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	NAPP2319227547
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)* **nAPP2319227547**
Contact mailing address: **614 Reilly Ave, Farmington, NM 87401**	

Location of Release Source

Latitude **36.711165** Longitude **-107.894347** *(NAD 83 in decimal degrees to 5 decimal places)*

Site Name **Trujillo Gas Com #1R**	Site Type **Natural Gas Gathering Pipeline**
Date Release Discovered: **07/11/2023**	Serial Number *(if applicable)*: **N/A**

Unit Letter	Section	Township	Range	County
K	**21**	**29N**	**10W**	**San Juan**

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (*Name*: **Dennis and Maria Chavez**)

Nature and Volume of Release

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

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☒ Condensate	Volume Released (bbls): **Estimated 5-10 BBLs**	Volume Recovered (bbls): **None**
☒ Natural Gas	Volume Released (Mcf): **0.453 MCF**	Volume Recovered (Mcf): **None**
☐ Other (describe)	Volume/Weight Released (provide units):	Volume/Weight Recovered (provide units)

Cause of Release On July 10, 2023, Enterprise had a release of natural gas and natural gas liquids from the Trujillo Gas Com #1R pipeline. The pipeline was isolated, depressurized, locked and tagged out. No fire nor injuries occurred. No liquids were observed on the ground surface. The release is located approximately 100 feet from a residential home. Remediation was completed on July 19, 2023. The final excavation dimensions measured approximately 23 feet long by 14 feet wide by 10 feet deep. A total of 260 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	NAPP2319227547
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: Thomas Long Date: 10-6-2023

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

OCD Only

Received by: Shelly Wells Date: 10/6/2023

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: Nelson Velez Date: 01/29/2024

Printed Name: Nelson Velez Title: Environmental Specialist – Adv

ENSOLUM

CLOSURE REPORT

Property:

Trujillo Gas Com #1R (07/11/23)
Unit Letter K, S21 T29N R10W
San Juan County, New Mexico

New Mexico EMNRD OCD Incident ID No. NAPP2319227547

September 18, 2023

Ensolum Project No. 05A1226253

Prepared for:

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

Prepared by:

Ranee Deechilly
Project Manager

Kyle Summers
Senior Managing Geologist

TABLE OF CONTENTS

LIST OF APPENDICES

1.0 INTRODUCTION

1.1 Site Description & Background

Operator:	Enterprise Field Services, LLC / Enterprise Products Operating LLC (Enterprise)
Site Name:	Trujillo Gas Com #1R (07/11/23) (Site)
NM EMNRD OCD Incident ID No.	NAPP2319227547
Location:	36.711165° North, 107.894347° West Unit Letter K, Section 21, Township 29 North, Range 10 West San Juan County, New Mexico
Property:	Private
Regulatory:	New Mexico (NM) Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

On July 10, 2023, a potential release of natural gas from the well tie pipeline was identified by a third party. Enterprise subsequently isolated and locked the pipeline out of service. On July 11, 2022, Enterprise determined the release was "reportable" due to the proximity of residences. The NM EMNRD OCD was subsequently notified. On July 13, 2023, the area was field screened and soil impact was identified adjacent to the pipeline in the area that the vapors were detected. On July 19, 2023, Enterprise initiated activities to repair the pipeline and remediate petroleum hydrocarbon impact. During pipeline remediation activities, no leaks were identified on the pipeline.

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). Numerous PODs were identified in the same Public Land Survey System (PLSS) section as the Site and in the adjacent sections. The average depth to water for these PODs is 20 feet below grade surface (bgs). The closest POD (SJ-03456) is approximately 0.28 miles southwest of the Site,

with a recorded depth to water of 17 feet bgs. This POD is approximately 100 feet lower in elevation than the Site (**Figure A**, **Appendix B**).

- Six cathodic protection wells (CPWs) were identified in the NM EMNRD OCD imaging database in the adjacent PLSS sections. The CPWs are depicted in **Figure B** (**Appendix B**). The closest CPW (San Jacinto #2, #6E, and Hubbell #17) is located 0.50 miles northwest of the Site. Records for the cathodic protection well located near the San Jacinto #2, #6E, and Hubbell #17 well locations indicate a depth to water of approximately 90 feet. This cathodic protection well is approximately 104 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 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 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 July 19, 2023, Enterprise initiated activities to repair the pipeline and remediate petroleum hydrocarbon impact identified by the vapor readings and field screening activities. During the remediation and corrective action activities, Sunland Construction Inc, provided heavy equipment and labor support, while Ensolum provided environmental consulting support. No leak was identified while remediating the hydrocarbon-affected soil.

The final excavation measured approximately 23 feet long and 14 feet wide at the maximum extents. The maximum depth of the excavation measured approximately 10 feet bgs. The lithology encountered during the completion of remediation activities consisted primarily of sandy silt.

Approximately 260 cubic yards (yd^3) of petroleum hydrocarbon-affected soil and 15 barrels (bbls) of hydro-excavation soil cuttings and water 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**. 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 calibrated Dexsil PetroFLAG® hydrocarbon analyzer system and a PID fitted with a 10.6 eV lamp to guide excavation extents.

Ensolum's soil sampling program included the collection of seven composite soil samples (S-1 through S-7) from the excavation for laboratory analysis. The composite samples were comprised of five aliquots each and represent an estimated 200 square foot (ft^2) or less sample area per guidelines outlined in Section D of 19.15.29.12 NMAC. Hand tools or the excavator bucket were utilized to obtain fresh aliquots from each area of the excavation. Regulatory correspondence is provided in **Appendix E**.

Sampling Event

On July 19, 2023, a sampling event 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 (10') was collected from the floor of the excavation. Composite soil samples S-2 (0'-10'), S-3 (0' to 10'), S-4 (0' to 10'), S-5 (0' to 10'), S-6 (3' to 10'), and S-7 (0' to 3') were collected from the walls of the excavation.

All soil samples were collected and placed in laboratory-prepared glassware. The containers were labeled and sealed using the laboratory-supplied labels and custody seals and were stored on ice in a cooler. The samples were relinquished to the courier for 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 soil samples (S-1 through S-7) to the applicable NM EMNRD OCD closure criteria. The laboratory analytical results are summarized in **Table 1** (**Appendix F**).

- The laboratory analytical results for all soil samples indicate benzene is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the NM EMNRD OCD closure criteria of 10 mg/kg.

- The laboratory analytical results for all soil samples indicate total BTEX is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the NM EMNRD OCD closure criteria of 50 mg/kg.

- The laboratory analytical results for all soil samples indicate total combined TPH GRO/DRO/MRO is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the New Mexico EMNRD OCD closure criteria of 100 mg/kg.

- The laboratory analytical result for all composite soil samples S-6 indicates a chloride concentration of 110 mg/kg, which is less than the New Mexico EMNRD OCD closure criteria of 600 mg/kg. The laboratory analytical results for all other soil samples indicate chloride is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the New Mexico EMNRD OCD closure 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, BTEX, chloride, or total combined TPH GRO/DRO/MRO exceedances were identified in the soils remaining at the Site.

- Approximately 260 yd^3 of petroleum hydrocarbon-affected soil and 15 bbls of hydro-excavation soil cuttings and water were transported to the Envirotech landfarm for disposal/remediation. The excavation was backfilled with imported fill and then contoured to the surrounding topography.

- Because no current leak was found, it is possible that the impacted soil identified by Ensolum could have originated from a historic release. Ensolum recommends that Enterprise monitor this location to ensure a leak does not still exist elsewhere.

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.

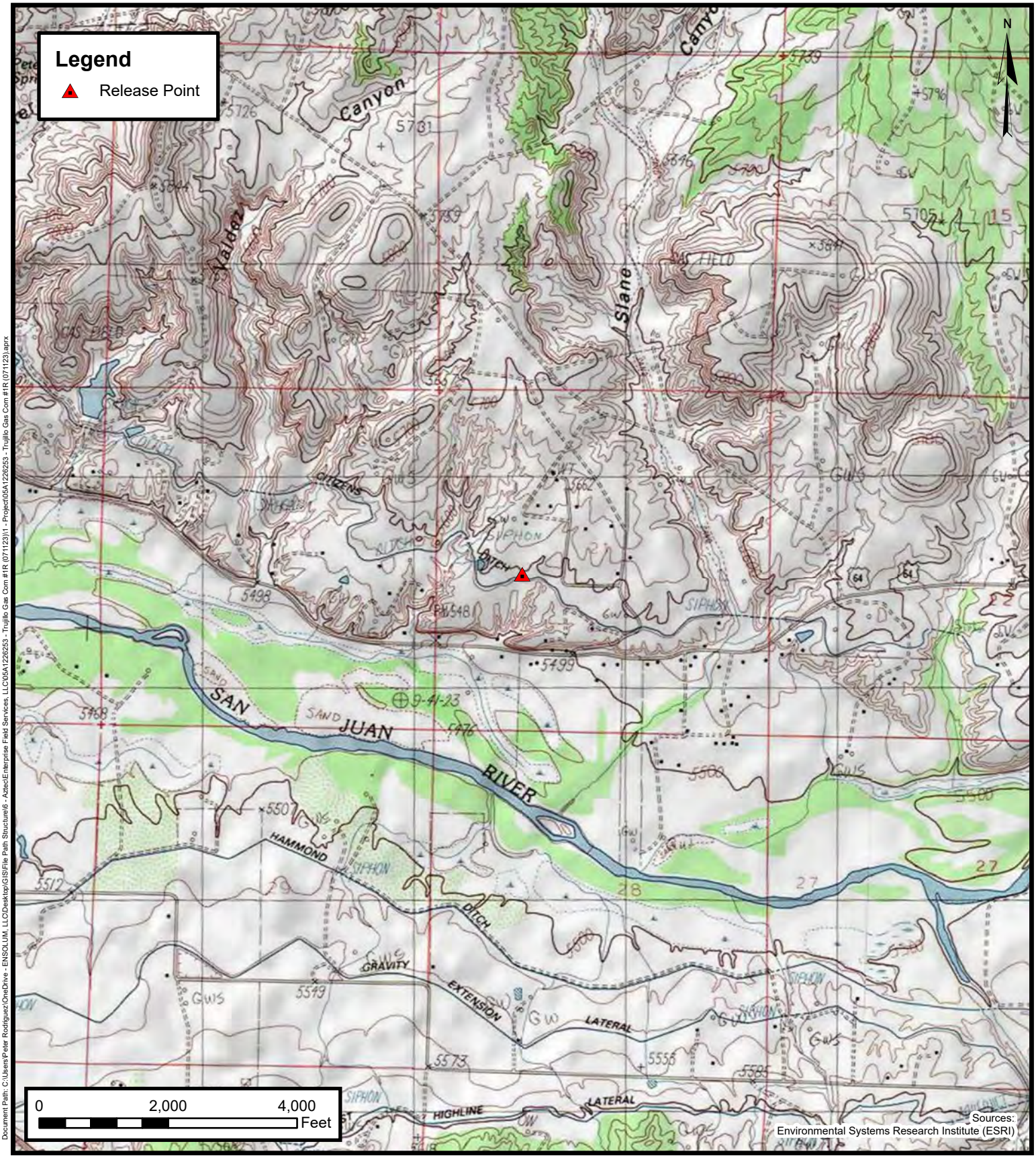
9.3 Reliance

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.

ENSOLUM

APPENDIX A

Figures



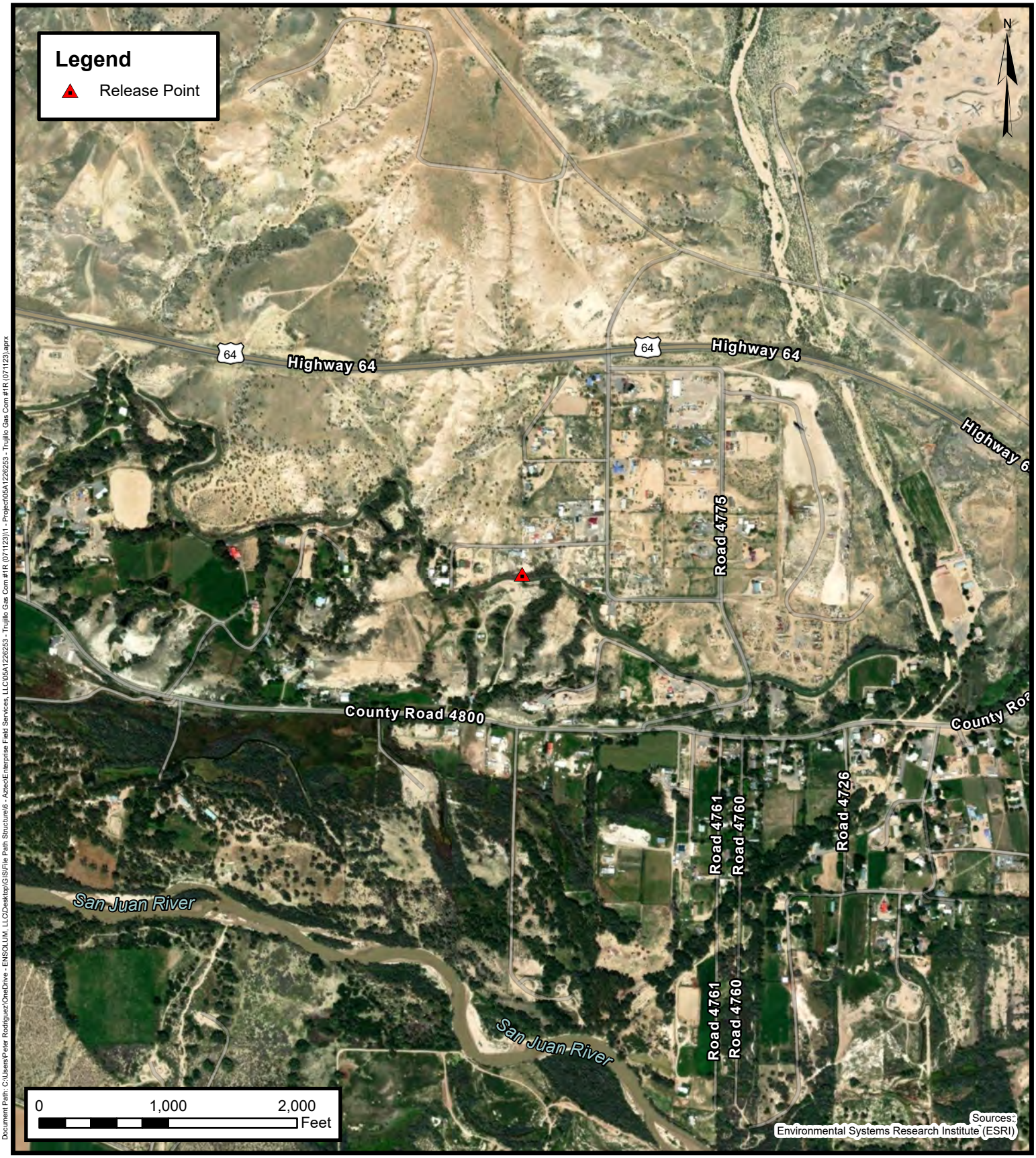
ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Topographic Map

Enterprise Field Services, LLC
Trujillo Gas Com #1R (07/11/23)
Project Number: 05A1226253
Unit Letter K, S21 T29N R10W, San Juan County, New Mexico
36.711165, -107.894347

FIGURE

1



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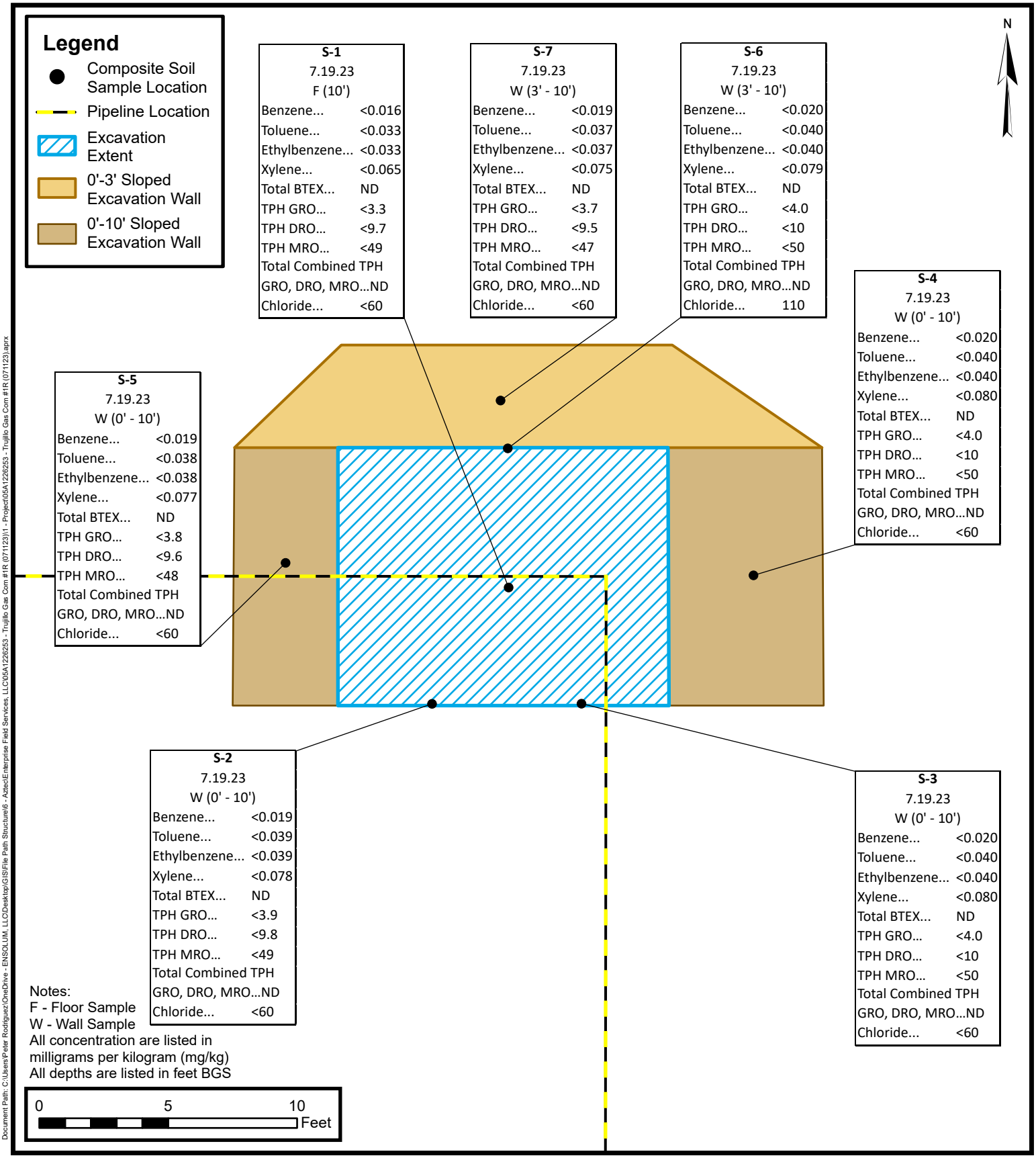
ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Site Vicinity Map

Enterprise Field Services, LLC
Trujillo Gas Com #1R (07/11/23)
Project Number: 05A1226253
Unit Letter K, S21 T29N R10W, San Juan County, New Mexico
36.711165, -107.894347

FIGURE
2



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Environmental, Engineering and Hydrogeologic Consultants

Site Map with Soil Analytical Results

Enterprise Field Services, LLC
Trujillo Gas Com #1R (07/11/23)
Project Number: 05A1226253
Unit Letter K, S21 T29N R10W, San Juan County, New Mexico
36.711165, -107.894347

FIGURE
3

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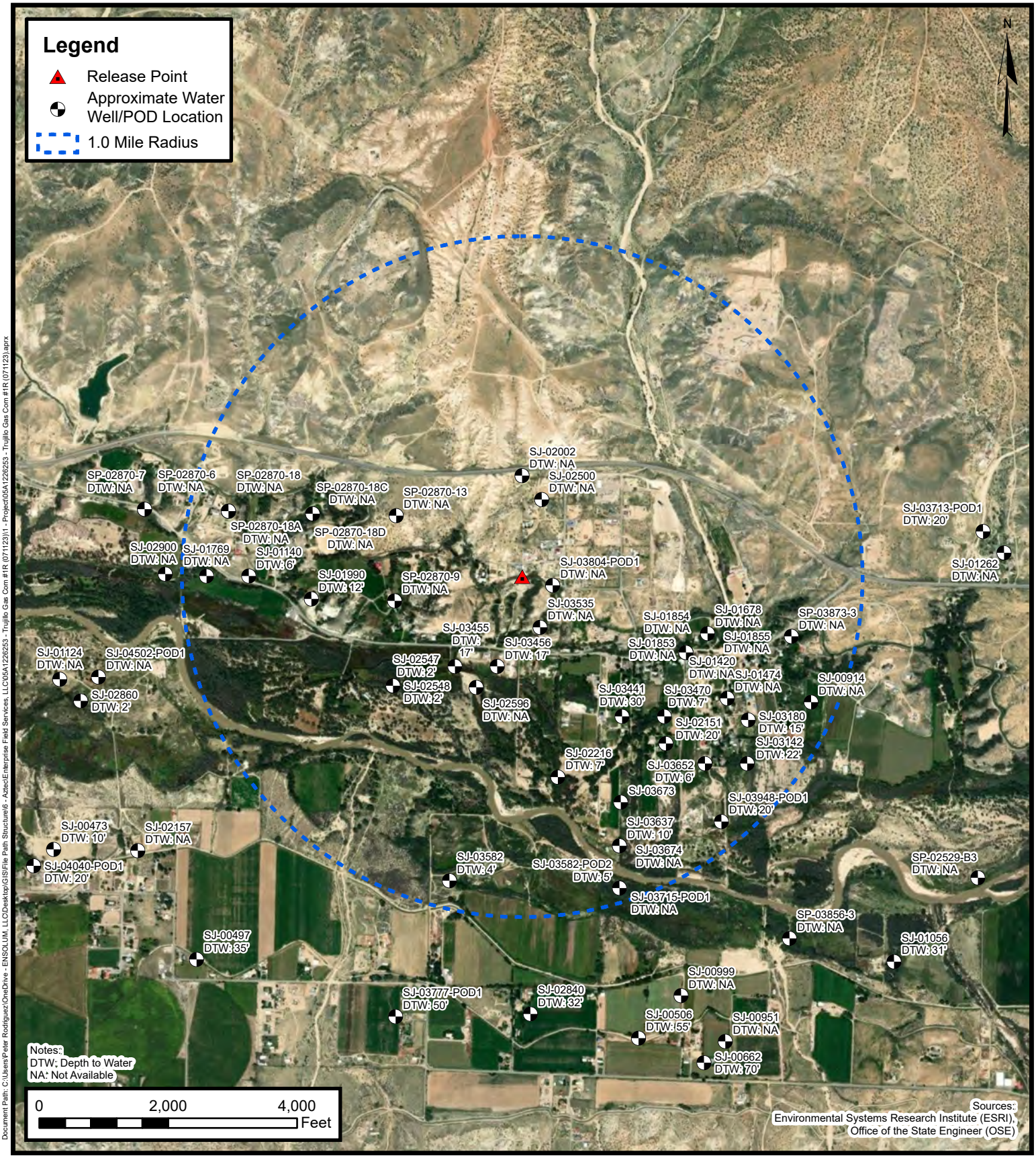
APPENDIX B

Siting Figures and Documentation



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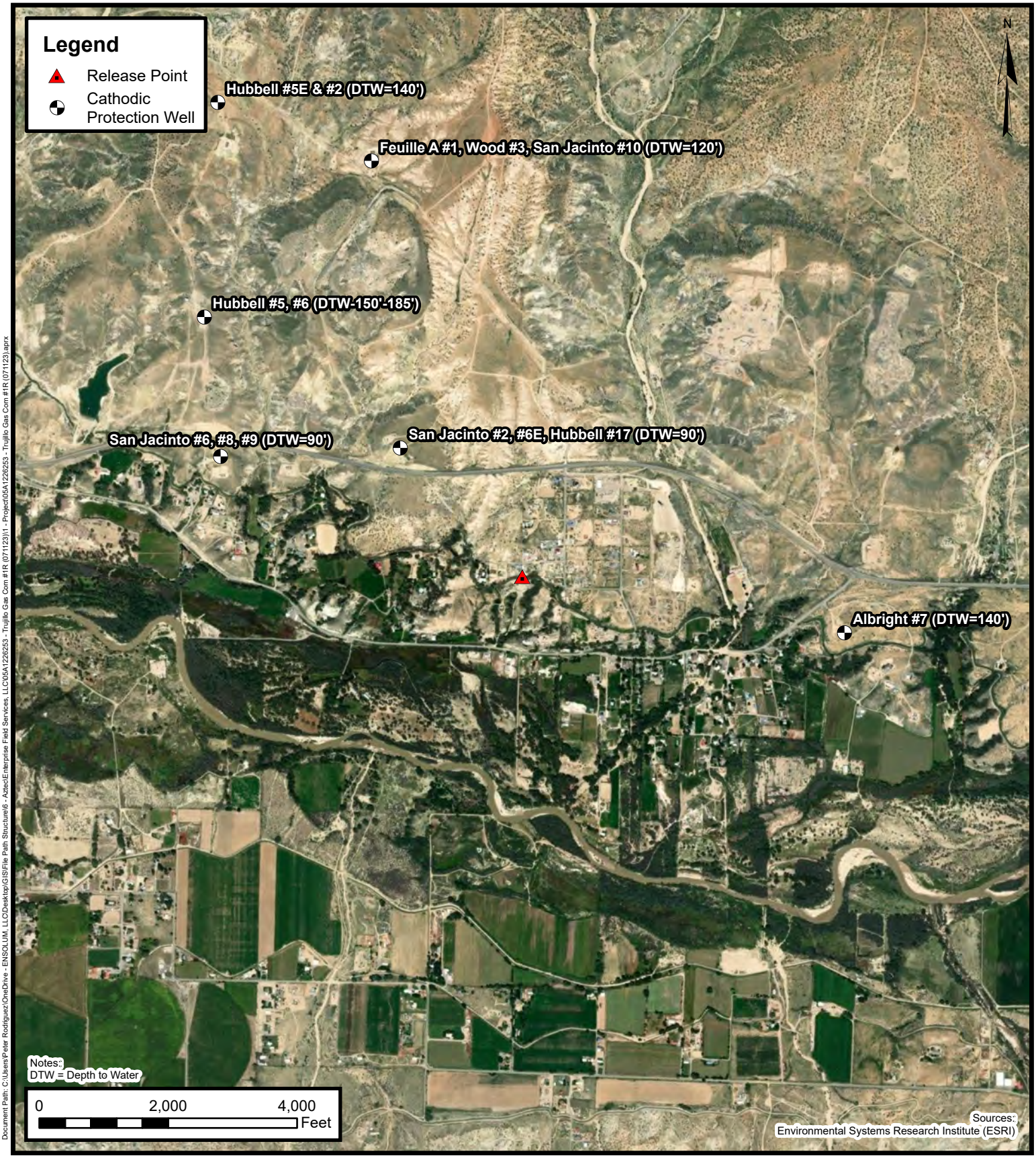
Environmental, Engineering and Hydrogeologic Consultants

1.0 Mile Radius Water Well/POD Location Map

Enterprise Field Services, LLC
Trujillo Gas Com #1R (07/11/23)
Project Number: 05A1226253
Unit Letter K, S21 T29N R10W, San Juan County, New Mexico
36.711165, -107.894347

FIGURE
A



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Cathodic Protection Well Recorded Depth to Water

Enterprise Field Services, LLC
Trujillo Gas Com #1R (07/11/23)
Project Number: 05A1226253
Unit Letter K, S21 T29N R10W, San Juan County, New Mexico
36.711165, -107.894347

FIGURE

B

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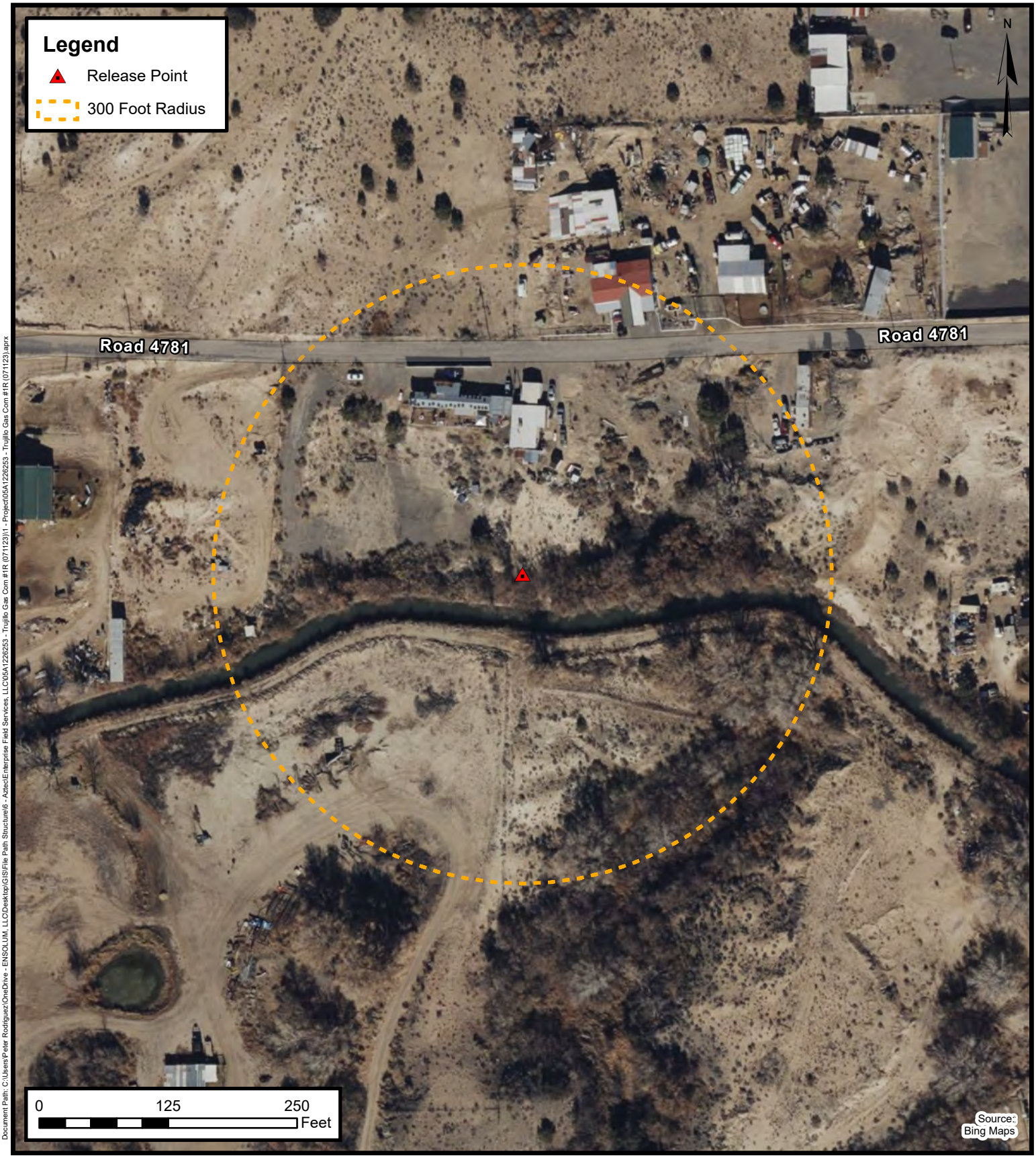
300 Foot Radius Watercourse and Drainage Identification

Enterprise Field Services, LLC
Trujillo Gas Com #1R (07/11/23)
Project Number: 05A1226253
Unit Letter K, S21 T29N R10W, San Juan County, New Mexico
36.711165, -107.894347

FIGURE

C



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Environmental, Engineering and Hydrogeologic Consultants

300 Foot Radius Occupied Structure Identification

Enterprise Field Services, LLC
Trujillo Gas Com #1R (07/11/23)
Project Number: 05A1226253
Unit Letter K, S21 T29N R10W, San Juan County, New Mexico
36.711165, -107.894347

FIGURE

D

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Environmental, Engineering and Hydrogeologic Consultants

Water Well and Natural Spring Location

Enterprise Field Services, LLC
Trujillo Gas Com #1R (07/11/23)
Project Number: 05A1226253

Unit Letter K, S21 T29N R10W, San Juan County, New Mexico
36.711165, -107.894347

FIGURE

E

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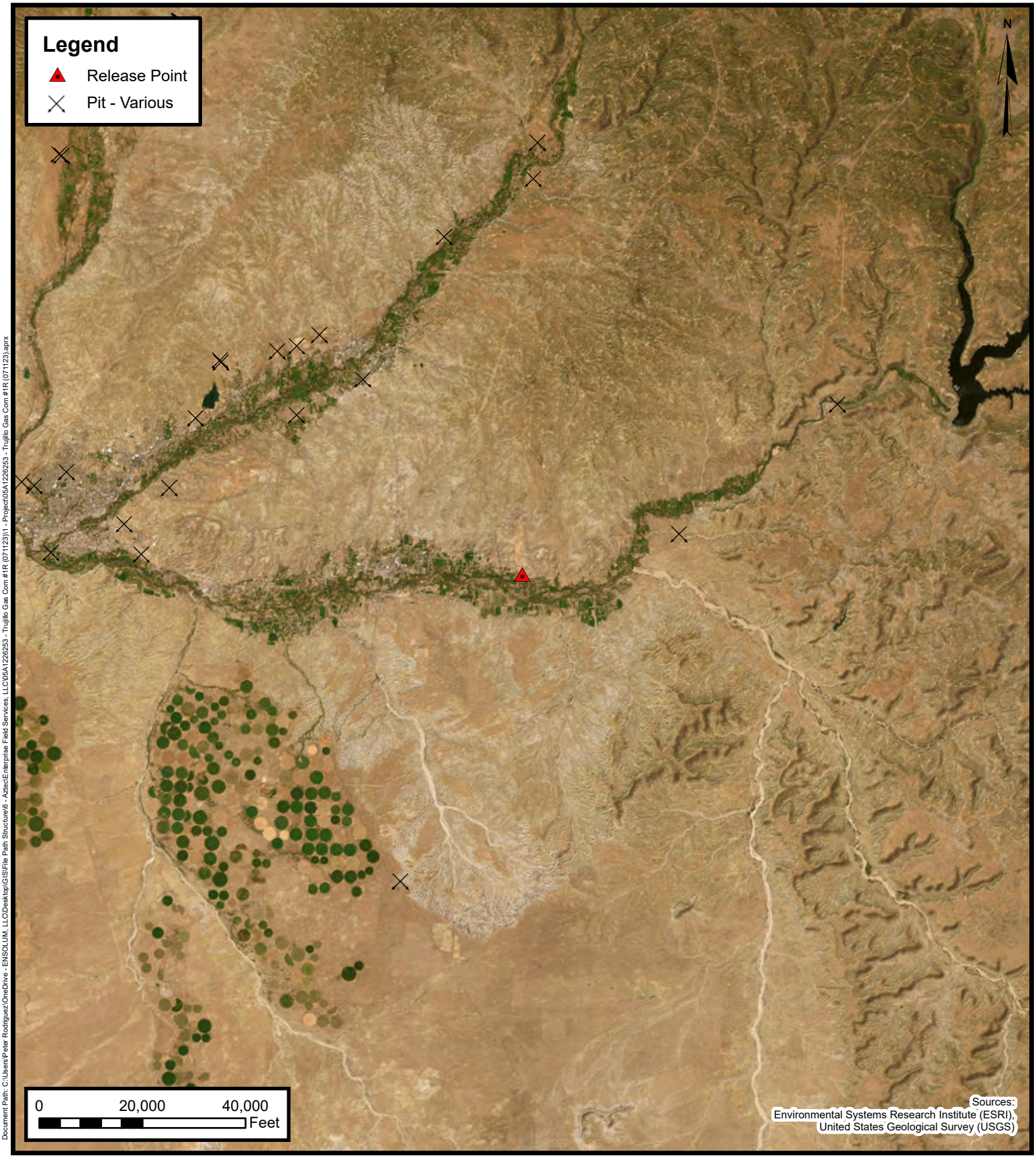
Environmental, Engineering and Hydrogeologic Consultants

Wetlands

Enterprise Field Services, LLC
Trujillo Gas Com #1R (07/11/23)
Project Number: 05A1226253
Unit Letter K, S21 T29N R10W, San Juan County, New Mexico
36.711165, -107.894347

FIGURE
F



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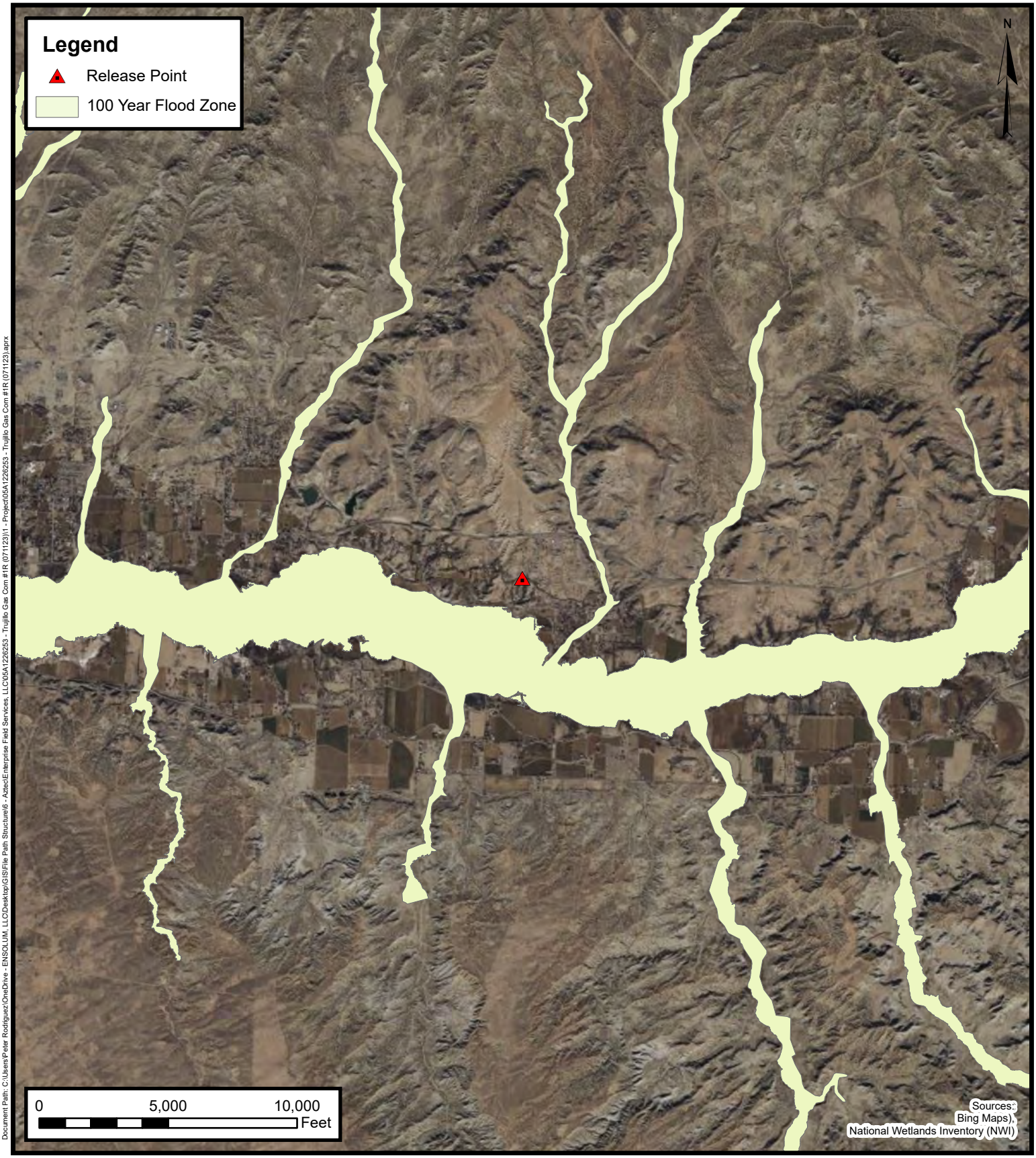
ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Mines, Mills, and Quarries

Enterprise Field Services, LLC
Trujillo Gas Com #1R (07/11/23)
Project Number: 05A1226253
Unit Letter K, S21 T29N R10W, San Juan County, New Mexico
36.711165, -107.894347

FIGURE
G



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ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

100-Year Flood Plain Map

Enterprise Field Services, LLC
Trujillo Gas Com #1R (07/11/23)
Project Number: 05A1226253
Unit Letter K, S21 T29N R10W, San Juan County, New Mexico
36.711165, -107.894347

FIGURE

H

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

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

POD Number	POD Sub-basin Code	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
SJ 00497	SJM2	SJ	3	2	3	29	29N	10W	239929	4064927*	85	35	50
SJ 00506	SJM2	SJ		3	4	28	29N	10W	242019	4064555*	78	55	23
SJ 00662	SJM2	SJ	3	4	4	28	29N	10W	242329	4064439*	93	70	23
SJ 01056	SJM2	SJ		2	3	27	29N	10W	243228	4064917*	50	31	19
SJ 01140	SJM2	SJ	2	2	3	20	29N	10W	240176	4066740*	25	6	19
SJ 01474	SJM2	SJ		4	4	21	29N	10W	242439	4066161*	25		
SJ 01990	SJM2	SJ		1	4	20	29N	10W	240472	4066632*	40	12	28
SJ 02151	SJM2	SJ	2	1	2	28	29N	10W	242149	4065947	37	20	17
SJ 02216	SJM2	SJ		2	1	28	29N	10W	241638	4065789*	30	7	23
SJ 02547	SJM2	SJ		4	4	20	29N	10W	240859	4066221*	12	2	10
SJ 02548	SJM2	SJ		4	4	20	29N	10W	240859	4066221*	12	2	10
SJ 02840	SJM2	SJ	1	4	3	28	29N	10W	241508	4064670*	55	32	23
SJ 02900	SJM2	SJ	2	1	3	20	29N	10W	239781	4066749*	70		
SJ 03142	SJM2	SJ	2	2	2	28	29N	10W	242533	4065853*	38	22	16
SJ 03180	SJM2	SJ	4	4	4	21	29N	10W	242538	4066060*	50	15	35
SJ 03441	SJM2	SJ	3	3	4	21	29N	10W	241942	4066077*	40	30	10
SJ 03455	SJM2	SJ	1	3	3	21	29N	10W	241151	4066312*	20	17	3
SJ 03456	SJM2	SJ	2	3	3	21	29N	10W	241351	4066312*	20	17	3
SJ 03470	SJM2	SJ	4	3	4	21	29N	10W	242142	4066077*	20	7	13
SJ 03535	SJM2	SJ	3	2	3	21	29N	10W	241554	4066498*	15		
SJ 03582	SJM2	SJ	3	3	1	28	29N	10W	241125	4065299*	10	4	6
SJ 03582 POD2	SJM2	SJ	3	3	2	28	29N	10W	241930	4065264*	28	5	23
SJ 03637	SJM2	SJ	1	3	2	28	29N	10W	241930	4065464*	21	10	11
SJ 03652	SJM2	SJ	1	2	2	28	29N	10W	242333	4065853*	34	6	28
SJ 03713 POD1	SJM2	SJ		3	2	22	29N	10W	243649	4066950*	265	20	245
SJ 03777 POD1	SJM2	SJ	2	4	4	29	29N	10W	240870	4064657	100	50	50

***UTM location was derived from PLSS - see Help**

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

POD Number	POD Sub-basin Code	County	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
SJ 03948 POD1	SJM2	SJ	3	4	4	21	29N	10W	242411	4065579	38	20	18

Average Depth to Water: **20 feet**

Minimum Depth: **2 feet**

Maximum Depth: **70 feet**

Record Count: 27

PLSS Search:

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

#5 30-045-08233
#6 30-045-20792

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

Operator MERIDIAN OIL Location: Unit SW Sec. 17 Twp 29 Rng 10

Name of Well/Wells or Pipeline Serviced HUBBELL #5, #6

cps 857w

Elevation 5754' Completion Date 11/20/75 Total Depth 480' 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. WET AT 150'-185'

Depths gas encountered: N/A

Type & amount of coke breeze used: 6000 lbs.

Depths anodes placed: 305', 260', 240', 220', 200'

Depths vent pipes placed: N/A

Vent pipe perforations: 220'

Remarks: gb #1

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OIL CON. DIV
DIST. 3

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

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

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

WELL CASING
CATHODIC PROTECTION CONSTRUCTION REPORT
DAILY LOG

Logged

Drilling Log (Attach Hereto). ☐

Completion Date 11-20-75

Well Name	Location	CPS No.
Hubbell #5 & #6	SW17-29-10	857w
Type & Size Bit Used		**Work Order No.**
6 3/4		91004 & 54847

Anode Hole Depth	Total Drilling Rig Time	Total Lbs. Coke Used	Lost Circulation Mat'l Used	No. Sacks Mud Used
480		6000		

	# 1	# 2	# 3	# 4	# 5	# 6	# 7	# 8	# 9	# 10
Anode Depth	305	260	240	220	200					
Anode Output (Amps)	7.0	7.6	8.2	8.2	8.6					
Anode Depth	# 11	# 12	# 13	# 14	# 15	# 16	# 17	# 18	# 19	# 20
Anode Output (Amps)										

Total Circuit Resistance			No. 8 C.P. Cable Used	No. 2 C.P. Cable Used
Volts 12.5	Amps 21.0	Ohms 0.60	1375	

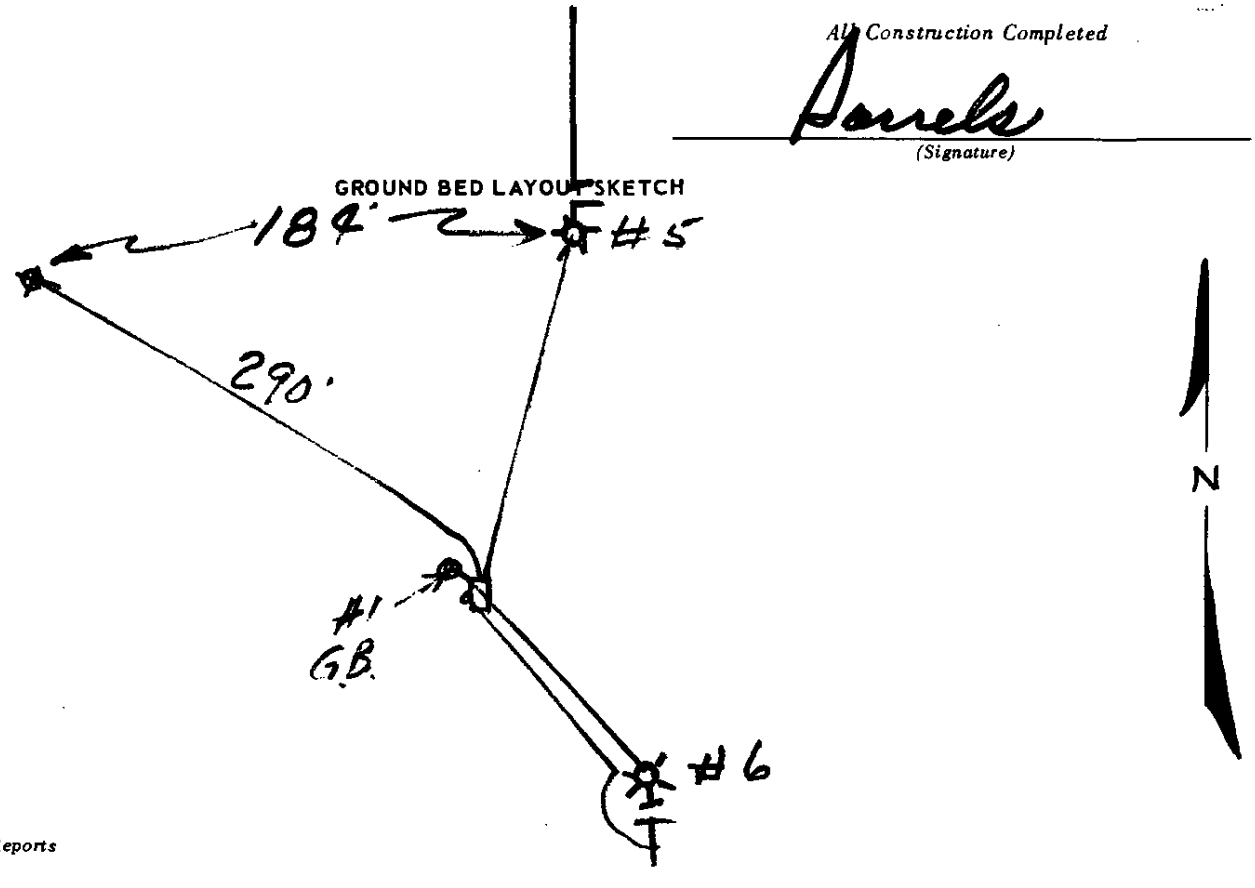
Remarks: Damp at 150-185' - Drilled to 440 - Start water injection
Drilled to 480' - Water Next A.M. at 195'
Vent Perforated 220'
Slurry 60 Sacks Coke

16 hrs

All Construction Completed

Daniels
(Signature)

GROUND BED LAYOUT SKETCH



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11-20-75 857w

80				360	2.0					Damp at 150-185
					2.4					Drilled to 440 w.d.
90	.4			70	3.4					Start inj Drill to 4
	4.6	water			3.7					water Next A.K.
200	5.0	-		80	3.4					at 195'
	5.2				3.2					
10	5.2			90	3.2					
	5.0				3.2					
20	5.0	-		400	3.0					
	5.2				3.6					
30	5.0			10	2.6					
	5.0				2.8					
40	5.2	-		20	3.0					
	5.2				2.8					
50	-4.8			30	2.5					
	5.0				2.4					
60	5.2	-		40	2.4					
	-4.8				4.0					
70	4.8			50	3.4		1	305	6.4	7.0
	-4.5				.455 = T.D.		2	260	6.8	7.6
80	4.0	-		60			3	240	7.0	8.2
	4.6						4	220	7.2	8.2
90	-4.6			70			5	200	7.0	8.6
	4.8									
300	4.8			80						
	-5.0	-								
10	4.2									
	3.4							12.5 J	21.0	A = 0.6
20	3.0									
	2.6									
30	1.6									
	1.8									
40	2.6									
	2.4									
50	2.4									
	2.3									

MW		gals/mol
16	C_1	6.4
30	C_2	10.15
44	C_3	10.42
58	IC_4	12.38
"	NC_4	11.93
72	IC_5	13.85
"	NC_5	13.71
86	IC_6	15.50
"	C_6	15.57
100	IC_7	17.2
"	C_7	17.46
114	C_8	19.91
28	CO	9.64
42	C_3	9.67

MW	MISC.	gals/mol
44	CO_2	6.38
34	H_2S	5.17
28	N_2	4.16
2	H_2	3.18

Form 22-2 (Rev. 1-61)

EL PASO NATURAL GAS COMPANY

DRILLING DEPARTMENT

11-19-15 DAILY DRILLING REPORT

LEASE WELL NO. 57-W CONTRACTOR RIG NO. 3991 REPORT NO. DATE 19

MORNING

Driller Total Men In Crew

FROM	TO	FORMATION	WT-BIT	R.P.M.
0.0	3'	Sand		
3'	75'	Sandstone		
75'	85'	Shale		
85'	97'	Sandstone		
97'	100'	Shale		

BIT NO. NO. DC SIZE LENG.

BIT NO. NO. DC SIZE LENG.

SERIAL NO. STANDS

SIZE SINGLES

TYPE DOWN ON KELLY

MAKE TOTAL DEPTH

MUD RECORD

Time	Wt.	Vis.

MUD, ADDITIVES USED AND RECEIVED

FROM	TO	TIME BREAKDOWN
235'	240'	Sandstone
240'	246'	Shale
246'	296'	Sandstone
296'	299'	Shale
299'	309'	Sandstone
309'	311'	Shale

REMARKS –

Damp @ 150'-160'
Wet 160-185

Damp @ 280-300
360-440

Inject 440-480

Water @ 200 11-20-15

DAYLIGHT

Driller Total Men In Crew

FROM	TO	FORMATION	WT-BIT	R.P.M.
100'	185'	Sandstone		
185'	195'	Shale		
195'	202'	Sandstone		
202'	205'	Shale		

BIT NO. NO. DC SIZE LENG.

BIT NO. NO. DC SIZE LENG.

SERIAL NO. STANDS

SIZE SINGLES

TYPE DOWN ON KELLY

MAKE TOTAL DEPTH

MUD RECORD

Time	Wt.	Vis.

MUD, ADDITIVES USED AND RECEIVED

FROM	TO	TIME BREAKDOWN
[illegible]	458'	Sandstone
458'	462'	Shale
462'	480	Sandstone
480'	—	TD

REMARKS –

EVENING

Driller Total Men In Crew

FROM	TO	FORMATION	WT-BIT	R.P.M.
205'	220'	Sandstone		
220'	225'	Shale		
225'	232'	Sandstone		
232'	235'	Shale		

BIT NO. NO. DC SIZE LENG.

BIT NO. NO. DC SIZE LENG.

SERIAL NO. STANDS

SIZE SINGLES

TYPE DOWN ON KELLY

MAKE TOTAL DEPTH

MUD RECORD

Time	Wt.	Vis.

MUD, ADDITIVES USED AND RECEIVED

FROM	TO	TIME BREAKDOWN

REMARKS –

SIGNED: Toolpusher Jimmy Jones Company Supervisor

FEUILLE A #1 30-045-08682 5174
WOOD #3 30-045-08350
30-045-21451

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

Operator MERIDAIN OIL Location: Unit NE Sec. 17 Twp 29 Rng 10

Name of Well/Wells or Pipeline Serviced FEUILLE A #1, WOOD #3,

SAN JACINTO #10 cps 750w

Elevation 5701' Completion Date 11/29/73 Total Depth 300' 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. 120'

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OIL CON. DIV.
DIST. 3

Depths gas encountered: N/A

Type & amount of coke breeze used: 4700 lbs.

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

Depths vent pipes placed: N/A

Vent pipe perforations: 165'

Remarks: gb #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.

El Paso Natural Gas Company

Form 7-238 (Rev. 1-69)

WELL CASING

CATHODIC PROTECTION CONSTRUCTION REPORT

DAILY LOG

GB#3

Drilling Log (Attach Hereto) ☒ Completion Date 11-29-73

Well Name	Location	CPS No.
Wood #3 & Feuille A#2	NE17-29-10	750W

Type & Size Bit Used	Work Order No.
6 3/4	91005 & 53377

Anode Hole Depth	Total Drilling Rig Time	Total Lbs. Coke Used	Lost Circulation Mat'l Used	No. Sacks Mud Used
300		4700		

	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10
Anode Depth	270	260	250	240	230	220	210	200	190	180
Anode Output (Amps)	3.4	4.4	4.5	4.6	4.5	3.2	2.3	2.1	2.2	2.1
Anode Depth	170	160								
Anode Output (Amps)	1.9	2.3								

Total Circuit Resistance			No. 8 C.P. Cable Used	No. 2 C.P. Cable Used
Volts 11.5	Amps 14.0	Ohms 0.82		

Remarks: Hit Boulders at 14' to 17' - Changed to Mud & Drilled to 300'. Vent Perforated 165'-
Pump Hose Plugged After #6 Anode was Covered - Pump Was Down 30 Minutes ± while Pulled hose & Install New hose Anode 7 thro 12 was tight When Pumping resumed.
Believe Anodes stuck to side wall
Pump 32 Slurry 15 Bags Coke

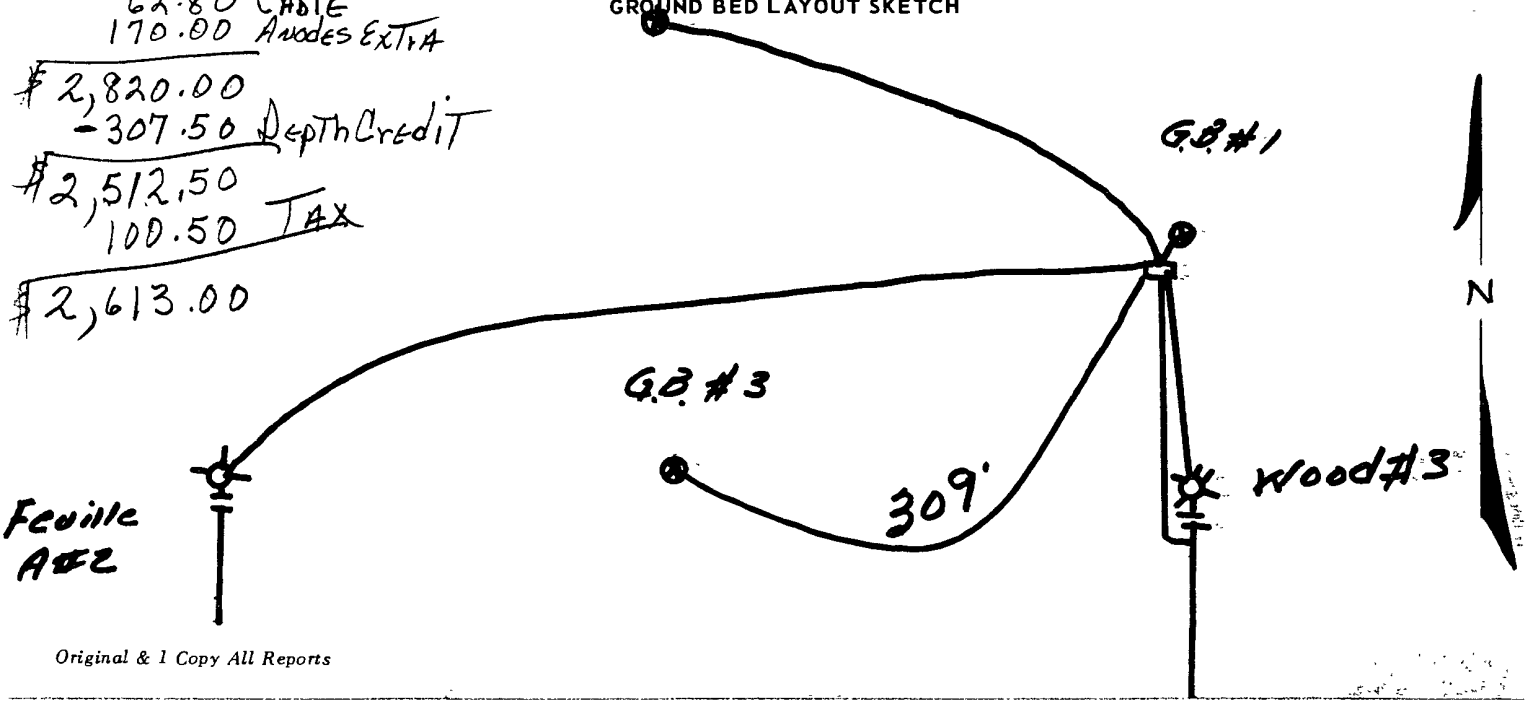
All Construction Completed

Daniels
(Signature)

$2,230.00
357.20 Coke
62.80 Cable
170.00 Anodes Extra
$2,820.00
-307.50 Depth Credit
$2,512.50
100.50 Tax
$2,613.00

GB #2

GROUND BED LAYOUT SKETCH



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Form 7-1 (Rev. 5-67)

EL PASO NATURAL GAS COMPANY

ENGINEERING DEPARTMENT

Sheet
Date:
By:

260
170
160

750 W – 11-29-73

1	20	1.7	Hit Boulders at 147
		1.8	Chng to Mud
	30	1.5	Log on orig G.B.
		1.4	Show Wet at 120'
	40	1.4	
		1.5	
	50	1.6	Vent Perf 165'
		2.0	
	60	1.8	Pump 32 Bags
		1.5	Slurry 15 Bags
	70	1.6	
		1.7	
	80	1.7	
		1.8	
	90	1.8	Log wt ok
		1.8	1 270 1.9 2.5 3.4
2	00	1.7	2 260 3.3 3.5 4.4
		1.8	3 250 3.5 3.5 4.5
	10	2.0	4 240 3.6 3.7 4.6
		2.3	5 230 3.1 3.6 4.5
	20	2.5	6 220 2.5 2.5 3.2
		3.3	7 210 2.0 1.8 2.3
	30	3.1	8 200 1.7 1.7 2.1
		3.4	9 190 1.8 1.8 2.2
	40	3.6	10 180 1.7 1.7 2.1
		3.5	11 170 1.6 1.5 1.9
	50	3.5	12 160 1.8 2.0 2.3
		3.2	
	60	3.3	
		2.4	11.5 √ 14.0 = 0.82 √
	70	1.9	
		1.6	
	80	2.0	
	87	2.4	
	90	2.5	
	92	TD	

3063.00

DRILLING DEPARTMENT

DAILY DRILLING REPORT

LEASE C.P.S. #750-W WELL NO. CONTRACTOR Moore RIG NO. REPORT NO. DATE 11-29 1973

MORNING

Driller Total Men In Crew

FROM	TO	FORMATION	WT-BIT	R.P.M.
0	14	Sand		
14	17	Caliche		
17	120	Sand [redacted]		
120	120	Wet Sand (Water)		

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

MUD RECORD

Time	Wt.	Vis.

MUD, ADDITIVES USED AND RECEIVED

FROM	TO	TIME BREAKDOWN

REMARKS –

DAYLIGHT

Driller Total Men In Crew

FROM	TO	FORMATION	WT-BIT	R.P.M.
120	220	Sandy Shale		
220	390	Shale		

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

MUD RECORD

Time	Wt.	Vis.

MUD, ADDITIVES USED AND RECEIVED

Drilled with Mud from 14'

FROM	TO	TIME BREAKDOWN

REMARKS –

EVENING

Driller Total Men In Crew

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

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

MUD RECORD

Time	Wt.	Vis.

MUD, ADDITIVES USED AND RECEIVED

C.H.S.

FROM	TO	TIME BREAKDOWN

REMARKS –

SIGNED: Toolpusher Dick Moore Company Supervisor

#SE 30-045-07956
#2 30-045-08405

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

Operator Meridian Oil Inc. Location: Unit E Sec. 17 Twp 29 Rng 10

Name of Well/Wells or Pipeline Serviced Hubbell #5E, Hubbell #2

Elevation 5760 Completion Date 7-18-95 Total Depth 392 Land Type F

Casing Strings, Sizes, Types & Depths 100' of 8" P.V.C

If Casing Strings are cemented, show amounts & types used 21 bags of type II

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. 140' and was clear

Depths gas encountered: No gas

Ground bed depth with type & amount of coke breeze used: 392' with 113 (50 lb.) sacks of Asbury 218R

Depths anodes placed: #1 is at 360' and #15 is at 165'

Depths vent pipes placed: Bottom to Surface

Vent pipe perforations: Up to 130'

Remarks:

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JAN 11 1996
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.

B

744

6-30-045-08130
8-30-045-20093
9-30-045-21224

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

Operator MERIDIAN OIL Location: Unit NW Sec. 20 Twp 29 Rng 10

Name of Well/Wells or Pipeline Serviced SAN JACINTO #6, #8, #9

cps 1037w

Elevation 5608' Completion Date 11/19/75 Total Depth 300' Land Type* N/A

Casing, Sizes, Types & Depths 27' OS STEEL CASING

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

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

N/A

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

Fresh, Clear, Salty, Sulphur, Etc. 90'

Depths gas encountered: N/A

Type & amount of coke breeze used: 6000 lbs.

Depths anodes placed: 245', 235', 225', 215', 205', 195', 185', 175', 165', 155'

Depths vent pipes placed: N/A

Vent pipe perforations: 220'

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.

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

WELL CASING
CATHODIC PROTECTION CONSTRUCTION REPORT
DAILY LOG

Logged

Drilling Log (Attach Hereto). ☐

Completion Date 11-19-75

Well Name	Location	CPS No.
San Jacinto #6, 8 & 9	NW 20-29-10	1037W

Type & Size Bit Used	Work Order No.
6 3/4	54330, 54493 & 5534

Anode Hole Depth	Total Drilling Rig Time	Total Lbs. Coke Used	Lost Circulation Mat'l Used	No. Sacks Mud Used
300		6000		

	# 1	# 2	# 3	# 4	# 5	# 6	# 7	# 8	# 9	# 10
Anode Depth	245	235	225	215	205	195	185	175	165	155
Anode Output (Amps)	4.0	8.0	6.0	3.6	5.7	5.0	7.2	9.0	9.2	8.8

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

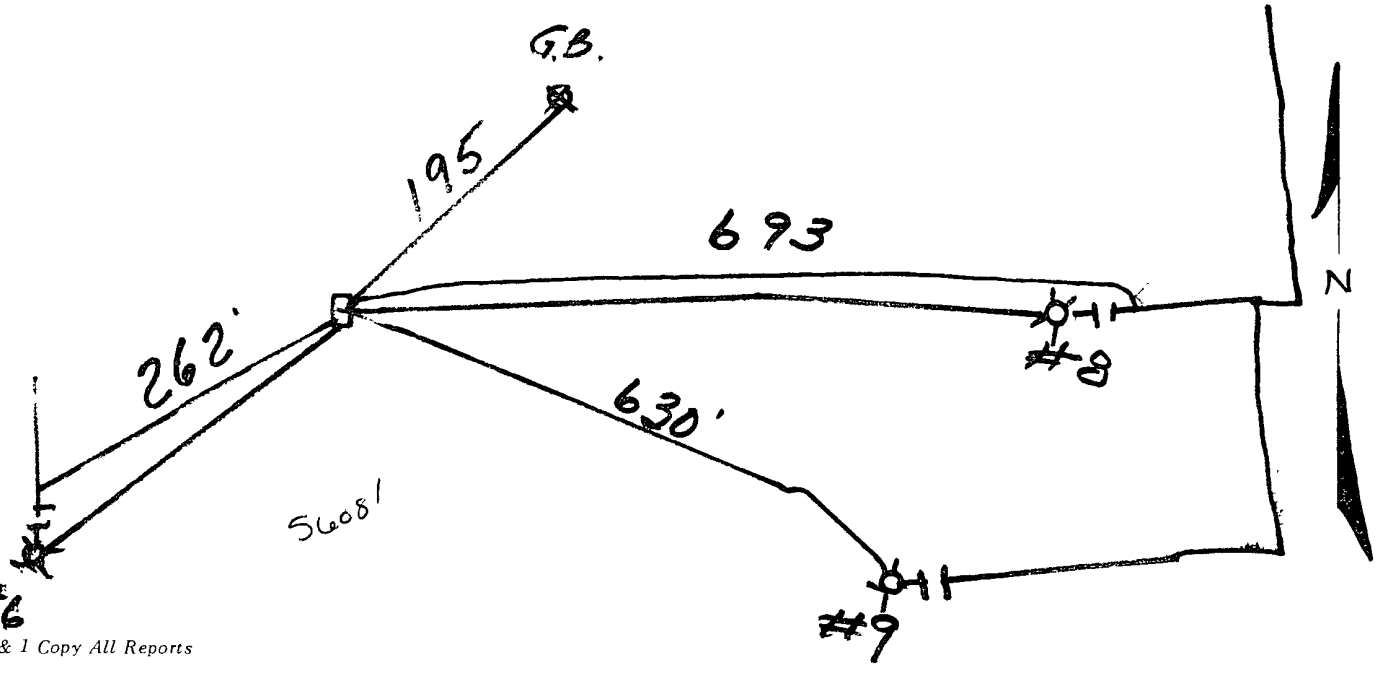
Total Circuit Resistance			No. 8 C.P. Cable Used	No. 2 C.P. Cable Used
Volts 11.7	Amps 22.0	Ohms 0.53	2300	0

Remarks: Set 27' of steel Casing - Rock & Gravel 15' to 26'. Had Trouble with Rock Falling in - Believe Rock Coming Below Casing. Drilled 60' With Mud. Mud Pump Quit. Blew Mud out & Drilled With Air & Water injection to 300' - Believe Rock Zone 15' To 26' Will Make Water.
Vent Perforated 220'
Slurry 60 Bags Coke

All Construction Completed

Darrels 3-4 hrs
(Signature)

GROUND BED LAYOUT SKETCH



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EL PASO NATURAL GAS COMPANY
ENGINEERING DEPARTMENT

Date:
By:

1037W

90	1.2	270	2.6	Drill to 140'	
	1.5		3.0	wtr. NEXTAM at 90'	
100	1.5	80	2.6	Drilled with air & wtr	
	1.3	87	T.D.	inj to 300' - Hole Caved	
10	1.6			Hung in Hole - Bit	
	1.5			Plugged -	
20	1.4			Believe Rock	
	.8			Coming From Bottom	
30	1.0			of Casing at 26'	
	1.3				
40	1.6			11-19-75	
	2.4			Water at 50'	
50	2.6			T.D. 288	
	3.4				
60	4.4			Vent Perf. 220	
	4.4				
70	4.8				
	4.8				
80	5.0				
	5.0			~~255~~	
90	4.2			1 245	3.0 4.0
	3.4			2 235	6.5 8.0
200	3.0			3 225	4.8 6.0
	3.4			4 215	2.6 3.6
10	3.4			5 205	4.3 5.7
	2.8			6 195	[illegible] 5.0
20	2.4			7 185	5.6 7.2
	3.4			8 175	7.7 9.0
30	3.7			9 165	8.0 9.2
	3.6			10 155	7.0 8.8
40	4.4			~~145~~	
	3.9				
50	2.6			220 300	
	2.6			220 11.7V 22.0A = 0.53	
60	2.8			100	
	2.3			200	

DRILLING DEPARTMENT

11-14-11-18-75 DAILY DRILLING REPORT

LEASE WELL NO. 1037-W CONTRACTOR RIG NO. 3901 REPORT NO. DATE 19

MORNING

Driller Total Men In Crew

FROM	TO	FORMATION	WT-BIT	R.P.M.
0'	15	Sand		
15'	27'	Caliche Boulders		
27'	92'	Sandstone		
92'	95	Shale		

NO. DC ____ SIZE ____ LENG. ____

BIT NO. ____ NO. DC ____ SIZE ____ LENG. ____

SERIAL NO. ____ STANDS ____

SIZE ____ SINGLES ____

TYPE ____ DOWN ON KELLY ____

MAKE ____ TOTAL DEPTH ____

MUD RECORD

Time	Wt.	Vis.

MUD, ADDITIVES USED AND RECEIVED

FROM	TO	TIME BREAKDOWN
193	300'	Sandstone
300'	—	TD.

REMARKS –

DAYLIGHT

Driller Total Men In Crew

FROM	TO	FORMATION	WT-BIT	R.P.M.
95'	125'	Sandstone		
125'	127'	Shale		
127'	166'	Sandstone		
166'	169'	Shale		

NO. DC ____ SIZE ____ LENG. ____

BIT NO. ____ NO. DC ____ SIZE ____ LENG. ____

SERIAL NO. ____ STANDS ____

SIZE ____ SINGLES ____

TYPE ____ DOWN ON KELLY ____

MAKE ____ TOTAL DEPTH ____

MUD RECORD

Time	Wt.	Vis.

MUD, ADDITIVES USED AND RECEIVED

FROM	TO	TIME BREAKDOWN

REMARKS –
Water drill to 60'
air drill from 60' to 300'
15 bags mud

EVENING

Driller Total Men In Crew

FROM	TO	FORMATION	WT-BIT	R.P.M.
169'	180'	Sandstone		
180'	183	Shale		
183	190'	Sandstone		
190'	193'	Shale		

NO. DC ____ SIZE ____ LENG. ____

BIT NO. ____ NO. DC ____ SIZE ____ LENG. ____

SERIAL NO. ____ STANDS ____

SIZE ____ SINGLES ____

TYPE ____ DOWN ON KELLY ____

MAKE ____ TOTAL DEPTH ____

MUD RECORD

Time	Wt.	Vis.

MUD, ADDITIVES USED AND RECEIVED

FROM	TO	TIME BREAKDOWN

REMARKS –

SIGNED: Toolpusher Jimmy Jones Company Supervisor

1352

2 - 30-045-08111
6E - 30-045-24057
17 - 30-045-21627

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. 20 Twp 29 Rng 10

Name of Well/Wells or Pipeline Serviced SAN JACINTO #2, #6E, HUBBELL #17

cps 1678w

Elevation 5694' Completion Date 9/13/83 Total Depth 480' Land Type* N/A

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

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

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

N/A

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

Fresh, Clear, Salty, Sulphur, Etc. 90' SAMPLE TAKEN

Depths gas encountered: N/A

Type & amount of coke breeze used: 4620 lbs.

Depths anodes placed: 455', 415', 405', 395', 385', 370', 310', 300', 235', 225'

Depths vent pipes placed: 475'

Vent pipe perforations: 400'

Remarks: gb #1

RECEIVED
MAY 31 1991
OIL CON

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 9-13-83

CPS #	Well Name, Line or Plant:	Work Order #	Static:	Ins. Union Check 36mA
1678-W	San Jacinto #2	53376-19-50-20-64	.75	☑ Good ☐ Bad
	San Jacinto #6-E	59127-21-50-20-64	.78	
	Hubbell #17			

Location.	Anode Size	Anode Type	Size Bit:
NE 20-29-10	2" X 60"	Duriron	6 3/4

Depth Drilled	Depth Logged	Drilling Rig Time	Total Lbs. Coke Used	Lost Circulation Mat'l Used	No Sacks Mud Used
480	470		approx. 4620		

	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10
Anode Depth	455	415	405	395	385	370	310	300	235	225
Anode Output (Amps)	4.9	6.0	5.7	5.6	6.2	5.3	5.9	5.4	5.3	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 12.0	Amps 22.5	Ohms .53		

Remarks: Drilled to 100', hit water at 90' Blew water from hole next morning, got water sample. Driller set 8' of 8" Casing. Installed 475' of 1" PVC vent pipe with 400' of perforations. Slurried approx 4,620 lbs Coke down hole.

Hubbel #17 - 3 Notches } Check these wires at turn on time.
San Jacinto #2 - 4 notches } Remove Bond Box at Hubbel #17 175-

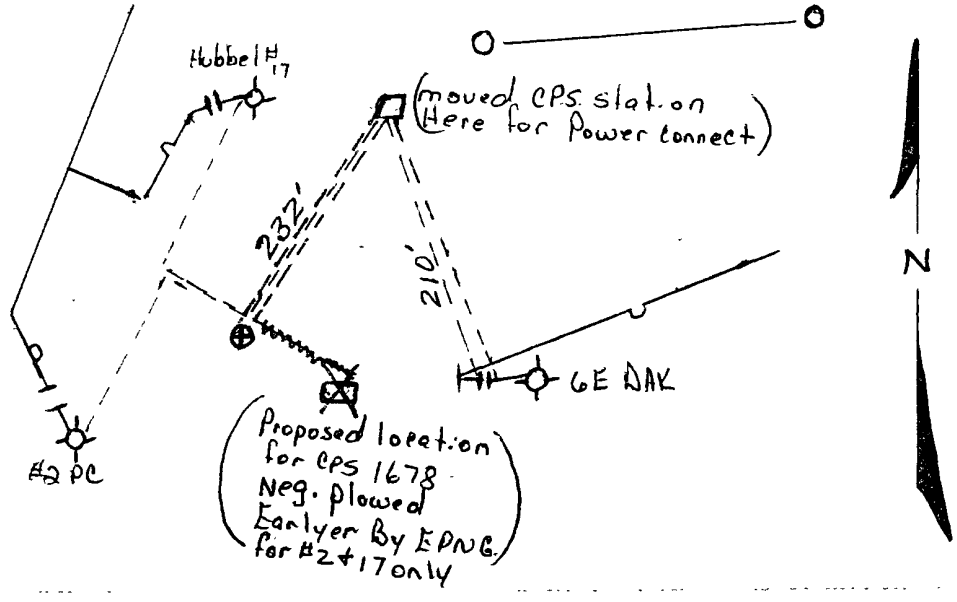
Rectifier Size: 60 V 30 A ✓
Addn'l Depth
Depth Credit: 30' ✓
Extra Cable: 699' ? (extension of neg from #2+17 plus 6E) ✓
Ditch & 1 Cable: 442'
25' Meter Pole:
20' Meter Pole: 1 ✓
10' Stub Pole:

Reg 8 | C.V. time 2 |

All Construction Completed

C. W. Donohue
(Signature)

GROUND BED LAYOUT SKETCH



5694

El Paso Natural Gas Company
ENGINEERING CALCULATION

Sheet: 1 of 1
Date: 9-13-83
By:
File:

CPS 1678-W
San Jacinto #2
San Jacinto #6-E
NE 20-29-10

W.O.# 53376-19-50-20-64
W.O.# 59127-21-50-20-64

R/E 600' NE
Stat. C = .75
Stat. C = .78
Union = 8K 36m

Drilled to 100', hit water at 90'. Blew water from hole. Next morning got water sample. Driller set 58' of 8" Casing. Installed 475' of 1" PVC vent pipe with 400' of perforations. Slurried 4,620 lbs Coke down hole.

Drilled: 480
Logged: 480

MW		gals/mol
16.04	C_1	6.4
30.07	C_2	10.12
44.10	C_3	10.42
58.12	iC_4	12.38
58.12	nC_4	11 93
72.15	iC_5	13 85
72.15	nC_5	13.71
86.18	iC_6	15.50
86.18	C_6	15.57
100.21	iC_7	17 2
100.21	C_7	17.46
114.23	C_8	19.39
28.05	$C_2^=$	9.64
42.08	$C_3^=$	9.67

MISC. MW		gals/mol
32.00	O_2	3 37
28.01	CO	4 19
44.01	CO_2	6 38
64.06	SO_2	5 50
34 08	H_2S	5 17
28 01	N_2	4 16
2.02	H_2	3 38

1	00		315	3.4
	05		320	2.4
	10		25	2.6
	15	.5	30	2.6
	20	.8	35	2.6
	25	1.1	40	2.2
	30	1.3	45	3.0
	35	2.0	50	3.0
	40	2.4	55	1.9
	45	3.2	60	2.9
	50	3.4	65	4.2
	55	3.4	70	4.8 (6)
	60	4.0	75	5.0
	65	3.5	80	4.3
	20	4.0	85	4.1 (5)
	75	4.5	90	4.4
	80	4.8	95	4.4 (4)
	85	5.0	400	4.5
	90	4.2	05	4.7 (3)
	95	2.1	10	4.7
2	00	2.0	15	4.5 (2)
	05	2.3	20	3.6
	10	2.5	25	2.4
	15	3.1	30	2.2
	20	3.2	35	2.1
	25	4.4 (10)	40	2.2
	30	4.6	45	2.1
	35	4.6 (9)	50	3.3
	40	3.4	55	4.3 (1)
	45	3.5	60	4.3
	50	3.3	65	3.6
	55	2.7	70	TD
	60	2.6	75	
	65	2.6	80	
	70	2.6	85	
	75	2.2	90	
	80	1.6	95	
	85	1.2	500	
	90	3.8		
	95	4.1		
3	00	4.8 (8)		
	05	4.6		
	10	4.1 (7)		

(1)	455	4.6	4.9
(2)	415	4.9	6.0
(3)	405	4.6	5.7
(4)	395	4.6	5.6
(5)	385	4.7	6.2
(6)	370	4.7	5.3
(7)	310	4.7	5.9
(8)	300	4.5	5.4
(9)	235	4.6	5.3
(10)	225	4.7	5.8

12.0 V 22.5 A .53 Ω

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

Analysis No. 1-10920 **Date** November 15, 1983

Operator El Paso Natural Gas **Well Name** San Jacinto #6-E CPS 1678W

Location NE 20-29-10 **County** San Juan **State** New Mexico

Field Blanco **Formation**

Sampled From 90 feet CPS 1678W

Date Sampled September 13, 1983 **By** Bill Donohue

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

	ppm	epm		ppm	epm
Sodium	4,340	188.7	Chloride	140	2.9
Calcium	412	20.6	Bicarbonate	183	3.0
Magnesium	56	4.6	Sulfate	10,000	208.0
Iron			Carbonate	TRACE	0
H_2S			Hydroxide	0	0

Total Solids Dissolved 17,666

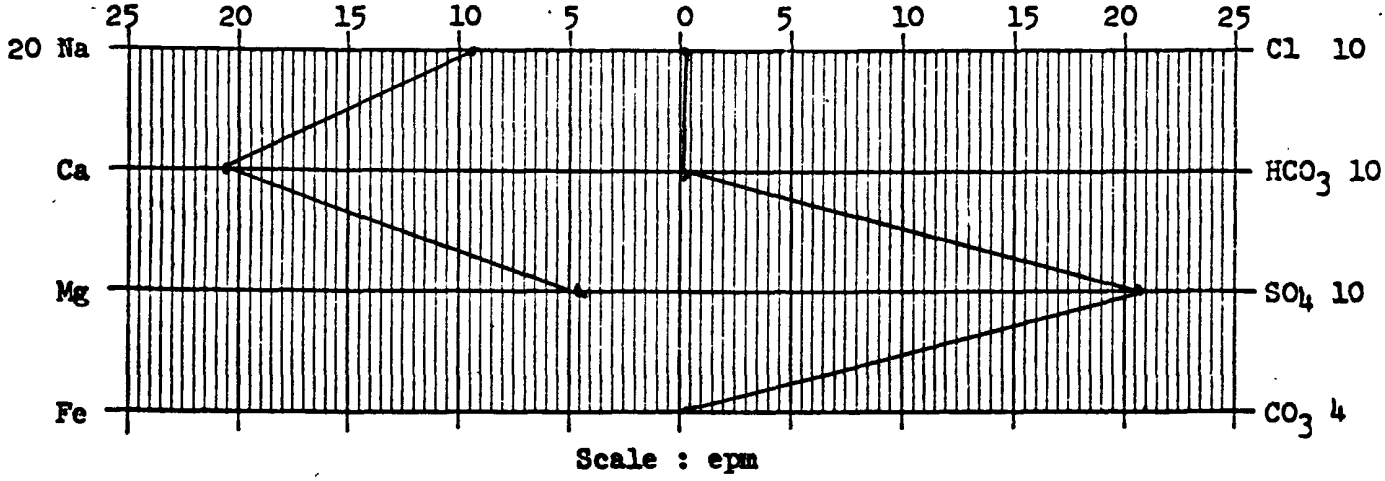
pH 8.5

Sp. Gr. 1.0167 **At** 60°F

Resistivity 43 **ohm-cm at** 75°F

Joe Barnett
Chemist GCK

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



Form 22-2 (Rev. 1-61)

EL PASO NATURAL GAS COMPANY

DRILLING DEPARTMENT

DAILY DRILLING REPORT

LEASE: #1178-W   WELL NO.: San Jacinto #6-E   CONTRACTOR: Loftis Co.   RIG NO.: 121   REPORT NO.:   DATE: 9-13-83 19

MORNING					DAYLIGHT					EVENING				
Driller		Total Men In Crew			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	Sand & Boulders			215	255	Sandy shale			420	470	shale		
20	120	sandstone			255	285	Sandstone							
120	195	shale			285	315	shale							
195	215	Sandstone			315	420	Sandstone							

MORNING		DAYLIGHT		EVENING	
	NO. DC ___ SIZE ___ LENG. ___		NO. DC ___ SIZE ___ LENG. ___		NO. DC ___ SIZE ___ LENG. ___
BIT	NO. DC ___ SIZE ___ LENG. ___	BIT NO.	NO. DC ___ SIZE ___ LENG. ___	BIT NO.	NO. DC ___ SIZE ___ LENG. ___
SER. NO.	STANDS	SERIAL NO.	STANDS	SERIAL NO.	STANDS
SIZE	SINGLES	SIZE	SINGLES	SIZE	SINGLES
TYPE	DOWN ON KELLY	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 –	REMARKS –
50 g.p.m. water		

SIGNED: Toolpusher ____________________ Company Supervisor C. W. [illegible]

3605 07993

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

30-045-~~26753~~

Operator Meridian Oil Location: Unit L Sec. 22 Twp 29 Rng 10

Name of Well/Wells or Pipeline Serviced Albright #7

Elevation 5585 Completion Date _____ Total Depth _____ Land Type _____

Casing Strings, Sizes, Types & Depths 8" PVC surface casing 86' deep

If Casing Strings are cemented, show amounts & types used Yes 16 bags neat cement

If Cement or Bentonite Plugs have been placed, show depths & amounts used Yes; 25' plug from 105' to 80'

Depths & thickness of water zones with description of water: Fresh, Clear, Salty, Sulphur, Etc. 140'

Depths gas encountered: No

Ground bed depth with type & amount of coke breeze used: 448' deep w/ 61 (100lbs) Loresco Type SW

Depths anodes placed: 430, 420, 410, 400, 390, 380, 370, 360, 350, 340, 310, 300, 290, 280, 265

Depths vent pipes placed: 448'

Vent pipe perforations: bottom 320'

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.

ENSOLUM

APPENDIX C

Executed C-138 Solid Waste Acceptance Form

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

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

Form C-138
Revised 08/01/11

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

97057-1125

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

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

PayKey:RB21200
PM: Gary Turner
AFE: N66843

2. Originating Site:
Trujillo GC #1R

3. Location of Material (Street Address, City, State or ULSTR):
UL K Section 21 T29N R10W; 36.711165, -107.894347

July 2023

4. Source and Description of Waste:
Source: Remediation activities associated with a natural gas pipeline leak.
Description: Hydrocarbon/Condensate impacted soil associated natural gas pipeline release.
Estimated Volume 50 (yd³ / bbls) Known Volume (to be entered by the operator at the end of the haul) 260/15 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) 7-17-2023, representative for Enterprise Products Operating authorizes Envirotech, Inc. to complete
Generator Signature
the required testing/sign the Generator Waste Testing Certification.

I, Enviro 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: Riley Industrial/ Enterprise and Subcontractors

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: **Envirotech Inc. Soil Remediation Facility * Permit #: NM 01-0011**
Address of Facility: **Hilltop, 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: 7/18/23
SIGNATURE: _____ TELEPHONE NO.: 505-632-0615
Surface Waste Management Facility Authorized Agent

ENSOLUM

APPENDIX D

Photographic Documentation

SITE PHOTOGRAPHS

Closure Report
Enterprise Field Services, LLC
Trujillo Gas Com #1R (07/11/23)
Ensolum Project No. 05A1226253

ENSOLUM

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

SITE PHOTOGRAPHS

Closure Report
Enterprise Field Services, LLC
Trujillo Gas Com #1R (07/11/23)
Ensolum Project No. 05A1226253

ENSOLUM

Photograph 4 Photograph Description: View of the site after initial restoration.	
Photograph 5 Photograph Description: View of the site after initial restoration.	

ENSOLUM

APPENDIX E

Regulatory Correspondence

From:	Velez, Nelson, EMNRD
To:	Long, Thomas
Cc:	Stone, Brian
Subject:	Re: [EXTERNAL] Trujillo Gas Com #1R - UL K Section T29 Range 10W; 36.711180, -107.894340; NMOCD Incident # nAPP2319227547
Date:	Wednesday, July 19, 2023 1:04:16 PM
Attachments:	image002.png Outlook-qu2t5ppq.png

[Use caution with links/attachments]

You are good to go. Thanks

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: Wednesday, July 19, 2023 12:30 PM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Cc: Stone, Brian <bmstone@eprod.com>
Subject: RE: [EXTERNAL] Trujillo Gas Com #1R - UL K Section T29 Range 10W; 36.711180, -107.894340; NMOCD Incident # nAPP2319227547

Nelson,

I would like to amend the sampling date to today July 19, 2023. My apologies.

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

From: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Sent: Wednesday, July 19, 2023 9:52 AM
To: Long, Thomas <tjlong@eprod.com>
Cc: Stone, Brian <bmstone@eprod.com>
Subject: Re: [EXTERNAL] Trujillo Gas Com #1R - UL K Section T29 Range 10W; 36.711180, -107.894340; NMOCD Incident # nAPP2319227547

[Use caution with links/attachments]

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 or from an OCD pre-approved sampling plan. 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.

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: Wednesday, July 19, 2023 9:19 AM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Cc: Stone, Brian <bmstone@eprod.com>
Subject: RE: [EXTERNAL] Trujillo Gas Com #1R - UL K Section T29 Range 10W; 36.711180,

-107.894340; NMOCD Incident # nAPP2319227547

Nelson,

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 today July 20, 2023 at 12:00 p.m. at the Trujillo Gas Com #1R excavation. If you have any questions, please call or email.

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

Enterprise Products

From: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Sent: Thursday, July 13, 2023 11:49 AM
To: Long, Thomas <tjlong@eprod.com>
Cc: Stone, Brian <bmstone@eprod.com>
Subject: Re: [EXTERNAL] Trujillo Gas Com #1R - UL K Section T29 Range 10W; 36.711180, -107.894340; NMOCD Incident # nAPP2319227547

[Use caution with links/attachments]

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 or from an OCD pre-approved sampling plan. 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: Thursday, July 13, 2023 11:22 AM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Cc: Stone, Brian <bmstone@eprod.com>
Subject: [EXTERNAL] Trujillo Gas Com #1R - UL K Section T29 Range 10W; 36.711180, -107.894340; NMOCD Incident # nAPP2319227547

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

Nelson,

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 today July 13, 2023 at 2:00 p.m. at the Trujillo Gas Com #1R release site. Enterprise would like to install soil borings with a hand auger and collect soil samples to evaluate the subsurface impacts prior to mobilizing heavy equipment. The area in which the release is located is on the bank of Citizen's Ditch and Enterprise does not want to jeopardize the integrity of the ditch wall with heavy equipment. Enterprise has notified the land owner and the Bloomfield Irrigation District about these planned activities. Please acknowledge acceptance of this variance request. If you have any questions, please call or email.

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

ENSOLUM

APPENDIX F

Table 1 – Soil Analytical Summary

ENSOLUM

TABLE 1
Trujillo Gas Com #1R (07/11/23)
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 & Tier II)				**10**	**NE**	**NE**	**NE**	**50**	**NE**	**NE**	**NE**	**100**	**600**
Excavation Composite Soil Samples													
S-1	7.19.23	C	10	<0.016	<0.033	<0.033	<0.065	ND	<3.3	<9.7	<49	ND	<60
S-2	7.19.23	C	0 to 10	<0.019	<0.039	<0.039	<0.078	ND	<3.9	<9.8	<49	ND	<60
S-3	7.19.23	C	0 to 10	<0.020	<0.040	<0.040	<0.080	ND	<4.0	<10	<50	ND	<60
S-4	7.19.23	C	0 to 10	<0.020	<0.040	<0.040	<0.080	ND	<4.0	<10	<50	ND	<60
S-5	7.19.23	C	0 to 10	<0.019	<0.038	<0.038	<0.077	ND	<3.8	<9.6	<48	ND	<60
S-6	7.19.23	C	3 to 10	<0.020	<0.040	<0.040	<0.079	ND	<4.0	<10	<50	ND	110
S-7	7.19.23	C	0 to 3	<0.019	<0.037	<0.037	<0.075	ND	<3.7	<9.5	<47	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

ENSOLUM

APPENDIX G

Laboratory Data Sheets & Chain of Custody Documentation

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

July 25, 2023

Kyle Summers

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

RE: Trujillo GC 1R OrderNo.: 2307909

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 7 sample(s) on 7/20/2023 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,

Andy Freeman

Laboratory Manager

4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2307909**
Date Reported: **7/25/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-1
Project: Trujillo GC 1R **Collection Date:** 7/19/2023 2:15:00 PM
Lab ID: 2307909-001 **Matrix:** MEOH (SOIL) **Received Date:** 7/20/2023 6:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **SNS**	
Chloride	ND	60		mg/Kg	20	7/20/2023 11:23:20 AM	76353
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	7/20/2023 9:56:12 AM	76343
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/20/2023 9:56:12 AM	76343
Surr: DNOP	76.9	69-147		%Rec	1	7/20/2023 9:56:12 AM	76343
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **KMN**	
Gasoline Range Organics (GRO)	ND	3.3		mg/Kg	1	7/20/2023 10:40:00 AM	R98354
Surr: BFB	79.3	15-244		%Rec	1	7/20/2023 10:40:00 AM	R98354
EPA METHOD 8021B: VOLATILES						Analyst: **KMN**	
Benzene	ND	0.016		mg/Kg	1	7/20/2023 10:40:00 AM	R98354
Toluene	ND	0.033		mg/Kg	1	7/20/2023 10:40:00 AM	R98354
Ethylbenzene	ND	0.033		mg/Kg	1	7/20/2023 10:40:00 AM	R98354
Xylenes, Total	ND	0.065		mg/Kg	1	7/20/2023 10:40:00 AM	R98354
Surr: 4-Bromofluorobenzene	76.9	39.1-146		%Rec	1	7/20/2023 10:40:00 AM	R98354

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

Qualifiers:

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

Analytical Report
Lab Order **2307909**
Date Reported: **7/25/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-2
Project: Trujillo GC 1R **Collection Date:** 7/19/2023 2:25:00 PM
Lab ID: 2307909-002 **Matrix:** MEOH (SOIL) **Received Date:** 7/20/2023 6:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **SNS**	
Chloride	ND	60		mg/Kg	20	7/20/2023 12:00:33 PM	76353
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	7/20/2023 10:19:54 AM	76343
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/20/2023 10:19:54 AM	76343
Surr: DNOP	83.2	69-147		%Rec	1	7/20/2023 10:19:54 AM	76343
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **KMN**	
Gasoline Range Organics (GRO)	ND	3.9		mg/Kg	1	7/20/2023 11:02:00 AM	R98354
Surr: BFB	82.2	15-244		%Rec	1	7/20/2023 11:02:00 AM	R98354
EPA METHOD 8021B: VOLATILES						Analyst: **KMN**	
Benzene	ND	0.019		mg/Kg	1	7/20/2023 11:02:00 AM	R98354
Toluene	ND	0.039		mg/Kg	1	7/20/2023 11:02:00 AM	R98354
Ethylbenzene	ND	0.039		mg/Kg	1	7/20/2023 11:02:00 AM	R98354
Xylenes, Total	ND	0.078		mg/Kg	1	7/20/2023 11:02:00 AM	R98354
Surr: 4-Bromofluorobenzene	77.3	39.1-146		%Rec	1	7/20/2023 11:02:00 AM	R98354

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

Qualifiers:

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

Analytical Report
Lab Order **2307909**
Date Reported: **7/25/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-3
Project: Trujillo GC 1R **Collection Date:** 7/19/2023 2:35:00 PM
Lab ID: 2307909-003 **Matrix:** MEOH (SOIL) **Received Date:** 7/20/2023 6:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **SNS**	
Chloride	ND	60		mg/Kg	20	7/20/2023 12:12:58 PM	76353
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	7/20/2023 10:43:35 AM	76343
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/20/2023 10:43:35 AM	76343
Surr: DNOP	79.4	69-147		%Rec	1	7/20/2023 10:43:35 AM	76343
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **KMN**	
Gasoline Range Organics (GRO)	ND	4.0		mg/Kg	1	7/20/2023 11:24:00 AM	R98354
Surr: BFB	77.3	15-244		%Rec	1	7/20/2023 11:24:00 AM	R98354
EPA METHOD 8021B: VOLATILES						Analyst: **KMN**	
Benzene	ND	0.020		mg/Kg	1	7/20/2023 11:24:00 AM	R98354
Toluene	ND	0.040		mg/Kg	1	7/20/2023 11:24:00 AM	R98354
Ethylbenzene	ND	0.040		mg/Kg	1	7/20/2023 11:24:00 AM	R98354
Xylenes, Total	ND	0.080		mg/Kg	1	7/20/2023 11:24:00 AM	R98354
Surr: 4-Bromofluorobenzene	77.2	39.1-146		%Rec	1	7/20/2023 11:24:00 AM	R98354

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

Qualifiers:

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

Analytical Report
Lab Order **2307909**
Date Reported: **7/25/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-4
Project: Trujillo GC 1R **Collection Date:** 7/19/2023 2:45:00 PM
Lab ID: 2307909-004 **Matrix:** MEOH (SOIL) **Received Date:** 7/20/2023 6:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **SNS**	
Chloride	ND	60		mg/Kg	20	7/20/2023 12:25:23 PM	76353
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	7/20/2023 11:07:20 AM	76343
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/20/2023 11:07:20 AM	76343
Surr: DNOP	76.2	69-147		%Rec	1	7/20/2023 11:07:20 AM	76343
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **KMN**	
Gasoline Range Organics (GRO)	ND	4.0		mg/Kg	1	7/20/2023 11:46:00 AM	R98354
Surr: BFB	81.1	15-244		%Rec	1	7/20/2023 11:46:00 AM	R98354
EPA METHOD 8021B: VOLATILES						Analyst: **KMN**	
Benzene	ND	0.020		mg/Kg	1	7/20/2023 11:46:00 AM	R98354
Toluene	ND	0.040		mg/Kg	1	7/20/2023 11:46:00 AM	R98354
Ethylbenzene	ND	0.040		mg/Kg	1	7/20/2023 11:46:00 AM	R98354
Xylenes, Total	ND	0.080		mg/Kg	1	7/20/2023 11:46:00 AM	R98354
Surr: 4-Bromofluorobenzene	78.2	39.1-146		%Rec	1	7/20/2023 11:46:00 AM	R98354

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

Qualifiers:

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

Analytical Report
Lab Order **2307909**
Date Reported: **7/25/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-5
Project: Trujillo GC 1R **Collection Date:** 7/19/2023 2:50:00 PM
Lab ID: 2307909-005 **Matrix:** MEOH (SOIL) **Received Date:** 7/20/2023 6:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **SNS**	
Chloride	ND	60		mg/Kg	20	7/20/2023 12:37:48 PM	76353
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	7/20/2023 11:31:04 AM	76343
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/20/2023 11:31:04 AM	76343
Surr: DNOP	78.8	69-147		%Rec	1	7/20/2023 11:31:04 AM	76343
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **KMN**	
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg	1	7/20/2023 12:07:00 PM	R98354
Surr: BFB	79.5	15-244		%Rec	1	7/20/2023 12:07:00 PM	R98354
EPA METHOD 8021B: VOLATILES						Analyst: **KMN**	
Benzene	ND	0.019		mg/Kg	1	7/20/2023 12:07:00 PM	R98354
Toluene	ND	0.038		mg/Kg	1	7/20/2023 12:07:00 PM	R98354
Ethylbenzene	ND	0.038		mg/Kg	1	7/20/2023 12:07:00 PM	R98354
Xylenes, Total	ND	0.077		mg/Kg	1	7/20/2023 12:07:00 PM	R98354
Surr: 4-Bromofluorobenzene	77.3	39.1-146		%Rec	1	7/20/2023 12:07:00 PM	R98354

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

Qualifiers:

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

Analytical Report
Lab Order **2307909**
Date Reported: **7/25/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-6
Project: Trujillo GC 1R **Collection Date:** 7/19/2023 3:00:00 PM
Lab ID: 2307909-006 **Matrix:** MEOH (SOIL) **Received Date:** 7/20/2023 6:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **SNS**	
Chloride	110	60		mg/Kg	20	7/20/2023 12:50:12 PM	76353
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	7/20/2023 11:54:48 AM	76343
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/20/2023 11:54:48 AM	76343
Surr: DNOP	81.2	69-147		%Rec	1	7/20/2023 11:54:48 AM	76343
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **KMN**	
Gasoline Range Organics (GRO)	ND	4.0		mg/Kg	1	7/20/2023 12:29:00 PM	R98354
Surr: BFB	78.5	15-244		%Rec	1	7/20/2023 12:29:00 PM	R98354
EPA METHOD 8021B: VOLATILES						Analyst: **KMN**	
Benzene	ND	0.020		mg/Kg	1	7/20/2023 12:29:00 PM	R98354
Toluene	ND	0.040		mg/Kg	1	7/20/2023 12:29:00 PM	R98354
Ethylbenzene	ND	0.040		mg/Kg	1	7/20/2023 12:29:00 PM	R98354
Xylenes, Total	ND	0.079		mg/Kg	1	7/20/2023 12:29:00 PM	R98354
Surr: 4-Bromofluorobenzene	77.4	39.1-146		%Rec	1	7/20/2023 12:29:00 PM	R98354

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

Qualifiers:

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

Analytical Report
Lab Order **2307909**
Date Reported: **7/25/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-7
Project: Trujillo GC 1R **Collection Date:** 7/19/2023 3:10:00 PM
Lab ID: 2307909-007 **Matrix:** MEOH (SOIL) **Received Date:** 7/20/2023 6:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **SNS**	
Chloride	ND	60		mg/Kg	20	7/20/2023 1:27:26 PM	76353
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	7/20/2023 12:18:35 PM	76343
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/20/2023 12:18:35 PM	76343
Surr: DNOP	82.4	69-147		%Rec	1	7/20/2023 12:18:35 PM	76343
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **KMN**	
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	7/20/2023 12:51:00 PM	R98354
Surr: BFB	78.2	15-244		%Rec	1	7/20/2023 12:51:00 PM	R98354
EPA METHOD 8021B: VOLATILES						Analyst: **KMN**	
Benzene	ND	0.019		mg/Kg	1	7/20/2023 12:51:00 PM	R98354
Toluene	ND	0.037		mg/Kg	1	7/20/2023 12:51:00 PM	R98354
Ethylbenzene	ND	0.037		mg/Kg	1	7/20/2023 12:51:00 PM	R98354
Xylenes, Total	ND	0.075		mg/Kg	1	7/20/2023 12:51:00 PM	R98354
Surr: 4-Bromofluorobenzene	75.2	39.1-146		%Rec	1	7/20/2023 12:51:00 PM	R98354

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

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2307909**

25-Jul-23

Client: ENSOLUM

Project: Trujillo GC 1R

Sample ID: **MB-76353**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **76353**	RunNo: **98371**
Prep Date: **7/20/2023**	Analysis Date: **7/20/2023**	SeqNo: **3581811** Units: **mg/Kg**

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

Sample ID: **LCS-76353**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **76353**	RunNo: **98371**
Prep Date: **7/20/2023**	Analysis Date: **7/20/2023**	SeqNo: **3581812** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.7	90	110			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2307909**

25-Jul-23

Client: ENSOLUM

Project: Trujillo GC 1R

Sample ID: **MB-76343**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **76343**	RunNo: **98368**
Prep Date: **7/20/2023**	Analysis Date: **7/20/2023**	SeqNo: **3580624** 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	7.8		10.00		77.9	69	147			

Sample ID: **LCS-76343**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **76343**	RunNo: **98368**
Prep Date: **7/20/2023**	Analysis Date: **7/20/2023**	SeqNo: **3580626** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	10	50.00	0	83.5	61.9	130			
Surr: DNOP	3.6		5.000		72.7	69	147			

Sample ID: **2307909-007AMS**	SampType: **MS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **S-7**	Batch ID: **76343**	RunNo: **98368**
Prep Date: **7/20/2023**	Analysis Date: **7/20/2023**	SeqNo: **3580634** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	9.7	48.64	0	87.8	54.2	135			
Surr: DNOP	3.6		4.864		73.5	69	147			

Sample ID: **2307909-007AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **S-7**	Batch ID: **76343**	RunNo: **98368**
Prep Date: **7/20/2023**	Analysis Date: **7/20/2023**	SeqNo: **3580635** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	9.2	45.83	0	91.1	54.2	135	2.32	29.2	
Surr: DNOP	3.4		4.583		74.9	69	147	0	0	

Sample ID: **MB-76333**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **76333**	RunNo: **98368**
Prep Date: **7/19/2023**	Analysis Date: **7/20/2023**	SeqNo: **3581346** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	10		10.00		101	69	147			

Sample ID: **LCS-76333**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **76333**	RunNo: **98368**
Prep Date: **7/19/2023**	Analysis Date: **7/21/2023**	SeqNo: **3581347** 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 Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2307909**

25-Jul-23

Client: ENSOLUM

Project: Trujillo GC 1R

Sample ID: **LCS-76333**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **76333**	RunNo: **98368**
Prep Date: **7/19/2023**	Analysis Date: **7/21/2023**	SeqNo: **3581347** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.4		5.000		88.4	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 Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2307909**

25-Jul-23

Client: ENSOLUM

Project: Trujillo GC 1R

Sample ID: **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **R98354**	RunNo: **98354**
Prep Date:	Analysis Date: **7/20/2023**	SeqNo: **3580124** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	86.8	70	130			
Surr: BFB	2000		1000		196	15	244			

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **R98354**	RunNo: **98354**
Prep Date:	Analysis Date: **7/20/2023**	SeqNo: **3580125** 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	840		1000		83.9	15	244			

Sample ID: **2307909-001ams**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **S-1**	Batch ID: **R98354**	RunNo: **98354**
Prep Date:	Analysis Date: **7/20/2023**	SeqNo: **3580665** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	14	3.3	16.30	0	85.0	70	130			
Surr: BFB	1200		651.9		191	15	244			

Sample ID: **2307909-001amsd**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **S-1**	Batch ID: **R98354**	RunNo: **98354**
Prep Date:	Analysis Date: **7/20/2023**	SeqNo: **3580805** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	13	3.3	16.30	0	79.7	70	130	6.41	20	
Surr: BFB	1200		651.9		181	15	244	0	0	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2307909**

25-Jul-23

Client: ENSOLUM

Project: Trujillo GC 1R

Sample ID: **100ng btex lcs** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **LCSS** Batch ID: **R98354** RunNo: **98354**

Prep Date: Analysis Date: **7/20/2023** SeqNo: **3580153** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.025	1.000	0	98.1	70	130			
Toluene	1.0	0.050	1.000	0	99.5	70	130			
Ethylbenzene	1.0	0.050	1.000	0	99.9	70	130			
Xylenes, Total	3.0	0.10	3.000	0	99.7	70	130			
Surr: 4-Bromofluorobenzene	0.81		1.000		81.2	39.1	146			

Sample ID: **mb** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **PBS** Batch ID: **R98354** RunNo: **98354**

Prep Date: Analysis Date: **7/20/2023** SeqNo: **3580154** 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	0.79		1.000		78.8	39.1	146			

Sample ID: **2307909-002ams** SampType: **MS** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **S-2** Batch ID: **R98354** RunNo: **98354**

Prep Date: Analysis Date: **7/20/2023** SeqNo: **3580807** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.74	0.019	0.7788	0	94.6	70	130			
Toluene	0.74	0.039	0.7788	0	94.7	70	130			
Ethylbenzene	0.74	0.039	0.7788	0	95.6	70	130			
Xylenes, Total	2.3	0.078	2.336	0.05236	94.2	70	130			
Surr: 4-Bromofluorobenzene	0.61		0.7788		78.9	39.1	146			

Sample ID: **2307909-002amsd** SampType: **MSD** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **S-2** Batch ID: **R98354** RunNo: **98354**

Prep Date: Analysis Date: **7/20/2023** SeqNo: **3580808** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.68	0.019	0.7788	0	87.7	70	130	7.49	20	
Toluene	0.68	0.039	0.7788	0	87.5	70	130	7.95	20	
Ethylbenzene	0.69	0.039	0.7788	0	89.2	70	130	6.98	20	
Xylenes, Total	2.1	0.078	2.336	0.05236	88.1	70	130	6.45	20	
Surr: 4-Bromofluorobenzene	0.61		0.7788		78.1	39.1	146	0	0	

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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: 2307909 RcptNo: 1

Received By: Tracy Casarrubias 7/20/2023 6:30:00 AM

Completed By: Tracy Casarrubias 7/20/2023 7:03:56 AM

Reviewed By: CMu 7/20/23

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° 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 ☐	# of preserved bottles checked for pH: (<2 or >12 unless noted) Adjusted?
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 ☐	Checked by: TMC 7/20/23 TMC 7/20/23

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: Phone number is missing on COC - TMC 7/20/23

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.3	Good	Yes	Yogi		

Chain-of-Custody Record

Client: Ensolum, LLC

Mailing Address: 606 S. Rio Grande, Suite A
Aztec, NM 87410

Phone #:

email or Fax#: ksummers@ensolum.com

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

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time: Same
☐ Standard ☒ Rush 100% Day

Project Name: Trujillo GC 1R

Project #: 05A1226254

Project Manager: K-Summers

Sampler: L. Daniell

On Ice: ☒ Yes ☐ No 40g

# of Coolers: 1

Cooler Temp(including CF): 5.3 - 0 = 5.3 (°C)

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

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2307909	BTEX / ~~MTBE~~ / ~~TMB's~~ (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, ~~NO_3~~, ~~NO_2~~, ~~PO_4~~, ~~SO_4~~	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
7/19/23	14:15	S	S-1	1x4oz jar	Cool	001	X	X					X			
7/19/23	14:25	S	S-2			002	X	X					X			
7/19/23	14:35	S	S-3			003	X	X					X			
7/19/23	14:45	S	S-4			004	X	X					X			
7/19/23	14:50	S	S-5			005	X	X					X			
7/19/23	15:00	S	S-6			006	X	X					X			
7/19/23	15:10	S	S-7			007	X	X					X			

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
7/19/23	1728				7/19/23	1728
7/19/23	1826			Courier	7/20/23	0:30

Remarks:
PM Tom Long
Pay key - RB21200
Non AFE# N66843

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

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 273090

CONDITIONS

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 273090
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	1/29/2024