME BREAKDOWN	FROM	TO	TIME BREAKDOWN

REMARKS -	REMARKS - DRILLED TO 40 FEET ON 11-13-84. BLEW WATER OUT HOLE DRILLED TO 200 FEET HOLE MAKING WATER. 1705 1705 GALLONS PER MINUTE.	REMARKS -

SIGNED: Toolpusher

Terence Largent

Company Supervisor

P. W. Donohue

1117

30-045-20818

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. 29 Twp 27 Rng 10Name of Well/Wells or Pipeline Serviced HUERFANO UNIT #217

cps 1743w

Elevation 6014' Completion Date 11/16/84 Total Depth 240' Land Type* N/ACasing, Sizes, Types & Depths N/AIf 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. 45'Depths gas encountered: N/AType & amount of coke breeze used: 2380 lbs.Depths anodes placed: 215', 205', 190', 180', 150', 125', 115', 105', 95', 80'Depths vent pipes placed: 240'Vent pipe perforations: 200'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

Drilling Log (Attach Hereto) ☒

Completion Date: 1-1-16-84

CPS #	Well Name, Line or Plant:	Work Order #	Static:	Ins. Union Check
1743-W	Huerfano 217	54860-19-50-20	RLC 94 600' N	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Bad 1.67amps+
Location	Anode Size:	Anode Type:	Size Bit:	
NE 29-27-10	2" X 60"	Duration	63/4	
Depth Drilled	Depth Logged	Drilling Rig Time	Total Lbs. Coke Used	Lost Circulation Mat'l Used
240	238		2,380 lbs	
Anode Depth				
# 1 215	# 2 205	# 3 190	# 4 180	# 5 150
# 6 125	# 7 115	# 8 105	# 9 95	# 10 80
Anode Output (Amps)				
# 1 4.40	# 2 4.65	# 3 4.50	# 4 4.62	# 5 4.40
# 6 4.56	# 7 4.67	# 8 4.60	# 9 4.72	# 10 4.66
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 18.3	Ohms .65		

Remarks: Drilled to 45' found water, Continued drilling finding shale & sandy shale to bottom of Hole. Installed 240' of 1" P.V.C vent pipe. 40' solid, 200' w. th perforations. Slurried approx 2,380 lbs Coke Down hole.

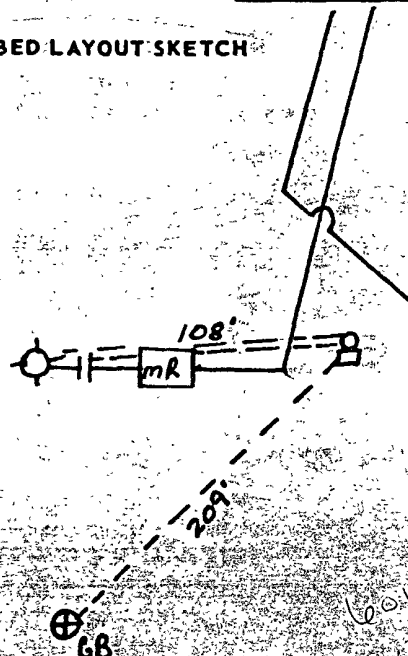
Rectifier Size: 40 V 16 A
 Addn'l Depth:
 Depth Credit: 262'
 Extra Cable: 128'
 Ditch & 1 Cable: 317'
 25' Meter Pole:
 20' Meter Pole: 1
 10' Stub Pole:

Req. Time = 8 hrs
 O.T. = 0 hrs

All Construction Completed

C. W. Donohue
 (Signature)

GROUND BED LAYOUT SKETCH



CPS #: 1743-W WELL NAME: Huerfano #217

LOCATION: NE 29-2710 DATE: 11-16-84

TOTAL VOLTS: 12.0

TOTAL AMPS: 18.3

OHMS RESISTANCE: .65

Readings 1099rd thru 2.300' spool

												ANODE READINGS			
DEEP	LOG	ANODE	DEEP	LOG	ANODE	DEEP	LOG	ANODE	DEEP	LOG	ANODE	NO.	DEPTH	NO	WITH
	ANODE	NO.		ANODE	NO.		ANODE	NO.		ANODE	NO.			COKE	COKE
5			185	2.01		365			545			1	215	2.70	4.40
10			190	1.81	✓ 3	370			550			2	205	2.71	4.65
15			195	1.77		375			555			3	190	2.71	4.50
20			200	1.84		380			560			4	180	2.72	4.62
25			205	1.84	✓ 2	385			565			5	150	2.69	4.40
30			210	2.07		390			570			6	125	2.76	4.56
35			215	1.90	✓ 1	395			575			7	115	2.77	4.67
40			220	1.66		400			580			8	105	2.77	4.60
45	.79		225	1.44		405			585			9	95	2.77	4.72
water 50	1.06		230	1.00		410			590			10	80	2.80	4.66
55	1.49		235			415			595						
60	1.96		Drilled 240	238		420			600						
65	1.87		245			425			605						
70	1.91		250			430			610						
75	1.93		255			435			615						
80	1.99	✓ 10	260			440			620						
85	1.97		265			445			625						
90	1.88		270			450			630						
95	1.93	✓ 9	275			455			635						
100	1.96		280			460			640						
105	1.92	✓ 8	285			465			645						
110	2.00		290			470			650						
115	1.92	✓ 7	295			475			655						
120	2.05		300			480			660						
125	1.81	✓ 6	305			485			665						
130	1.56		310			490			670						
135	1.30		315			495			675						
140	1.13		320			500			680						
145	1.72		325			505			685						
150	1.86	✓ 5	330			510			690						
155	1.84		335			515			695						
160	1.67		340			520			700						
165	1.34		345			525			705						
170	1.14		350			530			710						
175	1.69		355			535			715						
180	1.87	✓ 4	360			540			720						

REMARKS: Drilled to 45' found water, began Injection + Continued drilling finding shale + sandy shale to bottom of hole. Installed 240' of 1" PVC vent pipe with 200' perforated. Slurried approx 2,300 lbs coke down hole.

30-045-26373

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 L Sec. 29 Twp 27 Rng 10

Name of Well/Wells or Pipeline Serviced HUERFANO UNIT #105E
cps 1825

Elevation 6056' Completion Date 9/29/87 Total Depth 280' 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. 50' SAMPLE TAKEN

Depths gas encountered: N/A

Type & amount of coke breeze used: N/A

Depths anodes placed: 180', 170', 160', 150', 140', 130', 120', 110', 95', 85'

Depths vent pipes placed: 270'

Vent pipe perforations: 200'

Remarks: gb #1

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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 LOGDrilling Log (Attach Here) ☒Completion Date 9-29-87

CPS #	Well Name, Line or Plant:	Work Order #	State:	Ins. Union Check
1825-w	HUERFANO # 105-E		600' W = 80	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Bad
Location	Anode Size:	Anode Type:	Size Bit:	
L 29-27-10	2" x 60"	Duriron	6 3/4"	
Depth Drilled	Depth Logged	Drilling Rig Time	Total Lbs. Coke Used	Lost Circulation Mat'l Used
280'	265'			
Anode Depth				
# 1 180'	# 2 170'	# 3 160'	# 4 150'	# 5 140'
# 6 130'	# 7 120'	# 8 110'	# 9 95'	# 10 85'
Anode Output (Amps)				
# 1 5.8	# 2 6.7	# 3 6.6	# 4 6.9	# 5 5.9
# 6 6.2	# 7 6.0	# 8 6.2	# 9 5.8	# 10 5.8
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 11.7	Amps 20.2	Ohms .51	ELEVATION = 6056'	

Remarks: DRILLED TO 280'; LOGGED 265'. DRILLER SAID WATER AT 50' CAUGHT SAMPLE. INSTALLED 270' OF 1" PVC VENT PIPE. PERFORATED BOTTOM 200'

Rectifier Size: 40v 16 A
 Addn'l Depth: _____
 Depth Credit: 235' ✓
 Extra Cable: 30' ✓
 Ditch & 1 Cable: 20' ✓
 Ditch & 2 Cable: 115'
 25' Meter Pole: _____
 30' Meter Pole: 1
 30' Stop Pole: _____
 Location Box: 1

4300.00
 - 940.00 ✓
 7.50 ✓
 7.80 ✓
 59.80 ✓

295.50

40.00

3770.10

186.50

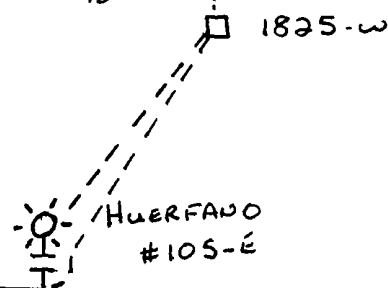
3956.60

R .579

All Construction Completed

M. J. Williams

GROUND BED (Signature)



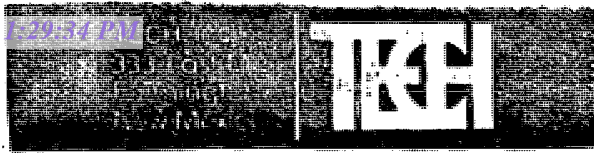
Waste

DEEP WELL GROUND BED LOG

Date 9-29-87

Well No. H. #105-E Location L-29-27-10 Volts Applied 11.7 Amperes 20.

Released to Imaging: 6/13/2023 8:51:44 AM



CPS 1825W

API WATER ANALYSIS REPORT FORM

Company <u>MERIDIAN OIL CO.</u>		Sample No. <u>1</u>		Date Sampled <u>9/29/87</u>	
Field <u>Angel Peak</u>		Legal Description		County or Parish <u>San Juan</u>	State <u>NM</u>
Lease or Unit <u>Huerfano</u>	Well # <u>105 E</u>	Depth	Formation	Water, B/D	
Type of Water (Produced, Supply, etc.) <u>Ground Red</u>		Sampling Point <u>50</u>		Sampled By <u>MW</u>	

DISSOLVED SOLIDS

CATIONS

	mg/l	me/l
Sodium, Na (calc.)	<u>7860</u>	<u>342</u>
Calcium, Ca	<u>573</u>	<u>28.6</u>
Magnesium, Mg	<u>72.9</u>	<u>6.0</u>
Barium, Ba		

OTHER PROPERTIES

pH	<u>8.17</u>
Specific Gravity, 60/60 F.	<u>1.0198</u>
Resistivity (ohm-meters)	<u>72 F.</u>
conductivity	<u>16000 uMHOs</u>

Total Dissolved Solids (calc.)

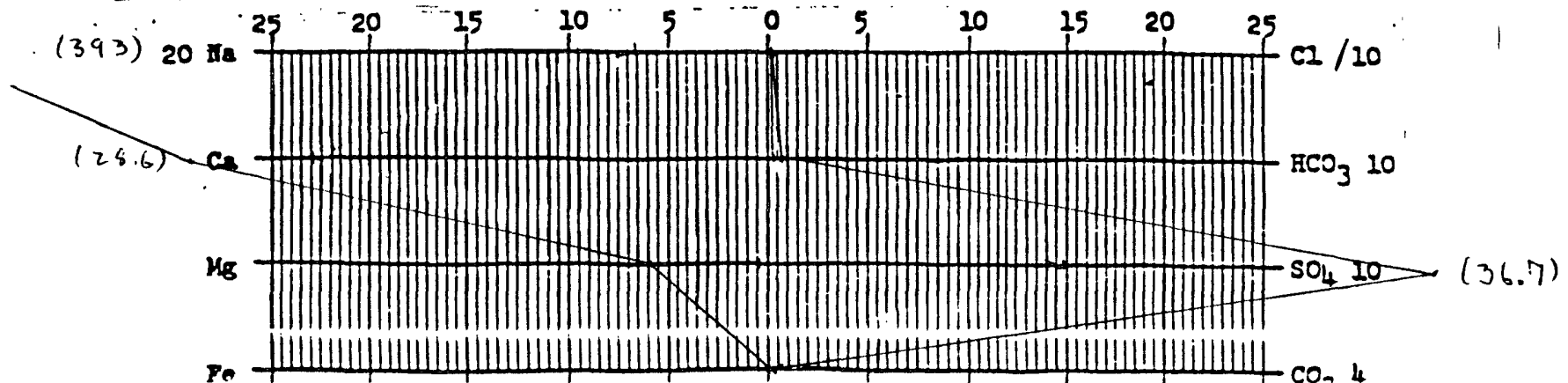
26600

ANIONS

Chloride, Cl	<u>78</u>	<u>2.0</u>
Sulfate, SO ₄	<u>17600</u>	<u>36.7</u>
Carbonate, CO ₃		
Bicarbonate, HCO ₃	<u>408</u>	<u>7.0</u>

 Iron, Fe (total)
 Sulfide, as H₂S

REMARKS & RECOMMENDATIONS:



BURGE CORROSION SYSTEMS, INC.

**P.O. BOX 1359 - PHONE 334-6141
AZTEC, NEW MEXICO 87410**

CPS 1825W

COMPANY Meridian DAILY DRILLING REPORT 9-20 1987

WELL NAME:	WELL NUMBER:	SECTION:	TOWNSHIP:	RANGE:
Hyer farm	1055	29	27	10

WATER AT: 40-60 ft	FEET:	HOLE MADE: 6 3/4 280 ft.
-----------------------	-------	-----------------------------

DESCRIPTION OF FORMATION

[illegible]

REMARKS: water sample at 40 ft

Sanf Burton

Driller

Tool Dresser

30-045-0633Z

3660

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICOOperator Meridian Oil Co. Location: Unit M Sec. 22 Twp 27 Rng 10

Name of Well/Wells or Pipeline Serviced _____

Gordon #5Elevation 6131 Completion Date 2/21/92 Total Depth 374' Land Type FCasing Strings, Sizes, Types & Depths 2 1/2 SET 98' OF 8" PVC CASING.NO GAS, WATER, OR BOULDERS WERE ENCOUNTERED DURING CASING.If Casing Strings are cemented, show amounts & types used CementedWITH 21 SACKS.

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. 115' FreshDepths gas encountered: NoneGround bed depth with type & amount of coke breeze used: 374' 51 SACKSOF Luresco type SWDepths anodes placed: 355, 345, 335, 325, 315, 305, 295, 285, 245, 235, 225, 217, 210, 203, 175Depths vent pipes placed: 374'Vent pipe perforations: Bottom 259'

Remarks: _____

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JAN 31 1994
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.



LABORATORY REPORT
OIL-FIELD WATER ANALYSIS

TECH, Inc.
333 East Main
Farmington
New Mexico
87401
505/327-3311

Lab Number: 28930315-05
Client: Meridian Oil
Sample ID: Gordon #5 groundbed
Location: M22-27-10

2389W

Date Sampled: 02-21-93
Date Received: 03-15-93
Date Analyzed: 03-15-93
Date Reported: 03-18-93

DISSOLVED SOLIDS:

	mg/L	mg/L	Detection Limit, mg/L
Calcium, Ca++	0.8	16	1.0
Magnesium, Mg++	0.1	2	1.0
Sodium, Na+ (calc)	25.7	591	5.0
Chloride, Cl-	0.4	13	2.0
Sulfate, SO4--	19.1	916	5.0
Bicarbonate, HCO3-	6.8	415	5.0
Carbonate, CO3--	0.4	12	1.0
Hydroxide, OH-	ND	ND	1.0
Total Dissolved Solids (calculated):		1.960	10.0

OTHER PROPERTIES:

pH (units): 8.5
resistivity (ohm-meters): 5.0
specific gravity at 60F: 1.0057
room temperature (F): 72

ND = Not Detected at the stated detection limit

Comments: San Juan County, New Mexico
Sampled by Keith Bishop

Methods: American Petroleum Institute, "Recommended Practice
for Analysis of Oil-Field Waters," 2nd edition.

Seh Pella
analyst



LABORATORY REPORT
OIL-FIELD WATER ANALYSIS

TECH, Inc.
333 East Main
Farmington
New Mexico
87401
505/327-3311

Lab Number: 25930315-05
Client: Meridian Oil *2389 W*
Sample ID: Gordon #5 groundbed
Location: M22-27-10

Date Sampled: 02-21-93
Date Received: 03-15-93
Date Analyzed: 03-15-93
Date Reported: 03-18-93

DISSOLVED SOLIDS:

	me/L	mg/L	Detection Limit, mg/L
Calcium, Ca++	0.8	16	1.0
Magnesium, Mg++	0.1	2	1.0
Sodium, Na+ (calc)	25.7	591	5.0
Chloride, Cl-	0.4	13	2.0
Sulfate, SO4--	19.1	916	5.0
Bicarbonate, HCO3-	6.8	415	5.0
Carbonate, CO3--	0.4	12	1.0
Hydroxide, OH-	ND	ND	1.0
Total Dissolved Solids (calculated):		1,960	10.0

OTHER PROPERTIES:

pH (units): 8.5
resistivity (ohm-meters): 5.0
specific gravity at 60F: 1.0057
room temperature (F): 72

ND = Not Detected at the stated detection limit

Comments: San Juan County, New Mexico
Sampled by Keith Bishop

Methods: American Petroleum Institute, "Recommended Practice
for Analysis of Oil-Field Waters;" 2nd edition.

Seh Pella
analyst

30-045-27512

3661

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICOOperator Meridian Oil Co. Location: Unit G Sec. 22 Twp 27 Rng 10

Name of Well/Wells or Pipeline Serviced _____

Gordon #500Elevation _____ Completion Date 2/22/93 Total Depth 389' Land Type FCasing Strings, Sizes, Types & Depths 2 1/2" SET 100' OF 8" PVC CASINGNO GAS, WATER, OR BOULDERS WERE ENCOUNTERED DURING CASINGIf Casing Strings are cemented, show amounts & types used CementedWITH 22 SACKS

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. 120' FreshDepths gas encountered: noneGround bed depth with type & amount of coke breeze used: 389'Depths anodes placed: 350, 340, 325, 318, 310, 300, 275, 185, 175, 165, 155, 145, 137, 125, 118Depths vent pipes placed: ~~389'~~ 389'Vent pipe perforations: Bottom 280'

Remarks: _____

RECEIVED

JAN 31 1994

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.



LABORATORY REPORT
OIL-FIELD WATER ANALYSIS

TECH, Inc.
333 East Main
Farmington
New Mexico
87401
505/327-3311

Lab Number: 25930315-07
Client: Meridian Oil
Sample ID: Gordon # 500
Location: G22-27-10

2442W
Groundbed

Date Sampled: 02-22-93
Date Received: 03-15-93
Date Analyzed: 03-17-93
Date Reported: 03-18-93

DISSOLVED SOLIDS:

	me/L	mg/L	Detection Limit, mg/L
Calcium, Ca ⁺⁺	0.5	11	1.0
Magnesium, Mg ⁺⁺	0.1	2	1.0
Sodium, Na ⁺ (calc)	22.4	514	5.0
Chloride, Cl ⁻	0.4	13	2.0
Sulfate, SO ₄ ⁻⁻	16.9	810	5.0
Bicarbonate, HCO ₃ ⁻	5.0	308	5.0
Carbonate, CO ₃ ⁻⁻	0.8	24	1.0
Hydroxide, OH ⁻	ND	ND	1.0
Total Dissolved Solids (calculated):		1,680	10.0

OTHER PROPERTIES:

pH (units): 8.7
resistivity (ohm-meters): 6.2
specific gravity at 60F: 1.0044
room temperature (F): 72

ND = Not Detected at the stated detection limit

Comments: San Juan County, New Mexico
Sampled by Keith Bishop

Methods: American Petroleum Institute, "Recommended Practice
for Analysis of Oil-Field Waters;" 2nd edition.

Steve Latham
analyst



LABORATORY REPORT
OIL-FIELD WATER ANALYSIS

TECH, Inc.
333 East Main
Farmington
New Mexico
87401
505/327-3311

Lab Number: 25930315-07
Client: Meridian Oil *2442 W*
Sample ID: Gordon # 500 Groundbed
Location: G22-27-10
Date Sampled: 02-22-93
Date Received: 03-15-93
Date Analyzed: 03-17-93
Date Reported: 03-18-93

DISSOLVED SOLIDS:	me/L	mg/L	Detection Limit, mg/L
Calcium, Ca++	0.5	11	1.0
Magnesium, Mg++	0.1	2	1.0
Sodium, Na+ (calc)	22.4	514	5.0
Chloride, Cl-	0.4	13	2.0
Sulfate, SO4--	16.9	810	5.0
Bicarbonate, HCO3-	5.0	305	5.0
Carbonate, CO3--	0.8	24	1.0
Hydroxide, OH-	ND	ND	1.0
Total Dissolved Solids (calculated):		1,680	10.0

OTHER PROPERTIES:

pH (units): 8.7
resistivity (ohm-meters): 6.2
specific gravity at 60F: 1.0044
room temperature (F): 72

ND = Not Detected at the stated detection limit

Comments: San Juan County, New Mexico
Sampled by Keith Bishop

Methods: American Petroleum Institute, "Recommended Practice
for Analysis of Oil-Field Waters;" 2nd edition.

Keith Bishop



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.

97057-1125

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:

Lateral 2A-2

AFE: N65562

PM: ME Eddleman

Pay Key: AM14058

2. Location of Material (Street Address, City, State or ULSTR):

UL I Section 21 T27N R10W; 36.557716, -107.892107

March 2023

4. Source and Description of Waste:

Source: Hydrocarbon contaminated soil associated with remediation activities from a natural gas pipeline release.

Description: Hydrocarbon contaminated soil associated with remediation activities from a natural gas pipeline release.

Estimated Volume 50 yd³ bbls Known Volume (to be entered by the operator at the end of the haul) 24 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*, 3-24-2023, 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.

5. Transporter: IMI or Subcontractors

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: 3/28/23

SIGNATURE: *Greg Crabtree*
Surface Waste Management Facility Authorized Agent

TELEPHONE NO.: 505-632-0615



APPENDIX D

Photographic Documentation

SITE PHOTOGRAPHS

Closure Report
Enterprise Field Services, LLC
Lateral 2A-2 (03/20/23)
Ensolum Project No. 05A1226232

**Photograph 1**

Photograph Description: View of the in-process excavation activities.

**Photograph 2**

Photograph Description: View of the wash and FP-1 and FP-2 sample locations.

**Photograph 3**

Photograph Description: View of the final excavation.



SITE PHOTOGRAPHS

Closure Report
Enterprise Field Services, LLC
Lateral 2A-2 (03/20/23)
Ensolum Project No. 05A1226232



Photograph 4

Photograph Description: View of the site after initial restoration.





APPENDIX E

Regulatory Correspondence

From: [Kyle Summers](#)
To: [Chad D"Aponti](#); [Ranee Deechilly](#)
Subject: FW: [EXTERNAL] Lateral 2A-2 - UL I Section 21 T27N R10W; 36.557716, -107.892107; NMOCD Incident # nAPP2307927327
Date: Monday, March 27, 2023 12:26:03 PM
Attachments: [image003.png](#)
[image004.png](#)
[image005.png](#)



Kyle Summers

Principal

903-821-5603

Ensolum, LLC

in f

From: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Sent: Monday, March 27, 2023 10:48 AM
To: Long, Thomas <tjlong@eprod.com>; slandon@blm.gov
Cc: Stone, Brian <bmstone@eprod.com>; Kyle Summers <ksummers@ensolum.com>
Subject: Re: [EXTERNAL] Lateral 2A-2 - UL I Section 21 T27N R10W; 36.557716, -107.892107; NMOCD Incident # nAPP2307927327

[**EXTERNAL EMAIL**]

Tom,

Thank you for the notice. Your variance request specifically addressing 19.15.29.12D (1a) NMAC is approved.

If an OCD representative is not on-site on the date &/or time given, please sample per 19.15.29 NMAC. For whatever reason, if the sampling timeframe is altered, please notify the OCD as soon as possible so we may adjust our schedule(s). Failure to notify the OCD of this change may result in the closure sample(s) not being accepted.

Please keep a copy of this communication for inclusion within the appropriate report submittal.

The OCD requires a copy of all correspondence relative to remedial activities be included in all proposals and/or final closure reports. Correspondence required to be included in reports may include, but not limited to, notifications for liner inspections, sample events, spill/release/fire, and request for time extensions or variances.

Regards,

Nelson Velez • Environmental Specialist - Adv

Environmental Bureau | EMNRD - Oil Conservation Division

1000 Rio Brazos Road | Aztec, NM 87410

(505) 469-6146 | nelson.velez@emnrd.nm.gov

<http://www.emnrd.state.nm.us/OCD/>



From: Long, Thomas <tjlong@eprod.com>

Sent: Monday, March 27, 2023 9:27 AM

To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>; slandon@blm.gov <slandon@blm.gov>

Cc: Stone, Brian <bmstone@eprod.com>; Kyle Summers <ksummers@ensolum.com>

Subject: [EXTERNAL] Lateral 2A-2 - UL I Section 21 T27N R10W; 36.557716, -107.892107; NMOCD Incident # nAPP2307927327

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Nelson/Sherrie,

This email is a notification and a variance request. Enterprise is requesting a variance for required 48 hour notification per 19.15.29.12D (1a) NMAC. Enterprise would like to collect soil samples for laboratory analysis tomorrow March 28, 2023 at 10:00 a.m. Please acknowledge acceptance of this variance request. If you have any questions, please call or email.

Thank you,

Thomas J. Long
Senior Environmental Scientist
Enterprise Products Company
614 Reilly Ave.
Farmington, New Mexico 87401
505-599-2286 (office)
505-215-4727 (Cell)
tjlong@eprod.com



This message (including any attachments) is confidential and intended for a specific individual and purpose. If you are not the intended recipient, please notify the sender immediately and delete this message.



APPENDIX F

Table 1 – Soil Analytical Summary



TABLE 1
Lateral 2A-2 (03/20/23)
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
Flowpath Composite Soil Samples													
FP-1	3.28.23	C	0.25	<0.017	<0.035	<0.035	<0.070	ND	<3.5	<9.6	<48	ND	<60
FP-2	3.28.23	C	0.25	<0.018	<0.035	<0.035	<0.071	ND	<3.5	<9.9	<50	ND	<60
Excavation Composite Soil Samples													
S-1	3.28.23	C	4.5	<0.017	<0.035	<0.035	<0.069	ND	<3.5	<9.6	<48	ND	<60
S-2	3.28.23	C	0 to 4.5	<0.018	<0.036	<0.036	<0.072	ND	<3.6	<9.6	<48	ND	<60
S-3	3.28.23	C	0 to 4.5	<0.017	<0.033	<0.033	<0.067	ND	<3.3	<9.8	<49	ND	<60
S-4	3.28.23	C	0 to 4.5	<0.017	<0.034	<0.034	<0.069	ND	<3.4	<10	<50	ND	<60
S-5	3.28.23	C	0 to 4.5	<0.017	<0.035	<0.035	<0.069	ND	<3.5	<9.7	<48	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 = milligram per kilogram

BTEX = Benzene, Toluene, Ethylbenzene, and Xylenes

TPH = Total Petroleum Hydrocarbon

GRO = Gasoline Range Organics

DRO = Diesel Range Organics

MRO = Motor Oil/Lube Oil Range Organics



APPENDIX G

Laboratory Data Sheets & Chain of Custody Documentation



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

March 31, 2023

Kyle Summers

ENSOLUM

606 S. Rio Grande Suite A

Aztec, NM 87410

TEL: (903) 821-5603

FAX

RE: Lateral 2a 2

OrderNo.: 2303D99

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 7 sample(s) on 3/29/2023 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 don't hesitate to contact HEAL for any additional information or clarifications.

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

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2303D99

Date Reported: 3/31/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-1

Project: Lateral 2a 2

Collection Date: 3/28/2023 10:00:00 AM

Lab ID: 2303D99-001

Matrix: MEOH (SOIL)

Received Date: 3/29/2023 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: SNS
Chloride	ND	60		mg/Kg	20	3/29/2023 11:41:22 AM	74000
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: PRD
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	3/29/2023 10:33:27 AM	73997
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/29/2023 10:33:27 AM	73997
Surr: DNOP	90.1	69-147		%Rec	1	3/29/2023 10:33:27 AM	73997
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	3/29/2023 11:21:00 AM	GS95639
Surr: BFB	95.5	37.7-212		%Rec	1	3/29/2023 11:21:00 AM	GS95639
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.017		mg/Kg	1	3/29/2023 11:21:00 AM	BS5639
Toluene	ND	0.035		mg/Kg	1	3/29/2023 11:21:00 AM	BS5639
Ethylbenzene	ND	0.035		mg/Kg	1	3/29/2023 11:21:00 AM	BS5639
Xylenes, Total	ND	0.069		mg/Kg	1	3/29/2023 11:21:00 AM	BS5639
Surr: 4-Bromofluorobenzene	93.3	70-130		%Rec	1	3/29/2023 11:21:00 AM	BS5639

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Page 1 of 12

Analytical Report

Lab Order 2303D99

Date Reported: 3/31/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-2

Project: Lateral 2a 2

Collection Date: 3/28/2023 10:05:00 AM

Lab ID: 2303D99-002

Matrix: MEOH (SOIL)

Received Date: 3/29/2023 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: SNS
Chloride	ND	60		mg/Kg	20	3/29/2023 11:53:46 AM	74000
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: PRD
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	3/29/2023 11:04:54 AM	73997
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/29/2023 11:04:54 AM	73997
Surr: DNOP	87.4	69-147		%Rec	1	3/29/2023 11:04:54 AM	73997
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	3/29/2023 11:43:00 AM	GS95639
Surr: BFB	91.2	37.7-212		%Rec	1	3/29/2023 11:43:00 AM	GS95639
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.018		mg/Kg	1	3/29/2023 11:43:00 AM	BS5639
Toluene	ND	0.036		mg/Kg	1	3/29/2023 11:43:00 AM	BS5639
Ethylbenzene	ND	0.036		mg/Kg	1	3/29/2023 11:43:00 AM	BS5639
Xylenes, Total	ND	0.072		mg/Kg	1	3/29/2023 11:43:00 AM	BS5639
Surr: 4-Bromofluorobenzene	92.0	70-130		%Rec	1	3/29/2023 11:43:00 AM	BS5639

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303D99

Date Reported: 3/31/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-3

Project: Lateral 2a 2

Collection Date: 3/28/2023 10:10:00 AM

Lab ID: 2303D99-003

Matrix: MEOH (SOIL)

Received Date: 3/29/2023 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: SNS
Chloride	ND	60		mg/Kg	20	3/29/2023 12:06:11 PM	74000
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: PRD
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	3/29/2023 11:15:25 AM	73997
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/29/2023 11:15:25 AM	73997
Surr: DNOP	88.5	69-147		%Rec	1	3/29/2023 11:15:25 AM	73997
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	3.3		mg/Kg	1	3/29/2023 12:05:00 PM	GS95639
Surr: BFB	94.0	37.7-212		%Rec	1	3/29/2023 12:05:00 PM	GS95639
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.017		mg/Kg	1	3/29/2023 12:05:00 PM	BS5639
Toluene	ND	0.033		mg/Kg	1	3/29/2023 12:05:00 PM	BS5639
Ethylbenzene	ND	0.033		mg/Kg	1	3/29/2023 12:05:00 PM	BS5639
Xylenes, Total	ND	0.067		mg/Kg	1	3/29/2023 12:05:00 PM	BS5639
Surr: 4-Bromofluorobenzene	93.8	70-130		%Rec	1	3/29/2023 12:05:00 PM	BS5639

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Page 3 of 12

Analytical Report

Lab Order 2303D99

Date Reported: 3/31/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-4

Project: Lateral 2a 2

Collection Date: 3/28/2023 10:15:00 AM

Lab ID: 2303D99-004

Matrix: MEOH (SOIL)

Received Date: 3/29/2023 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: SNS
Chloride	ND	60		mg/Kg	20	3/29/2023 12:18:35 PM	74000
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: PRD
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/29/2023 11:25:59 AM	73997
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/29/2023 11:25:59 AM	73997
Surr: DNOP	87.6	69-147		%Rec	1	3/29/2023 11:25:59 AM	73997
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	3.4		mg/Kg	1	3/29/2023 12:27:00 PM	GS95639
Surr: BFB	94.9	37.7-212		%Rec	1	3/29/2023 12:27:00 PM	GS95639
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.017		mg/Kg	1	3/29/2023 12:27:00 PM	BS5639
Toluene	ND	0.034		mg/Kg	1	3/29/2023 12:27:00 PM	BS5639
Ethylbenzene	ND	0.034		mg/Kg	1	3/29/2023 12:27:00 PM	BS5639
Xylenes, Total	ND	0.069		mg/Kg	1	3/29/2023 12:27:00 PM	BS5639
Surr: 4-Bromofluorobenzene	95.3	70-130		%Rec	1	3/29/2023 12:27:00 PM	BS5639

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Page 4 of 12

Analytical Report

Lab Order 2303D99

Date Reported: 3/31/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-5

Project: Lateral 2a 2

Collection Date: 3/28/2023 10:20:00 AM

Lab ID: 2303D99-005

Matrix: MEOH (SOIL)

Received Date: 3/29/2023 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: SNS
Chloride	ND	60		mg/Kg	20	3/29/2023 12:30:59 PM	74000
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: PRD
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	3/29/2023 11:36:37 AM	73997
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/29/2023 11:36:37 AM	73997
Surr: DNOP	87.9	69-147		%Rec	1	3/29/2023 11:36:37 AM	73997
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	3/29/2023 12:49:00 PM	GS95639
Surr: BFB	86.8	37.7-212		%Rec	1	3/29/2023 12:49:00 PM	GS95639
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.017		mg/Kg	1	3/29/2023 12:49:00 PM	BS5639
Toluene	ND	0.035		mg/Kg	1	3/29/2023 12:49:00 PM	BS5639
Ethylbenzene	ND	0.035		mg/Kg	1	3/29/2023 12:49:00 PM	BS5639
Xylenes, Total	ND	0.069		mg/Kg	1	3/29/2023 12:49:00 PM	BS5639
Surr: 4-Bromofluorobenzene	85.3	70-130		%Rec	1	3/29/2023 12:49:00 PM	BS5639

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303D99

Date Reported: 3/31/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: FP-1

Project: Lateral 2a 2

Collection Date: 3/28/2023 10:25:00 AM

Lab ID: 2303D99-006

Matrix: MEOH (SOIL)

Received Date: 3/29/2023 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: SNS
Chloride	ND	60		mg/Kg	20	3/29/2023 1:08:13 PM	74000
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: PRD
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	3/29/2023 11:47:10 AM	73997
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/29/2023 11:47:10 AM	73997
Surr: DNOP	88.7	69-147		%Rec	1	3/29/2023 11:47:10 AM	73997
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	3/29/2023 1:10:00 PM	GS95639
Surr: BFB	80.7	37.7-212		%Rec	1	3/29/2023 1:10:00 PM	GS95639
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.017		mg/Kg	1	3/29/2023 1:10:00 PM	BS5639
Toluene	ND	0.035		mg/Kg	1	3/29/2023 1:10:00 PM	BS5639
Ethylbenzene	ND	0.035		mg/Kg	1	3/29/2023 1:10:00 PM	BS5639
Xylenes, Total	ND	0.070		mg/Kg	1	3/29/2023 1:10:00 PM	BS5639
Surr: 4-Bromofluorobenzene	81.5	70-130		%Rec	1	3/29/2023 1:10:00 PM	BS5639

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303D99

Date Reported: 3/31/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: FP-2

Project: Lateral 2a 2

Collection Date: 3/28/2023 10:30:00 AM

Lab ID: 2303D99-007

Matrix: MEOH (SOIL)

Received Date: 3/29/2023 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: SNS
Chloride	ND	60		mg/Kg	20	3/29/2023 1:20:38 PM	74000
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: PRD
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	3/29/2023 11:57:45 AM	73997
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/29/2023 11:57:45 AM	73997
Surr: DNOP	91.9	69-147		%Rec	1	3/29/2023 11:57:45 AM	73997
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	3/29/2023 1:32:00 PM	GS95639
Surr: BFB	89.3	37.7-212		%Rec	1	3/29/2023 1:32:00 PM	GS95639
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.018		mg/Kg	1	3/29/2023 1:32:00 PM	BS5639
Toluene	ND	0.035		mg/Kg	1	3/29/2023 1:32:00 PM	BS5639
Ethylbenzene	ND	0.035		mg/Kg	1	3/29/2023 1:32:00 PM	BS5639
Xylenes, Total	ND	0.071		mg/Kg	1	3/29/2023 1:32:00 PM	BS5639
Surr: 4-Bromofluorobenzene	84.9	70-130		%Rec	1	3/29/2023 1:32:00 PM	BS5639

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2303D99

31-Mar-23

Client: ENSOLUM

Project: Lateral 2a 2

Sample ID: MB-74000		SampType: MBLK		TestCode: EPA Method 300.0: Anions						
Client ID: PBS		Batch ID: 74000		RunNo: 95644						
Prep Date: 3/29/2023		Analysis Date: 3/29/2023		SeqNo: 3461932			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-74000		SampType: LCS		TestCode: EPA Method 300.0: Anions						
Client ID: LCSS		Batch ID: 74000		RunNo: 95644						
Prep Date: 3/29/2023		Analysis Date: 3/29/2023		SeqNo: 3461933			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.9	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 Quantitative 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

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2303D99

31-Mar-23

Client: ENSOLUM**Project:** Lateral 2a 2

Sample ID: MB-73997	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 73997	RunNo: 95646								
Prep Date: 3/29/2023	Analysis Date: 3/29/2023	SeqNo: 3461213			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	8.8		10.00		87.7	69	147			

Sample ID: LCS-73997	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 73997	RunNo: 95646								
Prep Date: 3/29/2023	Analysis Date: 3/29/2023	SeqNo: 3461214			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	90.7	61.9	130			
Surr: DNOP	4.5		5.000		90.5	69	147			

Sample ID: 2303D99-001AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: S-1	Batch ID: 73997	RunNo: 95646								
Prep Date: 3/29/2023	Analysis Date: 3/29/2023	SeqNo: 3461247			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	39	9.2	46.00	0	83.9	54.2	135			
Surr: DNOP	4.3		4.600		92.6	69	147			

Sample ID: 2303D99-001AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: S-1	Batch ID: 73997	RunNo: 95646								
Prep Date: 3/29/2023	Analysis Date: 3/29/2023	SeqNo: 3461248			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	9.9	49.41	0	90.4	54.2	135	14.6	29.2	
Surr: DNOP	4.6		4.941		92.9	69	147	0	0	

Sample ID: MB-73987	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 73987	RunNo: 95646								
Prep Date: 3/28/2023	Analysis Date: 3/29/2023	SeqNo: 3461648			Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.2		10.00		91.6	69	147			

Sample ID: LCS-73987	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 73987	RunNo: 95646								
Prep Date: 3/28/2023	Analysis Date: 3/29/2023	SeqNo: 3461649			Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

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 Quantitative 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#: 2303D99
31-Mar-23

Client: ENSOLUM
Project: Lateral 2a 2

Sample ID: LCS-73987		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS		Batch ID: 73987		RunNo: 95646						
Prep Date: 3/28/2023		Analysis Date: 3/29/2023		SeqNo: 3461649		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.4		5.000		87.3	69	147			

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 Quantitative 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#: **2303D99****31-Mar-23****Client:** ENSOLUM**Project:** Lateral 2a 2

Sample ID: 2.5ug gro lcs	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: GS95639			RunNo: 95639						
Prep Date:	Analysis Date: 3/29/2023			SeqNo: 3461029		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	96.9	70	130			
Surr: BFB	2300		1000		227	37.7	212			S

Sample ID: mb	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: GS95639			RunNo: 95639						
Prep Date:	Analysis Date: 3/29/2023			SeqNo: 3461030		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		107	37.7	212			

Sample ID: 2303D99-001ams	SampType: MS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: S-1	Batch ID: GS95639			RunNo: 95639						
Prep Date:	Analysis Date: 3/29/2023			SeqNo: 3461201		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	18	3.5	17.30	0	103	70	130			
Surr: BFB	1500		692.0		221	37.7	212			S

Sample ID: 2303D99-001amsd	SampType: MSD			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: S-1	Batch ID: GS95639			RunNo: 95639						
Prep Date:	Analysis Date: 3/29/2023			SeqNo: 3461202		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	16	3.5	17.30	0	91.6	70	130	12.0	20	
Surr: BFB	1400		692.0		197	37.7	212	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 Quantitative 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#: 2303D99

31-Mar-23

Client: ENSOLUM**Project:** Lateral 2a 2

Sample ID: 100ng btex lcs	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: BS5639			RunNo: 95639						
Prep Date:	Analysis Date: 3/29/2023			SeqNo: 3461036		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	95.2	80	120			
Toluene	0.97	0.050	1.000	0	96.6	80	120			
Ethylbenzene	0.97	0.050	1.000	0	96.8	80	120			
Xylenes, Total	2.9	0.10	3.000	0	96.9	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		105	70	130			

Sample ID: mb	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: BS5639			RunNo: 95639						
Prep Date:	Analysis Date: 3/29/2023			SeqNo: 3461037		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	1.0		1.000		104	70	130			

Sample ID: 2303D99-002ams	SampType: MS			TestCode: EPA Method 8021B: Volatiles						
Client ID: S-2	Batch ID: BS5639			RunNo: 95639						
Prep Date:	Analysis Date: 3/29/2023			SeqNo: 3461591		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.66	0.018	0.7168	0	92.6	68.8	120			
Toluene	0.66	0.036	0.7168	0	92.7	73.6	124			
Ethylbenzene	0.65	0.036	0.7168	0	90.7	72.7	129			
Xylenes, Total	1.9	0.072	2.150	0	89.7	75.7	126			
Surr: 4-Bromofluorobenzene	0.62		0.7168		86.8	70	130			

Sample ID: 2303D99-002amsd	SampType: MSD			TestCode: EPA Method 8021B: Volatiles						
Client ID: S-2	Batch ID: BS5639			RunNo: 95639						
Prep Date:	Analysis Date: 3/29/2023			SeqNo: 3461592		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.66	0.018	0.7168	0	91.5	68.8	120	1.16	20	
Toluene	0.66	0.036	0.7168	0	91.5	73.6	124	1.33	20	
Ethylbenzene	0.64	0.036	0.7168	0	89.3	72.7	129	1.45	20	
Xylenes, Total	1.9	0.072	2.150	0	88.7	75.7	126	1.13	20	
Surr: 4-Bromofluorobenzene	0.62		0.7168		86.1	70	130	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 Quantitative 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

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Hall Environmental Analysis Laboratory
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: 2303D99

RcptNo: 1

Received By: Tracy Casarrubias 3/29/2023 7:35:00 AM

Completed By: Tracy Casarrubias 3/29/2023 7:54:46 AM

Reviewed By: *see 3/29/23*

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 $>0^{\circ}\text{C}$ 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: *ju 3/30/23*

ju 3/29/23

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: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.8	Good	Yes	Morty		

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

CONDITIONS

Action 226479

CONDITIONS

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 226479
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	6/13/2023