



CLOSURE REPORT

Property:

Brookhaven A #2A PC (11/19/24)
Unit Letter J, S16 T31N R10W
San Juan County, New Mexico

New Mexico EMNRD OCD Incident ID No. NAPP2432426402

April 30, 2025

Ensolum Project No. 05A1226353

Prepared for:

Enterprise Field Services, LLC
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1.0 INTRODUCTION

1.1 Site Description & Background

Operator:	Enterprise Field Services, LLC / Enterprise Products Operating LLC (Enterprise)
Site Name:	Brookhaven A #2A PC (11/19/24) (Site)
NM EMNRD OCD Incident ID No.	NAPP2432426402
Location:	36.89546° North, 107.88489° West Unit Letter J, Section 16, Township 31 North, Range 10 West San Juan County, New Mexico
Property:	State of New Mexico
Regulatory:	New Mexico (NM) Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

On November 11, 2024, Enterprise personnel identified a potential release of natural gas from the Brookhaven A #2A PC well tie. Enterprise subsequently isolated and locked the pipeline out of service. On November 19, 2024, Enterprise initiated activities to remediate petroleum hydrocarbon impact, and determined the release was “reportable” due to the potential volume of impacted soil. The NM EMNRD OCD was subsequently notified.

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

1.2 Project Objective

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

2.0 CLOSURE CRITERIA

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

- The NM Office of the State Engineer (OSE) tracks the usage and assignment of water rights and water well installations and records this information in the Water Rights Reporting System (WRRS) database. Water wells and other points of diversion (PODs) are each assigned POD numbers in the database (which is searchable and includes an interactive map). No PODs with a recorded depth to water (DTW) were identified in the same Public Land Survey System (PLSS) section as the Site. Numerous PODs were identified in the adjacent PLSS sections (**Figure A, Appendix B**). PODs SJ-04328 POD6-10 are located approximately 1.05 miles southwest of the Site and are approximately 37 feet lower in elevation than the Site. The average DTW of these wells is 20 feet below grade surface (bgs).

- Numerous cathodic protection wells (CPWs) were identified in the NM EMNRD OCD imaging database in the adjacent PLSS sections. Two CPWs were identified in the same PLSS section as the Site. These CPWs are depicted on **Figure B (Appendix B)**. Documentation for the closest cathodic protection well located near the Brookhaven A #2A production pad indicates a depth to water of 100 feet below grade surface (bgs). This cathodic protection well is located approximately 0.07 miles northeast of the Site and is approximately 13 feet higher in elevation than the Site. Documentation for the cathodic protection well located near the Brookhaven Com M #1A and #15 production pads indicates a depth to water of 120 feet bgs. This cathodic protection well is located approximately 0.52 miles northwest of the Site and is approximately 43 feet higher in elevation than the Site. Documentation for the cathodic protection well located near the Kelly A #1 and #8 production pads indicates a depth to water of 110 feet bgs. This cathodic protection well is located approximately 0.66 miles east of the Site and is approximately 100 feet higher in elevation than the Site.
- The Site is located within 300 feet of a NM EMNRD OCD-defined significant watercourse (**Figure C, Appendix B**). The Site is approximately 40 feet west of a “blue-line” ephemeral wash.
- The Site is not located within 200 feet of a lakebed, sinkhole, or playa lake.
- The Site is not located within 300 feet of a permanent residence, school, hospital, institution, or church (**Figure D, Appendix B**).
- No springs, or private domestic freshwater wells used by less than five households for domestic or stock watering purposes were identified within 500 feet of the Site (**Figure E, Appendix B**).
- No freshwater wells or springs were identified within 1,000 feet of the Site (**Figure E, Appendix B**).
- The Site is not located within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to New Mexico Statutes Annotated (NMSA) 1978, Section 3-27-3.
- Based on information identified in the U.S. Fish & Wildlife Service National Wetlands Inventory Wetlands Mapper, the Site is not within 300 feet of a wetland (**Figure F, Appendix B**). The Site is located within 300 feet of a riverine. This riverine bears the “J” designation (intermittently flooded) that is generally not considered a wetland in this region. A manmade pond is located approximately 7,997 feet west of the Site.
- 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**).

The Site is located within 300 feet of a NM EMNRD OCD-defined continuously flowing or significant watercourse, resulting in a Tier I ranking. The closure criteria for soils remaining in place at the Site include:

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

¹ – Constituent concentrations are in milligrams per kilogram (mg/kg).

² – Total Petroleum Hydrocarbons (TPH). Gasoline Range Organics (GRO). Diesel Range Organics (DRO). Motor Oil/Lube Oil Range Organics (MRO).

³ – Benzene, Toluene, Ethylbenzene, and Total Xylenes (BTEX).

3.0 SOIL REMEDIATION ACTIVITIES

On November 19, 2024, Enterprise initiated activities to remediate petroleum hydrocarbon impact resulting from the release. During the remediation and corrective action activities, West States Energy Contractors, Inc., provided heavy equipment and labor support, while Ensolum provided environmental consulting support.

The excavation measured approximately 37 feet long and 34 feet wide at the maximum extents. The maximum depth of the excavation measured approximately 24 feet bgs, with a footprint of approximately 1,126 ft², including the sloped walls. The lithology encountered during the completion of remediation activities consisted primarily of silty sand and gravel.

Approximately 1,268 cubic yards (yd³) of petroleum hydrocarbon-affected soils and 35 barrels (bbls) of hydro-excavation soil cuttings and water were transported to the Envirotech, Inc., (Envirotech) landfarm in San Juan County, NM for disposal/remediation. The executed C-138 solid waste acceptance form is provided in **Appendix C**. The excavation was backfilled with imported fill and then contoured to the surrounding grade.

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

Ensolum's soil sampling program included the collection of 16 composite soil samples (S-1 through S-16) from the excavation and one composite sample (BF-1) from the backfill for laboratory analysis. The composite samples were comprised of five aliquots each and represent an estimated 200 square foot (ft²) or less sample area per guidelines outlined in Section D of 19.15.29.12 NMAC. The excavator bucket and/or hand tools were utilized to obtain fresh aliquots from the excavation and backfill. Regulatory correspondence is provided in **Appendix E**.

First Sampling Event

On December 6, 2024, sampling was performed at the Site. The NM EMNRD OCD was notified of the sampling event although no representative was present during sampling activities. Composite soil samples S-1 (20' to 24') and S-2 (20' to 24') were collected from the floor of the excavation. Composite soil sample S-3 (14' to 24') was collected from a sloped wall. Composite soil samples S-4 (7' to 14'), S-5 (7' to 14'), S-6 (0' to 20'), S-7 (0' to 20'), S-8 (0' to 20'), S-9 (0' to 24'), S-10 (0' to 24'), and S-11 (0' to 24') were collected from the walls of the excavation. Composite soil samples S-12 (7' to 24') and S-13 (7' to 24') were collected from both sloped and vertical walls.

Second Sampling Event

On January 15, 2025, sampling was performed at the Site. The NM EMNRD OCD was notified of the sampling event although no representative was present during sampling activities. Composite soil sample BF-1 was collected from the imported fill.

Third Sampling Event

On February 20, 2025, sampling was performed at the Site. The NM EMNRD OCD was notified of the sampling event although no representative was present during sampling activities. Composite soil samples S-14 (0' to 7'), S-15 (0' to 7'), and S-16 (0' to 7') were collected from the sloped walls of the excavation.

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

5.0 SOIL LABORATORY ANALYTICAL METHODS

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

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

6.0 SOIL DATA EVALUATION

Ensolum compared the benzene, BTEX, TPH, and chloride laboratory analytical results or laboratory practical quantitation limits (PQLs) / reporting limits (RLs) associated with the composite soil samples (S-1 through S-16 and BF-1) to the applicable NM EMNRD OCD closure criteria. Due to the high PQLs/RLs associated with the TPH MRO results when using EPA SW-846 Method 8015, Ensolum only compares the quantified TPH results to the New Mexico EMNRD OCD closure criteria. The laboratory analytical results are summarized in **Table 1 (Appendix F)**.

- The analytical results for the composite soil samples collected from soils remaining at the Site 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 milligrams per kilogram (mg/kg).
- The analytical results for the composite soil samples S-3 and S-11 indicate total BTEX concentrations of 0.57 mg/kg and 0.10 mg/kg, respectively, which are less than the NM EMNRD OCD closure criteria of 50 mg/kg. The analytical results for the other composite soil

samples collected from soils remaining at the Site indicate BTEX is not present at concentrations greater than laboratory PQLs/RLs, which are less than the NM EMNRD OCD closure criteria of 50 mg/kg.

- The laboratory analytical results for composite soil samples S-3, S-7, and BF-1 indicate a total combined TPH GRO/DRO/MRO concentrations ranging from 9.7 mg/kg (BF-1) to 60 mg/kg (S-7), which are less than the NM EMNRD OCD closure criteria of 100 mg/kg. Analytical results for the other composite soil samples collected from soils remaining at the Site indicate TPH GRO/DRO/MRO is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the NM EMNRD OCD closure criteria of 100 mg/kg.
- The laboratory analytical results for the composite soil samples collected from soils remaining at the Site indicate chloride is not present at concentrations greater than the laboratory PQLs/RLs, which is less than the NM EMNRD OCD closure criteria of 600 mg/kg.

7.0 RECLAMATION

The excavation was backfilled with imported fill and then contoured to the surrounding grade. The backfill and the upper four feet of the excavation have been analytically verified to be below the Tier I soil standards of 50 mg/kg BTEX, 10 mg/kg benzene, 100 mg/kg total combined TPH, and 600 mg/kg Chloride. See **APPENDIX D** and **APPENDIX F** for further documentation.

8.0 REVEGETATION

Revegetation will be addressed in accordance with 19.15.29.13 NMAC utilizing the recommended seed mix as described in the Vegetation Community Descriptions and Seed Mixes provided by the BLM Farmington Field Office. In this case the surrounding vegetation is predominantly of the Sagebrush/Grassland Vegetation Community. Enterprise will reseed the area with the appropriate seed mix during the next favorable growing season. Enterprise will provide revegetation documentation under separate cover.

9.0 FINDINGS AND RECOMMENDATION

- Seventeen 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 1,268 yd³ of petroleum hydrocarbon-affected soils and 35 bbls of hydro-excavation soil cuttings and water were transported to the Envirotech landfarm for disposal/remediation.

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

10.0 STANDARDS OF CARE, LIMITATIONS, AND RELIANCE

10.1 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).

10.2 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.

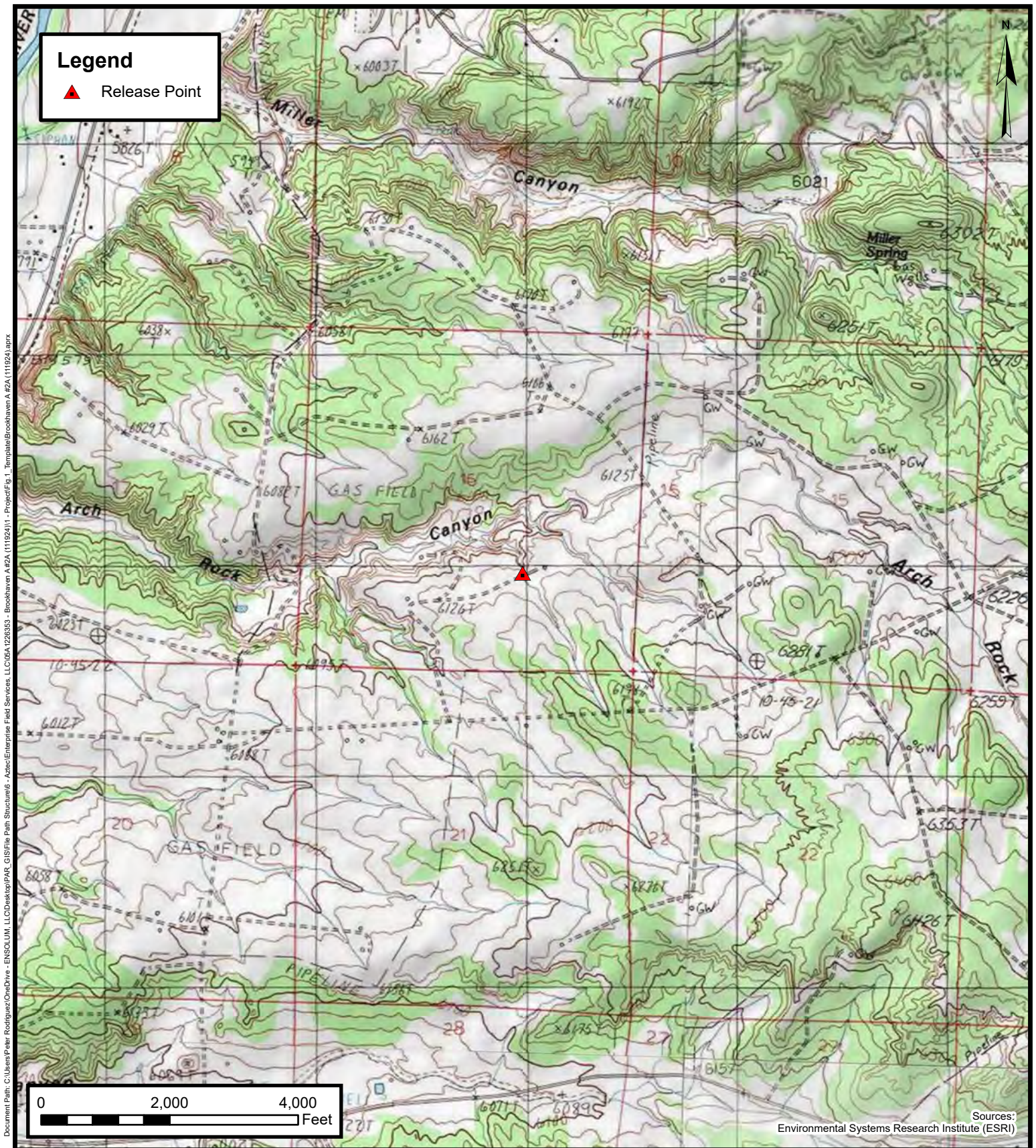
10.3 Reliance

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 this report and Ensolum's Master Services Agreement. The limitation of liability defined in the agreement is the aggregate limit of Ensolum's liability to the client.



APPENDIX A

Figures

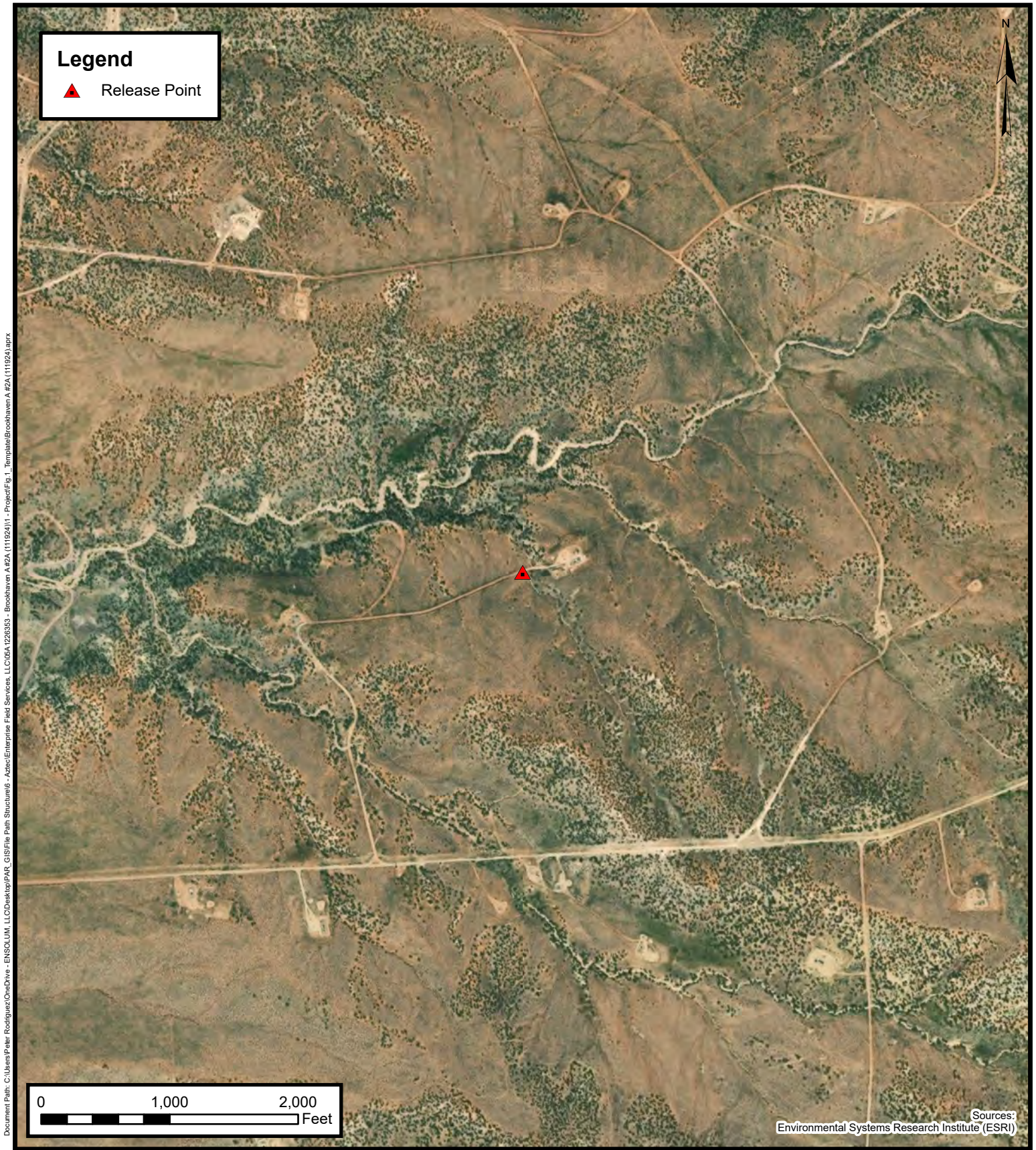


Topographic Map

Enterprise Field Services, LLC
Brookhaven A #2A (11/19/24)
Project Number: 05A1226353

Unit Letter J, S16 T31N R10W, San Juan County, New Mexico
36.89546, -107.88489

FIGURE
1

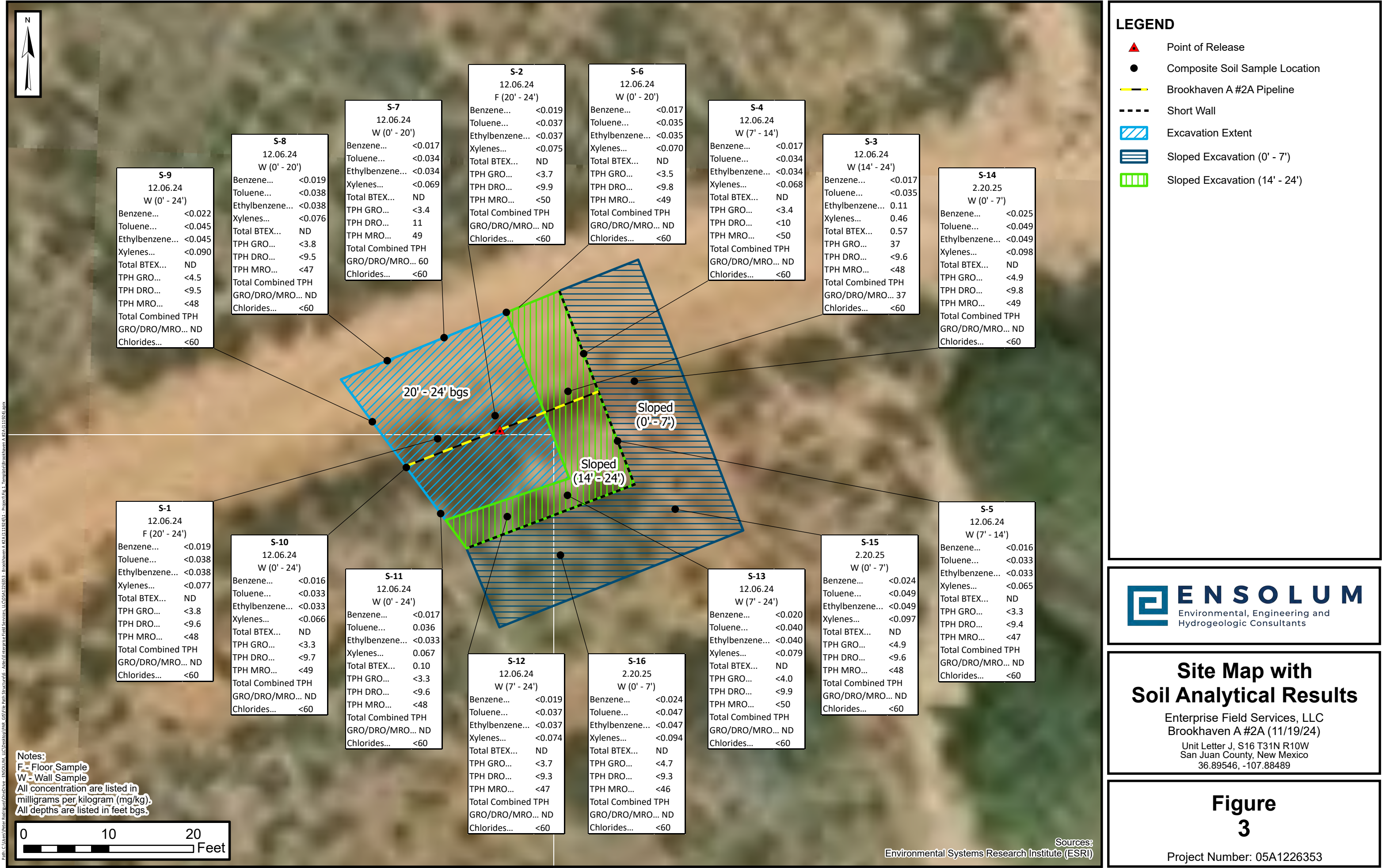


Site Vicinity Map

Enterprise Field Services, LLC
Brookhaven A #2A (11/19/24)
Project Number: 05A1226353

Unit Letter J, S16 T31N R10W, San Juan County, New Mexico
36.89546, -107.88489

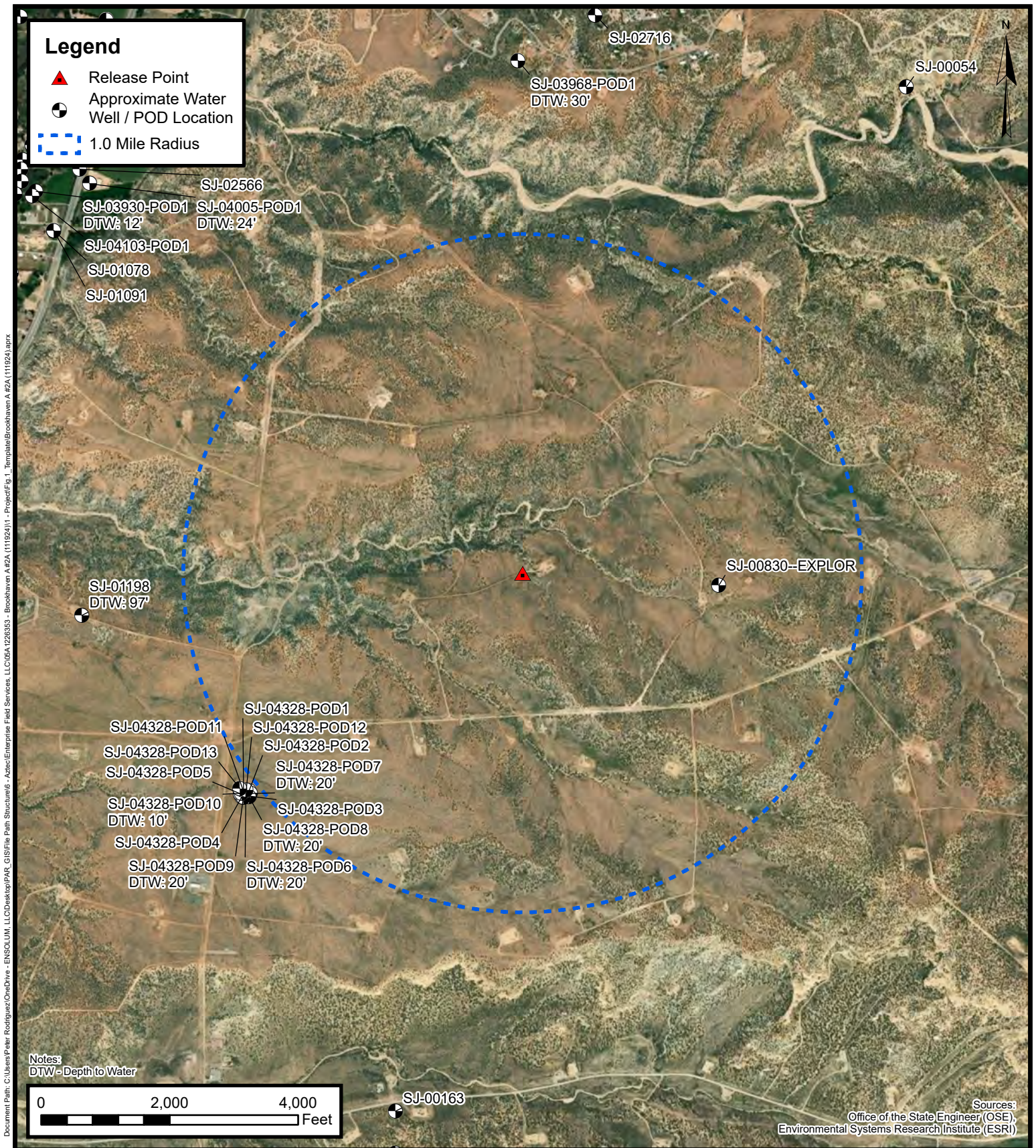
FIGURE
2





APPENDIX B

Siting Figures and Documentation

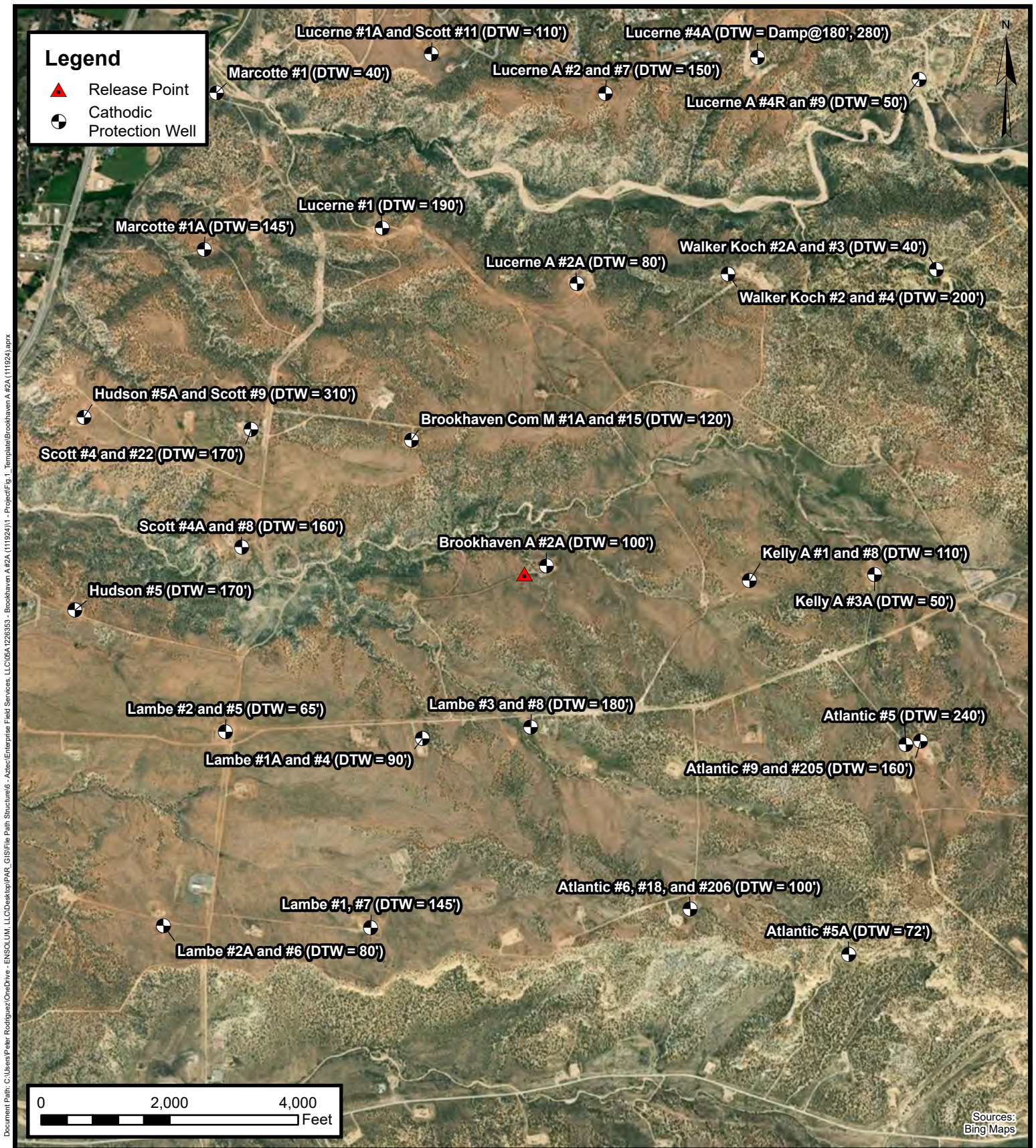


1.0 Mile Radius Water Well / POD Location Map

Enterprise Field Services, LLC
Brookhaven A #2A (11/19/24)
Project Number: 05A1226353

Unit Letter J, S16 T31N R10W, San Juan County, New Mexico
36.89546, -107.88489

**FIGURE
A**

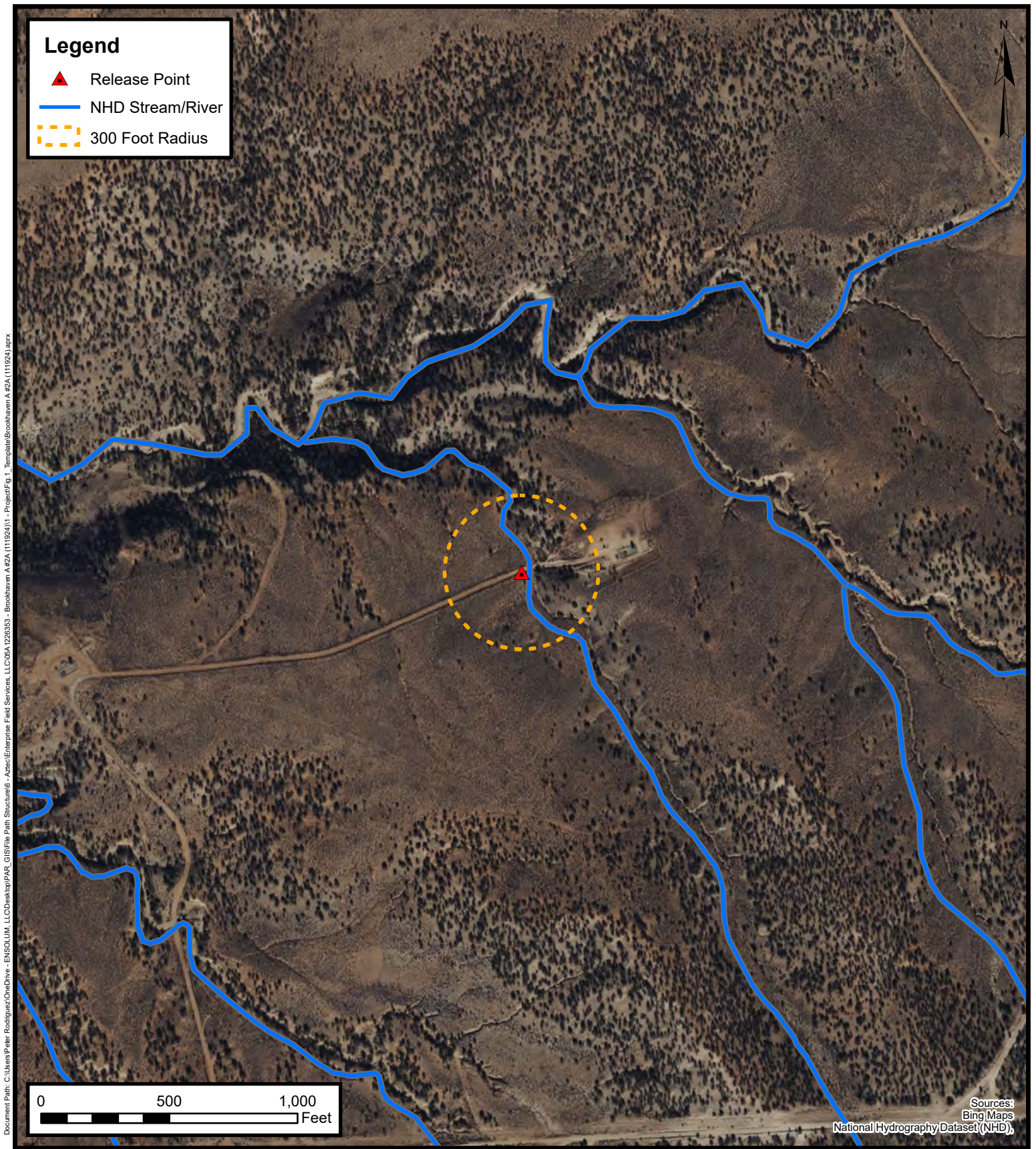


Cathodic Protection Well Recorded Depth to Water

Enterprise Field Services, LLC
Brookhaven A #2A (11/19/24)
Project Number: 05A1226353

Unit Letter J, S16 T31N R10W, San Juan County, New Mexico
36.89546, -107.88489

**FIGURE
B**



300 Foot Radius Watercourse and Drainage Identification

Enterprise Field Services, LLC

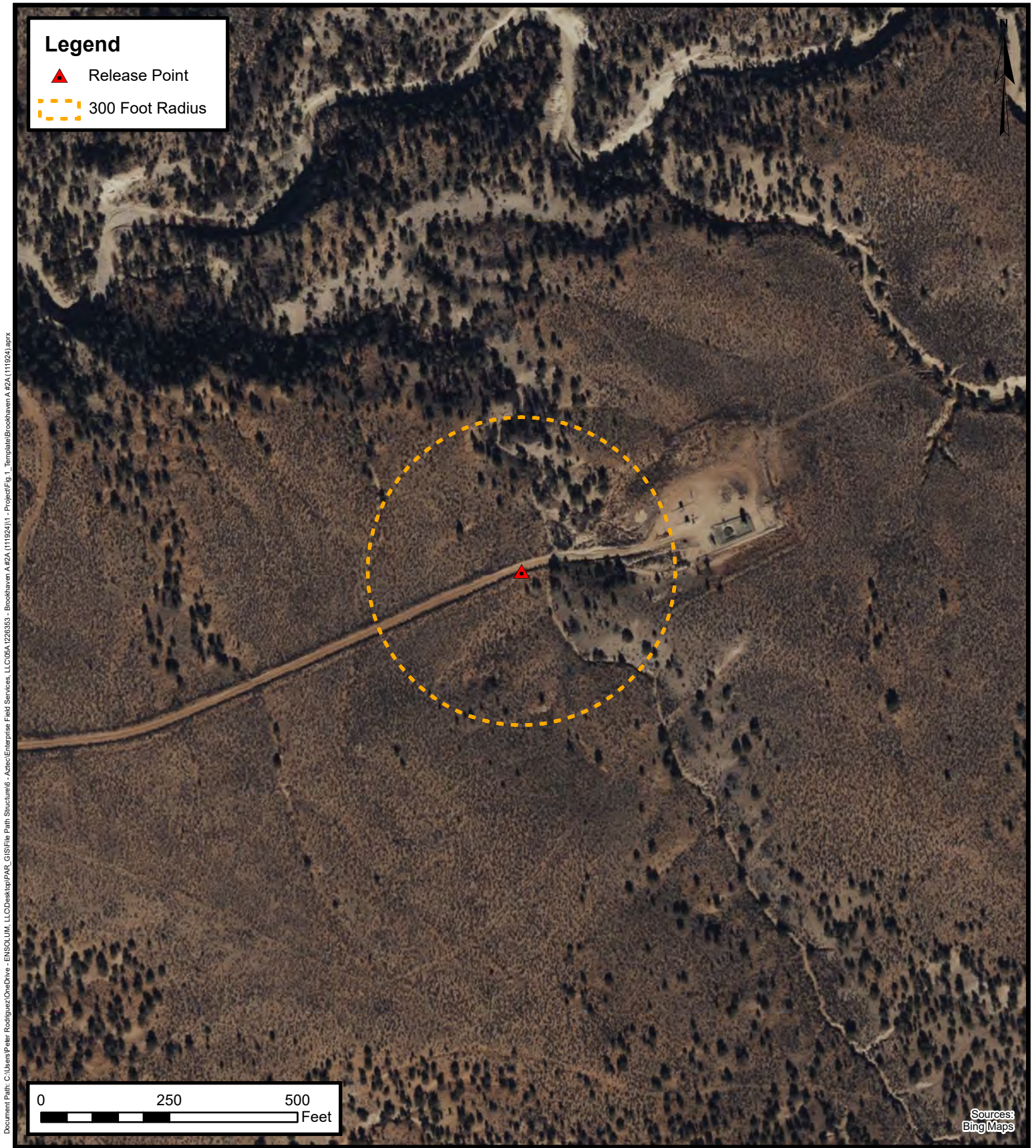
Brookhaven A #2A (11/19/24)

Project Number: 05A1226353

Unit Letter J, S16 T31N R10W, San Juan County, New Mexico
36.89546, -107.88489

FIGURE

C



**300 Foot Radius Occupied
Structure Identification**

Enterprise Field Services, LLC
Brookhaven A #2A (11/19/24)
Project Number: 05A1226353

Unit Letter J, S16 T31N R10W, San Juan County, New Mexico
36.89546, -107.88489

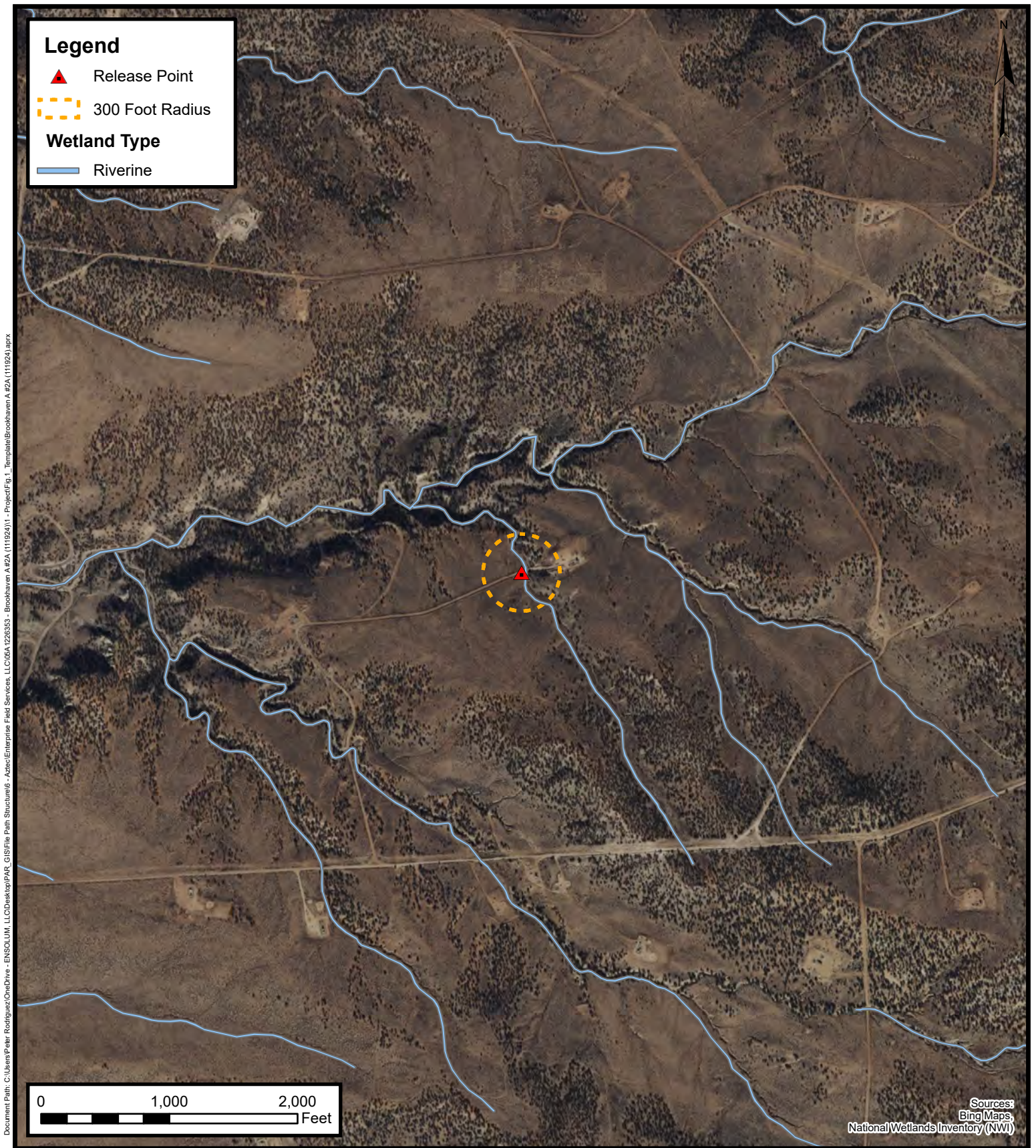
**FIGURE
D**



Water Well and Natural Spring Location

Enterprise Field Services, LLC
Brookhaven A #2A (11/19/24)
Project Number: 05A1226353
Unit Letter J, S16 T31N R10W, San Juan County, New Mexico
36.89546, -107.88489

FIGURE
E

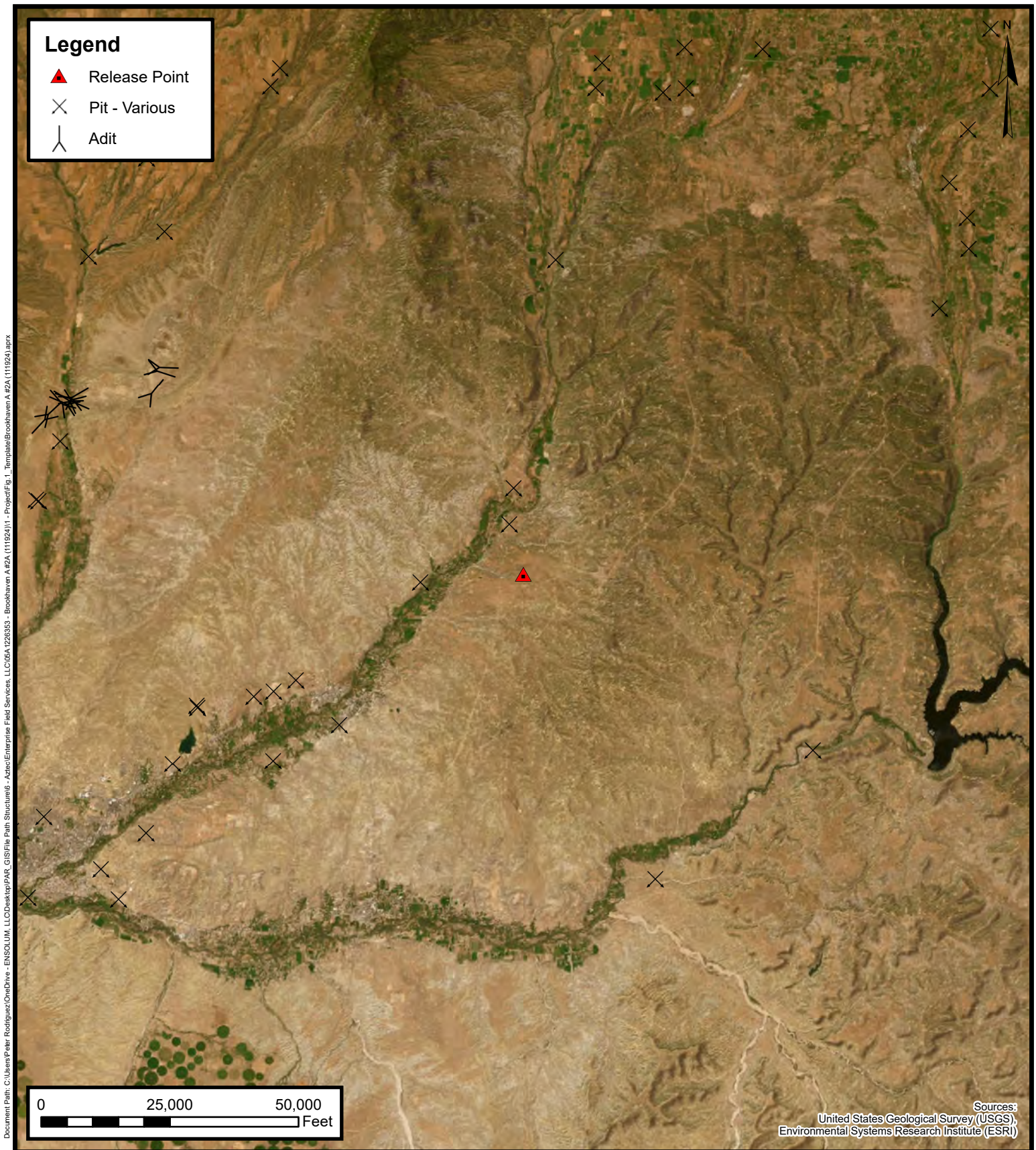


ENSOLUM
Environmental, Engineering and
Hydrogeologic Consultants

Wetlands

Enterprise Field Services, LLC
Brookhaven A #2A (11/19/24)
Project Number: 05A1226353
Unit Letter J, S16 T31N R10W, San Juan County, New Mexico
36.89546, -107.88489

FIGURE
F

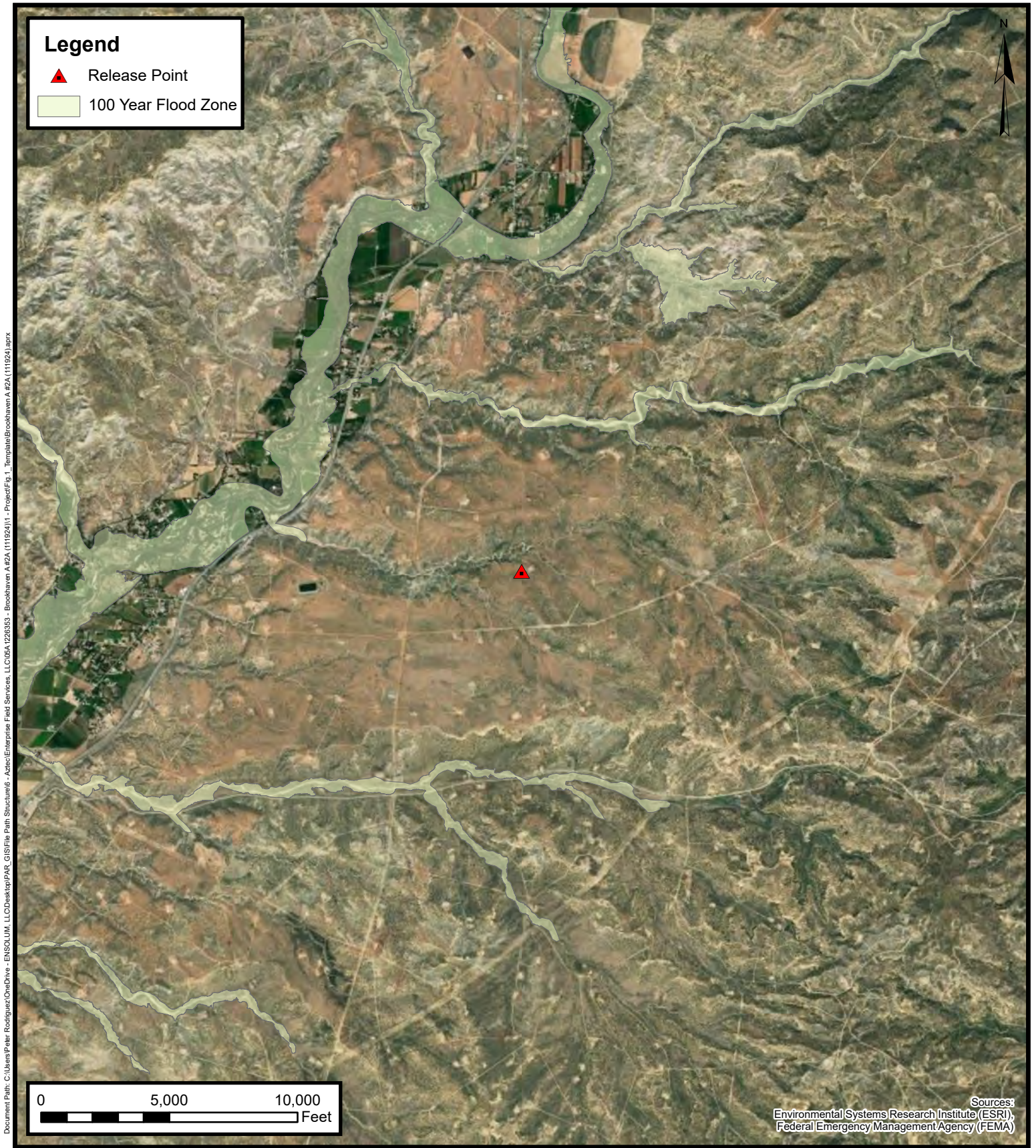


Mines, Mills, and Quarries

Enterprise Field Services, LLC
Brookhaven A #2A (11/19/24)
Project Number: 05A1226353

Unit Letter J, S16 T31N R10W, San Juan County, New Mexico
36.89546, -107.88489

FIGURE
G



100-Year Flood Plain Map

Enterprise Field Services, LLC
Brookhaven A #2A (11/19/24)

Project Number: 05A1226353

Unit Letter J, S16 T31N R10W, San Juan County, New Mexico
36.89546, -107.88489

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 smallest to largest)

(In feet)

POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tw	Range	X	Y	Map	Well Depth	Depth Water	Water Column
SJ 00054		SJAR	SJ			NE	10	31N	10W	244754.0	4089470.0 *		455		
SJ 00585		SJAR	SJ				08	31N	10W	241111.0	4089191.0 *		40	23	17
SJ 00830 -EXPLOR		SJAR	SJ			SW	15	31N	10W	243864.0	4087104.0 *		550		
SJ 01198		SJAR	SJ		SE	SW	17	31N	10W	240842.0	4086962.0 *		158	97	61
SJ 01584 POD2		SJAR	SJ	SE	SW	NW	08	31N	10W	240626.3	4089237.5		25	25	0
SJ 02304		SJAR	SJ		NE	NW	08	31N	10W	240959.0	4089789.0 *		35	29	6
SJ 03057		SJAR	SJ	SE	SW	NW	08	31N	10W	240636.0	4089296.0 *		19	6	13
SJ 03714 POD1		SJAR	SJ	NW	NW	SW	08	31N	10W	240421.0	4089091.0 *		21	6	15
SJ 03923 POD1		SJAR	SJ	SE	NW	NE	08	31N	10W	241455.5	4089675.1		51	37	14
SJ 03930 POD1		SJAR	SJ	SW	NW	SW	08	31N	10W	240624.1	4088974.9		27	12	15
SJ 04005 POD1		SJAR	SJ	NW	NE	SW	08	31N	10W	240879.6	4089011.4		48	24	24
SJ 04044 POD1		SJAR	SJ	SE	NE	NW	08	31N	10W	241163.1	4089709.9		38	18	20
SJ 04103 POD1		SJAR	SJ	SE	NW	SW	08	31N	10W	240607.3	4088952.4		26		
SJ 04328 POD10		SJ	SJ		SE	NE	20	31N	10W	241600.6	4086117.9		35	20	15
SJ 04328 POD6		SJ	SJ		SE	NE	20	31N	10W	241620.1	4086116.7		35	20	15
SJ 04328 POD7		SJ	SJ		SE	NE	20	31N	10W	241642.2	4086116.6		35	20	15
SJ 04328 POD8		SJ	SJ		SE	NE	20	31N	10W	241634.8	4086102.3		35	20	15
SJ 04444 POD1		SJAR	SJ		SW	NE	08	31N	10W	241363.2	4089367.8		100	50	50

Average Depth to Water: 27 feet

Minimum Depth: 6 feet

Maximum Depth: 97 feet

Record Count: 18

Basin/County Search:

Basin: SJ

PLSS Search:

Range: 10W

Township: 31N

Section: 8,9,10,15,16,17,20,21,22

* UTM location was derived from PLSS - see Help

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

1018
30-045-21985DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICO
(Submit 3 copies to OCD Aztec Office)Operator MERIDIAN OIL Location: Unit SE Sec. 16 Twp 31 Rng 10Name of Well/Wells or Pipeline Serviced BROOKHAVEN COM A #2A

cps 1192w

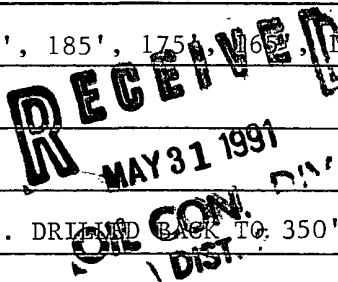
Elevation 6105' Completion Date 6/10/77 Total Depth 500' Land Type* N/ACasing, Sizes, Types & Depths 48' OF 8" CASINGIf Casing is cemented, show amounts & types used N/AIf Cement or Bentonite Plugs have been placed, show depths & amounts used
N/A

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

Fresh, Clear, Salty, Sulphur, Etc. WET AT 100'Depths gas encountered: N/A HOLE MAKING GAS.Type & amount of coke breeze used: 48 SACKSDepths anodes placed: 235', 225', 215', 205', 195', 185', 175', 165', 155', 145'Depths vent pipes placed: 235'Vent pipe perforations: 200'Remarks: gb #1 BOULDER FELL IN HOLE OVERNIGHT. DRILLED BACK TO 350'HOLE MAKING GAS.

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. 11-71)

WELL CASING
CATHODIC PROTECTION CONSTRUCTION REPORT
DAILY LOG

Drilling Log (Attach Hereto). ☐

Completion Date 6-10-77

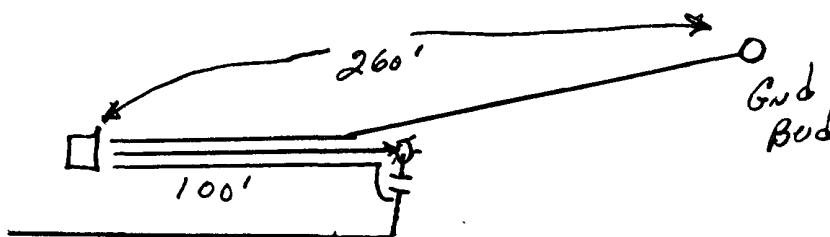
Well Name BROOKHAVEN COM. A #2A		Location SE 16-31-10		CPS No. 1192 W	
Type & Size Bit Used 6 3/4"				Work Order No. 57043	
Anode Hole Depth Logged 500' - 250'	Total Drilling Rig Time	Total Lbs. Coke Used	Lost Circulation Mat'l Used	No. Sacks Mud Used	
Anode Depth					
1 235'	2 225'	3 215'	4 205'	5 195'	6 185'
7 175'	8 165'	9 155'	10 145'		
Anode Output (Amps)					
1 5.5	2 5.0	3 5.5	4 6.5	5 7.1	6 6.2
7 7.9	8 5.2	9 5.0	10 4.0		
Anode Depth					
11	12	13	14	15	16
17	18	19	20		
Anode Output (Amps)					
11	12	13	14	15	16
17	18	19	20		
Total Circuit Resistance				No. 8 C.P. Cable Used	No. 2 C.P. Cable Used
Volts 11.8	Amps 23.5	Ohms 0.50 Ω			

Remarks: Installed 48' 05" CASING. CHARGED 48.4805 CASING. Installed 235' 05" 1" PVC Vent Pipe. Perforated 200'. Driller said wet @ 100'. Started Enj. @ 150' Drilled to 500'. Boulder Fell in Hole over night. Driller tried to Drill BACK to 500. Drilled to 350. Logged Hole. Logging Anode stopped @ 250. over 24 hour period water level @ 60'. Gnd Bed MAKING GAS. SLURRIED 48 SACKS of COKE Static 0.80 600' North

All Construction Completed

W. Z. Lowe
(Signature)

GROUND BED LAYOUT SKETCH



DISTRIBUTION:

WHITE — Division Corrosion Office
YELLOW — Area Corrosion Office
PINK — Originator File

6/10/77

DAILY DRILLING REPORT

[illegible]

SIGNED: Toolpusher _____ Company Supervisor _____

Date:

By:

57043

SE16-31-10

BROOK HAVEN COM. A #2-A

1192W

Installed 48' of 8" casing. charged
of casing

Driller said wet @ 100'

started twj. @ 150'

Perforated 1" of 1" PVC vent pipe

Installed 235' of 1" PVC vent pipe

Water Level After 24 HR

Period standing @ 60'

MW	gas/mol
16	C ₁ 6.4
30	C ₂ 9.56
44	C ₃ 10.42
58	C ₄ 12.38
72	C ₅ 11.93
86	C ₆ 13.85
100	C ₇ 13.11
114	C ₈ 15.50
128	C ₉ 15.57
142	C ₁₀ 17.5
156	C ₁₁ 17.46
170	C ₁₂ 19.38
184	C ₁₃ 19.64
198	C ₁₄ 9.67

MW	MSC	gas/mol
44	CO ₂	6.18
34	H ₂ S	5.17
18	N ₂	4.18
2	H ₂	3.18

1	00	2.2	40	2.9	80
		2.0		2.9	
10		1.8	50	TP	90
		2.3			
20		2.1	60		400
		2.6			
30		2.3	70		10
		2.2			
40		1.8	80		20
		1.7			
50		1.8	90		30
		1.9			
60		2.5	300		40
		2.2			
70		3.2	10		50
		3.0			
80		2.6	20		60
		2.5			
90		3.1	30		70
		3.0			
200		2.9	40		80
		2.8			
10		2.4	50		90
		2.0			
20		2.2	60		500
		2.5			
30		2.6	70		
		2.5			

- ① 235 - 3.2 - 5.5
 ② 225 - 3.6 - 5.0
 ③ 215 - 3.3 - 5.5
 ④ 205 - 4.5 - 6.5
 ⑤ 195 - 5.0 - 7.1
 ⑥ 185 - 3.6 - 6.2
 ⑦ 175 - 5.2 - 7.9
 ⑧ 165 - 3.0 - 5.2
 ⑨ 155 - 2.6 - 5.0
 ⑩ 145 - 2.2 - 4.0

11.8 23.5 A 0.50 ~

2 0.500
 23.5 / 11.8 = 2
 11.8 x 2 = 23.6
 23.6 - 0.1 = 23.5

4872
30-045-10923

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. 8 Twp 31 Rng 10

Name of Well/Wells or Pipeline Serviced MARCOTTE #1

cps 448w

Elevation 5847 Completion Date 8/1/74 Total Depth 250' 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. 40' TO 50'

RECEIVED
MAY 31 1991

Depths gas encountered: N/A

OIL CON.
DIST.

Type & amount of coke breeze used: N/A

Depths anodes placed: 231', 222', 213', 204', 195', 186', 177', 168', 159', 150'

Depths vent pipes placed: N/A

Vent pipe perforations: 200'

Remarks: qb #3 DRILLED FRITST HOLE 400'. ENCOUNTERED GAS AND FLOWING WATER 260'-280'.

HOLE ABANDONED AND TOP 20' CEMENTED.

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 LOGDrilling Log (Attach Hereto) ☐Completion Date **8-1-74**

Well Name Marquette #1		Location NE 8-31-10		CPS No. 448W	
Type & Size Bit Used 6 3/4				Work Order No. 52385	
Anode Hole Depth 250'		Total Drilling Rig Time		Total Lbs. Coke Used	
Anode Depth		Total Drilling Rig Time		Lost Circulation Mat'l Used	
No. Sacks Mud Used					
# 1	# 2	# 3	# 4	# 5	# 6
231	222	213	204	195	186
# 7	# 8	# 9	# 10	# 11	# 12
177	168	159	150		
Anode Output (Amps)		Anode Output (Amps)		Anode Output (Amps)	
# 1	# 2	# 3	# 4	# 5	# 6
2.5	3.2	4.1	4.2	5.0	4.8
# 7	# 8	# 9	# 10	# 11	# 12
4.6	4.6	3.6	3.6		
Anode Depth		Anode Depth		Anode Depth	
# 11	# 12	# 13	# 14	# 15	# 16
Anode Output (Amps)		Anode Output (Amps)		Anode Output (Amps)	
# 11	# 12	# 13	# 14	# 15	# 16
Total Circuit Resistance		Total Circuit Resistance		Total Circuit Resistance	
Volts	Amps	Ohms			
11.8	12.5	0.94			
No. 8 C.P. Cable Used		No. 2 C.P. Cable Used			
370					

Remarks: Drilled 400' Hole making water could Not Pump Coke Down Hole - Water Velocity Brings Coke to Surface
 Conc. Hole with 20' Joint 2" Pipe - Move 40' & Drill to 250'. Driller Said Big Water Coming From 260-280'
 Squeeze Anodes to 9' Spacing Vent Pipe Perforated 200' Pump Coke to Surface - Driller Said Water at 40 To 50' this Hole

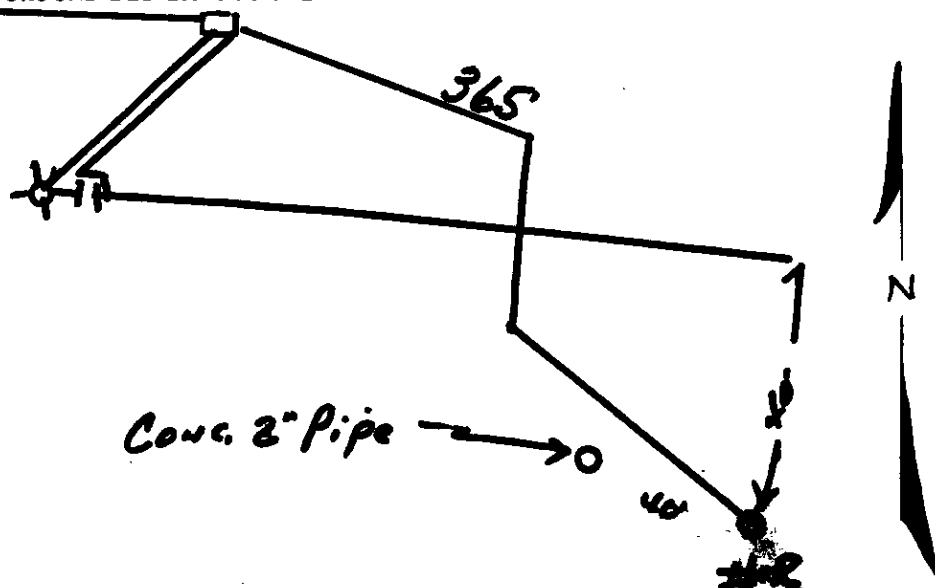
All Construction Completed

Avels
 (Signature)

#1 GUNDED

GROUND BED LAYOUT SKETCH

3, 509.00
 148.00 Cables
 # 3, 557.00
 375.00 (Total Length)
 # 3, 932.00
 157.28
 # 4, 089.28



GENERAL OFFICE
14991 W. 44TH AVENUE
BAILEY OFFICE
CALL 1-838-4821

Location
City SAARINGTON State W. Va County _____

Inspection at 20
Water at 40-50

Helper _____

Released to Imaging: 5/20/2025 11:38:16 AM

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

Analysis No. 1-8080 Date August 29, 1974Operator EPNG Well Name Marcotte #1 Ground BedLocation NE 8-31-10 County San Juan State New Mexico

Field _____ Formation _____

Sampled From Well HeadDate Sampled 7-25-74 by G. Seitzinger

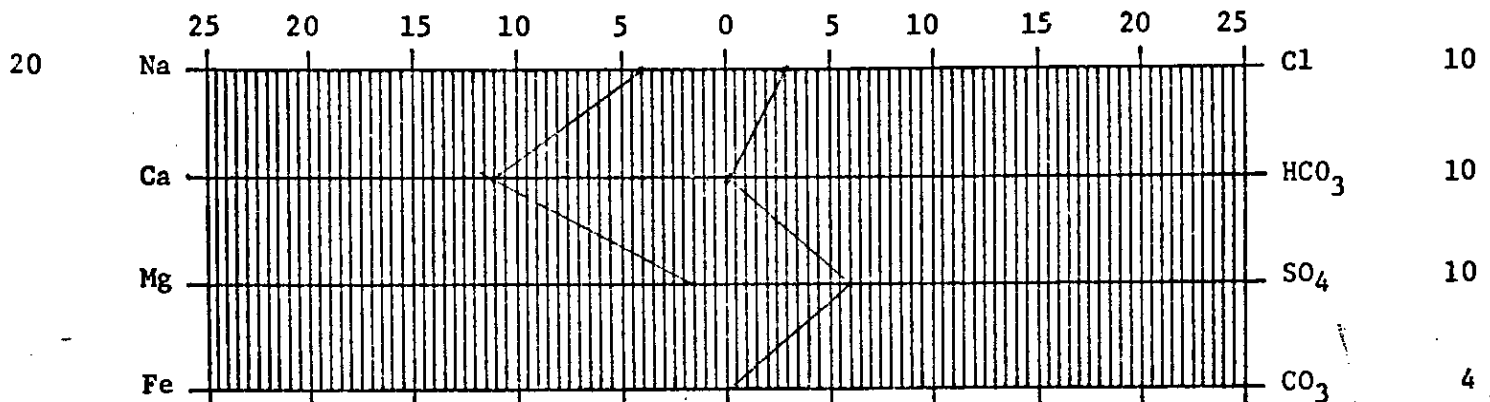
Tubing Pressure _____ Casing Pressure _____ Surface casing pressure _____

	ppm	epm		ppm	epm
Sodium	<u>1808</u>	<u>79</u>	Chloride	<u>1130</u>	<u>32</u>
Calcium	<u>212</u>	<u>11</u>	Bicarbonate	<u>56</u>	<u>1</u>
Magnesium	<u>34</u>	<u>2</u>	Sulfate	<u>2850</u>	<u>59</u>
Iron	<u>Present</u>		Carbonate	<u>0</u>	<u>0</u>
H ₂ S	<u>Absent</u>		Hydroxide	<u>0</u>	<u>0</u>

Total Solids
Dissolved 11560pH 7.1Sp. Gr. 1.0095 at 60° FResistivity 80 ohm-cm at 76 °F

cc: R. L. Ahrens A. M. Smith
D. O. Vilven
F. H. Wood
R. A. Ullrich
A. H. Viescas
D. C. Adams
J. E. Ashworth
file

Sattler + Ellsberry
CHEMIST



30-045-22132

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

Operator EL PASO FIELD SERVICES Location: Unit C Sec. 8 Twp 31 Rng 10Name of Well/Wells or Pipeline Served Boyd Gas Com. 1AElevation _____ Completion Date 10-2-97 Total Depth 300 Land Type * _____Casing, Sizes, Types & Depths 8 5/8If Casing is cemented, show amounts & types used 17 5/8. ZIA Type 1 & 2

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

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

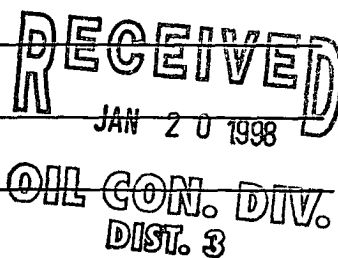
Fresh, Clear, Salty, Sulphur, Etc. Drill with water 9 5/8 Mud-Cutting did not indicate water zone - stop at 300 to avoid gas entr.

Depths gas encountered: _____

Type & amount of coke breeze used: Loresco Swi. 3000 lbsDepths anodes placed: 145-260Depths vent pipes placed: 260Vent pipe perforations: 120Remarks: Boulders 30-45, -15' TotalDavid

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.



THE LOFTIS COMPANY

DEEP WELL GROUND BED DATA

DATE: October 2, 1997

COMPANY: EPFS/Amoco

COUNTY: San Juan STATE: NM

CONTRACT NO: FC-96-1000

UNIT NO: CPS 89556 W.O. 2968

LOCATION: Boyds GC #1A

GROUNDBED: DEPTH / FT 300'

DIA / INCH: 7 7/8" ANODES: (10) 2 x 60 SHA-2

CASING: DEPTH / FT 50'

SIZE: 8"

DEPTH IN FEET	DRILLERS LOG	RESISTIVITY		ANODE NUMBER	DEPTH TO ANODE TOP	BEFORE COKE	AFTER COKE
		OHMS	AMPS				
5	Casing						
10							
15							
20							
25							
30							
35							
40							
45							
50	Sandstone		1.0				
55			1.1				
60			1.2				
65			1.1				
70			1.2				
75			1.3				
80			1.2				
85			1.4				
90			1.4				
95			1.6				
100	Shale		2.4				
105			1.4				
110			1.4				
115			1.4				
120			2.2				
125			2.8				
130			2.4				
135			2.6				
140			2.1				
145			2.0	10		2.1	5.3
150			2.5				
155			2.0	9		2.1	5.4
160			1.9				
165			2.3	8		2.3	5.4
170			1.8				
175			1.9				
180			1.8	7		1.8	4.9
185			1.8				
190			1.8	6		1.7	4.7
195			1.7				
200			1.9	5		1.9	4.4
205			1.9				
210	Shale		1.9	4		1.8	4.3

JOB # TDM1350

THE LOFTIS COMPANY

DEPTH IN FEET	DRILLERS LOG	RESISTIVITY		ANODE NUMBER	DEPTH TO ANODE TOP	BEFORE COKE	AFTER COKE
		OHMS	AMPS				
215	Shale		1.8				
220			1.7				
225			1.7				
230			2.1	3		2.0	5.1
235			1.9				
240			1.6				
245			1.8				
250			1.8	2		1.9	5.1
255			2.3				
260			2.1	1		2.1	4.7
265			1.7				
270			1.9				
275							
280							
285							
290							
295							
300	Shale						

JOB # TDM1350

GB #1

30-045-23078

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICOOperator Meridian Oil Location: Unit 0 Sec 8 Twp 31 Rng 10Name of Well/Wells or Pipeline Serviced Marcotte #1AElevation 5965' Completion Date 7-30-79 Total Depth 370' Land Type FCasing Strings, Sizes, Types & Depths 52' of 7" steel casing 14080012057If Casing Strings are cemented, show amounts & types used NAIf Cement or Bentonite Plugs have been placed, show depths & amounts used
NADepths & thickness of water zones with description of water: Fresh, Clear,
Salty, Sulphur, Etc. 145' Analysis (2-1-90) attached.Depths gas encountered: NAGround bed depth with type & amount of coke breeze used: 370' to T.D.Used metallurgical coke breeze - (amount-no information)Depths anodes placed: 335', 325', 315', 305', 295', 255', 245', 230', 215', 200'

Depths vent pipes placed: _____

Vent pipe perforations: _____

Remarks: _____

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

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

API WATER ANALYSIS REPORT FORM

Laboratory No.

Company <i>Meridian</i>		Sample No. <i>1</i>		Date Sampled <i>2/1/90</i>	
Field <i>Cedar Hill Area</i>		Legal Description <i>0-8-31-10</i>		County or Parish <i>SI</i>	
Lease or Unit <i>Blanco Mesa Unit</i>		Well <i>Marpette 1-A</i>		Depth <i>50'</i>	
Type of Water (Produced, Supply, etc.)		Formation		Water (B/D) <i>1</i>	
Sampling Point <i>1" Vent Pipe</i>		Sampled By <i>Howe</i>			



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

DISSOLVED SOLIDS

CATIONS	mg/l	me/l
Sodium, Na (calc.)	<i>3450</i>	<i>159.4</i>
Calcium, Ca	<i>281</i>	<i>14.0</i>
Magnesium, Mg	<i>19</i>	<i>1.6</i>
Barium, Ba		

OTHER PROPERTIES

pH	<i>8.06</i>
Specific Gravity, 60/60 F.	<i>1.007</i>
Resistivity (ohm-meters) <i>72°</i> F.	<i>.89</i>

Total Dissolved Solids (calc.)

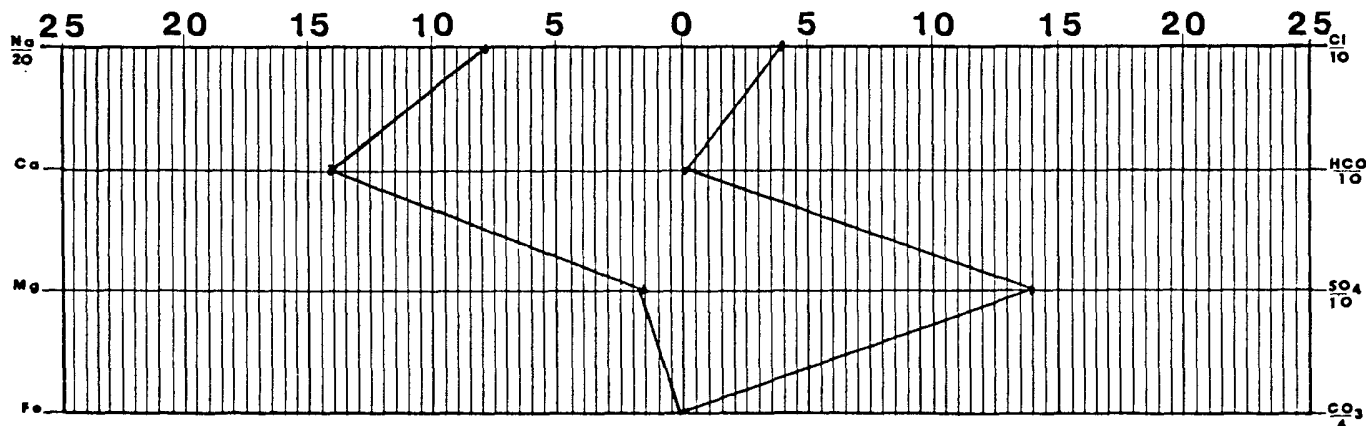
11,900

ANIONS

Chloride, Cl	<i>1420</i>	<i>40.0</i>
Sulfate, SO_4	<i>6468</i>	<i>134.8</i>
Carbonate, CO_3	<i>0</i>	<i>0</i>
Bicarbonate, HCO_3	<i>01</i>	<i>1.0</i>

Iron, Fe (total)
Sulfide, as H_2S

REMARKS & RECOMMENDATIONS:

Mark McFarland

Date Received <i>2/2/90</i>	Preserved	Date Analyzed <i>2/2/90</i>	Analyzed By <i>Dariusz Holst</i>
--------------------------------	-----------	--------------------------------	-------------------------------------

4772

8 = 30-045-22727

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. 9 Twp 31 Rng 10Name of Well/Wells or Pipeline Serviced LUCERNE A #1, #8cps 443wElevation 6133' Completion Date 11/15/71 Total Depth 380' Land Type* N/ACasing, Sizes, Types & Depths N/AIf Casing is cemented, show amounts & types used N/AIf Cement or Bentonite Plugs have been placed, show depths & amounts used
N/A

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

Fresh, Clear, Salty, Sulphur, Etc. 190'**RECEIVED**
MAY 31 1991Depths gas encountered: N/A**OIL CON. DIV.**
DIST. 3Type & amount of coke breeze used: 7100 lbs.Depths anodes placed: 355', 345', 335', 325', 315', 270', 260', 250', 240', 230'Depths vent pipes placed: 355'Vent pipe perforations: 250'Remarks: qb. #2

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

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

El Paso Natural Gas Company
Form 7-238 (Rev. 1-69)WELL CASING
CATHODIC PROTECTION CONSTRUCTION REPORT
DAILY LOGDrilling Log (Attach Hereto) ☐Completion Date 11-15-71

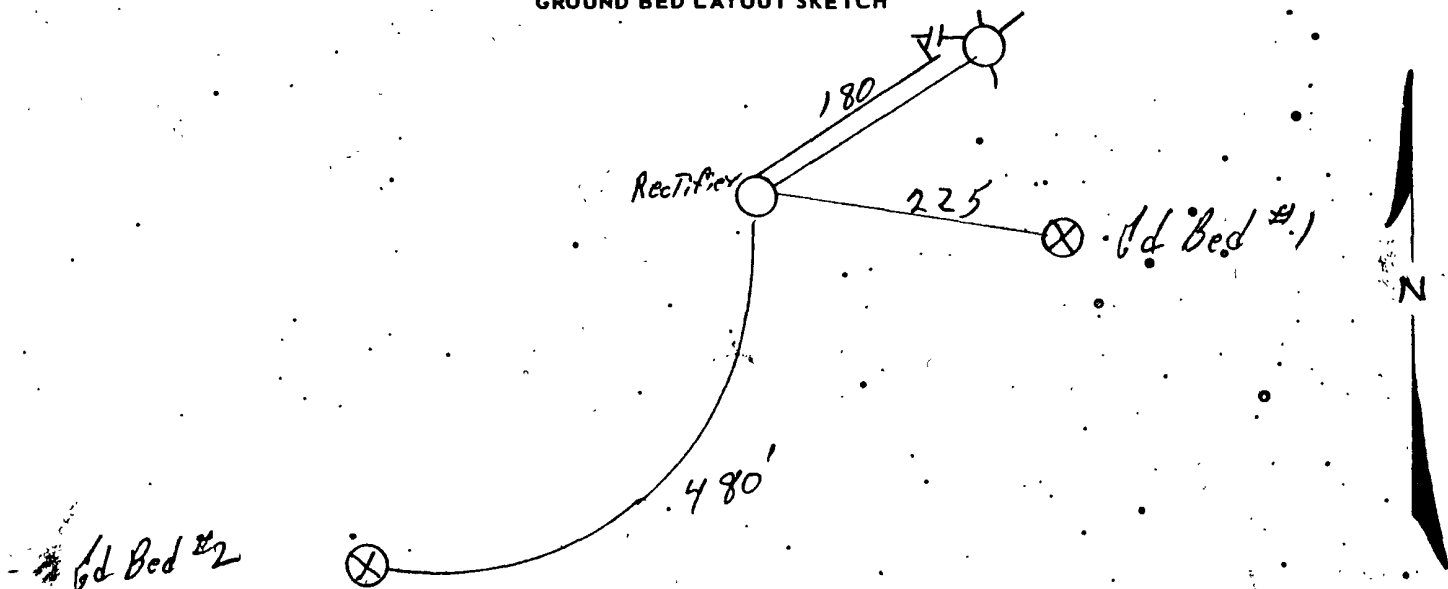
Well Name <u>LUCERNE A #1</u>		Location <u>SW 9 - 31N - 10W</u>		CPS No. <u>443 W</u>	
Type & Size Bit Used <u>6 3/4</u>				Work Order No. <u>184-52478-50-20</u>	
Anode Hole Depth <u>380'</u>		Total Drilling Rig Time		Total Lbs. Coke Used <u>7100</u>	
				Lost Circulation Mat'l Used	
				No. Sacks Mud Used	
Anode Depth	# 1	# 2	# 3	# 4	# 5
	<u>355</u>	<u>345</u>	<u>335</u>	<u>325</u>	<u>315</u>
Anode Output (Amps)	# 1	# 2	# 3	# 4	# 5
	<u>6.5</u>	<u>5.6</u>	<u>6.4</u>	<u>5.4</u>	<u>5.5</u>
Anode Depth	# 6	# 7	# 8	# 9	# 10
	<u>270</u>	<u>260</u>	<u>250</u>	<u>240</u>	<u>230</u>
Anode Output (Amps)	# 6	# 7	# 8	# 9	# 10
	<u>4.5</u>	<u>5.0</u>	<u>4.9</u>	<u>4.8</u>	<u>4.7</u>
Anode Depth	# 11	# 12	# 13	# 14	# 15
Anode Output (Amps)	# 11	# 12	# 13	# 14	# 15
Total Circuit Resistance	Volts <u>12.2</u>		Amps <u>19.3</u>		Ohms <u>0.64 Ω</u>
		No. 8 C.P. Cable Used		No. 2 C.P. Cable Used <u>490'</u>	

Remarks: Driller said water @ 190' VENT Hose Perforated
250' TO #1 Anode. Pumped 441 Shovels = 63 Bags TO
54' completed By slurry

All Construction Completed

Paul H. Lavelle
 (Signature)

GROUND BED LAYOUT SKETCH



Original & 1 Copy All Reports

DAILY DRILLING REPORT

[illegible]

SIGNED: Toolpusher _____ Company Supervisor _____

Date: _____

By: _____

443 W
Lucerne / A

MW	gas/mol
16	C ₁ 6.4
30	C ₂ 9.16
44	C ₃ 10.42
58	IC ₄ 12.38
72	IC ₄ 13.85
86	IC ₄ 15.30
100	IC ₄ 16.74
114	C ₅ 18.18
128	C ₆ 19.62
142	C ₇ 21.06

MW	MISC.	gas/mol
44	CO ₂	6.38
34	H ₂ S	5.17
28	N ₂	4.16
2	H ₂	3.38

190	2.1	60	3.70	Water @ 190'			
	2.1		3.20	Vent Hose Per Drilled 250'			
200	1.44	70	3.10	To #1 ANode			
	1.34	76	Bottom				
10	1.38	80					
	1.64				log	wtr	Coke
20	1.51			1	3.55	3.9	6.5
	2.30			2	3.45	3.8	5.6
30	3.30			3	3.35	3.7	6.4
	3.30			4	3.25	3.8	5.4
40	3.30			5	3.15	3.7	5.5
	3.40			6	2.70	2.9	4.5
50	3.40			7	2.60	3.5	5.0
	3.40			8	2.50	3.4	4.9
60	3.50			9	2.40	3.3	4.8
	3.30			10	2.30	3.3	4.7
70	2.90						
	2.60				12.2 V	19.3	0.64 ~
80	2.30						
	2.00						
90	2.30						
	2.6						
300	2.40						
	2.40						
10	3.40						
	3.70						
20	3.70						
	3.80						
30	3.70						
	3.70						
40	3.70						
	3.80						
50	4.00						
	3.90						
	3.70						

#2 30-045-10942

#7 30-045-22726

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. 9 Twp 31 Rng 10Name of Well/Wells or Pipeline Serviced LUCERNE A #2, #7cps 445wElevation 6163' Completion Date 11/17/71 Total Depth 400' Land Type* N/ACasing, Sizes, Types & Depths N/AIf Casing is cemented, show amounts & types used N/AIf Cement or Bentonite Plugs have been placed, show depths & amounts used
N/ADepths & thickness of water zones with description of water when possible:
Fresh, Clear, Salty, Sulphur, Etc. WET AT 150'Depths gas encountered: N/AType & amount of coke breeze used: 7100 lbs.Depths anodes placed: 360', 351', 342', 333', 324', 315', 306', 297', 288', 279'Depths vent pipes placed: N/AVent pipe perforations: 245'Remarks: gb #2**RECEIVED**

MAY 31 1991

CON

DIST

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

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

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. 9 Twp 31 Rng 10Name of Well/Wells or Pipeline Serviced LUCERNE A #2, #7cps 445wElevation 6163' Completion Date 7/18/63 Total Depth 187' Land Type* N/ACasing, Sizes, Types & Depths N/AIf Casing is cemented, show amounts & types used N/A

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

N/A

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

Fresh, Clear, Salty, Sulphur, Etc. N/ADepths gas encountered: N/AType & amount of coke breeze used: N/ADepths anodes placed: 160', 150', 140', 130', 124', 114'Depths vent pipes placed: N/AVent pipe perforations: N/ARemarks: gb #1 INSTALLED SCRAP TUBING . ANODES INSTALLED 7/20/65.

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

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

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OIL CON. DIST.

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

Operator MERIDIAN OIL Location: Unit B Sec. 9 Twp 31 Rng 10

Name of Well/Wells or Pipeline Serviced LUCERNE A #2, #7

cps 445w

Elevation 6163' Completion Date 9/13/88 Total Depth 440' 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. 230'

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Depths gas encountered: N/A

OIL CON

Type & amount of coke breeze used: N/A

Depths anodes placed: 415', 405', 395', 385', 375', 365', 355', 340', 265', 255'

Depths vent pipes placed: 440' OF 1" PVC VENT PIPE

Vent pipe perforations: 360'

Remarks: qb #3 HOLE WENT BLIND AT 280'

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.

LUCERNE A #1-A

30-045-23137

SCOTT #11

30-045-21820

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. 9 Twp 31 Rng 10Name of Well/Wells or Pipeline Serviced LUCERNE A #1A, SCOTT #11

cps 1383w

Elevation 6007' Completion Date 7/13/79 Total Depth 300' Land Type* N/ACasing, Sizes, Types & Depths 64' OF 8" CASINGIf 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. WATER AT 110' & 130'Depths gas encountered: N/AType & amount of coke breeze used: 36 SACKSDepths anodes placed: 210', 200', 190', 180', 170', 160', 150', 140', 130', 120'Depths vent pipes placed: 230'Vent pipe perforations: 200'Remarks: gb #1

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MAY 31 1991
OIL CON. DIV
DIST. 3

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

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

WELL CASING
CATHODIC PROTECTION CONSTRUCTION REPORT
DAILY LOG

CONTRACT #2 (2"X60" DURATION)

Completion Date 7/13/29

Well Name Lucerne A #1A SCOTT #11		Location NW 9-31-10		CPS No. 1383 W	
Type & Size Bit Used 6 3/4"				Work Order No. 57397-21 55915-21	
Anode Hole Depth LOGGED 300' T.D. 230'		Total Drilling Rig Time		No. Sacks Mud Used	
		COKE USED 36 SACKS		Lost Circulation Mat'l Used	
Anode Depth		# 1 210'		# 2 200'	
# 3 190'		# 4 180'		# 5 170'	
# 6 160'		# 7 150'		# 8 140'	
# 9 130'		# 10 120'			
Anode Output (Amps)		# 1 4.6		# 2 5.1	
# 3 4.5		# 4 5.5		# 5 4.9	
# 6 4.4		# 7 4.3		# 8 3.2	
# 9 3.8		# 10 4.6			
Anode Depth		# 11		# 12	
# 13		# 14		# 15	
# 16		# 17		# 18	
# 19		# 20			
Anode Output (Amps)		# 11		# 12	
# 13		# 14		# 15	
# 16		# 17		# 18	
# 19		# 20			
Total Circuit Resistance		No. 8 C.P. Cable Used		No. 2 C.P. Cable Used	
Volts 11.5 V		Amps 16.5 A		Ohms 7	

Remarks: STATIC 600' S. = .88 V Driller said water at 110' + 130' Approx. 2 gal./min. Drilled to 160'. Water standing in hole next A.M. AT 120'. Water sample would not settle out. Drilled to 300'. Logged 230'. Installed 230' of 1" P.V.C. vent pipe. Perforated 200'. When Driller first moved on location, Drilled ~~50'~~^{44'} hit boulders. Cable Tool Rig Drilled 75', set 64' of 8" casing. (Steel Pipe)

Ditch + cable = 677'

All Construction Completed

extra cable = 140'

Hole Depth = $-285^{\circ} 301'$

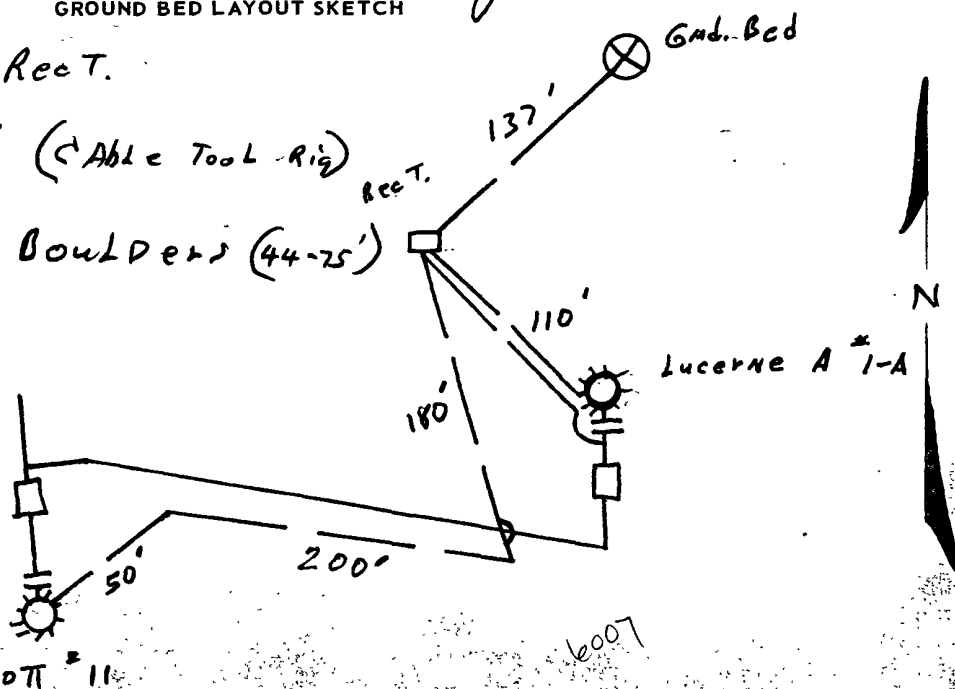
GROUND BED LAYOUT SKETCH

5Tub Polc & 40V 16A Rect.

7 Hr. Reaming 0-44' (Cable Tool Rig)

31' Drilling Three boulders (44-25')

15



Original & 1 Copy All Reports

DRILLING DEPT
Contract #2
Posey
DAYLIGHT

975

SIGNED: Toolpusher

Posey

____ Company Supervisor

so Harry Langley

El Paso Natural Gas Company
ENGINEERING CALCULATIONSheet: _____ of _____
Date: _____
By: _____
File: _____Lucerne A #1A
SCOTT #11
NW 9-31-10W.O. 57397-2.
W.O. 55915-2.

CPS #1383-W

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

Driller said water at 110' & 130'. Approx. 2 gal./min. Drilled to 160'. Water standing in hole next AM at 120'. Water sample would not settle out. Drilled to 300'. Logged 230'. Installed 230' of 1" P.V.C. vent pipe perforated 200'. Driller drilled 44 hit boulders. Cable tool rig drilled 75'. Set 64' of 8" casing.

100 -

10 -

20 - 2.5 - ⑩

2.1

30 - 1.7 - ⑨

1.4

40 - 1.5 - ⑧

2.2

50 - 2.3 - ⑦

2.3

60 - 2.5 - ⑥

2.6

70 - 2.7 - ⑤

2.9

80 - 2.8 - ④

2.7

90 - 2.6 - ③

2.9

200 - 2.9 - ②

3.0

10 - 2.8 - ①

3.0

20 - 2.9

2.4

30 - T.D. 230.

40 -

50 -

60 -

70 -

80 -

90 -

300 -

1 - 210 - 2.5 - 4.6
2 - 200 - 3.9 - 5.1
3 - 190 - 3.3 - 4.5
4 - 180 - 3.8 - 5.5
5 - 170 - 3.5 - 4.9
6 - 160 - 3.1 - 4.4
7 - 150 - 2.9 - 4.3
8 - 140 - 1.8 - 3.2
9 - 130 - 2.4 - 3.8
10 - 120 - 3.5 - 4.6

MW	MISC.	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 ₂ S	5.17
28.01	N ₂	4.16
2.02	H ₂	3.38

10 HRS
0 HRS

7/13/79

JL

11.5 ✓ 16.4 A

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

(Submit 3 copies to OCD Aztec Office)

Operator MERIDIAN OIL Location: Unit SE Sec. 9 Twp 31 Rng 10Name of Well/Wells or Pipeline Serviced LUCERNE A #2A

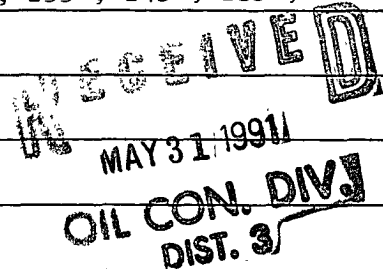
cps 1238w

Elevation 6173' Completion Date 11/5/78 Total Depth 340' Land Type* N/ACasing, Sizes, Types & Depths 64'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. 80'Depths gas encountered: N/AType & amount of coke breeze used: 40 SACKSDepths anodes placed: 305', 295', 285', 275', 265', 255', 245', 235', 225', 215'Depths vent pipes placed: 320'Vent pipe perforations: 240'Remarks: gb #1

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

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

4771
#1 30-045-10875
#8 30-045-22727

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. 9 Twp 31 Rng 10

Name of Well/Wells or Pipeline Serviced LUCERNE A #1, #8

cps 443w

Elevation 6133' Completion Date 7/17/63 Total Depth 185' 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. N/A

Depths gas encountered: N/A

Type & amount of coke breeze used: N/A

Depths anodes placed: 185', 175', 165', 155', 140', 130'

Depths vent pipes placed: N/A

Vent pipe perforations: N/A

Remarks: Gb #1 INSTALLED 185' SCRAP TUBING. ANODES INSTALLED 7/19/65.

Gb #1 & Gb #2

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

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

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MAY 31 1991

OIL CON. DIV
DIST 2

WELL CASING
CATHODIC PROTECTION CONSTRUCTION REPORT
DAILY LOG

DATE 7-17-63WELL NAME Lucerne #1A CPS NO. 443 WLOCATION 9-31N-10WWORK ORDER NUMBER 184-40542-50-02ANODE HOLE DEPTH 185'TOTAL DRILLING RIG TIME 13 1/2

DRILLING TIME FOR RECTIFIER POLE HOLE _____

TYPE AND SIZE BIT USED _____

NUMBER SACKS MUD USED 4NUMBER SACKS LOST CIRCULATION MAT'L USED 0ANODE DEPTHS #1 _____; #2 _____, #3 _____, #4 _____ Scrap Tubing InstalledTOTAL LBS. COKE USED 0

ANODE OUTPUTS _____ VOLTS, #1 _____, #2 _____, #3 _____, #4 _____

TOTAL CIRCUIT RESISTANCE: VOLTS 10 AMPERES 13.5 OHMS .75-2NUMBER FEET SURFACE CABLE CONDUIT 625'

DRILLING LOG (ATTACH HERETO).

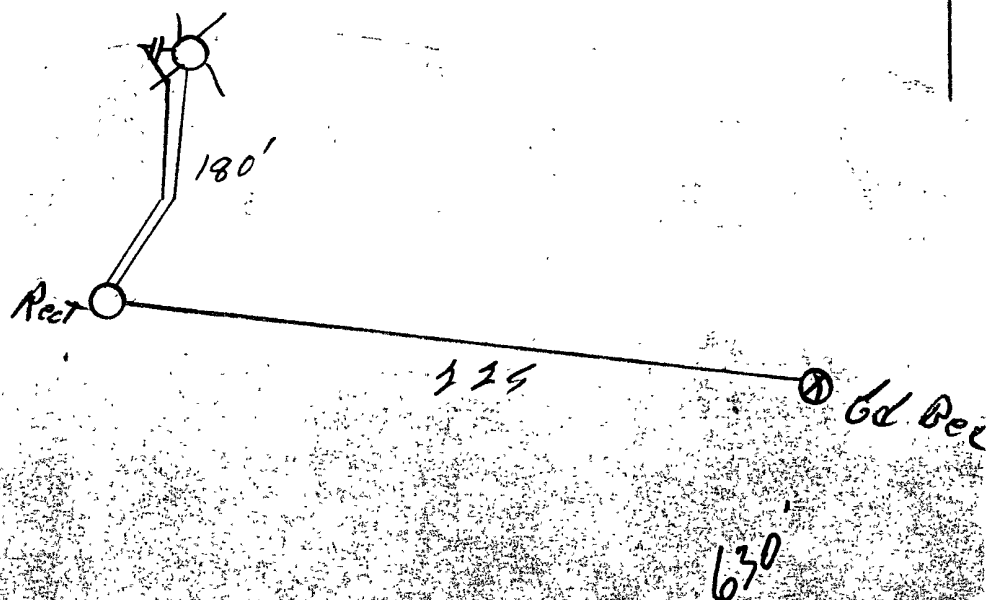
FORMATION LOG (ATTACH HERETO).

REMARKS: Static $\frac{9}{16}$ = .67 R 600' E
Installed Good-All Rect 40V 12A ser # 6206375
Installed 185' Scrap Tubing for Ground Bed

ALL CONSTRUCTION COMPLETED

E. Paulik
SIGNATURE

GROUND BED LAYOUT SKETCH



ORIGINAL & 1 COPY
ALL REPORTS

DRILLING DEPARTMENT

DAILY DRILLING REPORT

7-16-63

LEASE *Leona* WELL NO. *#1* CONTRACTOR *L.E. Wilson* RIG NO. *D4* REPORT NO. DATE *7-17-63*

Driller				Teller			
FROM	TO	FORMATION	W.B.T.	FROM	TO	FORMATION	W.B.T.
0	8	Sand	6591	0	43	Carbide sand	6591
8	1 1/2	claystone	6591	43	93	claystone	6591
1 1/2	6-1	claystone	6591	93	108	claystone	6591
Total Depth 185'				Total Depth 185'			
BIT NO.	NO. OF SIZES	ENG.	NO. OF SIZES	ENG.	BIT NO.	NO. OF SIZES	ENG.
8591							
TYPE	DOWN ON KELLY	SINGLES	TYPE	DOWN ON KELLY	SINGLES	TYPE	DOWN ON KELLY
Weldmac			Weldmac			Weldmac	
MADE	NO. OF SIZES	ENG.	MADE	NO. OF SIZES	ENG.	MADE	NO. OF SIZES
Weldmac			Weldmac			Weldmac	
TIME	W.B.T.	W.B.T.	TIME	W.B.T.	W.B.T.	TIME	W.B.T.
FROM	TO	FORMATION	W.B.T.	FROM	TO	FORMATION	W.B.T.
STARTED AT 8:00 AM				1 mud			
AT 6:52 PM				2 muds water			

El Paso Natural Gas Company
Form 7-238 (7-63)

WELL CASING
CATHODIC PROTECTION CONSTRUCTION REPORT
DAILY LOG

Date 7-19-65

Well Name <u>LUCERNE #1A</u>			CPS No. <u>443W</u>		
Location <u>SW 9-31-10</u>			Work Order No. <u>52478</u>		
Anode Hole Depth <u>185</u>	Total Drilling Rig Time <u>2 1/2 Hrs</u>	Type & Size Bit Used		No. Sacks Mud Used	
No. Sacks Lost Circulation Mat'l Used	Anode Depth				
	# 1 <u>185</u>	# 2 <u>175</u>	# 3 <u>165</u>	# 4 <u>155</u>	# 5 <u>140</u>
Total Lbs. Coke Used	Anode Output (Volts)				
	# 1	# 2	# 3	# 4	# 5
Total Circuit Resistance	No. Ft. Surface Cable Conduit				
Volts	Amps	Ohms			

Drilling Log (Attach Hereto). ☐

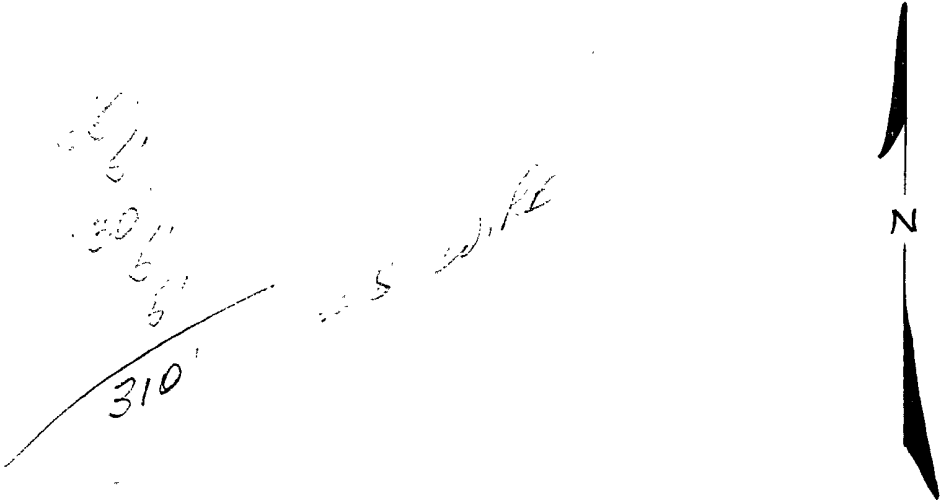
Remarks: one string of 4 Anodes
one string of 2 Anodes
inside of Tubing GB.

All Construction Completed

Barrels

(Signature)

GROUND BED LAYOUT SKETCH



4-R 30-045-10935
9 30-045-22728

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. 10 Twp 31 Rng 10

Name of Well/Wells or Pipeline Serviced LUCERNE A #4R, #9
cps 1472w

Elevation 6119' Completion Date 8/21/80 Total Depth 240' Land Type* N/A

Casing, Sizes, Types & Depths N/A

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

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

Depths & thickness of water zones with description of water when possible:
Fresh, Clear, Salty, Sulphur, Etc. 50' SAMPLE TAKEN

Depths gas encountered: N/A

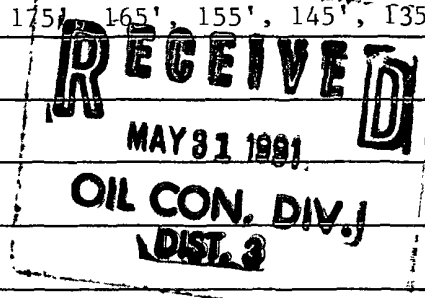
Type & amount of coke breeze used: 24 SACKS

Depths anodes placed: 215', 205', 195', 185', 175', 165', 155', 145', 135', 115'

Depths vent pipes placed: 235'

Vent pipe perforations: 200'

Remarks: gb #1



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

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

El Paso Natural Gas Company
Form 7-238 (Rev. 11-71)

WELL CASING
CATHODIC PROTECTION CONSTRUCTION REPORT
DAILY LOG

Drilling Log (Attach Hereto). ☐

Completion Date 8-21-80

Well Name <u>LUCERNE A #4R</u> <u>LUCERNE A #9</u>		Location <u>2 X 60 ANODES</u> <u>NE 10-31-10</u>		CPS No. <u>1472-W</u>	
Type & Size Bit Used <u>6 3/4</u>				Work Order No. <u>54332-19</u> <u>57275-21</u>	
Anode Hole Depth <u>240</u> <u>1099ed 235</u>	Total Drilling Rig Time	Total Lbs. Coke Used <u>24 SACKS</u>	Lost Circulation Mat'l Used	No. Sacks Mud Used	
Anode Depth					
# 1 <u>215</u>	# 2 <u>205</u>	# 3 <u>195</u>	# 4 <u>185</u>	# 5 <u>175</u>	# 6 <u>165</u>
# 7 <u>155</u>	# 8 <u>145</u>	# 9 <u>135</u>	# 10 <u>115</u>		
Anode Output (Amps)					
# 1 <u>3.4</u>	# 2 <u>3.7</u>	# 3 <u>4.4</u>	# 4 <u>3.6</u>	# 5 <u>3.8</u>	# 6 <u>4.1</u>
# 7 <u>4.3</u>	# 8 <u>4.8</u>	# 9 <u>4.9</u>	# 10 <u>4.4</u>		
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	
Volts <u>12.2</u>	Amps <u>18.0</u>	Ohms <u>.67</u>			No. 2 C.P. Cable Used

Remarks: UNION - OK

DRILLER SAID HIT WATER AT 50'. NEXT A.M. BLEW WATER & WATER SAMPLE MAKING APPROX. 5 GPM. INSTALLED 235' OF 1" VENT PIPE, PERFORATED 200' OF VENT PIPE

1 60V 30A RECT ✓

DITCH + 1 CABLE - 262' ✓

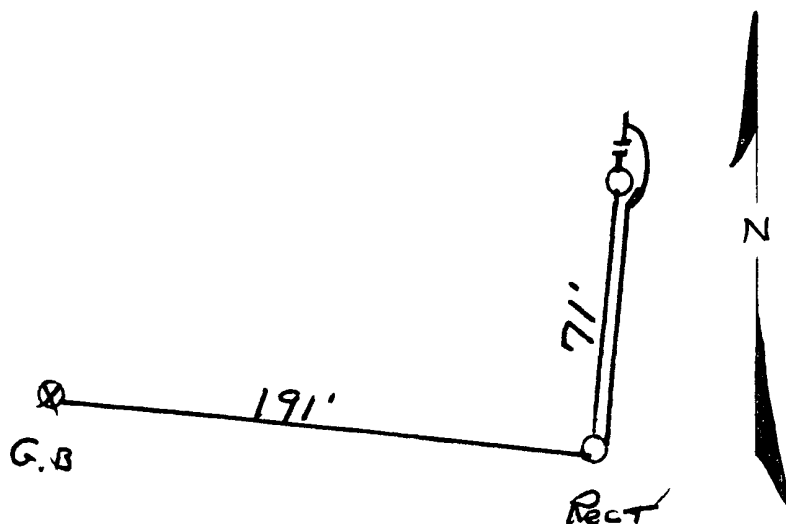
EXTRA CABLE - 101' ✓

HOLE DEPTH - 265' ✓

GROUND BED LAYOUT SKETCH

All Construction Completed

Melvin Lough Jr.
(Signature)



DISTRIBUTION:

WHITE - Division Corrosion Office
YELLOW - Area Corrosion Office
PINK - Originator File

649

Sheet: 8-21-80
 Date: 8-21-80
 By: WK
 File: _____

 LUCERNE A #4R
 LUCERNE A #9
 NE 10-31-10
 CPS 1472-W

 W/D 54332-19
 W/D 57275-21
 UNION - OK

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

MW	MISC	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 ₂ S	5.17
28.01	N ₂	4.16
2.02	H ₂	3.38

 1 60V 30A Rect
 Ditch + 1 cable
 EXTRA cable
 Hole Depth

 DRILLER Said hit water at
 50'; Next A.M. Blew water
 Got water sample. Install
 240' of 1" VENT PIPE, PERFOR
 200' of VENT PIPE. SURRYED
 SACKS of COKE BREEZ
 APPROX 5 GPM WATER

50	1.4	200	3.0
55	3.0	05	2.6 ②
60	4.0	10	2.8
65	3.9	15	2.5 ①
70	3.3	20	2.4
75	3.3	25	2.1
80	3.2	30	1.8
85	3.8	35	1.8
90	3.9	40	
95	3.6		
100	3.2		
05	2.9		
10	3.2		
15	3.2 ⑩		
20	2.8		
25	2.3		
30	2.9		
35	3.4 ⑨		
40	3.2		
45	3.3 ⑧		
50	3.2		
55	3.3 ⑦		
60	3.3		
65	3.1 ⑥		
70	3.0		
75	2.9 ⑤		
80	2.9		
85	2.6 ④		
90	2.7		
95	3.3 ③		

⑩ 215	2.5	3.4
⑨ 205	2.6	3.7
⑧ 195	3.3	4.4
⑦ 185	2.6	3.6
⑥ 175	2.9	3.8
⑤ 165	3.1	4.1
④ 155	3.3	4.3
③ 145	3.3	4.8
② 135	3.4	4.9
① 115	3.2	4.4

122V 18.0A .67 Ω

CPS# 1472 W

Lucerne #5 A4R & A9

W.O.#'s 54332-19 & 57275-21

DAILY DRILLING REPORT

LEASE

WELL NO.

CONTRACTOR 3-C Delving

RIG NO. ~~4~~ /

REPORT NO.

DATE August 21st 1980

MORNING

DAYLIGHT

EVENING

Driller: *B. J. Smith*

Total Men In Crew 3

Driller

Total Men In Crew

Drilled

Total Men In Crew

[illegible]

NO. DC _____ SIZE _____ LENG. _____	NO. DC _____ SIZE _____ LENG. _____	NO. DC _____ SIZE _____ LENG. _____	NO. DC _____ SIZE _____ LENG. _____	NO. DC _____ SIZE _____ LENG. _____
BIT NO. _____	BIT NO. _____	BIT NO. _____	BIT NO. _____	BIT NO. _____
SERIAL NO. _____	SERIAL NO. _____	SERIAL NO. _____	SERIAL NO. _____	SERIAL NO. _____
SIZE <u>6 3/4</u>	SIZE _____	SIZE _____	SIZE _____	SIZE _____
TYPE <u>Rock</u>	TYPE _____	TYPE _____	TYPE _____	TYPE _____
MAKE _____	MAKE _____	MAKE _____	MAKE _____	MAKE _____
TOTAL DEPTH _____	TOTAL DEPTH _____	TOTAL DEPTH _____	TOTAL DEPTH _____	TOTAL DEPTH _____

[illegible]

TIME BREAKDOWN			TIME BREAKDOWN			TIME BREAKDOWN		
FROM	TO		FROM	TO		FROM	TO	
0	20	sand & bentonite	190	200	bentonite			
20	40	shale-sand-water Sgpm	200	220	shale			
40	60	bentonite	220	240	bentonite			
?	120	shale						
120	140	bentonite & shale						
140	190	shale						

REMARKS -	REMARKS - drilled to 40' on the 20 th but water sand at 30'. water standing at 30' next morning. Hole making about 5 gall./p/m. Got a good water sample.	REMARKS -
	Total hole depth 246'	
	Total log depth 235'	

SIGNED: Toolpusher

Guinn Burger

____ Company Supervisor

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

Analysis No. 1-10048 Date 11-12-80

Operator El Paso Natural Gas Well Name Lucerne A #4R

Location NE 10-31-10 County San Juan State New Mexico

Field Kutz Formation

Sampled From CPS 1472 @ 50 ft.

Date Sampled 8-21-80 By Willis Knight

Tbg. Press. Csg. Surface Csg. Press.

	ppm	epm		ppm	epm
Sodium	<u>627</u>	<u>27.3</u>	Chloride	<u>52</u>	<u>1.5</u>

Calcium	<u>484</u>	<u>24.2</u>	Bicarbonate	<u>222</u>	<u>3.6</u>
---------	------------	-------------	-------------	------------	------------

Magnesium	<u>56</u>	<u>4.6</u>	Sulfate	<u>2450</u>	<u>51.0</u>
-----------	-----------	------------	---------	-------------	-------------

Iron	<u></u>	<u></u>	Carbonate	<u>0</u>	<u>0</u>
------	---------	---------	-----------	----------	----------

H ₂ S	<u></u>	<u></u>	Hydroxide	<u>0</u>	<u>0</u>
------------------	---------	---------	-----------	----------	----------

cc: C.B. O'Nan
R.A. Ullrich
E.R. Paulek
J.W. McCarthy
A.M. Smith
W.B. Shropshire
D.C. Adams
File

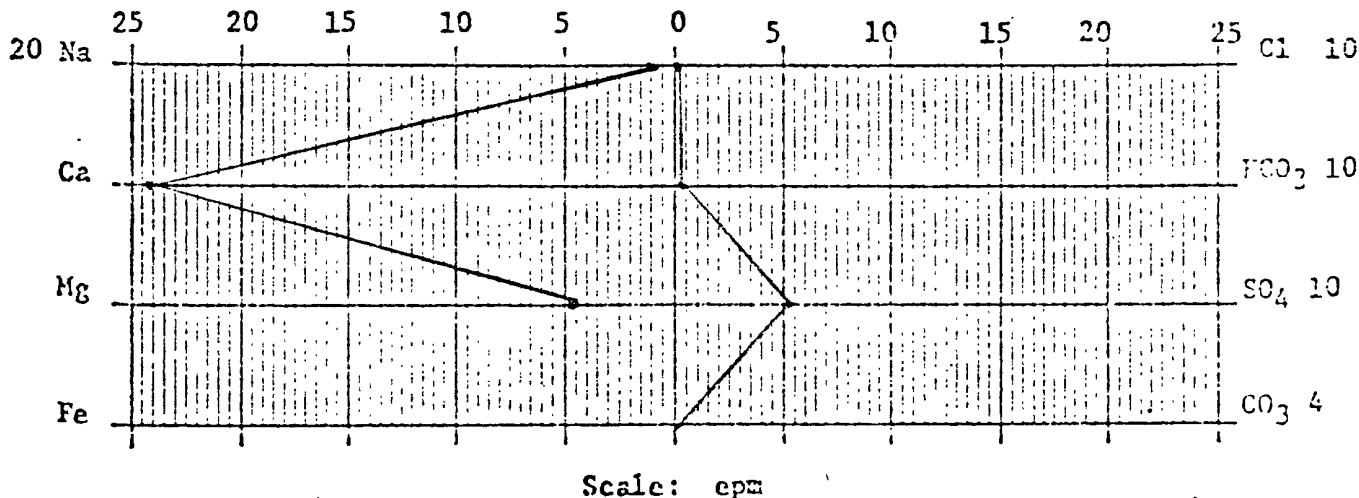
Total Solids Dissolved 4272

pH 6.9

Sp. Gr. 923 At 60°F

Resistivity 200 ohm-cm at 77°F

Joe Barnett
Chemist



WALKER KOCH 2-A

30-045-21693

5212

WALKER KOCH 3

30-045-21902

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

Operator KOCH EXPLORATION COMPANY Location: Unit P Sec. 10 Twp 31 Rng 10Name of Well/Wells or Pipeline Serviced WALKER-2A AND 3Elevation 6132' Completion Date 7-29-82 Total Depth 300' Land Type NM-014110
F-NM-013688ACasing, Sizes, Types & Depths NONEIf Casing is cemented, show amounts & types used NONEIf Cement or Bentonite Plugs have been placed, show depths & amounts used NONEDepths & thickness of water zones with description of water when possible:
Fresh, Clear, Salty, Sulphur, Etc. @-40' CLEAR, ALKALIDepths gas encountered: NONEType & amount of coke breeze used: METALLURGICAL, 1200#Depths anodes placed: 280'-260'-250'-240'-230'-220'-210'-200'-190'Depths vent pipes placed: 295'Vent pipe perforations: FROM 190' DOWNRemarks:

RECEIVED
MAR 6 1990
OIL CON. DIV
EXT. 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.

CORROSION CONTROL CO.

P. O. BOX 179 — PHONE 334-6361
AZTEC, NEW MEXICO 87410Drilling Log (Attach Hereto). ☐Completion Date 7-29-82

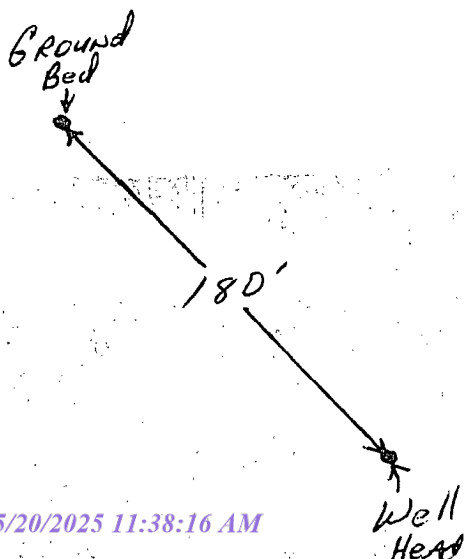
Well Name <u>Walker #3 + 2A</u>				Location <u>Koch</u>					
Type & Size Bit Used <u>6 3/4"</u>								Work Order No.	
Anode Hole Depth <u>300'</u>		Total Drilling Rig Time <u>7 hrs</u>		Total Lbs. Coke Used <u>1200#</u>		Lost Circulation Mat'l Used		No. Sacks Mud Used	
Anode Depth									
#1 <u>280</u>	#2 <u>270</u>	#3 <u>260</u>	#4 <u>250</u>	#5 <u>240</u>	#6 <u>230</u>	#7 <u>220</u>	#8 <u>210</u>	#9 <u>200</u>	#10 <u>190</u>
Anode Output (Amps)									
#1 <u>3.8</u>	#2 <u>3.5</u>	#3 <u>4.3</u>	#4 <u>4.3</u>	#5 <u>4.2</u>	#6 <u>3.8</u>	#7 <u>4.3</u>	#8 <u>4.6</u>	#9 <u>3.5</u>	#10 <u>3.9</u>
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 <u>11.8</u>		Amps <u>20.3</u>		Ohms <u>0.58</u>		<u>2550'</u>			

Remarks: Water at 40'. Used 300' of vent pipe.

All Construction Completed

Cordy Munkres
(Signature)

GROUND BED LAYOUT SKETCH



846

30-045-22505

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. 10 Twp 31 Rng 10Name of Well/Wells or Pipeline Serviced LUCERNE A #4A
cps 1240wElevation 6184' Completion Date 1/11/79 Total Depth 500' Land Type* N/ACasing, Sizes, Types & Depths 53' OF 8" STEEL CASING ,
133' of 6 5/8 CASINGIf Casing is cemented, show amounts & types used N/AIf Cement or Bentonite Plugs have been placed, show depths & amounts used
N/A

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

Fresh, Clear, Salty, Sulphur, Etc. DAMP 180' - 200' WATER AT 280' & 360'SAMPLE TAKENDepths gas encountered: 280'Type & amount of coke breeze used: 50 SACKSDepths anodes placed: 420', 410', 400', 390', 380', 370', 360', 325', 315', 305'Depths vent pipes placed: 310'Vent pipe perforations: 200'Remarks: gb #1

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MAY 31 1991
OIL CON. DIV.
DIST. 3

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

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

WELL CASING
CATHODIC PROTECTION CONSTRUCTION REPORT
DAILY LOG

2"x60" DURIROX Anodes

Completion Date 1-11-79

Well Name Lucerne A #4 A		Location NW 10-31-10		CPS No. 1240 W	
Type & Size Bit Used 5 7/8"		Contract # 3		Work Order No. 5 7 209-21	
Anode Hole Depth 500 - 455	Total Drilling Rig Time	Total Lbs. Coke Used	Lost Circulation Mat'l Used	No. Sacks Mud Used	
Anode Depth	Anode Depth	Anode Depth	Anode Depth	Anode Depth	Anode Depth
# 1 420	# 2 410	# 3 400	# 4 390	# 5 380	# 6 370
# 7 360	# 8 325	# 9 315	# 10 305		
Anode Output (Amps)	Anode Output (Amps)	Anode Output (Amps)	Anode Output (Amps)	Anode Output (Amps)	Anode Output (Amps)
# 1 3.6	# 2 3.6	# 3 3.8	# 4 3.4	# 5 3.5	# 6 3.6
# 7 3.8	# 8 3.4	# 9 3.4	# 10 4.3		
Anode Depth	Anode Depth	Anode Depth	Anode Depth	Anode Depth	Anode Depth
# 11	# 12	# 13	# 14	# 15	# 16
# 17	# 18	# 19	# 20		
Anode Output (Amps)	Anode Output (Amps)	Anode Output (Amps)	Anode Output (Amps)	Anode Output (Amps)	Anode Output (Amps)
# 11	# 12	# 13	# 14	# 15	# 16
# 17	# 18	# 19	# 20		
Total Circuit Resistance	Total Circuit Resistance	Total Circuit Resistance	Total Circuit Resistance	Total Circuit Resistance	Total Circuit Resistance
Volts 11.5	Amps 15.0	Ohms 0.77	No. 8 C.P. Cable Used	No. 2 C.P. Cable Used	

Remarks: DRILLER SAID DAMP @ 180' & 200'. STARTED MAKING WATER @ 280'. ALSO MAKING GAS @ 280'. MORE WATER @ 360'. INSTALLED 310' OF 1" PVC VENT PIPE. PERFORATED 200' OF 1" PVC VENT PIPE. SLURRIED 50 SACKS OF COKE. INSTALLED 53' OF 8" STEEL CASING. 133' OF 6 5/8" STEEL CASING. 130' OF BOULDERS.

Static 600' SE = 0.86

40V16A Rectifier

Stub Pole

Ditch \$/cable = 278

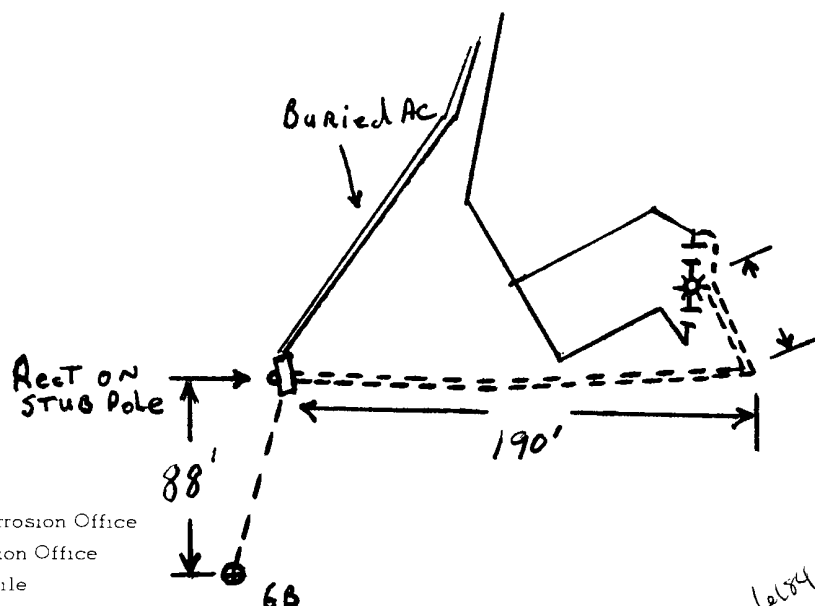
EXTRA CABLE 190'

Hole Depth = -322

All Construction Completed

W. Z. Lutz
(Signature)

GROUND BED LAYOUT SKETCH



DISTRIBUTION:

WHITE - Division Corrosion Office

YELLOW - Area Corrosion Office

PINK - Originator File

Contract #3

DAILY DRILLING REPORT

LEASE

WELL NO. 1240W

CONTRACTOR AAT Enter.

RIG NO. 2

REPORT NO.

DATE 1-11

19 79

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.

BIT NO.		NO. DC	SIZE	LENG.	BIT NO.		NO. DC	SIZE	LENG.	BIT NO.		NO. DC	SIZE	LENG.
SERIAL NO.		NO. DC	SIZE	LENG.	SERIAL NO.		NO. DC	SIZE	LENG.	SERIAL NO.		NO. DC	SIZE	LENG.
SIZE		STANDS			SIZE		STANDS			SIZE		STANDS		
TYPE		SINGLES			TYPE		SINGLES			TYPE		SINGLES		
MAKE		DOWN ON KELLY			MAKE		DOWN ON KELLY			MAKE		DOWN ON KELLY		
		TOTAL DEPTH					TOTAL DEPTH					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
0	133	SURFACE PIPE	280	360	SHALE (WATER)			
133	140	SANDY SHALE	360	400	SANDY SHALE			
140	160	SHALE	400	440	SHALE			
160	180	SANDY SHALE (DAMP)	440	500	SANDY SHALE			
180	260	SHALE						
260	280	SANDY SHALE (GAS + DAMP)						

REMARKS -	REMARKS -	REMARKS -
		DRILLED 578 HOLES to 500
		LOGGED 455
		EST WATER 20 g.t.m.

SIGNED: Toolpusher

D. F. McDonald

Company Supervisor

Date: 05/04/2021

By: [Signature]

File: [Signature]

CONTRACT #3

LUCERNE A #4-A NW10-31-10 1240W 5709-21
5 7/8" B.T. 2" X 60" DARICON ANODES

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 17.48
114.23	C ₈ 19.39
28.05	C ₂ 9.64
42.08	C ₃ 9.87

MW	MISC.	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 ₂ S	5.17
28.01	N ₂	4.16
2.02	H ₂	3.38

Static 600	S = 0.86			DRILLER SAID MAKING WATER @ 280' MORE
1 50 2.1				WATER @ 360'. DAP @ 150 & 200'
60 1.3				
60 1.0				Grd Bud MAKING GAS @ 280'
70 1.7				
80 2.10		80 2.0	⑤	Installed 310' of 1" PVC Vent Pipe
2.10		2.0		PERFORATED 200' of 1" PVC Vent Pipe
90 2.0		90 1.9	④	SLURRYED 50 SACKS OF CEMENT
1.9		1.9		
200 1.6		400 2.1	③	53' of 8" steel casing
1.4		2.2		133' of 6 5/8" steel casing
10 1.8		10 2.1	②	DRILLED TO 300' with 5 7/8" BIT
2.4		2.0		130' of Boulders
20 2.5		20 2.0	①	
2.5		1.7		
30 2.8		30 1.5		
2.9		1.4		
40 2.7		40 1.9		
2.4		2.0		
50 2.3		50 1.9	Logged	
2.0			T.D.	
60 1.5		60		
1.3				
70 1.3		70		
1.0				
80 1.0		80		① 420 2.0 3.6
1.1				② 410 2.1 3.6
90 1.3		90		③ 400 2.1 3.8
1.3				④ 390 1.9 3.4
300 2.0		500		⑤ 380 2.0 3.5
2.2	⑩			⑥ 370 2.0 3.6
10 2.4				⑦ 360 2.2 3.8
2.2	⑨			⑧ 325 2.1 3.4
20 2.0				⑨ 315 2.1 3.4
2.0	⑧			⑩ 305 2.6 4.3
30 2.0				
1.2				
40 1.1				11.5 Volts
1.0				15.0 Amps
50 1.0				0.77 ohms
1.8				
60 2.2	⑦			
2.2				
70 2.1	⑥			
2.0				

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

Analysis No. 1-9450 Date January 19, 1979

Operator EPNG Well Name Lucerne A #4-A

Location NW 10-31-10 County San Juan State NM

Field _____ Formation _____

Sampled From CPS 1240 W

Date Sampled _____ By _____

Tbg. Press. _____	Csg. Press. _____	Surface Csg. Press _____	
ppm	epm	ppm	epm

Sodium <u>1874</u> <u>82</u>	Chloride <u>160</u> <u>5</u>
------------------------------	------------------------------

Calcium <u>120</u> <u>6</u>	Bicarbonate <u>103</u> <u>2</u>
-----------------------------	---------------------------------

Magnesium <u>29</u> <u>3</u>	Sulfate <u>4025</u> <u>84</u>
------------------------------	-------------------------------

Iron <u>Present</u>	Carbonate <u>0</u> <u>0</u>
---------------------	-----------------------------

H ₂ S <u>Absent</u>	Hydroxide <u>0</u> <u>0</u>
--------------------------------	-----------------------------

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

Total Solids Dissolved 6946

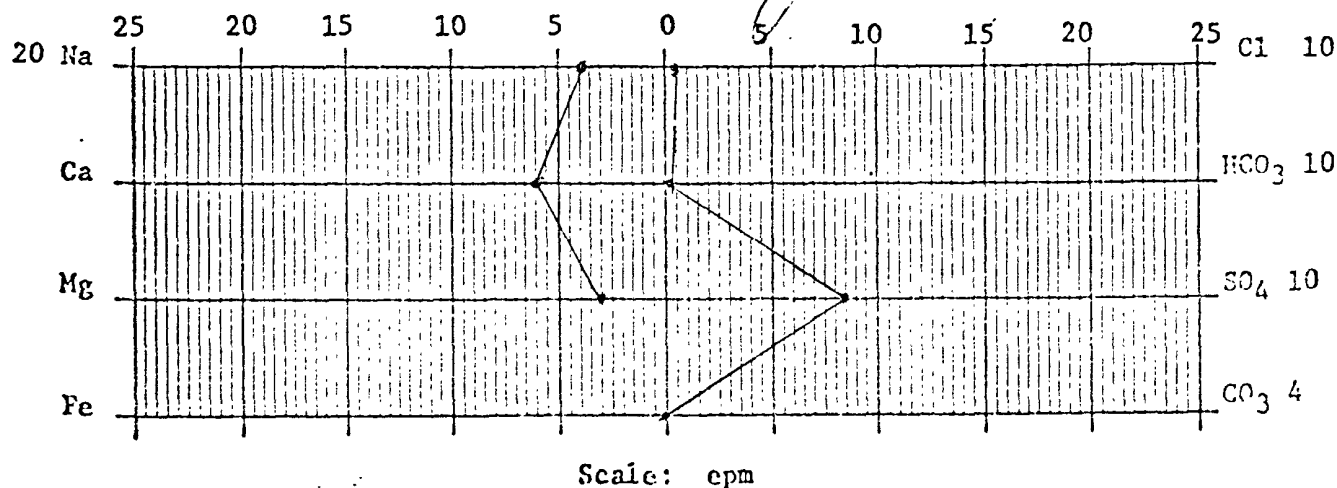
pH 7.2

Sp. Gr. 1.0070 at 60°F

Resistivity 130 ohm-cm at 72 °F

Water at 280'

Joe Barnett
Chemist



1 = 30-045-10688
8 = 30-045-22579

41857

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. 15 Twp 31 Rng 10

Name of Well/Wells or Pipeline Serviced KELLY A #1, #8

cps 442w

Elevation 6178' Completion Date 7/15/63 Total Depth 160' 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. N/A

Depths gas encountered: N/A

Type & amount of coke breeze used: 1200 lbs.

Depths anodes placed: 150', 144', 138', 132', 126'

Depths vent pipes placed: N/A

Vent pipe perforations: N/A

Remarks: qb #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.

WELL CASING
CATHODIC PROTECTION CONSTRUCTION REPORT
DAILY LOG

DATE 7-15-63WELL NAME Kelly #1-A CPS NO. 442WLOCATION 15-31N-10WWORK ORDER NUMBER 184-40542-50-02ANODE HOLE DEPTH 160'TOTAL DRILLING RIG TIME 14 1/2 hrsDRILLING TIME FOR RECTIFIER POLE HOLE 0

TYPE AND SIZE BIT USED _____

NUMBER SACKS MUD USED 7NUMBER SACKS LOST CIRCULATION MAT'L USED 0ANODE DEPTHS #1 150', #2 144', #3 138', #4 132' 5' 126'TOTAL LBS. COKE USED 1200 lb 12 sacksANODE OUTPUTS 11 VOLTS, #1 3.7, #2 4.6, #3 4.4, #4 3.8 5 3.7TOTAL CIRCUIT RESISTANCE: VOLTS 10.6 AMPERES 8.6 OHMS 1.24NUMBER FEET SURFACE CABLE CONDUIT 345'

DRILLING LOG (ATTACH HERETO).

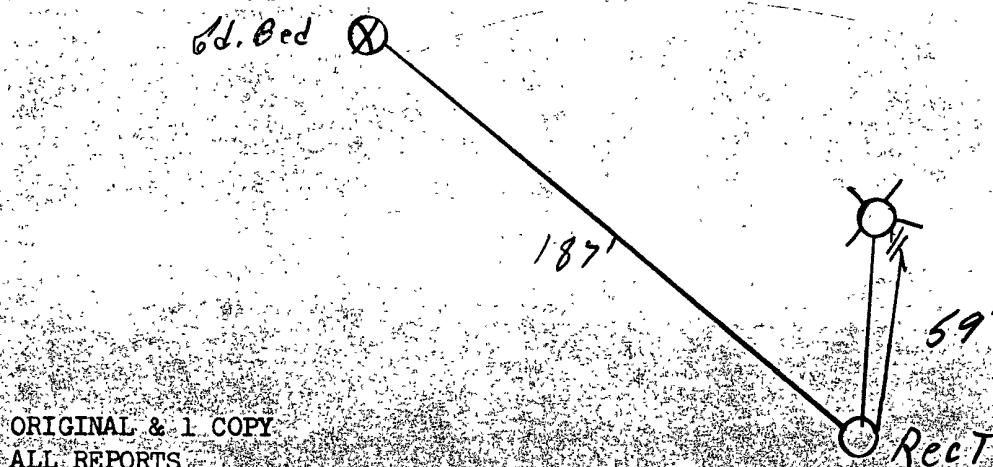
FORMATION LOG (ATTACH HERETO).

REMARKS: Static G/S = .85 @ 600' SWInstalled Good-All Rect 40V 12A ser # 62C6407Note: No Junction Box Installed

ALL CONSTRUCTION COMPLETED

E. Paulk
SIGNATURE

GROUND BED LAYOUT SKETCH



ORIGINAL & 1 COPY
ALL REPORTS

DRILLING DEPARTMENT

DAILY DRILLING REPORT

LEASE **Kelley** WELL NO. **1-A** CONTRACTOR **LE Wilson** RIG NO. **D-2** REPORT NO. DATE **7-13, 14, 15-63**

MORNING

DAYLIGHT

EVENING

Driller		Tool Mch. II		Driller		Tool Mch. II		Driller		Tool Mch. II	
FROM	TO	FORMATION	WT. IN	NO. DC	NO. DC	FORMATION	WT. IN	NO. DC	NO. DC	FORMATION	WT. IN
0	79	S. 4 SS.	24964								
79	108	Boulders	"								
108	134	SS.	"								
134	160	S.S.H.	"								
Dr. No.		NO. DC		NO. DC		NO. DC		NO. DC		NO. DC	
SERIAL NO.		SIZE		SIZE		SIZE		SIZE		SIZE	
TYPE		STANDS		STANDS		STANDS		STANDS		STANDS	
MAKE		DOWN ON KELLY		DOWN ON KELLY		DOWN ON KELLY		DOWN ON KELLY		DOWN ON KELLY	
MUD RECORD		TOTAL DEPTH		TOTAL DEPTH		TOTAL DEPTH		TOTAL DEPTH		TOTAL DEPTH	
TIME		MUD IN CON		MUD IN CON		MUD IN CON		MUD IN CON		MUD IN CON	
TIME		TIME BREAKDOWN		TIME BREAKDOWN		TIME BREAKDOWN		TIME BREAKDOWN		TIME BREAKDOWN	

REMARKS-

REMARKS-

REMARKS-

7-13-63 Drilled to 104' Boulders at 79'. 2 Loads Water 10 hrs.
7-14-63. Sunday OFF.
7-15-63 Drilled from 104' to 160'. Flashed hole. 1 load water 4 1/2 hrs.

Rig Time 14 1/2 hrs.

SIGNED: [Signature]

[Signature]

4929

30-045-13326

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. 15 Twp 31 Rng 10

Name of Well/Wells or Pipeline Serviced KELLY A #3

cps 423w

Elevation 6217' ~~Completion~~ Date 12/16/66 Total Depth 360' 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. N/A

Depths gas encountered: 360'

Type & amount of coke breeze used: N/A

Depths anodes placed: N/A

Depths vent pipes placed: N/A

Vent pipe perforations: N/A

Remarks: HOLE NOT COMPLETED. DRILLER HIT GAS POCKET AND MOVED RIG OFF GROUND BED.

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

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

RECEIVED
MAY 31 1991
OIL CON. DIV
DIST 3

El Paso Natural Gas Company
Form 7-238 (7-63)WELL CASING
CATHODIC PROTECTION CONSTRUCTION REPORT
DAILY LOGDate 12-16-66

Well Name <u>Kelly 3A</u>			CPS No. <u>413 W</u>		
Location <u>NE 15-31-10</u>			Work Order No. <u>184-52492</u>		
Anode Hole Depth <u>360</u>	Total Drilling Rig Time	Type & Size Bit Used		No. Sacks Mud Used	
No. Sacks Lost Circulation Mat'l Used	Anode Depth	# 1	# 2	# 3	# 4
		# 5	# 6		
Total Lbs. Coke Used	Anode Output (Volts)	# 1	# 2	# 3	# 4
		# 5	# 6		
Total Circuit Resistance	No. Ft. Surface Cable Conduit				
Volts	Amps	Ohms			

Drilling Log (Attach Hereto). ☐

Remarks: Hole NOT Completed Driller Hit Gas Pocket
Moved Rig off Ground Bed To Be completed with
Gas quits Blowing

All Construction Completed

(Signature)

GROUND BED LAYOUT SKETCH

Original & 1 Copy All Reports

Contract Number: DAAG20-02-1-0001

4929

30-045-13326

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. 15 Twp 31 Rng 10

Name of Well/Wells or Pipeline Serviced KELLY A #3

cps 423w

Elevation 6217' ~~XXXXXXXXXX~~ Completion Date 12/16/66 Total Depth 360' 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. N/A

Depths gas encountered: 360'

Type & amount of coke breeze used: N/A

Depths anodes placed: N/A

Depths vent pipes placed: N/A

Vent pipe perforations: N/A

Remarks: HOLE NOT COMPLETED. DRILLER HIT GAS POCKET AND MOVED RIG OFF GROUND BED.

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

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

RECEIVED
MAY 31 1991
OIL CON. DIV
DIST 3

El Paso Natural Gas Company
Form 7-238 (7-63)WELL CASING
CATHODIC PROTECTION CONSTRUCTION REPORT
DAILY LOGDate 12-16-66

Well Name <u>Kelly 3A</u>			CPS No. <u>413 W</u>		
Location <u>NE 15-31-10</u>			Work Order No. <u>184-52492</u>		
Anode Hole Depth <u>360</u>	Total Drilling Rig Time	Type & Size Bit Used		No. Sacks Mud Used	
No. Sacks Lost Circulation Mat'l Used	Anode Depth	# 1	# 2	# 3	# 4
		# 5	# 6		
Total Lbs. Coke Used	Anode Output (Volts)	# 1	# 2	# 3	# 4
		# 5	# 6		
Total Circuit Resistance	No. Ft. Surface Cable Conduit				
Volts	Amps	Ohms			

Drilling Log (Attach Hereto). ☐

Remarks: Hole NOT Completed Driller Hit Gas Pocket
Moved Rig off Ground Bed To Be completed with
Gas quits Blowing

All Construction Completed

(Signature)

GROUND BED LAYOUT SKETCH

Original & 1 Copy All Reports

CONFIDENTIAL

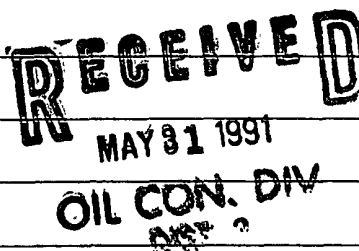
1020

30-045-21984

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

Operator MERIDIAN OIL Location: Unit SE Sec. 15 Twp 31 Rng 10Name of Well/Wells or Pipeline Serviced KELLY A #3A

cps 1194w

Elevation 6218' Completion Date 5/19/77 Total Depth 370' Land Type* N/ACasing, Sizes, Types & Depths N/AIf Casing is cemented, show amounts & types used N/AIf Cement or Bentonite Plugs have been placed, show depths & amounts used
N/ADepths & thickness of water zones with description of water when possible:
Fresh, Clear, Salty, Sulphur, Etc. WET AT 50'Depths gas encountered: N/AType & amount of coke breeze used: 38 SACKSDepths anodes placed: 270', 260', 240', 230', 220', 210', 185', 175', 165', 155'Depths vent pipes placed: 300'Vent pipe perforations: 200'Remarks: gb #1

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

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

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

WELL CASING
CATHODIC PROTECTION CONSTRUCTION REPORT
DAILY LOG

Drilling Log (Attach Hereto). ☐

Completion Date 5/19/77

Logged
H. W. R. [Signature]
F. [Signature]

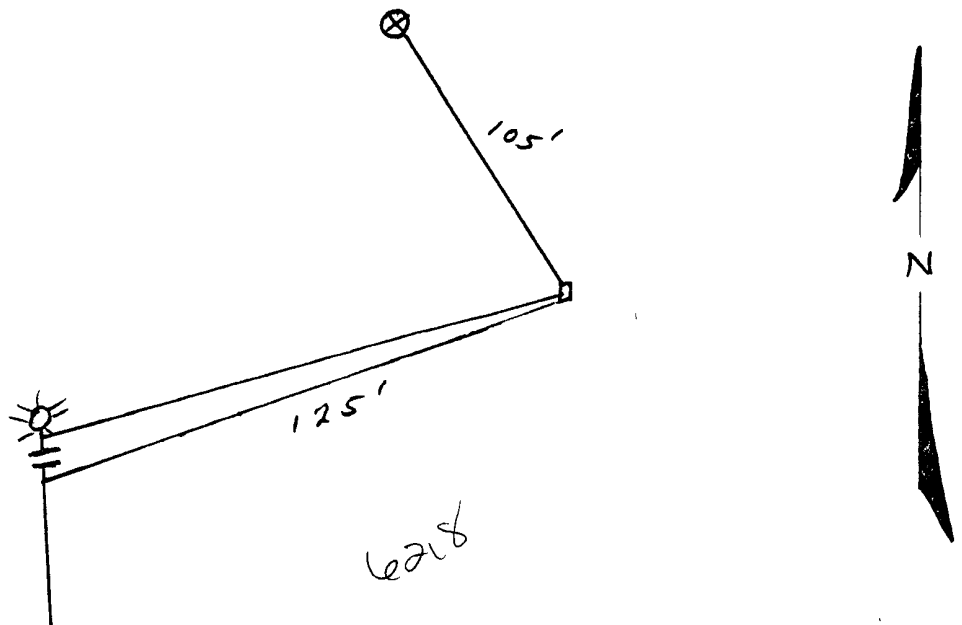
Well Name Kelly A #3A		Location SE-15-31-10		CPS No. 1194 W	
Type & Size Bit Used 6 3/4"				Work Order No. 57106-19-50-20	
Anode Hole Depth 320' X 320'	Total Drilling Rig Time	Total Lbs. Coke Used 38 SACKS	Lost Circulation Mat'l Used	No. Sacks Mud Used	
Anode Depth					
# 1 270'	# 2 260'	# 3 240'	# 4 230'	# 5 220'	# 6 210'
# 7 185'	# 8 175'	# 9 165'	# 10 155'		
Anode Output (Amps)					
# 1 4.4	# 2 4.6	# 3 4.4	# 4 5.3	# 5 5.2	# 6 5.2
# 7 4.8	# 8 5.8	# 9 5.0	# 10 6.6		
Anode Depth					
# 11	# 12	# 13	# 14	# 15	# 16
Anode Output (Amps)					
# 11	# 12	# 13	# 14	# 15	# 16
Total Circuit Resistance					
Volts 11.61 V	Amps 22.8 A	Ohms .5			
			No. 8 C.P. Cable Used		No. 2 C.P. Cable Used

Remarks: Drilled 320'-Hole cased to 320'. WATER NEXT A.M. AT 60
Drilled To 240' with Air, STARTED INJECTING WATER AT 240'.
300' of 1" P.V.C. VENT pipe, Perforated 200'. Skipped 38 SACKS
of coke.

All Construction Completed

(Signature)

GROUND BED LAYOUT SKETCH



Original & 1 Copy All Reports

El Paso Natural Gas Company
ENGINEERING CALCULATIONSheet _____ of _____
Date _____
By _____
File _____

5/19/77

js

1194 W

Kelly A #3A

SE-15-31-10

W.O.H. 57106.19

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

MW	MISC	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 ₂ S	5.17
28.01	N ₂	4.16
2.02	H ₂	3.38

50 -		60 -	2.1	—
			2.3	
60 -	.6	70 -	2.0	+
	.6		1.8	
70 -	1.1	80 -	1.6	
	1.7		1.4	
80 -	1.9	90 -	1.8	
	1.7		1.5	
90 -	1.6	300 -	2.1	
	1.5		2.4	
100 -	1.9	10 -	2.5	
	2.3		2.3	
10 -	2.4	20 -	T.D.	
	2.3			
20 -	2.1	30 -		
	1.9			
30 -	1.5	40 -		
	1.3			
40 -	1.0	50 -		
	1.9			
50 -	2.5	60 -		
	2.8			
60 -	2.5	70 -	Drilled To.	
	2.4			
70 -	2.5			
	2.7			
80 -	2.2			
	2.2			
90 -	2.1			
	2.0			
200 -	2.0			
	2.0			
10 -	2.3			
	2.3			
20 -	2.6			
	2.6			
30 -	2.5			
	2.3			
40 -	2.2			
	1.8			
50 -	1.6			
	1.6			

Driller said formation
at 50'300' of 1" vent
200' perforated

1 =	270	—	3.8	—	4.4
2 =	260	—	3.5	—	4.6
3 =	240	—	3.2	—	4.7
4 =	230	—	3.9	—	5.3
5 =	220	—	3.9	—	5.2
6 =	210	—	3.5	—	5.2
7 =	185	—	2.2	—	4.8
8 =	175	—	4.3	—	5.8
9 =	165	—	3.7	—	5.0
10 =	155	—	4.7	—	6.6

22.8 A

11.61 V

.5 R

DAILY DRILLING REPORT

[illegible]

SIGNED: Toolpusher

____ Company Supervisor

1 - 30-045-10688

8- 30-045-22579

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. 15 Twp 31 Rng 10Name of Well/Wells or Pipeline Serviced KELLY A #1, #8cps 442wElevation 6178' Completion Date 11/14/74 Total Depth 460' Land Type* N/ACasing, Sizes, Types & Depths N/AIf Casing is cemented, show amounts & types used N/AIf Cement or Bentonite Plugs have been placed, show depths & amounts used
N/ADepths & thickness of water zones with description of water when possible:
Fresh, Clear, Salty, Sulphur, Etc. 110'Depths gas encountered: N/aType & amount of coke breeze used: N/ADepths anodes placed: 350', 335', 320', 310', 300', 290', 280', 265', 250', 240'Depths vent pipes placed: N/AVent pipe perforations: 333'Remarks: qb #2 FIRST 460' HOLE CAVED-ABANDONED.

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

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

RECEIVED

MAY 31 1991

OIL CON. DIV.

1 - 30-045-10688
8 - 30-045-22759

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. 15 Twp 31 Rng 10

Name of Well/Wells or Pipeline Serviced KELLY A #1, #8

cps 442w

Elevation 6178' Completion Date 7/15/63 Total Depth 160' 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. N/A

Depths gas encountered: N/A

Type & amount of coke breeze used: 1200 lbs.

Depths anodes placed: 150', 144', 138', 132', 126'

Depths vent pipes placed: N/A

Vent pipe perforations: N/A

Remarks: qb #1

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MAY 31 1991
OIL CON. DIV.
DIST. 3

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

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

30-045-10691

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. 16 Twp 31 Rng 10Name of Well/Wells or Pipeline Serviced BROOKHAVEN COM #1

cps 420w

Elevation 6105' Completion Date 11/19/71 Total Depth 260' Land Type* N/ACasing, Sizes, Types & Depths N/AIf Casing is cemented, show amounts & types used N/AIf Cement or Bentonite Plugs have been placed, show depths & amounts used
N/ADepths & thickness of water zones with description of water when possible:
Fresh, Clear, Salty, Sulphur, Etc. N/ADepths gas encountered: 120' - 260'Type & amount of coke breeze used: 7900 lbs.Depths anodes placed: 245', 236', 227', 218', 209', 200', 191', 182', 173', 155'Depths vent pipes placed: 245'Vent pipe perforations: 165'Remarks: qb #2 HOLE MAKING QUITE A BIT OF GAS.

RECEIVED

MAY 31 1991

OIL CON. DIV
DIST.

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

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. 16 Twp 31 Rng 10

Name of Well/Wells or Pipeline Serviced BROOKHAVEN COM #1

cps 420w

Elevation 6105' Completion Date 7/16/63 Total Depth 95' 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. N/A

Depths gas encountered: N/A

Type & amount of coke breeze used: 700 lbs.

Depths anodes placed: 83', 77', 71', 37', 31'

Depths vent pipes placed: N/A

Vent pipe perforations: N/A

Remarks: gb #1

RECEIVED
MAY 31 1991
OIL CON. DIV
DIST. ?

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

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

2 = 30-045-10783
12 = 30-045-21828

4922

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 16 Twp 31 Rng 10Name of Well/Wells or Pipeline Serviced BROOKHAVEN COM A #2.BROOKHAVEN COM J #12 cps 419wElevation 6165' Completion Date 7/17/63 Total Depth 180' Land Type* N/ACasing, Sizes, Types & Depths N/AIf Casing is cemented, show amounts & types used N/AIf Cement or Bentonite Plugs have been placed, show depths & amounts used
N/ADepths & thickness of water zones with description of water when possible:
Fresh, Clear, Salty, Sulphur, Etc. N/ADepths gas encountered: N/AType & amount of coke breeze used: 1400 lbs.Depths anodes placed: 169', 163', 157', 151', 145', 139'Depths vent pipes placed: N/AVent pipe perforations: N/ARemarks: qgb #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.

WELL CASING
CATHODIC PROTECTION CONSTRUCTION REPORT
DAILY LOG

DATE 7-17-63WELL NAME Brook Haven State # 2 CPS NO. 4194LOCATION 16-31N-10WWORK ORDER NUMBER 184-40542-50-02ANODE HOLE DEPTH 180TOTAL DRILLING RIG TIME 19125DRILLING TIME FOR RECTIFIER POLE HOLE 0

TYPE AND SIZE BIT USED

NUMBER SACKS MUD USED 10NUMBER SACKS LOST CIRCULATION MAT'L USED 2ANODE DEPTHS #1 169', #2 163, #3 167, #4 151 5 145 6 139TOTAL LBS. COKE USED 1400 lbs 14500 lbsANODE OUTPUTS 12 VOLTS, #1 2.8, #2 1.8, #3 2.2, #4 2.3 2.3TOTAL CIRCUIT RESISTANCE: VOLTS 11.2 AMPERES 5.5 OHMS 2.03NUMBER FEET SURFACE CABLE CONDUIT 340'

DRILLING LOG (ATTACH HERETO).

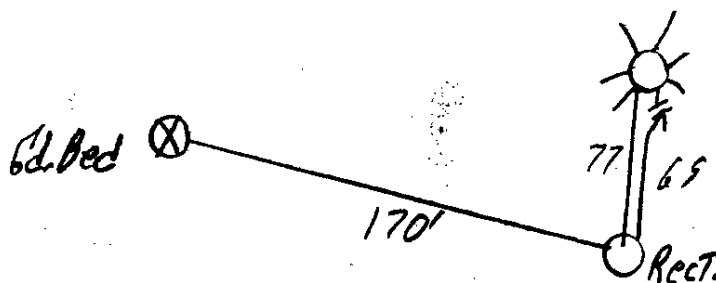
FORMATION LOG (ATTACH HERETO).

REMARKS: Static 95 = 76 R 600 SWInstalled Good-All Rect 40V-12A set # 62C6404Note: No Junction Box InstalledNumerous Junk Bit Used To Drill Through Boulders

ALL CONSTRUCTION COMPLETED

E. Paulk
SIGNATURE

GROUND BED LAYOUT SKETCH



ORIGINAL & 1 COPY
ALL REPORTS

Released to Imaging: 5/20/2025 11:38:16 AM

439

#1-A 30-045-22489

#15 30-045-22137

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. 16 Twp. 31 Rng. 10Name of Well/Wells or Pipeline Serviced BROOKHAVEN COM #1A, #15cps 1212w,Elevation 6110' Completion Date 6/28/78 Total Depth 400' Land Type* N/ACasing, Sizes, Types & Depths N/AIf Casing is cemented, show amounts & types used N/AIf Cement or Bentonite Plugs have been placed, show depths & amounts used
N/ADepths & thickness of water zones with description of water when possible:
Fresh, Clear, Salty, Sulphur, Etc. 120' - 140' & 355' - 360'Depths gas encountered: N/AType & amount of coke breeze used: N/ADepths anodes placed: 355', 340', 330', 320', 310', 300', 290', 280', 270', 260'Depths vent pipes placed: 400'Vent pipe perforations: 300'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.

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If Federal or Indian, add Lease Number.

El Paso Natural Gas Company
Form 7-238 (Rev. 11-71)

WELL CASING
CATHODIC PROTECTION CONSTRUCTION REPORT
DAILY LOG

Drilling Log (Attach Hereto).

CATH #15

Completion Date 6-28-78

Well Name BROOKHAVEN Com #1A		Location NW16-31-10		CPS No. 1212 W	
Type & Size Bit Used 6 3/4"				Work Order No. 57225-21	
Anode Hole Depth 400-395TD	Total Drilling Rig Time	Total Lbs. Coke Used	Lost Circulation Mat'l Used	No. Sacks Mud Used	
Anode Depth					
1 355	2 340	3 330	4 320	5 310	6 300
7 290	8 280	9 270	10 260		
Anode Output (Amps)					
1 3.4	2 3.6	3 3.9	4 4.3	5 3.9	6 3.6
7 3.6	8 3.8	9 4.1	10 4.4		
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 9.0	Amps 10.8	Ohms .83			

Remarks: **STATIC = .88 CABLE TOOLS DRILLED 50' 44' PIP SET 4' GRAVEL & 10' BOULDERS 26 1/2 HRS. DRILLED TO 400' LOGGED TO 395' DAMP AT 80 GOOD WATER AT 120-160' DRILL TO 260' WATER AT 30' NEXT AM. WATER AT 350-360' 300' 1" PERF. VENT 100'-1" PLAIN VENT**

DITCH & 1 WIRE = 282'

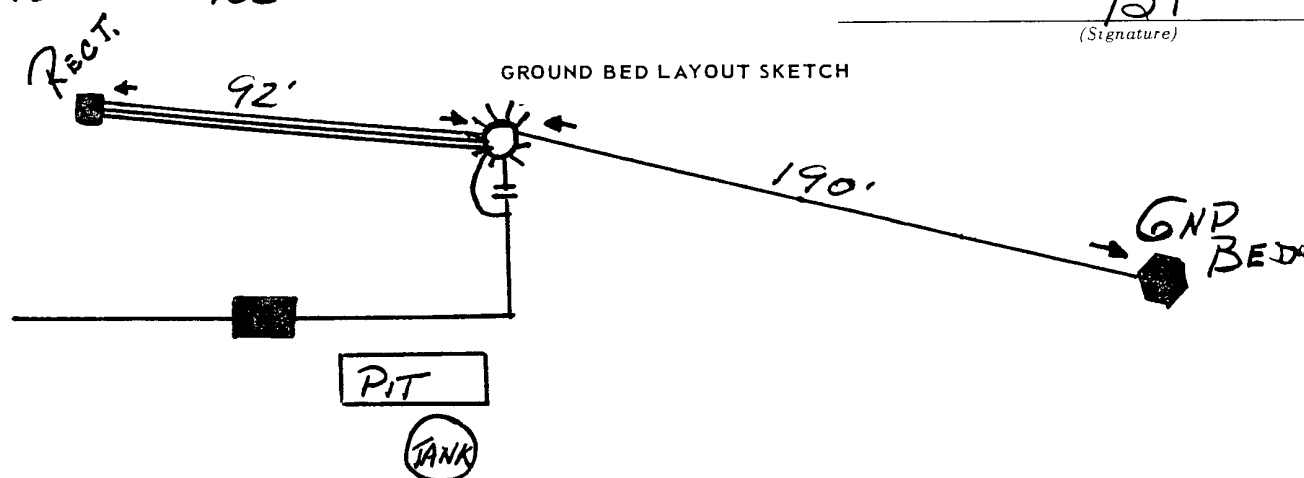
EXTRA WIRE = 184'

40/16T STUD POLE

HOLE = -105'

All Construction Completed

BT
(Signature)



DISTRIBUTION:

- WHITE - Division Corrosion Office
- YELLOW - Area Corrosion Office
- PINK - Originator File

6410

El Paso Natural Gas Company
ENGINEERING CALCULATION

$$STATIC = .88$$

12 12 W

BROOK HAVEN Com #1A

NW 16-31-10

DRILLED TO 400' LOGGED TO 398' ^{2.5 gal/min} HOLE = 1.5"
DAMP AT 80' GOOD WATER SAND 120' TO 160' DRILLED TO
260 WATER STANDING AT 38' NEXT AM. WATER SAND
AT 350' TO 360' MAKING 20-30 GAL MIN. FILLED W/ WATER
TO 150' TO LOG. 300' 1" PERFORATED VENT 100' 1" PLAIN VENT

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 ²	9 64
42.08	C ₃ ²	9 67

MW	MISC 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 ₂ S	5.17
28.01	N ₂	4.16
2.02	H ₂	3.38

100	60	3.2	- (10)
	-	3.0	
10	70	2.8	
		2.8	- (9)
20	80	2.8	
		2.6	- (8)
30	90	2.8	
		2.8	- (7)
40	300	2.6	
		2.5	- (6)
50	10	2.7	
		2.8	- (5)
60	20	3.0	
		3.0	- (4)
70	30	2.8	
		2.8	- (3)
80	40	2.6	
		2.4	- (2)
90	50	2.6	
		2.6	- (1)
200	60	2.6	
		2.2	
10	70	2.0	
		2.0	
20	80	2.1	
		2.8	
30	90	2.6	
		2.6	
40	400		
50			

$$9.0V \ 10.8A = .83 \Omega$$

1 =	355 - 2.6 -	3.4
2 =	340 - 2.8 -	3.6
3 =	330 - 3.2 -	3.9
4 =	320 - 3.3 -	4.3
5 =	310 - 2.8 -	3.9
6 =	300 - 2.8 -	3.6
7 =	290 - 3.0 -	3.6
8 =	280 - 3.0 -	3.8
9 =	270 - 3.0 -	4.1
10 =	260 - 3.5 -	4.4

DAILY DRILLING REPORT

LEASE			WELL NO.			CONTRACTOR			RIG NO.			REPORT NO.			DATE			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.	FROM	TO	FORMATION	WT-BIT	R.P.M.																																								
<div style="position: absolute; top: 0; left: 0; font-size: 2em; transform: rotate(-15deg); opacity: 0.5;"> DRILLED LOGGED ID </div>																																																											
NO. DC					SIZE					LENG.					NO. DC					SIZE					LENG.																																		
BIT NO.					NO. DC					SIZE					LENG.					BIT NO.					NO. DC					SIZE					LENG.																								
SERIAL 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																			
REMARKS -																				REMARKS -																				REMARKS -																			
0 - 45 Cabel Tool																				280 - 355 - Sandy shale																				making water 120 - 140																			
45 - 60 shale																				355 - 360 sand making water																				2 - 3 gal thin																			
60 - 110 sand stone																				360 - 400 sandy shale																				making water 355 - 360																			
110 - 120 shale																																								20 - 30 gal																			
120 - 140 sand wet																																																											
140 - 200 shale																																																											
200 - 240 sandy shale																																																											
240 - 280 shale																																																											

SIGNED: Toolpusher

____ Company Supervisor

History File

SAN JUAN DIVISION LABORATORY

ANALYSIS NO. 1-9230DATE COMPLETED 7-6-78

WELL NAME	LOCATION	DATE SECURED	GAL./ - DAY	PPM T.D.S.	pH	PPM CHLORIDES	PPM SULFATE
	S T R						
Jones A #1A MV	10-28-8	6-20	24	7452	7.0	4320	7840
Jones A #1A PC	10-28-8	6-20	1	39	6.8	13	1000
Lughes #4A	20-29-8	6-20	54	6858	7.2	4830	1280
Lay A #5A	18-29-8	6-20	38	7632	7.1	6320	2500
Lay #1A	17-29-8	6-20	80	6670	7.4	6390	500
Lay A #1A	17-29-8	6-20	106	7527	7.4	7170	1000
Lay #3A	18-29-8	6-20	42	6913	6.7	7170	1000
Lay A #2A	7-29-8	6-20	96	5887	7.6	6320	64
1 Paso #1A	20-29-9	6-17	8	9493	6.8	6745	7080
Lansfield #2A 1241-W	19-30-9	6-19		1019	7.3	24	1520
Luigley #1A 1275W	6-30-9	6-19		430	7.1	20	600
Lorance #2A 1220W	21-30-9	6-19		1373	7.3	16	2520
San Juan #11A 1252W	11-30-10	6-19		636	6.4	24	800
San Ray A #1A 1263W	15-30-10	6-19		210	6.2	8	600
Atlantic D Com #5A 1209W	12-30-10	6-19		1493	6.6	16	3000
Bernaghan #4A 1237W	30-31-8	6-19		432	7.3	12	600
Bernaghan #2A 1235W	28-31-8	6-19		190	7.2	16	680
Bernaghan #1A 1234W	33-31-8	6-19		571	6.9	32	800
Walker 1A 1271W	31-31-9	6-19		1664	7.0	32	3520
Atlantic A #8A 1199W	29-31-10	6-19		2637	7.1	152	5560
Atlantic "C" 4A 1200W	31-31-10	6-19		6720	7.7	504	9800
Cott #4A 1258W	17-31-10	6-19		4506	7.0	186	7760
Brookhaven Com A-1 1212W	16-31-10	6-19		3979	6.7	270	6920

4860

30-045-10657

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 31 Rng 10Name of Well/Wells or Pipeline Serviced HUDSON #5cps 444wElevation 6020' Completion Date 11/11/71 Total Depth 443' Land Type* N/ACasing, Sizes, Types & Depths N/AIf Casing is cemented, show amounts & types used N/AIf Cement or Bentonite Plugs have been placed, show depths & amounts used
N/A

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

Fresh, Clear, Salty, Sulphur, Etc. 170' OVERNIGHT**RECEIVED**
MAY 31 1991Depths gas encountered: N/A**OIL CON. DIV**
DIST. 3Type & amount of coke breeze used: 8400 lbs.Depths anodes placed: 400', 390', 380', 370', 360', 350', 340', 325', 265', 255'Depths vent pipes placed: N/AVent pipe perforations: 112' - 400'Remarks: qb #3 HOSE PLUGGED SEVERAL TIMES. HOLE CLOSED AT APPROX. 275'

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 LOGDrilling Log (Attach Hereto). ☐Completion Date Nov 11, 1971

Well Name HUDSON #5		Location SW 17-31-10		CPS No. 4444	
Type & Size Bit Used 6 3/4"				Work Order No. 52114	
Anode Hole Depth 443	Total Drilling Rig Time	Total Lbs. Coke Used 8400	Lost Circulation Mat'l Used	No. Sacks Mud Used	
Anode Depth					
# 1 400	# 2 390	# 3 380	# 4 370	# 5 360	# 6 350
# 7 340	# 8 325	# 9 265	# 10 255		
Anode Output (Amps)					
# 1 2.8-2.9	# 2 3.1-3.2	# 3 3.2-3.5	# 4 3.2-3.7	# 5 3.3-3.4	# 6 3.4-4.2
# 7 3.1-3.4	# 8 3.0-3.0	# 9 3.0-3.2	# 10 3.0-3.4		
Anode Depth					
# 11	# 12	# 13	# 14	# 15	# 16
# 17	# 18	# 19	# 20		
Anode Output (Amps)					
# 11	# 12	# 13	# 14	# 15	# 16
# 17	# 18	# 19	# 20		
Total Circuit Resistance					
Volts 112.0	Amps 12.8	Ohms 930	No. 8 C.P. Cable Used	No. 2 C.P. Cable Used	

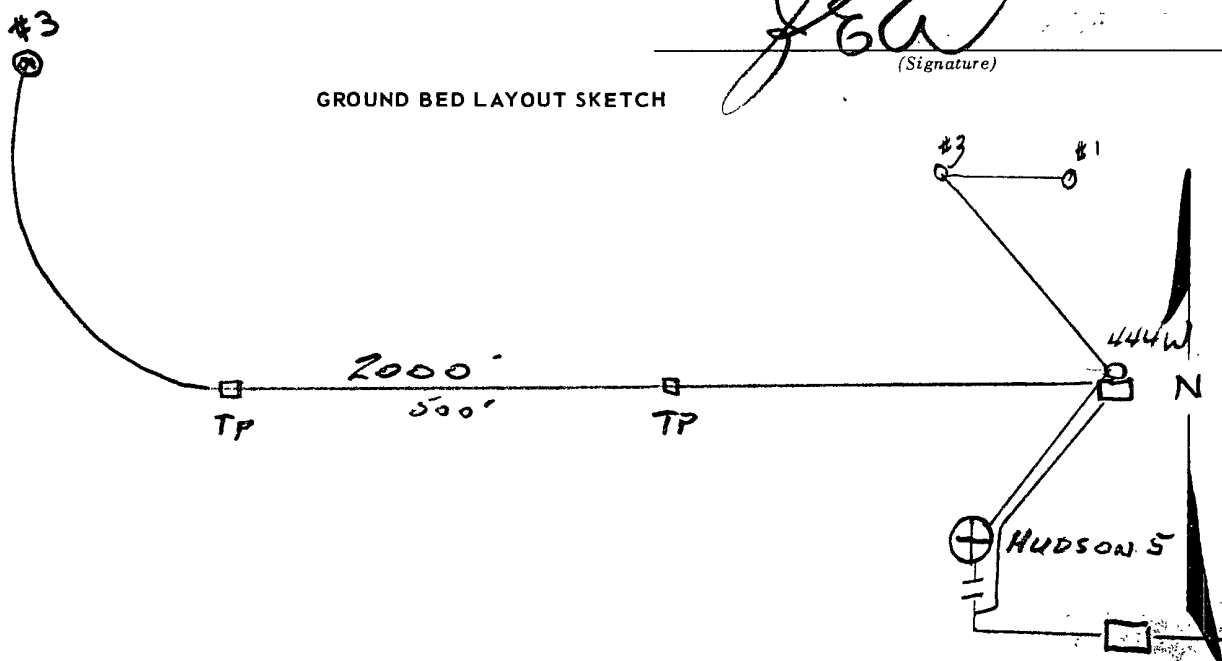
Remarks: WATER level over note - 170'
Perforations 112' - 400'

Hose plugged several times
Hole closed at approx 275'

All Construction Completed

(Signature)

GROUND BED LAYOUT SKETCH



Original & 1 Copy All Reports

444v

SIGNED: Toolpusher _____ Company Supervisor _____

#22 30-045-22070

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. 17 Twp 31 Rng 10Name of Well/Wells or Pipeline Serviced SCOTT #4, #22cps 44lwElevation 6103' Completion Date 11/10/67 Total Depth 260' Land Type* N/ACasing, Sizes, Types & Depths N/AIf Casing is cemented, show amounts & types used N/AIf Cement or Bentonite Plugs have been placed, show depths & amounts used
N/ADepths & thickness of water zones with description of water when possible:
Fresh, Clear, Salty, Sulphur, Etc. 170'

RECEIVED

MAY 31 1991

Depths gas encountered: N/AOIL CON. DIV
DIST. 3Type & amount of coke breeze used: 2640 lbs.Depths anodes placed: 246', 240', 234', 228', 222', 216', 210', 204'Depths vent pipes placed: 246' OF 3/4" HOSEVent pipe perforations: 246'Remarks: qb #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.

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. 17 Twp 31 Rng 10

Name of Well/Wells or Pipeline Serviced SCOTT #4, #22

cps 44lw

Elevation 6103' Completion Date 11/8/67 Total Depth 360' 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. 160'

RECEIVED

MAY 31 1991

Depths gas encountered: N/A

OIL CON. DIV
DIST 2

Type & amount of coke breeze used: 1320 lbs.

Depths anodes placed: 265', 259', 253', 247', 241', 235', 150'

Depths vent pipes placed: 265' OF 3/4" HOSE

Vent pipe perforations: 265'

Remarks: gh #2 HOLE CAVED. COULD NOT GET coke to anodes. #7 ANODE STOPPED AT 150'

WOULD NOT GO UP OR DOWN. ABANDONED HOLE WITH ANODES IN PLACE.

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.

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. 17 Twp 31 Rng 10

Name of Well/Wells or Pipeline Serviced SCOTT #4, #22

cps 44lw

Elevation 6103' Completion Date 7/18/63 Total Depth 195' 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. N/A

Depths gas encountered: N/A

Type & amount of coke breeze used: N/A

Depths anodes placed: 175', 165', 155', 145', 135', 125'

Depths vent pipes placed: N/A

Vent pipe perforations: N/A

Remarks: qb #1 ANODES NOT INSTALLED UNTIL 7/16/65.

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

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

RECEIVED

MAY 31 1991

OIL CON. DIST

5A - 30-045-22490

9 - 30-045-21818

GB #1

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICOOperator Meridian Oil Location: Unit F Sec. 17 Twp 31 Rng 10Name of Well/Wells or Pipeline Serviced Hudson #5A and Scott #9Elevation 5991' Completion Date 11-2-78 Total Depth 450' Land Type FCasing Strings, Sizes, Types & Depths NA 1408001469If Casing Strings are cemented, show amounts & types used NAIf Cement or Bentonite Plugs have been placed, show depths & amounts used
NADepths & thickness of water zones with description of water: Fresh, Clear,
Salty, Sulphur, Etc. 310' No analysis.Depths gas encountered: NAGround bed depth with type & amount of coke breeze used: 450'
45 sacks of metallurgical coke breezeDepths anodes placed: 420', 410', 400', 390', 380', 370', 360', 350', 340', 330'Depths vent pipes placed: TD to 24" above gradeVent pipe perforations: Bottom to 220'

Remarks: _____

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.

4A - 30-045-.22387

8 - 30-045-21819

GB #1

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICOOperator Meridian Oil Location: Unit I Sec. 17 Twp 31 Rng 10Name of Well/Wells or Pipeline Serviced Scott #4A and #8Elevation 6045' Completion Date 6-27-78 Total Depth 385' Land Type FCasing Strings, Sizes, Types & Depths 22' of 8" steel casing 1408001468If Casing Strings are cemented, show amounts & types used NAIf Cement or Bentonite Plugs have been placed, show depths & amounts used
NADepths & thickness of water zones with description of water: Fresh, Clear,
Salty, Sulphur, Etc. 160' - 180'. No analysis.Depths gas encountered: NAGround bed depth with type & amount of coke breeze used: 385' T.D.
metallurgical coke breeze - (No information on amount)Depths anodes placed: 320', 310', 300', 290', 280', 270', 260', 250', 240', 230'Depths vent pipes placed: TD to 24" above gradeVent pipe perforations: No information

Remarks: _____

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.

CAIN 1-A 30-045-21748
CAIN 2 30-045-21830

5216

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

Operator KOCH EXPLORATION COMPANY Location: Unit D Sec. 20 Twp 31 Rng 10

Name of Well/Wells or Pipeline Serviced CAIN-1A & 2

Elevation 6011 Completion Date 8-13-82 Total Depth 320' Land Type 50/50 NM-02814
*F-NM -03187

Casing, Sizes, Types & Depths 7" STEEL @ 55'

If Casing is cemented, show amounts & types used NONE

NONE

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

NONE

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

Fresh, Clear, Salty, Sulphur, Etc. @-100' & 210'-CLEAR, ALKALI

Depths gas encountered: NONE

Type & amount of coke breeze used: METALLURGICAL, 1400#

Depths anodes placed: 300'-290'-280'-270'-255'-245'-230' 220'-200'-190'

Depths vent pipes placed: 310'

Vent pipe perforations: FROM 190' DOWN

Remarks: _____

RECEIVED

MAR 16 1990

OIL CON. DIV

DIST. 2

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

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

CORROSION CONTROL CO.P. O. BOX 179 — PHONE 334-6361
AZTEC, NEW MEXICO 87410Drilling Log (Attach Hereto). ☐Completion Date August 13, 1982

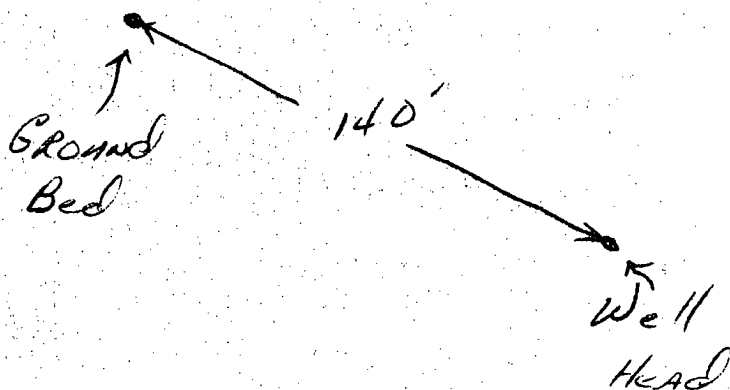
Well Name <u>Cain #1-A+2</u>				Location <u>Koch</u>						
Type & Size Bit Used <u>6 1/4"</u>				Work Order No.						
Anode Hole Depth <u>320'</u>		Total Drilling Rig Time <u>14 hrs</u>		Total Lbs. Coke Used <u>1400 #</u>		Lost Circulation Mat'l Used		No. Sacks Mud Used		
Anode Depth	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10
	<u>300</u>	<u>290</u>	<u>280</u>	<u>270</u>	<u>255</u>	<u>245</u>	<u>230</u>	<u>220</u>	<u>200</u>	<u>190</u>
Anode Output (Amps)	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10
	<u>4.0</u>	<u>4.3</u>	<u>4.1</u>	<u>4.0</u>	<u>3.7</u>	<u>4.0</u>	<u>4.4</u>	<u>4.3</u>	<u>4.6</u>	<u>4.5</u>
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	<u>11.8</u>	Amps	<u>22.2</u>	Ohms	<u>0.53</u>	<u>2680'</u>				

Remarks: Had to set 55' of 7" steel casing due to rocks.
Water at 100' & 210'. Used 320' of 3/4" test pipe.

Power From Lambe-245

All Construction Completed

Cody Munkres
 (Signature)

GROUND BED LAYOUT SKETCH

2 = 30-045-10594
5 = 30-045-21899

5228

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

Operator BCH EXPLORATION COMPANY Location: Unit A Sec. 20 Twp 31 Rng 10

Name of Well/Wells or Pipeline Serviced LAMBE-2 & 5

Elevation 6079' Completion Date 8-6-82 Total Depth 200' Land Type *F-NM-03187

Casing, Sizes, Types & Depths 7" STEEL @-24'

If Casing is cemented, show amounts & types used NONE

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

NONE

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

Fresh, Clear, Salty, Sulphur, Etc. @-65' CLEAR SULPHUR & ALKALI

Depths gas encountered: NONE

Type & amount of coke breeze used: METALURGICAL--1200#

Depths anodes placed: 150'-150'-140'-130'-120'-110'-100'-90'-80'-70'

Depths vent pipes placed: 200'

Vent pipe perforations: FROM 70' DOWN

Remarks:

RECEIVED
MAR 16 1990
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.

CORROSION CONTROL CO.

P. O. BOX 179 - PHONE 334-6361

AZTEC, NEW MEXICO 87410

Drilling Log (Attach Hereto). ☐Completion Date August 6, 1982

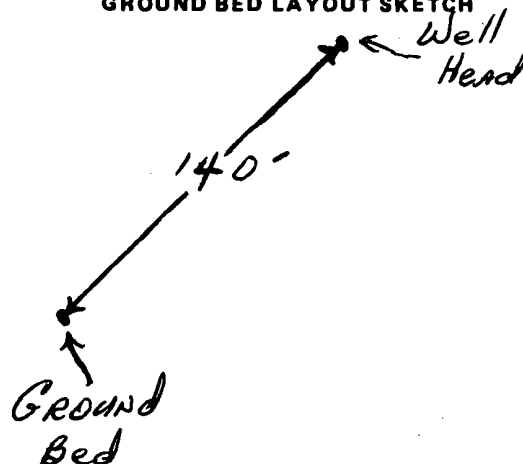
Well Name <u>Lambe #2 + 5</u>				Location <u>Kech</u>					
Type & Size Bit Used <u>6 1/4"</u>								Work Order No.	
Anode Hole Depth <u>200'</u>		Total Drilling Rig Time <u>7 hrs</u>		Total Lbs. Coke Used <u>12.00</u>		Lost Circulation Mat'l Used		No. Sacks Mud Used	
Anode Depth									
#1 <u>160</u>	#2 <u>150</u>	#3 <u>140</u>	#4 <u>130</u>	#5 <u>120</u>	#6 <u>110</u>	#7 <u>100</u>	#8 <u>90</u>	#9 <u>80</u>	#10 <u>70</u>
Anode Output (Amps)									
#1 <u>4.5</u>	#2 <u>4.7</u>	#3 <u>5.2</u>	#4 <u>6.3</u>	#5 <u>6.4</u>	#6 <u>6.1</u>	#7 <u>5.9</u>	#8 <u>5.4</u>	#9 <u>6.3</u>	#10 <u>5.8</u>
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 <u>11.7</u>		Amps <u>27.4</u>		Ohms <u>243</u>		<u>1350'</u>			

Remarks: Had to set 24' of 7" steel casing due to rocks.
Water at 65'. Used 200' of 3/4" vent pipe.

All Construction Completed

Cody Murphy
 (Signature)

GROUND BED LAYOUT SKETCH



LAMBE #2-A 30-045-21694
LAMBE #6 30-045-21900

5227

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

Operator KOCH EXPLORATION COMPANY Location: Unit 0 Sec. 20 Twp 31 Rng 10

Name of Well/Wells or Pipeline Serviced LAMBE-2-A-AND-6

Elevation 6096 Completion Date 8-16-82 Total Depth 260' Land Type *F-NM-03187

Casing, Sizes, Types & Depths 7" STEEL @-75'

If Casing is cemented, show amounts & types used NONE

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

NONE

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

Fresh, Clear, Salty, Sulphur, Etc. @ 80 AND 100' CLEAR-SULPHUR & ALKALI

Depths gas encountered: NONE

Type & amount of coke breeze used: METALURGICAL 1400 #

260'-

Depths anodes placed: 240'-230'-220'-210'-180'-160'-150'-140'-130'-

Depths vent pipes placed: 260'

Vent pipe perforations: FROM 130' DOWN

Remarks: _____

RECEIVED

MAR 6 1990

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.

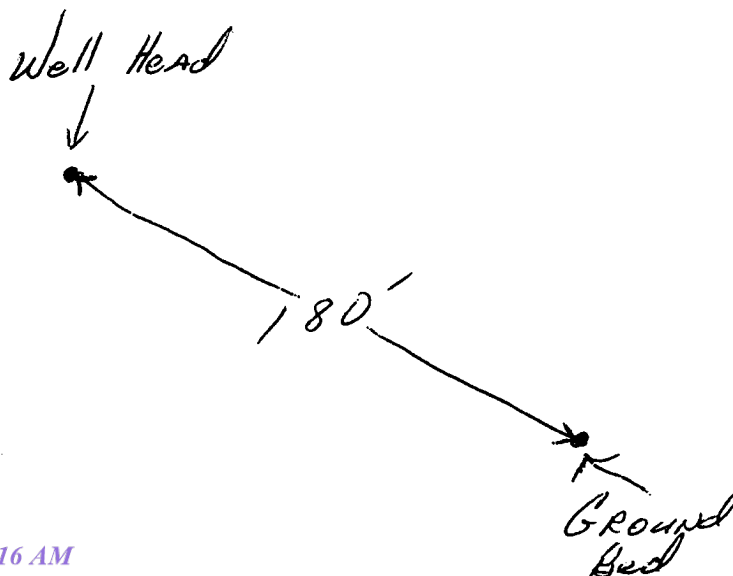
CORROSION CONTROL CO.P. O. BOX 179 — PHONE 334-6361
AZTEC, NEW MEXICO 87410Drilling Log (Attach Hereto). ☐Completion Date August 16, 1982

Well Name <u>Lambe #2-A-6</u>		Location <u>Koch</u>			
Type & Size Bit Used <u>6 1/4"</u>				Work Order No.	
Anode Hole Depth <u>260'</u>	Total Drilling Rig Time <u>12 hrs</u>	Total Lbs. Coke Used <u>1400 #</u>	Lost Circulation Mat'l Used	No. Sacks Mud Used	
Anode Depth					
#1 <u>240</u>	#2 <u>230</u>	#3 <u>220</u>	#4 <u>210</u>	#5 <u>200</u>	#6 <u>180</u>
#7 <u>160</u>	#8 <u>150</u>	#9 <u>140</u>	#10 <u>130</u>		
Anode Output (Amps)					
#1 <u>4.8</u>	#2 <u>5.3</u>	#3 <u>4.6</u>	#4 <u>5.1</u>	#5 <u>4.7</u>	#6 <u>4.8</u>
#7 <u>5.2</u>	#8 <u>5.3</u>	#9 <u>5.1</u>	#10 <u>4.8</u>		
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 <u>11.7</u>	Amps <u>25.6</u>	Ohms <u>46</u>	<u>2060'</u>		

Remarks: Had to set 75' of 7" steel casing due to rocks.
Water at 80' & 100'. Used 260' of 3/4" vent pipe

All Construction Completed

Cody Mumbres
 (Signature)

GROUND BED LAYOUT SKETCH

1 = 30-045-10462
7 = 30-045-21901

5230

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

Operator KOCH EXPLORATION COMPANY Location: Unit M Sec. 21 Twp 31 Rng 10

Name of Well/Wells or Pipeline Serviced LAMBE-1 AND 7

Elevation 6125 Completion Date 8-30-1982 Total Depth 280' Land Type *F-NM-03187

Casing, Sizes, Types & Depths 7" STEEL @-44'

If Casing is cemented, show amounts & types used NONE

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

NONE

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

Fresh, Clear, Salty, Sulphur, Etc. @-145' SULPHUR & Alkali

Depths gas encountered: NONE

Type & amount of coke breeze used: METALLURGICAL--1000 #

Depths anodes placed: 260'-250'-240'-230'-220'-210'-200'-190'-180'-170'

Depths vent pipes placed: 270'

Vent pipe perforations: FROM 170' DOWN

Remarks: _____

RECEIVED

MAY 6 1990

OIL CON. D
OCT. 1

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

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

CORROSION CONTROL CO.P. O. BOX 179 — PHONE 334-6361
AZTEC, NEW MEXICO 87410Drilling Log (Attach Hereto). ☐Completion Date August 30, 1982

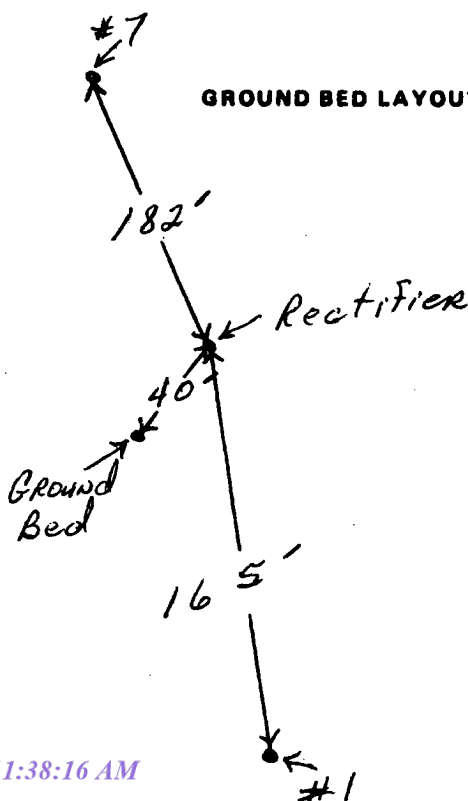
Well Name <u>Lambe #1 #7</u>		Location <u>Koch</u>			
Type & Size Bit Used <u>6 1/4"</u>				Work Order No.	
Anode Hole Depth <u>280'</u>	Total Drilling Rig Time <u>16 hrs</u>	Total Lbs. Coke Used <u>1000 #</u>	Lost Circulation Mat'l Used	No. Sacks Mud Used	
Anode Depth					
#1 <u>260</u>	#2 <u>250</u>	#3 <u>240</u>	#4 <u>230</u>	#5 <u>220</u>	#6 <u>210</u>
#7 <u>200</u>	#8 <u>190</u>	#9 <u>180</u>	#10 <u>170</u>		
Anode Output (Amps)					
#1 <u>3.4</u>	#2 <u>4.0</u>	#3 <u>4.7</u>	#4 <u>4.5</u>	#5 <u>4.8</u>	#6 <u>6.0</u>
#7 <u>5.6</u>	#8 <u>4.3</u>	#9 <u>3.4</u>	#10 <u>3.9</u>		
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	
Volts <u>11.9</u>	Amps <u>23.6</u>	Ohms <u>.50</u>	<u>2350'</u>		No. 2 C.P. Cable Used

Remarks: Had to set 44' of 7" steel casing due to rocks & sand
Used 280' of 3/4" vent pipe. Water was at 145'.

All Construction Completed

Cody M. Anderson
 (Signature)

GROUND BED LAYOUT SKETCH



LAMBE #3 30-045-10609
LAMBE #8 30-045-21953

5226

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

Operator KOCH EXPLORATION COMPANY Location: Unit B Sec. 21 Twp 31 Rng 10

Name of Well/Wells or Pipeline Serviced LAMBE-3& 8

Elevation 6146 Completion Date 8-9-82 Total Depth 360' Land Type F-NM-03187

Casing, Sizes, Types & Depths 7"STEEL @-78'

If Casing is cemented, show amounts & types used NONE

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

Depths & thickness of water zones with description of water when possible:
Fresh, Clear, Salty, Sulphur, Etc. @-180'-SULPHUR & ALKALI

Depths gas encountered: None

Type & amount of coke breeze used: METALLURGICAL--1600#

Depths anodes placed: 330'-320'-310'-300'-290'-280'-250'-240'-230'-220'-

Depths vent pipes placed: 330'

Vent pipe perforations: FROM 200' DOWN

Remarks: _____

RECEIVED

MAR 16 1990

OIL CON. DIV
DIST. 1

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

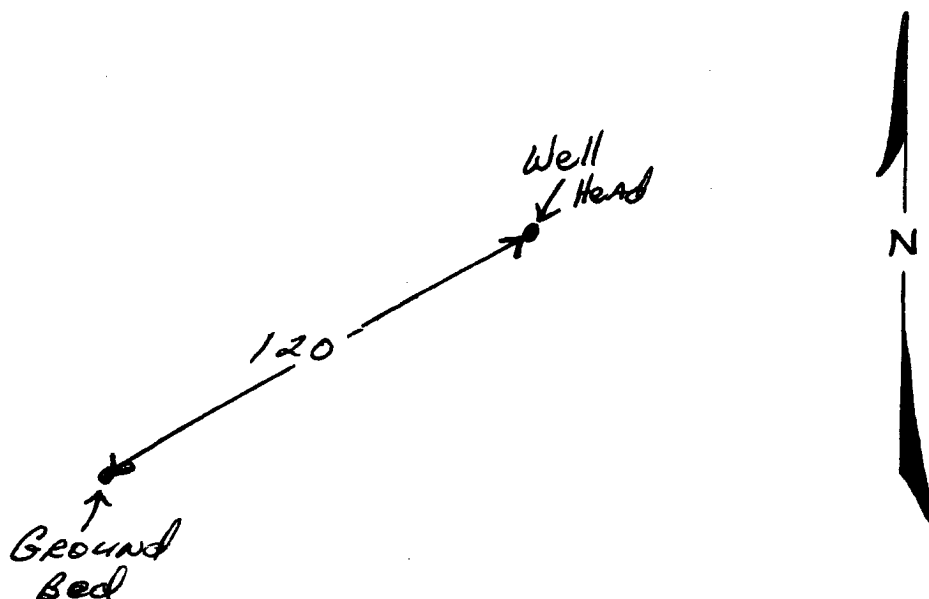
*Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee.
If Federal or Indian, add Lease Number.

CORROSION CONTROL CO.P. O. BOX 179 — PHONE 334-6361
AZTEC, NEW MEXICO 87410Drilling Log (Attach Hereto). ☐Completion Date August 9, 1982

Well Name <u>Lambe #3 + 8</u>			Location <u>Koch</u>							
Type & Size Bit Used <u>6 1/4"</u>						Work Order No.				
Anode Hole Depth <u>360</u>		Total Drilling Rig Time <u>12 hrs</u>		Total Lbs. Coke Used <u>1600 #</u>		Lost Circulation Mat'l Used		No. Sacks Mud Used		
Anode Depth	#1 <u>330</u>	#2 <u>320</u>	#3 <u>310</u>	#4 <u>300</u>	#5 <u>290</u>	#6 <u>280</u>	#7 <u>250</u>	#8 <u>240</u>	#9 <u>230</u>	#10 <u>220</u>
Anode Output (Amps)	#1 <u>5.4</u>	#2 <u>4.8</u>	#3 <u>5.1</u>	#4 <u>5.4</u>	#5 <u>5.9</u>	#6 <u>5.2</u>	#7 <u>5.9</u>	#8 <u>5.8</u>	#9 <u>6.8</u>	#10 <u>6.4</u>
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 <u>11.7</u>		Amps <u>27.4</u>		Ohms <u>0.43</u>		<u>2970'</u>				

Remarks: Had to set 78' of 7" casing due to rocks & gravel.
Water at 180' - used 330' of 3/4" vent pipe.

All Construction Completed

Cody Munchers
 (Signature)
GROUND BED LAYOUT SKETCH

1A = 30-045-21692
4 = 30-045-21898

5229

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

Operator KOCH EXPLORATION COMPANY Location: Unit D Sec. 21 Twp 31 Rng 10

Name of Well/Wells or Pipeline Serviced LAMBE 1-A AND 4

Elevation 6151 Completion Date 8-6-82 Total Depth 320' Land Type* F-NM-03187

Casing, Sizes, Types & Depths 7" STEEL @-87'

If Casing is cemented, show amounts & types used NONE

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

NONE

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

Fresh, Clear, Salty, Sulphur, Etc. @-90' AND 180'-CLEAR SULPHUR & ALKALI

Depths gas encountered: NONE

Type & amount of coke breeze used: METALLURGICAL--1200#

Depths anodes placed: 300'-290'-280'-250'-235'-225'-215'-205'-195'-185'

Depths vent pipes placed: 300'

Vent pipe perforations: FROM 180' DOWN

Remarks: _____

RECEIVED
MAR 16 1990

OIL CON. DIV
EST. 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.

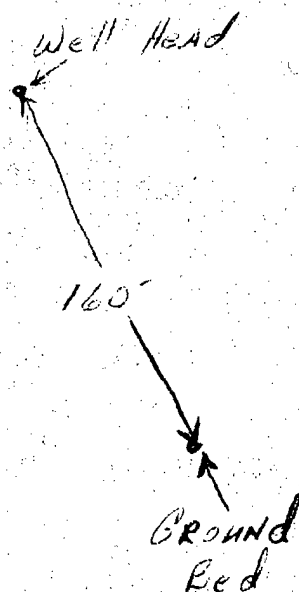
CORROSION CONTROL CO.P. O. BOX 179 — PHONE 334-6361
AZTEC, NEW MEXICO 87410Drilling Log (Attach Hereto). ☐Completion Date 8-6-82

Well Name <u>Lambe #1-A & 4</u>		Location <u>Kech</u>			
Type & Size Bit Used <u>6 1/4"</u>				Work Order No.	
Anode Hole Depth <u>320'</u>	Total Drilling Rig Time <u>10 hrs</u>	Total Lbs. Coke Used <u>1200</u>	Lost Circulation Mat'l Used	No. Sacks Mud Used	
Anode Depth					
#1 <u>300</u>	#2 <u>290</u>	#3 <u>280</u>	#4 <u>250</u>	#5 <u>235</u>	#6 <u>225</u>
#7 <u>215</u>	#8 <u>205</u>	#9 <u>195</u>	#10 <u>185</u>		
Anode Output (Amps)					
#1 <u>4.6</u>	#2 <u>4.5</u>	#3 <u>4.5</u>	#4 <u>5.2</u>	#5 <u>5.5</u>	#6 <u>5.9</u>
#7 <u>6.8</u>	#8 <u>7.1</u>	#9 <u>6.8</u>	#10 <u>5.5</u>		
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 <u>11.7</u>	Amps <u>26.0</u>	Ohms <u>.45</u>		<u>2580'</u>	

Remarks: Set 87' of steel casing due to boulders
& gravel. Water at 90' & 180'. Used 320' of vent
pipe.

All Construction Completed

Cody Munkers
 (Signature)

GROUND BED LAYOUT SKETCH

#6 30-045-10486

#18 30-045-23172

#206 30-045-26992

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

Operator MERIDIAN OIL INC. Location: Unit L Sec. 22 Twp 31 Rng 10Name of Well/Wells or Pipeline Serviced ATLANTIC #6, #18, #206
cps 2075wElevation 6246' Completion Date 7/19/74 Total Depth 460' Land Type* N/ACasing, Sizes, Types & Depths N/AIf Casing is cemented, show amounts & types used N/AIf Cement or Bentonite Plugs have been placed, show depths & amounts used
N/ADepths & thickness of water zones with description of water when possible:
Fresh, Clear, Salty, Sulphur, Etc. 100'Depths gas encountered: N/AType & amount of coke breeze used: 8300 lbs.Depths anodes placed: 410', 400', 390', 380', 370', 360', 350', 260', 225', 215'Depths vent pipes placed: N/AVent pipe perforations: 325'Remarks: (gb #2)

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

Drilling Log (Attach Hereto). ☐

#18 204

Completion Date 7/19/74

Well Name ATLANTIC #6		Location SW 22 - 31N - 10W		CPS No. 440 W 2025	
Type & Size Bit Used 6 3/4"				Work Order No. 184-52320.19-50	
Anode Hole Depth 460'	Total Drilling Rig Time	Total Lbs. Coke Used 8300	Lost Circulation Mat'l Used	No. Sacks Mud Used	
Anode Depth					
# 1 410	# 2 400	# 3 390	# 4 380	# 5 370	# 6 360
# 7 350	# 8 210	# 9 125	# 10 215		
Anode Output (Amps)					
# 1 4.6	# 2 5.0	# 3 5.5	# 4 5.5	# 5 6.0	# 6 4.4
# 7 6.0	# 8 4.5	# 9 4.8	# 10 5.5		
Anode Depth					
# 11	# 12	# 13	# 14	# 15	# 16
# 17	# 18	# 19	# 20		
Anode Output (Amps)					
# 11	# 12	# 13	# 14	# 15	# 16
# 17	# 18	# 19	# 20		
Total Circuit Resistance				No. 8 C.P. Cable Used	No. 2 C.P. Cable Used
Volts 11.5	Amps 20.0	Ohms 0.57		80'	

Remarks: Driller said water @ 100'. water standing @ 140 AFTER 16 HRS. VENT Hose Perforated 325' Pumped one load of water to 200' complet By slurry

\$3409.00
32.40 Cable

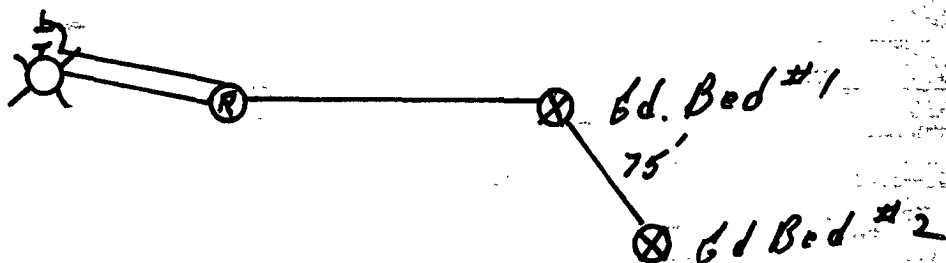
\$3,441.40
-130.00 Depth Credit

\$3,311.40
132.46 TX
\$3,443.86 TOTAL

All Construction Completed...

Edward R. Paulch
(Signature)

GROUND BED LAYOUT SKETCH



6244

GENERAL OFFICE
14991 W. 44TH AVENUE
BAILEY OFFICE
CALL 1-838-4821

Date: _____

By: _____

75

8300

440 W

Y = 5.6

55/442
440
40

MW	gas/mol
16	C ₁ 6.4
20	C ₂ 9.96
24	C ₃ 10.42
28	IC ₄ 12.38
32	HC ₄ 11.33
36	IC ₅ 13.85
40	HC ₅ 13.71
44	IC ₆ 15.50
48	C ₆ 15.57
52	IC ₇ 17.2
56	C ₇ 17.46
60	IC ₈ 19.38
64	C ₈ 19.64
68	C ₉ 19.67

54
0

150	.7		30	1.6			Driller said water @ 150'
	.7			1.6			water standing @ 140'
60	.7		40	1.9			After 16 hrs
	.5			1.6			VENT hose Per Forated 36
70	.6	⑦	50	2.36			
	.6			2.5			
80	.6	⑥	60	2.3			water COKE
	.4			2.3	1	410	3.6 4.6
90	.4	⑤	70	2.4	2	400	3.6 5.0
	.5			2.3	3	390	3.7 5.5
200	.6	④	80	2.2	4	380	3.6 5.5
	1.4			2.3	5	370	3.9 6.0
10	1.7	③	90	2.2	6	360	3.4 4.4
	2.0			2.4	7	350	4.2 6.0
20	2.4	②	400	2.3	8	260	3.2 4.5
	2.1			2.3	9	225	3.2 4.8
30	1.9	①	10	2.3	10	215	3.2 5.5
	1.8			2.2			
40	1.7		20	2.0			11.5V 20.0A 0.57Ω
	1.7			1.8			
50	1.8		30	1.7			
	1.9			1.7			
60	2.1		40	1.6			
	1.7			442 Bottom			
70	1.5		50				
	1.3						
80	1.1						
	1.2						
90	1.1						
	1.3						
300	1.2						
	.8						
10	1.4						
	1.5						
20	1.5						
	1.5						

MW	gas/mol
44	CO ₂ 6.38
36	H ₂ 5.17
28	N ₂ 4.16
2	H ₂ 1.38

30-045-10601

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. 22 Twp 31 Rng 10

Name of Well/Wells or Pipeline Serviced ATLANTIC #5

cps 422w

Elevation 6299' Completion Date 5/19/72 Total Depth 500' Land Type* N/A

Casing, Sizes, Types & Depths N/A

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

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

Depths & thickness of water zones with description of water when possible:
Fresh, Clear, Salty, Sulphur, Etc. 240' SAMPLE TAKEN

Depths gas encountered: N/A

Type & amount of coke breeze used: 8400 lbs.

Depths anodes placed: 470', 460', 430', 420', 410', 340', 325', 315', 305', 290'

Depths vent pipes placed: N/A

Vent pipe perforations: 300'

Remarks: qb #2 VENT HOSE MAKING WATER. HOLE MAKING GAS.

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MAY 31 1991

OIL CON. DIV

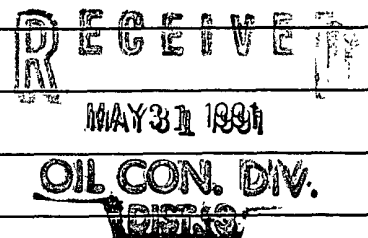
DIST. 3

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

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

30-065-10601

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 22 Twp 31 Rng 10Name of Well/Wells or Pipeline Serviced ATLANTIC #5cps 422wElevation 6299' Completion Date 7/11/63 Total Depth 180' Land Type* N/ACasing, Sizes, Types & Depths N/AIf Casing is cemented, show amounts & types used N/AIf Cement or Bentonite Plugs have been placed, show depths & amounts used
N/ADepths & thickness of water zones with description of water when possible:
Fresh, Clear, Salty, Sulphur, Etc. N/ADepths gas encountered: N/AType & amount of coke breeze used: 1300 lbs.Depths anodes placed: 155', 149', 143', 137', 131'Depths vent pipes placed: N/AVent pipe perforations: N/ARemarks: qb #1

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

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

30-045-22428

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICO
(Submit 3 copies to OCD Aztec Office)Operator MERIDIAN OIL Location: Unit SE Sec 22 Twp 31 Rng 10Name of Well/Wells or Pipeline Serviced ATLANTIC #5A

cps 1197w

Elevation 6314' Completion Date 5/18/78 Total Depth 390' Land Type* N/ACasing, Sizes, Types & Depths N/AIf Casing is cemented, show amounts & types used N/AIf Cement or Bentonite Plugs have been placed, show depths & amounts used
N/ADepths & thickness of water zones with description of water when possible:
Fresh, Clear, Salty, Sulphur, Etc. 72' - 112' & 116' - 138'

SAMPLE TAKEN

Depths gas encountered: N/AType & amount of coke breeze used: N/ADepths anodes placed: 370', 360', 350', 340', 330', 320', 300', 290', 280', 270'Depths vent pipes placed: 380'Vent pipe perforations: 320'Remarks: gb #1**RECEIVED**
MAY 31 1991
OIL CON. DIV. 1
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.

WELL CASING
CATHODIC PROTECTION CONSTRUCTION REPORT
DAILY LOG

Completion Date 5-18-78

Remarks: Static 600' E = 0.82. Drilled to 70' Blew water. Drilled to 225' waited 20 min blew water. Water zones @ 72' to 112'. 116' to 138'. All water zones making 7 bbls per min. Perforated 320' of 1" PVC Vent Pipe Installed 380' of 1" PVC vent pipe

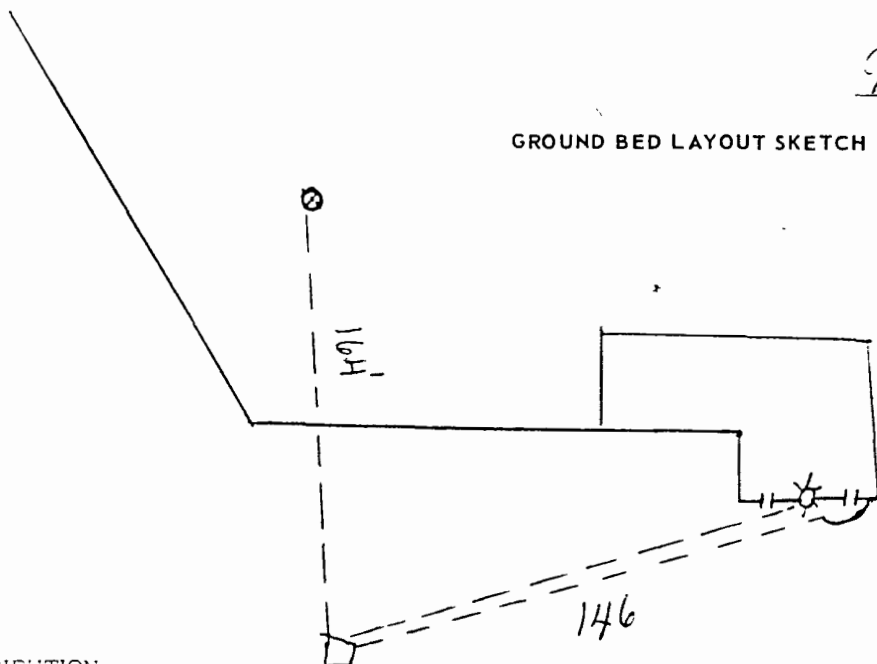
HOV 16A Rectifier	Ditch 51 cable	310
Stub pole	Extra cable =	146
	Hole Depth =	- 120

All Construction Completed

W F Lott

(Signature)

GROUND BED LAYOUT SKETCH



WHITE - Division Corrosion Office
YELLOW - Area Corrosion Office
PINK - Originator File

10314

DAILY DRILLING REPORT

119766
LEASE

WELL NO. 119746 CONTRACTOR

RIG NO. /

REPORT NO. 12 DATE May 18 1978

78

MORNING					DAYLIGHT					EVENING				
Driller					Driller					Driller				
Total Men In Crew					Total Men In Crew					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.
BIT NO.		NO. DC		SIZE	LENG.		BIT NO.		NO. DC	SIZE		LENG.		
SERIAL NO.		NO. DC		SIZE	LENG.		SERIAL NO.		NO. DC	SIZE		LENG.		
SIZE		STANDS		SINGLES		SIZE		STANDS		SINGLES		SIZE		
TYPE		DOWN ON KELLY		TYPE		DOWN ON KELLY		TYPE		DOWN ON KELLY		TYPE		
MAKE		TOTAL DEPTH		MAKE		TOTAL DEPTH		MAKE		TOTAL DEPTH		MAKE		
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		
0	16	Sandstone			72	112	Sandstone clamps 2			225	240	Sandstone		
16	22	Shale			112	116	Shale			240	265	Sandy shale		
22	40	Sandstone			116	138	Sandstone clamps 2			265	274	Shale		
4	42	Shale			138	165	Shale			274	315	Sandstone		
42	67	Sand water 39pm			165	205	Sandstone			315	325	Shale		
67	72	Shale			205	225	Shale			325	340	Sandstone		
REMARKS -					REMARKS -					REMARKS -				
					6 3/4 hole to 390					340 - 390 Shale w/sandstone streaks				
					Logged to 380									
					Total water seepage estimate 79pm									

Sam E. Brown

____ Company Supervisor

Sheet: _____
Date: _____
By: _____
File: _____340
305
400

Atlantic #5A SE22-31-10 1197W 57215-21

Static 600' E = 0.82

Drilled to 70'. Blew water. Drilled
to 225 waited 20 min blew water.
Grid Bed Making. Gals Per min
Perforated 320' 0.5" PVC vent pipe
Installed 380' 0.5" PVC vent pipe

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

HOV 16A Rectifier

Stub Pole

Ditch 1 cable = 310

Extra cable = 146

Hole depth = 120

130	90	1.5 = ⑧
		1.1
40 .7	300	1.5 = ⑨
.9		1.0
50 1.0	10	.5
1.0		.5
60 1.0	20	1.7 = ⑥
.9		2.0
70 .8	30	2.0 = ⑤
.5		2.0
80 .4	40	1.9 = ④
.4		2.6
90 .4	50	2.7 = ③
.3		2.8
200 .4	60	2.8 = ②
.3		2.8
10 .4	70	2.8 = ①
.7		2.6
20 1.0	80	2.6 + ②
1.0		
30 .7	90	
.5		
40 .5		
.6		
50 .7		
.7		
60 .6		
.8		
70 1.5 = ⑩		
1.3		
80 1.2 = ⑨		
1.1		

①	370	2.8	4.0
②	360	2.8	4.1
③	350	2.9	4.1
④	340	2.6	3.7
⑤	330	2.1	3.1
⑥	320	2.1	3.0
⑦	300	1.0	1.6
⑧	290	1.1	1.8
⑨	280	1.1	2.0
⑩	270	1.5	2.5

Volts 12.0

Amps 14.8

Ohms 0.81

MW	MISC.	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 ₂ S	5.17
28.01	N ₂	4.16
2.02	H ₂	3.38

El Paso Natural Gas Company
San Juan Division
Farmington, New Mexico
Production Department Water Analysis

Analysis No. 1-9173 Date 5-31-78

Operator EPNG Well Name Atlantic #5A

Location SE 22-31-10 County San Juan State NM

Field _____ Formation _____

Sampled From CPS 1197 W

Date Sampled _____ by _____

Tubing Pressure _____ Casing Pressure _____ Surface casing pressure _____

	ppm	epm		ppm	epm
Sodium	<u>80.5</u>	<u>3.5</u>	Chloride	<u>18</u>	<u>0.5</u>
Calcium	<u>496</u>	<u>25</u>	Bicarbonate	<u>73</u>	<u>1</u>
Magnesium	<u>34</u>	<u>3</u>	Sulfate	<u>1450</u>	<u>30</u>
Iron	<u>Present</u>		Carbonate	<u>0</u>	<u>0</u>
H ₂ S	<u>Absent</u>		Hydroxide	<u>0</u>	<u>0</u>

Total Dissolved Solids 2494

ph 7.7

cc: D. C. Adams W. B. Shropshire

A. M. Smith

R. A. Ullrich

W. D. Dawson

E. R. Paulek

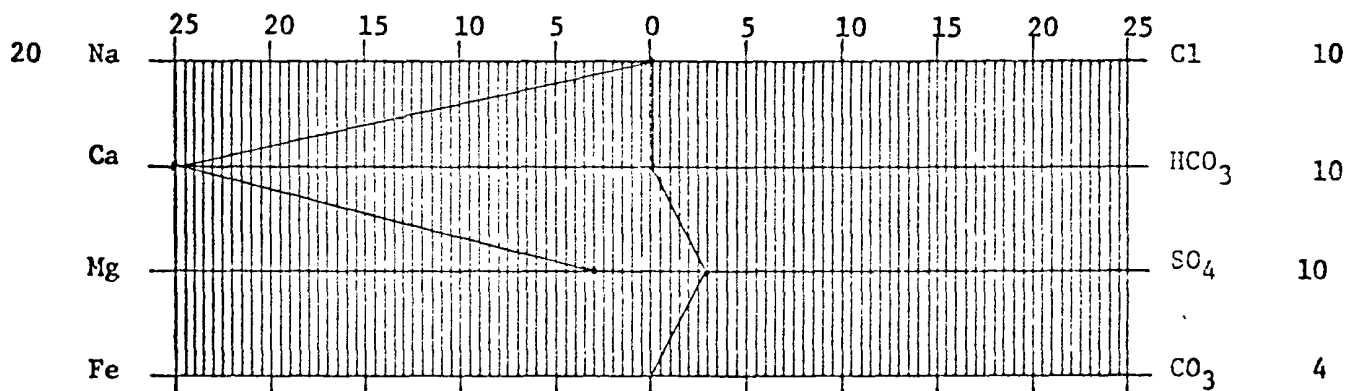
J. W. McCarthy

File

Sp. Gr. 1.0032 at 60°F

Resistivity 380 ohm-cm at 74 °F

Cheryl T. Smith
Chemist



Scale: epm

#9 30-045-22799
#205 30-045-27059

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

Operator MERIDIAN OIL INC. Location: Unit A Sec. 22 Twp 31 Rng 10

Name of Well/Wells or Pipeline Serviced ATLANTIC #9, #205
cps 2076w

Elevation 6311' Completion Date 1/17/89 Total Depth 460' 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. 160' NO SAMPLE

Depths gas encountered: N/A

Type & amount of coke breeze used: N/A

Depths anodes placed: 425', 365', 355', 345', 335', 325', 315', 305', 295', 285'

Depths vent pipes placed: 455'

Vent pipe perforations: 320'

Remarks: gb #1

RECEIVED
MAY 31 1991
OIL CON. 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.



APPENDIX C

Executed C-138 Solid Waste Acceptance Form

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

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

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

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address: Enterprise Field Services, LLC, 614 Reilly Ave, Farmington NM 87401	PayKey: RB21200 PM: Gary Turner AFE: Pending
2. Originating Site: Brookhaven A#2A PC	
3. Location of Material (Street Address, City, State or ULSTR): UL J Section 16 T31N R10W 36.895460, -107.884890	
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 <u>50</u> yd ³ / bbls Known Volume (to be entered by the operator at the end of the haul) <u>1268/35</u> yd ³ / bbls	
5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS I, Thomas Long <i>Thomas Long</i> , 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) <input checked="" type="checkbox"/> RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. <u>Operator Use Only: Waste Acceptance Frequency</u> <input type="checkbox"/> Monthly <input type="checkbox"/> Weekly <input type="checkbox"/> Per Load <input type="checkbox"/> 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) <input type="checkbox"/> MSDS Information <input type="checkbox"/> RCRA Hazardous Waste Analysis <input type="checkbox"/> Process Knowledge <input type="checkbox"/> Other (Provide description in Box 4)	
GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS I, Thomas Long <i>Thomas Long</i> 11-12-2024, representative for Enterprise Products Operating authorizes <u>Envirotech, Inc.</u> to complete Generator Signature the required testing/sign the Generator Waste Testing Certification. I, <u>Greg Crabtree</u> , representative for <u>Envirotech, Inc.</u> 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 and Enterprise 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: 11/12/24

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

TELEPHONE NO.: 505-632-0615



APPENDIX D

Photographic Documentation

SITE PHOTOGRAPHS

Closure Report
Enterprise Field Services, LLC
Brookhaven A #2A PC (11/19/24)
Ensolum Project No. 05A1226353

**Photograph 1**

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

**Photograph 2**

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

**Photograph 3**

Photograph Description: View of final excavation.



SITE PHOTOGRAPHS

Closure Report
Enterprise Field Services, LLC
Brookhaven A #2A PC (11/19/24)
Ensolum Project No. 05A1226353



Photograph 4

Photograph Description: View of the excavation final restoration.



Photograph 5

Photograph Description: View of the excavation final restoration.





APPENDIX E

Regulatory Correspondence

From: OCDOnline@state.nm.us
To: [Long, Thomas](#)
Subject: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 430853
Date: Tuesday, February 11, 2025 1:46:39 PM

[Use caution with links/attachments]

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

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2432426402.

The sampling event is expected to take place:

When: 12/06/2024 @ 12:00

Where: J-16-31N-10W 0 FNL 0 FEL (36.89546,-107.88489)

Additional Information: Ensolum, LLC

Additional Instructions: 36.89546,-107.88489

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

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

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

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

From: OCDOnline@state.nm.us
To: [Long, Thomas](#)
Subject: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 419746
Date: Monday, January 13, 2025 7:21:07 AM

[Use caution with links/attachments]

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

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2432426402.

The sampling event is expected to take place:

When: 01/15/2025 @ 10:00

Where: J-16-31N-10W 0 FNL 0 FEL (36.89546,-107.88489)

Additional Information: Ensolum, LLC

Additional Instructions: This is a backfill sampling event.

36.89546,-107.88489

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

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

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

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

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>

Sent: Tuesday, February 18, 2025 9:05 AM

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

Subject: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 432961

[Use caution with links/attachments]

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

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2432426402.

The sampling event is expected to take place:

When: 02/20/2025 @ 12:00

Where: J-16-31N-10W 0 FNL 0 FEL (36.89546,-107.88489)

Additional Information: Ensolum, LLC

Additional Instructions: 36.89546,-107.88489

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

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

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

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

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



APPENDIX F

Table 1 – Soil Analytical Summary

TABLE 1
Brookhaven A #2A PC (11/19/24)
SOIL ANALYTICAL SUMMARY

Sample I.D.	Date	Sample Type C- Composite G - Grab	Sample Depth (feet)	Benzene (mg/kg)	Ethylbenzene (mg/kg)	Toluene (mg/kg)	Xylenes (mg/kg)	Total BTEX ¹ (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total Combined TPH (GRO/DRO/MRO) ¹ (mg/kg)	Chloride (mg/kg)
New Mexico Energy, Mineral & Natural Resources Department Oil Conservation Division Closure Criteria (Tier I)				10	NE	NE	NE	50	NE	NE	NE	100	600
Excavation Composite Soil Samples													
S-1	12.06.24	C	20 to 24	<0.019	<0.038	<0.038	<0.077	ND	<3.8	<9.6	<48	ND	<60
S-2	12.06.24	C	20 to 24	<0.019	<0.037	<0.037	<0.075	ND	<3.7	<9.9	<50	ND	<60
S-3	12.06.24	C	14 to 24	<0.017	0.11	<0.035	0.46	0.57	37	<9.6	<48	37	<60
S-4	12.06.24	C	7 to 14	<0.017	<0.034	<0.034	<0.068	ND	<3.4	<10	<50	ND	<60
S-5	12.06.24	C	7 to 14	<0.016	<0.033	<0.033	<0.065	ND	<3.3	<9.4	<47	ND	<60
S-6	12.06.24	C	0 to 20	<0.017	<0.035	<0.035	<0.070	ND	<3.5	<9.8	<49	ND	<60
S-7	12.06.24	C	0 to 20	<0.017	<0.034	<0.034	<0.069	ND	<3.4	11	49	60	<60
S-8	12.06.24	C	0 to 20	<0.019	<0.038	<0.038	<0.076	ND	<3.8	<9.5	<47	ND	<60
S-9	12.06.24	C	0 to 24	<0.022	<0.045	<0.045	<0.090	ND	<4.5	<9.5	<48	ND	<60
S-10	12.06.24	C	0 to 24	<0.016	<0.033	<0.033	<0.066	ND	<3.3	<9.7	<49	ND	<60
S-11	12.06.24	C	0 to 24	<0.017	<0.033	0.036	0.067	0.10	<3.3	<9.6	<48	ND	<60
S-12	12.06.24	C	7 to 24	<0.019	<0.037	<0.037	<0.074	ND	<3.7	<9.3	<47	ND	<60
S-13	12.06.24	C	7 to 24	<0.020	<0.040	<0.040	<0.079	ND	<4.0	<9.9	<50	ND	<60
S-14	02.20.25	C	0 to 7	<0.025	<0.049	<0.049	<0.098	ND	<4.9	<9.8	<49	ND	<60
S-15	02.20.25	C	0 to 7	<0.024	<0.049	<0.049	<0.097	ND	<4.9	<9.6	<48	ND	<60
S-16	02.20.25	C	0 to 7	<0.024	<0.047	<0.047	<0.094	ND	<4.7	<9.3	<46	ND	<60
Backfill Composite Soil Sample													
BF-1	01.15.25	C	BF	<0.023	<0.047	<0.047	<0.093	ND	<4.7	9.7	<46	9.7	<60

Note: Concentrations in **bold** and yellow exceed the applicable NM EMNRD Closure Criteria

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

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

NE = Not established

mg/kg = milligrams per kilogram

BTEX = Benzene, Toluene, Ethylbenzene, and Xylenes

TPH = Total Petroleum Hydrocarbons

GRO = Gasoline Range Organics

DRO = Diesel Range Organics

MRO = Motor Oil/Lube Oil Range Organics

BF = Backfilled sample



APPENDIX G

Laboratory Data Sheets & Chain of Custody Documentation



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Kyle Summers
Ensolum
606 S Rio Grande
Suite A
Aztec, New Mexico 87410

Generated 2/11/2025 2:21:26 PM Revision 1

JOB DESCRIPTION

Brookhaven A #2A PC

JOB NUMBER

885-16521-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization



Authorized for release by
Catherine Upton, Project Manager
Catherine.upton@et.eurofinsus.com
Designee for
John Caldwell, Project Manager
john.caldwell@et.eurofinsus.com
(505)345-3975

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2/11/2025 2:21:26 PM
Revision 1

Client: Ensolum
Project/Site: Brookhaven A #2A PC

Laboratory Job ID: 885-16521-1

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Definitions/Glossary

Client: Ensolum
Project/Site: Brookhaven A #2A PC

Job ID: 885-16521-1

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ensolum
Project: Brookhaven A #2A PC

Job ID: 885-16521-1

Job ID: 885-16521-1

Eurofins Albuquerque

**Job Narrative
885-16521-1**

REVISION

The report being provided is a revision of the original report sent on 12/16/2024. The report (revision 1) is being revised due to a change in the Project Name on the COC..

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 12/7/2024 4:15 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.0°C.

Receipt Exceptions

The Chain-of-Custody (COC) was incomplete as received and/or improperly completed. The Project Name should be Brookhaven A #2A PC.

Gasoline Range Organics

Method 8015D_GRO: Surrogate recovery for the following sample was outside control limits: S-3 (885-16521-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Albuquerque

Client Sample Results

Client: Ensolum
Project/Site: Brookhaven A #2A PC

Job ID: 885-16521-1

Client Sample ID: S-1

Lab Sample ID: 885-16521-1

Date Collected: 12/06/24 12:00

Matrix: Solid

Date Received: 12/07/24 16:15

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		3.8	mg/Kg		12/09/24 09:05	12/09/24 11:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		35 - 166			12/09/24 09:05	12/09/24 11:54	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.019	mg/Kg		12/09/24 09:05	12/09/24 11:54	1
Ethylbenzene	ND		0.038	mg/Kg		12/09/24 09:05	12/09/24 11:54	1
Toluene	ND		0.038	mg/Kg		12/09/24 09:05	12/09/24 11:54	1
Xylenes, Total	ND		0.077	mg/Kg		12/09/24 09:05	12/09/24 11:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		48 - 145			12/09/24 09:05	12/09/24 11:54	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6	mg/Kg		12/09/24 09:08	12/09/24 10:33	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		12/09/24 09:08	12/09/24 10:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	102		62 - 134			12/09/24 09:08	12/09/24 10:33	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		12/09/24 07:43	12/09/24 10:46	20

Eurofins Albuquerque

Client Sample Results

Client: Ensolum
Project/Site: Brookhaven A #2A PC

Job ID: 885-16521-1

Client Sample ID: S-2

Lab Sample ID: 885-16521-2

Date Collected: 12/06/24 12:05

Matrix: Solid

Date Received: 12/07/24 16:15

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		3.7	mg/Kg		12/09/24 09:05	12/09/24 12:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		35 - 166	12/09/24 09:05	12/09/24 12:16	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.019	mg/Kg		12/09/24 09:05	12/09/24 12:16	1
Ethylbenzene	ND		0.037	mg/Kg		12/09/24 09:05	12/09/24 12:16	1
Toluene	ND		0.037	mg/Kg		12/09/24 09:05	12/09/24 12:16	1
Xylenes, Total	ND		0.075	mg/Kg		12/09/24 09:05	12/09/24 12:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		48 - 145	12/09/24 09:05	12/09/24 12:16	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9	mg/Kg		12/09/24 09:08	12/09/24 10:44	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		12/09/24 09:08	12/09/24 10:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	93		62 - 134	12/09/24 09:08	12/09/24 10:44	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		12/09/24 07:43	12/09/24 10:56	20

Eurofins Albuquerque

Client Sample Results

Client: Ensolum
Project/Site: Brookhaven A #2A PC

Job ID: 885-16521-1

Client Sample ID: S-3

Lab Sample ID: 885-16521-3

Date Collected: 12/06/24 12:10

Matrix: Solid

Date Received: 12/07/24 16:15

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	37		3.5	mg/Kg		12/09/24 09:05	12/09/24 12:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	198	S1+	35 - 166			12/09/24 09:05	12/09/24 12:38	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.017	mg/Kg		12/09/24 09:05	12/09/24 12:38	1
Ethylbenzene	0.11		0.035	mg/Kg		12/09/24 09:05	12/09/24 12:38	1
Toluene	ND		0.035	mg/Kg		12/09/24 09:05	12/09/24 12:38	1
Xylenes, Total	0.46		0.069	mg/Kg		12/09/24 09:05	12/09/24 12:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		48 - 145			12/09/24 09:05	12/09/24 12:38	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6	mg/Kg		12/09/24 09:08	12/09/24 10:54	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		12/09/24 09:08	12/09/24 10:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	95		62 - 134			12/09/24 09:08	12/09/24 10:54	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		12/09/24 07:43	12/09/24 11:06	20

Eurofins Albuquerque

Client Sample Results

Client: Ensolum
Project/Site: Brookhaven A #2A PC

Job ID: 885-16521-1

Client Sample ID: S-4

Lab Sample ID: 885-16521-4

Date Collected: 12/06/24 12:15

Matrix: Solid

Date Received: 12/07/24 16:15

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		3.4	mg/Kg		12/09/24 09:05	12/09/24 13:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		35 - 166			12/09/24 09:05	12/09/24 13:00	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.017	mg/Kg		12/09/24 09:05	12/09/24 13:00	1
Ethylbenzene	ND		0.034	mg/Kg		12/09/24 09:05	12/09/24 13:00	1
Toluene	ND		0.034	mg/Kg		12/09/24 09:05	12/09/24 13:00	1
Xylenes, Total	ND		0.068	mg/Kg		12/09/24 09:05	12/09/24 13:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		48 - 145			12/09/24 09:05	12/09/24 13:00	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		12/09/24 09:08	12/09/24 11:05	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		12/09/24 09:08	12/09/24 11:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	91		62 - 134			12/09/24 09:08	12/09/24 11:05	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		12/09/24 07:43	12/09/24 11:17	20

Eurofins Albuquerque

Client Sample Results

Client: Ensolum
Project/Site: Brookhaven A #2A PC

Job ID: 885-16521-1

Client Sample ID: S-5

Lab Sample ID: 885-16521-5

Date Collected: 12/06/24 12:20

Matrix: Solid

Date Received: 12/07/24 16:15

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		3.3	mg/Kg		12/09/24 09:05	12/09/24 13:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		35 - 166	12/09/24 09:05	12/09/24 13:21	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.016	mg/Kg		12/09/24 09:05	12/09/24 13:21	1
Ethylbenzene	ND		0.033	mg/Kg		12/09/24 09:05	12/09/24 13:21	1
Toluene	ND		0.033	mg/Kg		12/09/24 09:05	12/09/24 13:21	1
Xylenes, Total	ND		0.065	mg/Kg		12/09/24 09:05	12/09/24 13:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		48 - 145	12/09/24 09:05	12/09/24 13:21	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4	mg/Kg		12/09/24 09:08	12/09/24 11:16	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		12/09/24 09:08	12/09/24 11:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	93		62 - 134	12/09/24 09:08	12/09/24 11:16	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		12/09/24 07:43	12/09/24 11:27	20

Eurofins Albuquerque

Client Sample Results

Client: Ensolum
Project/Site: Brookhaven A #2A PC

Job ID: 885-16521-1

Client Sample ID: S-6

Lab Sample ID: 885-16521-6

Date Collected: 12/06/24 12:25

Matrix: Solid

Date Received: 12/07/24 16:15

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		3.5	mg/Kg		12/09/24 09:05	12/09/24 13:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		35 - 166			12/09/24 09:05	12/09/24 13:43	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.017	mg/Kg		12/09/24 09:05	12/09/24 13:43	1
Ethylbenzene	ND		0.035	mg/Kg		12/09/24 09:05	12/09/24 13:43	1
Toluene	ND		0.035	mg/Kg		12/09/24 09:05	12/09/24 13:43	1
Xylenes, Total	ND		0.070	mg/Kg		12/09/24 09:05	12/09/24 13:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		48 - 145			12/09/24 09:05	12/09/24 13:43	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8	mg/Kg		12/09/24 09:08	12/09/24 11:26	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		12/09/24 09:08	12/09/24 11:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	99		62 - 134			12/09/24 09:08	12/09/24 11:26	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		12/09/24 07:43	12/09/24 11:37	20

Eurofins Albuquerque

Client Sample Results

Client: Ensolum
Project/Site: Brookhaven A #2A PC

Job ID: 885-16521-1

Client Sample ID: S-7

Lab Sample ID: 885-16521-7

Date Collected: 12/06/24 12:30

Matrix: Solid

Date Received: 12/07/24 16:15

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		3.4	mg/Kg		12/09/24 09:05	12/09/24 14:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		35 - 166			12/09/24 09:05	12/09/24 14:05	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.017	mg/Kg		12/09/24 09:05	12/09/24 14:05	1
Ethylbenzene	ND		0.034	mg/Kg		12/09/24 09:05	12/09/24 14:05	1
Toluene	ND		0.034	mg/Kg		12/09/24 09:05	12/09/24 14:05	1
Xylenes, Total	ND		0.069	mg/Kg		12/09/24 09:05	12/09/24 14:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		48 - 145			12/09/24 09:05	12/09/24 14:05	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	11		9.1	mg/Kg		12/09/24 09:08	12/09/24 10:12	1
Motor Oil Range Organics [C28-C40]	49		46	mg/Kg		12/09/24 09:08	12/09/24 10:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	90		62 - 134			12/09/24 09:08	12/09/24 10:12	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		12/09/24 07:43	12/09/24 11:48	20

Eurofins Albuquerque

Client Sample Results

Client: Ensolum
Project/Site: Brookhaven A #2A PC

Job ID: 885-16521-1

Client Sample ID: S-8

Lab Sample ID: 885-16521-8

Date Collected: 12/06/24 12:35

Matrix: Solid

Date Received: 12/07/24 16:15

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		3.8	mg/Kg		12/09/24 13:41	12/09/24 14:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		35 - 166	12/09/24 13:41	12/09/24 14:27	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.019	mg/Kg		12/09/24 13:41	12/09/24 14:27	1
Ethylbenzene	ND		0.038	mg/Kg		12/09/24 13:41	12/09/24 14:27	1
Toluene	ND		0.038	mg/Kg		12/09/24 13:41	12/09/24 14:27	1
Xylenes, Total	ND		0.076	mg/Kg		12/09/24 13:41	12/09/24 14:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		48 - 145	12/09/24 13:41	12/09/24 14:27	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5	mg/Kg		12/09/24 09:08	12/09/24 10:24	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		12/09/24 09:08	12/09/24 10:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	100		62 - 134	12/09/24 09:08	12/09/24 10:24	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		12/09/24 07:43	12/09/24 11:58	20

Eurofins Albuquerque

Client Sample Results

Client: Ensolum
Project/Site: Brookhaven A #2A PC

Job ID: 885-16521-1

Client Sample ID: S-9

Lab Sample ID: 885-16521-9

Date Collected: 12/06/24 12:40

Matrix: Solid

Date Received: 12/07/24 16:15

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.5	mg/Kg		12/09/24 13:41	12/09/24 14:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		35 - 166			12/09/24 13:41	12/09/24 14:48	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.022	mg/Kg		12/09/24 13:41	12/09/24 14:48	1
Ethylbenzene	ND		0.045	mg/Kg		12/09/24 13:41	12/09/24 14:48	1
Toluene	ND		0.045	mg/Kg		12/09/24 13:41	12/09/24 14:48	1
Xylenes, Total	ND		0.090	mg/Kg		12/09/24 13:41	12/09/24 14:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		48 - 145			12/09/24 13:41	12/09/24 14:48	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5	mg/Kg		12/09/24 09:08	12/09/24 10:35	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		12/09/24 09:08	12/09/24 10:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	102		62 - 134			12/09/24 09:08	12/09/24 10:35	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		12/09/24 07:43	12/09/24 12:09	20

Eurofins Albuquerque

Client Sample Results

Client: Ensolum
Project/Site: Brookhaven A #2A PC

Job ID: 885-16521-1

Client Sample ID: S-10

Lab Sample ID: 885-16521-10

Date Collected: 12/06/24 12:45

Matrix: Solid

Date Received: 12/07/24 16:15

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		3.3	mg/Kg		12/09/24 13:41	12/09/24 15:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		35 - 166			12/09/24 13:41	12/09/24 15:10	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.016	mg/Kg		12/09/24 13:41	12/09/24 15:10	1
Ethylbenzene	ND		0.033	mg/Kg		12/09/24 13:41	12/09/24 15:10	1
Toluene	ND		0.033	mg/Kg		12/09/24 13:41	12/09/24 15:10	1
Xylenes, Total	ND		0.066	mg/Kg		12/09/24 13:41	12/09/24 15:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		48 - 145			12/09/24 13:41	12/09/24 15:10	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7	mg/Kg		12/09/24 09:08	12/09/24 10:48	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		12/09/24 09:08	12/09/24 10:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	103		62 - 134			12/09/24 09:08	12/09/24 10:48	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		12/09/24 07:43	12/09/24 12:19	20

Eurofins Albuquerque

Client Sample Results

Client: Ensolum
Project/Site: Brookhaven A #2A PC

Job ID: 885-16521-1

Client Sample ID: S-11

Lab Sample ID: 885-16521-11

Date Collected: 12/06/24 12:50

Matrix: Solid

Date Received: 12/07/24 16:15

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		3.3	mg/Kg		12/09/24 13:41	12/09/24 15:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		35 - 166	12/09/24 13:41	12/09/24 15:54	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.017	mg/Kg		12/09/24 13:41	12/09/24 15:54	1
Ethylbenzene	ND		0.033	mg/Kg		12/09/24 13:41	12/09/24 15:54	1
Toluene	0.036		0.033	mg/Kg		12/09/24 13:41	12/09/24 15:54	1
Xylenes, Total	0.067		0.066	mg/Kg		12/09/24 13:41	12/09/24 15:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		48 - 145	12/09/24 13:41	12/09/24 15:54	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6	mg/Kg		12/09/24 09:08	12/09/24 11:00	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		12/09/24 09:08	12/09/24 11:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	108		62 - 134	12/09/24 09:08	12/09/24 11:00	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		12/09/24 07:43	12/09/24 12:50	20

Eurofins Albuquerque

Client Sample Results

Client: Ensolum
Project/Site: Brookhaven A #2A PC

Job ID: 885-16521-1

Client Sample ID: S-12

Lab Sample ID: 885-16521-12

Date Collected: 12/06/24 12:55

Matrix: Solid

Date Received: 12/07/24 16:15

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		3.7	mg/Kg		12/09/24 13:41	12/09/24 16:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		35 - 166			12/09/24 13:41	12/09/24 16:16	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.019	mg/Kg		12/09/24 13:41	12/09/24 16:16	1
Ethylbenzene	ND		0.037	mg/Kg		12/09/24 13:41	12/09/24 16:16	1
Toluene	ND		0.037	mg/Kg		12/09/24 13:41	12/09/24 16:16	1
Xylenes, Total	ND		0.074	mg/Kg		12/09/24 13:41	12/09/24 16:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		48 - 145			12/09/24 13:41	12/09/24 16:16	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3	mg/Kg		12/09/24 09:08	12/09/24 11:12	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		12/09/24 09:08	12/09/24 11:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	92		62 - 134			12/09/24 09:08	12/09/24 11:12	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		12/09/24 07:43	12/09/24 13:00	20

Eurofins Albuquerque

Client Sample Results

Client: Ensolum
Project/Site: Brookhaven A #2A PC

Job ID: 885-16521-1

Client Sample ID: S-13

Lab Sample ID: 885-16521-13

Date Collected: 12/06/24 13:00

Matrix: Solid

Date Received: 12/07/24 16:15

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.0	mg/Kg		12/09/24 13:41	12/09/24 16:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		35 - 166			12/09/24 13:41	12/09/24 16:38	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.020	mg/Kg		12/09/24 13:41	12/09/24 16:38	1
Ethylbenzene	ND		0.040	mg/Kg		12/09/24 13:41	12/09/24 16:38	1
Toluene	ND		0.040	mg/Kg		12/09/24 13:41	12/09/24 16:38	1
Xylenes, Total	ND		0.079	mg/Kg		12/09/24 13:41	12/09/24 16:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		48 - 145			12/09/24 13:41	12/09/24 16:38	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9	mg/Kg		12/09/24 09:08	12/09/24 11:24	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		12/09/24 09:08	12/09/24 11:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	84		62 - 134			12/09/24 09:08	12/09/24 11:24	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		12/09/24 07:43	12/09/24 13:11	20

Eurofins Albuquerque

QC Sample Results

Client: Ensolum
Project/Site: Brookhaven A #2A PC

Job ID: 885-16521-1

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-17271/1-A

Matrix: Solid

Analysis Batch: 17275

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 17271

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		12/09/24 09:05	12/09/24 11:32	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		35 - 166			12/09/24 09:05	12/09/24 11:32	1

Lab Sample ID: LCS 885-17271/2-A

Matrix: Solid

Analysis Batch: 17275

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 17271

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics [C6 - C10]	25.0	22.0		mg/Kg		88	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	197		35 - 166				

Lab Sample ID: 885-16521-1 MS

Matrix: Solid

Analysis Batch: 17275

Client Sample ID: S-1

Prep Type: Total/NA

Prep Batch: 17271

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics [C6 - C10]	ND		19.2	17.5		mg/Kg		91	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	192		35 - 166						

Lab Sample ID: 885-16521-1 MSD

Matrix: Solid

Analysis Batch: 17275

Client Sample ID: S-1

Prep Type: Total/NA

Prep Batch: 17271

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]	ND		19.2	17.9		mg/Kg		94	70 - 130	2	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	187		35 - 166								

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-17271/1-A

Matrix: Solid

Analysis Batch: 17276

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 17271

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		12/09/24 09:05	12/09/24 11:32	1
Ethylbenzene	ND		0.050	mg/Kg		12/09/24 09:05	12/09/24 11:32	1
Toluene	ND		0.050	mg/Kg		12/09/24 09:05	12/09/24 11:32	1

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QC Sample Results

Client: Ensolum
Project/Site: Brookhaven A #2A PC

Job ID: 885-16521-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 885-17271/1-A

Matrix: Solid

Analysis Batch: 17276

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 17271

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		0.10	mg/Kg		12/09/24 09:05	12/09/24 11:32	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		48 - 145			12/09/24 09:05	12/09/24 11:32	1

Lab Sample ID: LCS 885-17271/3-A

Matrix: Solid

Analysis Batch: 17276

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 17271

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	1.00	0.898		mg/Kg		90	70 - 130
Ethylbenzene	1.00	0.936		mg/Kg		94	70 - 130
Toluene	1.00	0.928		mg/Kg		93	70 - 130
Xylenes, Total	3.00	2.82		mg/Kg		94	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	104		48 - 145				

Lab Sample ID: 885-16521-2 MS

Matrix: Solid

Analysis Batch: 17276

Client Sample ID: S-2

Prep Type: Total/NA

Prep Batch: 17271

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	ND		0.749	0.681		mg/Kg		91	70 - 130
Ethylbenzene	ND		0.749	0.714		mg/Kg		95	70 - 130
Toluene	ND		0.749	0.698		mg/Kg		93	70 - 130
Xylenes, Total	ND		2.25	2.14		mg/Kg		94	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	97		48 - 145						

Lab Sample ID: 885-16521-2 MSD

Matrix: Solid

Analysis Batch: 17276

Client Sample ID: S-2

Prep Type: Total/NA

Prep Batch: 17271

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	ND		0.749	0.663		mg/Kg		88	70 - 130	3	20
Ethylbenzene	ND		0.749	0.702		mg/Kg		94	70 - 130	2	20
Toluene	ND		0.749	0.685		mg/Kg		91	70 - 130	2	20
Xylenes, Total	ND		2.25	2.08		mg/Kg		92	70 - 130	3	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	91		48 - 145								

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QC Sample Results

Client: Ensolum
Project/Site: Brookhaven A #2A PC

Job ID: 885-16521-1

Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-17272/1-A

Matrix: Solid

Analysis Batch: 17280

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 17272

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		12/09/24 09:07	12/09/24 10:12	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		12/09/24 09:07	12/09/24 10:12	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	93		62 - 134			12/09/24 09:07	12/09/24 10:12	1

Lab Sample ID: LCS 885-17272/2-A

Matrix: Solid

Analysis Batch: 17280

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 17272

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	50.0	35.7		mg/Kg		71	60 - 135
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
Di-n-octyl phthalate (Surr)	94		62 - 134				

Lab Sample ID: 885-16521-13 MS

Matrix: Solid

Analysis Batch: 17281

Client Sample ID: S-13

Prep Type: Total/NA

Prep Batch: 17272

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	ND		49.6	50.2		mg/Kg		101	44 - 136
Surrogate	MS %Recovery	MS Qualifier	Limits						
Di-n-octyl phthalate (Surr)	82		62 - 134						

Lab Sample ID: 885-16521-13 MSD

Matrix: Solid

Analysis Batch: 17281

Client Sample ID: S-13

Prep Type: Total/NA

Prep Batch: 17272

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	ND		46.9	44.5		mg/Kg		95	44 - 136	12	32
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
Di-n-octyl phthalate (Surr)	82		62 - 134								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-17257/1-A

Matrix: Solid

Analysis Batch: 17260

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 17257

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0	mg/Kg		12/09/24 07:43	12/09/24 08:42	1

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QC Sample Results

Client: Ensolum
Project/Site: Brookhaven A #2A PC

Job ID: 885-16521-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 885-17257/2-A				Client Sample ID: Lab Control Sample			
Matrix: Solid				Prep Type: Total/NA			
Analysis Batch: 17260				Prep Batch: 17257			
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	30.0	30.2		mg/Kg		101	90 - 110

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11

QC Association Summary

Client: Ensolum
Project/Site: Brookhaven A #2A PC

Job ID: 885-16521-1

GC VOA

Prep Batch: 17271

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-16521-1	S-1	Total/NA	Solid	5035	
885-16521-2	S-2	Total/NA	Solid	5035	
885-16521-3	S-3	Total/NA	Solid	5035	
885-16521-4	S-4	Total/NA	Solid	5035	
885-16521-5	S-5	Total/NA	Solid	5035	
885-16521-6	S-6	Total/NA	Solid	5035	
885-16521-7	S-7	Total/NA	Solid	5035	
885-16521-8	S-8	Total/NA	Solid	5035	
885-16521-9	S-9	Total/NA	Solid	5035	
885-16521-10	S-10	Total/NA	Solid	5035	
885-16521-11	S-11	Total/NA	Solid	5035	
885-16521-12	S-12	Total/NA	Solid	5035	
885-16521-13	S-13	Total/NA	Solid	5035	
MB 885-17271/1-A	Method Blank	Total/NA	Solid	5035	
LCS 885-17271/2-A	Lab Control Sample	Total/NA	Solid	5035	
LCS 885-17271/3-A	Lab Control Sample	Total/NA	Solid	5035	
885-16521-1 MS	S-1	Total/NA	Solid	5035	
885-16521-1 MSD	S-1	Total/NA	Solid	5035	
885-16521-2 MS	S-2	Total/NA	Solid	5035	
885-16521-2 MSD	S-2	Total/NA	Solid	5035	

Analysis Batch: 17275

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-16521-1	S-1	Total/NA	Solid	8015M/D	17271
885-16521-2	S-2	Total/NA	Solid	8015M/D	17271
885-16521-3	S-3	Total/NA	Solid	8015M/D	17271
885-16521-4	S-4	Total/NA	Solid	8015M/D	17271
885-16521-5	S-5	Total/NA	Solid	8015M/D	17271
885-16521-6	S-6	Total/NA	Solid	8015M/D	17271
885-16521-7	S-7	Total/NA	Solid	8015M/D	17271
885-16521-8	S-8	Total/NA	Solid	8015M/D	17271
885-16521-9	S-9	Total/NA	Solid	8015M/D	17271
885-16521-10	S-10	Total/NA	Solid	8015M/D	17271
885-16521-11	S-11	Total/NA	Solid	8015M/D	17271
885-16521-12	S-12	Total/NA	Solid	8015M/D	17271
885-16521-13	S-13	Total/NA	Solid	8015M/D	17271
MB 885-17271/1-A	Method Blank	Total/NA	Solid	8015M/D	17271
LCS 885-17271/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	17271
885-16521-1 MS	S-1	Total/NA	Solid	8015M/D	17271
885-16521-1 MSD	S-1	Total/NA	Solid	8015M/D	17271

Analysis Batch: 17276

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-16521-1	S-1	Total/NA	Solid	8021B	17271
885-16521-2	S-2	Total/NA	Solid	8021B	17271
885-16521-3	S-3	Total/NA	Solid	8021B	17271
885-16521-4	S-4	Total/NA	Solid	8021B	17271
885-16521-5	S-5	Total/NA	Solid	8021B	17271
885-16521-6	S-6	Total/NA	Solid	8021B	17271
885-16521-7	S-7	Total/NA	Solid	8021B	17271
885-16521-8	S-8	Total/NA	Solid	8021B	17271

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QC Association Summary

Client: Ensolum
Project/Site: Brookhaven A #2A PC

Job ID: 885-16521-1

GC VOA (Continued)

Analysis Batch: 17276 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-16521-9	S-9	Total/NA	Solid	8021B	17271
885-16521-10	S-10	Total/NA	Solid	8021B	17271
885-16521-11	S-11	Total/NA	Solid	8021B	17271
885-16521-12	S-12	Total/NA	Solid	8021B	17271
885-16521-13	S-13	Total/NA	Solid	8021B	17271
MB 885-17271/1-A	Method Blank	Total/NA	Solid	8021B	17271
LCS 885-17271/3-A	Lab Control Sample	Total/NA	Solid	8021B	17271
885-16521-2 MS	S-2	Total/NA	Solid	8021B	17271
885-16521-2 MSD	S-2	Total/NA	Solid	8021B	17271

GC Semi VOA

Prep Batch: 17272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-16521-1	S-1	Total/NA	Solid	SHAKE	
885-16521-2	S-2	Total/NA	Solid	SHAKE	
885-16521-3	S-3	Total/NA	Solid	SHAKE	
885-16521-4	S-4	Total/NA	Solid	SHAKE	
885-16521-5	S-5	Total/NA	Solid	SHAKE	
885-16521-6	S-6	Total/NA	Solid	SHAKE	
885-16521-7	S-7	Total/NA	Solid	SHAKE	
885-16521-8	S-8	Total/NA	Solid	SHAKE	
885-16521-9	S-9	Total/NA	Solid	SHAKE	
885-16521-10	S-10	Total/NA	Solid	SHAKE	
885-16521-11	S-11	Total/NA	Solid	SHAKE	
885-16521-12	S-12	Total/NA	Solid	SHAKE	
885-16521-13	S-13	Total/NA	Solid	SHAKE	
MB 885-17272/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-17272/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
885-16521-13 MS	S-13	Total/NA	Solid	SHAKE	
885-16521-13 MSD	S-13	Total/NA	Solid	SHAKE	

Analysis Batch: 17280

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-16521-1	S-1	Total/NA	Solid	8015M/D	17272
885-16521-2	S-2	Total/NA	Solid	8015M/D	17272
885-16521-3	S-3	Total/NA	Solid	8015M/D	17272
885-16521-4	S-4	Total/NA	Solid	8015M/D	17272
885-16521-5	S-5	Total/NA	Solid	8015M/D	17272
885-16521-6	S-6	Total/NA	Solid	8015M/D	17272
MB 885-17272/1-A	Method Blank	Total/NA	Solid	8015M/D	17272
LCS 885-17272/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	17272

Analysis Batch: 17281

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-16521-7	S-7	Total/NA	Solid	8015M/D	17272
885-16521-8	S-8	Total/NA	Solid	8015M/D	17272
885-16521-9	S-9	Total/NA	Solid	8015M/D	17272
885-16521-10	S-10	Total/NA	Solid	8015M/D	17272
885-16521-11	S-11	Total/NA	Solid	8015M/D	17272
885-16521-12	S-12	Total/NA	Solid	8015M/D	17272

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QC Association Summary

Client: Ensolum
Project/Site: Brookhaven A #2A PC

Job ID: 885-16521-1

GC Semi VOA (Continued)

Analysis Batch: 17281 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-16521-13	S-13	Total/NA	Solid	8015M/D	17272
885-16521-13 MS	S-13	Total/NA	Solid	8015M/D	17272
885-16521-13 MSD	S-13	Total/NA	Solid	8015M/D	17272

HPLC/IC

Prep Batch: 17257

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-16521-1	S-1	Total/NA	Solid	300_Prep	
885-16521-2	S-2	Total/NA	Solid	300_Prep	
885-16521-3	S-3	Total/NA	Solid	300_Prep	
885-16521-4	S-4	Total/NA	Solid	300_Prep	
885-16521-5	S-5	Total/NA	Solid	300_Prep	
885-16521-6	S-6	Total/NA	Solid	300_Prep	
885-16521-7	S-7	Total/NA	Solid	300_Prep	
885-16521-8	S-8	Total/NA	Solid	300_Prep	
885-16521-9	S-9	Total/NA	Solid	300_Prep	
885-16521-10	S-10	Total/NA	Solid	300_Prep	
885-16521-11	S-11	Total/NA	Solid	300_Prep	
885-16521-12	S-12	Total/NA	Solid	300_Prep	
885-16521-13	S-13	Total/NA	Solid	300_Prep	
MB 885-17257/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-17257/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Analysis Batch: 17260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-16521-1	S-1	Total/NA	Solid	300.0	17257
885-16521-2	S-2	Total/NA	Solid	300.0	17257
885-16521-3	S-3	Total/NA	Solid	300.0	17257
885-16521-4	S-4	Total/NA	Solid	300.0	17257
885-16521-5	S-5	Total/NA	Solid	300.0	17257
885-16521-6	S-6	Total/NA	Solid	300.0	17257
885-16521-7	S-7	Total/NA	Solid	300.0	17257
885-16521-8	S-8	Total/NA	Solid	300.0	17257
885-16521-9	S-9	Total/NA	Solid	300.0	17257
885-16521-10	S-10	Total/NA	Solid	300.0	17257
885-16521-11	S-11	Total/NA	Solid	300.0	17257
885-16521-12	S-12	Total/NA	Solid	300.0	17257
885-16521-13	S-13	Total/NA	Solid	300.0	17257
MB 885-17257/1-A	Method Blank	Total/NA	Solid	300.0	17257
LCS 885-17257/2-A	Lab Control Sample	Total/NA	Solid	300.0	17257

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Lab Chronicle

Client: Ensolum
Project/Site: Brookhaven A #2A PC

Job ID: 885-16521-1

Client Sample ID: S-1

Lab Sample ID: 885-16521-1

Date Collected: 12/06/24 12:00

Matrix: Solid

Date Received: 12/07/24 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			17271	AT	EET ALB	12/09/24 09:05
Total/NA	Analysis	8015M/D		1	17275	AT	EET ALB	12/09/24 11:54
Total/NA	Prep	5035			17271	AT	EET ALB	12/09/24 09:05
Total/NA	Analysis	8021B		1	17276	AT	EET ALB	12/09/24 11:54
Total/NA	Prep	SHAKE			17272	MB	EET ALB	12/09/24 09:08
Total/NA	Analysis	8015M/D		1	17280	MI	EET ALB	12/09/24 10:33
Total/NA	Prep	300_Prep			17257	JT	EET ALB	12/09/24 07:43
Total/NA	Analysis	300.0		20	17260	JT	EET ALB	12/09/24 10:46

Client Sample ID: S-2

Lab Sample ID: 885-16521-2

Date Collected: 12/06/24 12:05

Matrix: Solid

Date Received: 12/07/24 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			17271	AT	EET ALB	12/09/24 09:05
Total/NA	Analysis	8015M/D		1	17275	AT	EET ALB	12/09/24 12:16
Total/NA	Prep	5035			17271	AT	EET ALB	12/09/24 09:05
Total/NA	Analysis	8021B		1	17276	AT	EET ALB	12/09/24 12:16
Total/NA	Prep	SHAKE			17272	MB	EET ALB	12/09/24 09:08
Total/NA	Analysis	8015M/D		1	17280	MI	EET ALB	12/09/24 10:44
Total/NA	Prep	300_Prep			17257	JT	EET ALB	12/09/24 07:43
Total/NA	Analysis	300.0		20	17260	JT	EET ALB	12/09/24 10:56

Client Sample ID: S-3

Lab Sample ID: 885-16521-3

Date Collected: 12/06/24 12:10

Matrix: Solid

Date Received: 12/07/24 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			17271	AT	EET ALB	12/09/24 09:05
Total/NA	Analysis	8015M/D		1	17275	AT	EET ALB	12/09/24 12:38
Total/NA	Prep	5035			17271	AT	EET ALB	12/09/24 09:05
Total/NA	Analysis	8021B		1	17276	AT	EET ALB	12/09/24 12:38
Total/NA	Prep	SHAKE			17272	MB	EET ALB	12/09/24 09:08
Total/NA	Analysis	8015M/D		1	17280	MI	EET ALB	12/09/24 10:54
Total/NA	Prep	300_Prep			17257	JT	EET ALB	12/09/24 07:43
Total/NA	Analysis	300.0		20	17260	JT	EET ALB	12/09/24 11:06

Client Sample ID: S-4

Lab Sample ID: 885-16521-4

Date Collected: 12/06/24 12:15

Matrix: Solid

Date Received: 12/07/24 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			17271	AT	EET ALB	12/09/24 09:05
Total/NA	Analysis	8015M/D		1	17275	AT	EET ALB	12/09/24 13:00

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Lab Chronicle

Client: Ensolum
Project/Site: Brookhaven A #2A PC

Job ID: 885-16521-1

Client Sample ID: S-4

Lab Sample ID: 885-16521-4

Date Collected: 12/06/24 12:15

Matrix: Solid

Date Received: 12/07/24 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			17271	AT	EET ALB	12/09/24 09:05
Total/NA	Analysis	8021B		1	17276	AT	EET ALB	12/09/24 13:00
Total/NA	Prep	SHAKE			17272	MB	EET ALB	12/09/24 09:08
Total/NA	Analysis	8015M/D		1	17280	MI	EET ALB	12/09/24 11:05
Total/NA	Prep	300_Prep			17257	JT	EET ALB	12/09/24 07:43
Total/NA	Analysis	300.0		20	17260	JT	EET ALB	12/09/24 11:17

Client Sample ID: S-5

Lab Sample ID: 885-16521-5

Date Collected: 12/06/24 12:20

Matrix: Solid

Date Received: 12/07/24 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			17271	AT	EET ALB	12/09/24 09:05
Total/NA	Analysis	8015M/D		1	17275	AT	EET ALB	12/09/24 13:21
Total/NA	Prep	5035			17271	AT	EET ALB	12/09/24 09:05
Total/NA	Analysis	8021B		1	17276	AT	EET ALB	12/09/24 13:21
Total/NA	Prep	SHAKE			17272	MB	EET ALB	12/09/24 09:08
Total/NA	Analysis	8015M/D		1	17280	MI	EET ALB	12/09/24 11:16
Total/NA	Prep	300_Prep			17257	JT	EET ALB	12/09/24 07:43
Total/NA	Analysis	300.0		20	17260	JT	EET ALB	12/09/24 11:27

Client Sample ID: S-6

Lab Sample ID: 885-16521-6

Date Collected: 12/06/24 12:25

Matrix: Solid

Date Received: 12/07/24 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			17271	AT	EET ALB	12/09/24 09:05
Total/NA	Analysis	8015M/D		1	17275	AT	EET ALB	12/09/24 13:43
Total/NA	Prep	5035			17271	AT	EET ALB	12/09/24 09:05
Total/NA	Analysis	8021B		1	17276	AT	EET ALB	12/09/24 13:43
Total/NA	Prep	SHAKE			17272	MB	EET ALB	12/09/24 09:08
Total/NA	Analysis	8015M/D		1	17280	MI	EET ALB	12/09/24 11:26
Total/NA	Prep	300_Prep			17257	JT	EET ALB	12/09/24 07:43
Total/NA	Analysis	300.0		20	17260	JT	EET ALB	12/09/24 11:37

Client Sample ID: S-7

Lab Sample ID: 885-16521-7

Date Collected: 12/06/24 12:30

Matrix: Solid

Date Received: 12/07/24 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			17271	AT	EET ALB	12/09/24 09:05
Total/NA	Analysis	8015M/D		1	17275	AT	EET ALB	12/09/24 14:05
Total/NA	Prep	5035			17271	AT	EET ALB	12/09/24 09:05
Total/NA	Analysis	8021B		1	17276	AT	EET ALB	12/09/24 14:05

Eurofins Albuquerque

Lab Chronicle

Client: Ensolum
Project/Site: Brookhaven A #2A PC

Job ID: 885-16521-1

Client Sample ID: S-7

Lab Sample ID: 885-16521-7

Date Collected: 12/06/24 12:30

Matrix: Solid

Date Received: 12/07/24 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			17272	MB	EET ALB	12/09/24 09:08
Total/NA	Analysis	8015M/D		1	17281	MI	EET ALB	12/09/24 10:12
Total/NA	Prep	300_Prep			17257	JT	EET ALB	12/09/24 07:43
Total/NA	Analysis	300.0		20	17260	JT	EET ALB	12/09/24 11:48

Client Sample ID: S-8

Lab Sample ID: 885-16521-8

Date Collected: 12/06/24 12:35

Matrix: Solid

Date Received: 12/07/24 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			17271	AT	EET ALB	12/09/24 13:41
Total/NA	Analysis	8015M/D		1	17275	AT	EET ALB	12/09/24 14:27
Total/NA	Prep	5035			17271	AT	EET ALB	12/09/24 13:41
Total/NA	Analysis	8021B		1	17276	AT	EET ALB	12/09/24 14:27
Total/NA	Prep	SHAKE			17272	MB	EET ALB	12/09/24 09:08
Total/NA	Analysis	8015M/D		1	17281	MI	EET ALB	12/09/24 10:24
Total/NA	Prep	300_Prep			17257	JT	EET ALB	12/09/24 07:43
Total/NA	Analysis	300.0		20	17260	JT	EET ALB	12/09/24 11:58

Client Sample ID: S-9

Lab Sample ID: 885-16521-9

Date Collected: 12/06/24 12:40

Matrix: Solid

Date Received: 12/07/24 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			17271	AT	EET ALB	12/09/24 13:41
Total/NA	Analysis	8015M/D		1	17275	AT	EET ALB	12/09/24 14:48
Total/NA	Prep	5035			17271	AT	EET ALB	12/09/24 13:41
Total/NA	Analysis	8021B		1	17276	AT	EET ALB	12/09/24 14:48
Total/NA	Prep	SHAKE			17272	MB	EET ALB	12/09/24 09:08
Total/NA	Analysis	8015M/D		1	17281	MI	EET ALB	12/09/24 10:35
Total/NA	Prep	300_Prep			17257	JT	EET ALB	12/09/24 07:43
Total/NA	Analysis	300.0		20	17260	JT	EET ALB	12/09/24 12:09

Client Sample ID: S-10

Lab Sample ID: 885-16521-10

Date Collected: 12/06/24 12:45

Matrix: Solid

Date Received: 12/07/24 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			17271	AT	EET ALB	12/09/24 13:41
Total/NA	Analysis	8015M/D		1	17275	AT	EET ALB	12/09/24 15:10
Total/NA	Prep	5035			17271	AT	EET ALB	12/09/24 13:41
Total/NA	Analysis	8021B		1	17276	AT	EET ALB	12/09/24 15:10
Total/NA	Prep	SHAKE			17272	MB	EET ALB	12/09/24 09:08
Total/NA	Analysis	8015M/D		1	17281	MI	EET ALB	12/09/24 10:48

Eurofins Albuquerque

Lab Chronicle

Client: Ensolum
Project/Site: Brookhaven A #2A PC

Job ID: 885-16521-1

Client Sample ID: S-10

Date Collected: 12/06/24 12:45

Date Received: 12/07/24 16:15

Lab Sample ID: 885-16521-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			17257	JT	EET ALB	12/09/24 07:43
Total/NA	Analysis	300.0		20	17260	JT	EET ALB	12/09/24 12:19

Client Sample ID: S-11

Date Collected: 12/06/24 12:50

Date Received: 12/07/24 16:15

Lab Sample ID: 885-16521-11

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			17271	AT	EET ALB	12/09/24 13:41
Total/NA	Analysis	8015M/D		1	17275	AT	EET ALB	12/09/24 15:54
Total/NA	Prep	5035			17271	AT	EET ALB	12/09/24 13:41
Total/NA	Analysis	8021B		1	17276	AT	EET ALB	12/09/24 15:54
Total/NA	Prep	SHAKE			17272	MB	EET ALB	12/09/24 09:08
Total/NA	Analysis	8015M/D		1	17281	MI	EET ALB	12/09/24 11:00
Total/NA	Prep	300_Prep			17257	JT	EET ALB	12/09/24 07:43
Total/NA	Analysis	300.0		20	17260	JT	EET ALB	12/09/24 12:50

Client Sample ID: S-12

Date Collected: 12/06/24 12:55

Date Received: 12/07/24 16:15

Lab Sample ID: 885-16521-12

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			17271	AT	EET ALB	12/09/24 13:41
Total/NA	Analysis	8015M/D		1	17275	AT	EET ALB	12/09/24 16:16
Total/NA	Prep	5035			17271	AT	EET ALB	12/09/24 13:41
Total/NA	Analysis	8021B		1	17276	AT	EET ALB	12/09/24 16:16
Total/NA	Prep	SHAKE			17272	MB	EET ALB	12/09/24 09:08
Total/NA	Analysis	8015M/D		1	17281	MI	EET ALB	12/09/24 11:12
Total/NA	Prep	300_Prep			17257	JT	EET ALB	12/09/24 07:43
Total/NA	Analysis	300.0		20	17260	JT	EET ALB	12/09/24 13:00

Client Sample ID: S-13

Date Collected: 12/06/24 13:00

Date Received: 12/07/24 16:15

Lab Sample ID: 885-16521-13

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			17271	AT	EET ALB	12/09/24 13:41
Total/NA	Analysis	8015M/D		1	17275	AT	EET ALB	12/09/24 16:38
Total/NA	Prep	5035			17271	AT	EET ALB	12/09/24 13:41
Total/NA	Analysis	8021B		1	17276	AT	EET ALB	12/09/24 16:38
Total/NA	Prep	SHAKE			17272	MB	EET ALB	12/09/24 09:08
Total/NA	Analysis	8015M/D		1	17281	MI	EET ALB	12/09/24 11:24
Total/NA	Prep	300_Prep			17257	JT	EET ALB	12/09/24 07:43
Total/NA	Analysis	300.0		20	17260	JT	EET ALB	12/09/24 13:11

Eurofins Albuquerque

Lab Chronicle

Client: Ensolum
Project/Site: Brookhaven A #2A PC

Job ID: 885-16521-1

Laboratory References:
EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

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Accreditation/Certification Summary

Client: Ensolum
Project/Site: Brookhaven A #2A PC

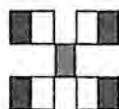
Job ID: 885-16521-1

Laboratory: Eurofins Albuquerque

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	NM100001	02-25-25

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$$2/2$$


HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Chain-of-Custody Record

Chain-of-Custody Record		Turn-Around Time: 140 h
Client: Ensolom	<input type="checkbox"/> Standard	<input checked="" type="checkbox"/> Rush 12-9-24
Mailing Address: 606 S Rv Grande	Project Name: Brockman	
Suite A 87410	Project #:	
Phone #:	Project Manager: K Summers	
Email or Fax#:	Sampler: C V Apontzi	
QA/QC Package: <input type="checkbox"/> Level 4 (Full Validation)	On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No mgs	
<input type="checkbox"/> Standard	# of Coolers: 1	
Accreditation: <input type="checkbox"/> Az Compliance	Cooler Temp (including CP): 0.1 - 0.1 = 0 (°C)	
<input type="checkbox"/> NELAC <input type="checkbox"/> Other		
<input type="checkbox"/> EDD (Type) _____		

Project Manager:

K. Summers

Sampler: $\Delta \Delta$ Apn 21

On Ice:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	made
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of Coolers:

Cooler Temp (Including CF): $\Delta T - 0.1 = 0$ (°C)

9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	4
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Container	Preservative	HEAL No.
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Type and # Type

1	1	1
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4	4	4
5	5	5
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7	7	7
8	8	8
9	9	9
10	10	10
11	11	11
12	12	12
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93	93	93
94	94	94
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96	96	96
97	97	97
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99	99	99
100	100	100

Hor Jay Good	
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1. *Journal of the American Medical Association*, 2000; 284: 2689-2695.

Journal of Management Education 35(10) 1131-1144

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100

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[illegible]

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Received by: _____ Via: _____ Date _____ Time _____

12/1/14

Received by:	Via: SA 40-	Date:	Time:
0000		10/12/74	1:10

Received by: _____ Date: _____
Via: air _____
Title: 60.13

10. 12/1/19

~~substantiated police reports concerning~~

THE UNIVERSITY OF CHICAGO

Page 33 of 34
Page 35 of 36

12/13/2024
2/11/2025 (Rev. 1)

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 885-16521-1

Login Number: 16521

List Number: 1

Creator: Casarrubias, Tracy

List Source: Eurofins Albuquerque

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Kyle Summers
Ensolum
606 S Rio Grande
Suite A
Aztec, New Mexico 87410

Generated 2/13/2025 9:52:35 AM Revision 1

JOB DESCRIPTION

Brookhaven A#2A PC

JOB NUMBER

885-18504-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization



Authorized for release by
John Caldwell, Project Manager
john.caldwell@et.eurofinsus.com
(505)345-3975

Generated
2/13/2025 9:52:35 AM
Revision 1

Client: Ensolum
Project/Site: Brookhaven A#2A PC

Laboratory Job ID: 885-18504-1

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Definitions/Glossary

Client: Ensolum
Project/Site: Brookhaven A#2A PC

Job ID: 885-18504-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ensolum
Project: Brookhaven A#2A PC

Job ID: 885-18504-1

Job ID: 885-18504-1

Eurofins Albuquerque

**Job Narrative
885-18504-1**

REVISION

The report being provided is a revision of the original report sent on 1/22/2025. The report (revision 1) is being revised due to Updated project name to Brookhaven A #2A PC.

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The sample was received on 1/16/2025 7:10 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -2.2°C.

Gasoline Range Organics

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Albuquerque

Client Sample Results

Client: Ensolum
Project/Site: Brookhaven A#2A PC

Job ID: 885-18504-1

Client Sample ID: BF-1

Lab Sample ID: 885-18504-1

Date Collected: 01/15/25 10:00

Matrix: Solid

Date Received: 01/16/25 07:10

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	ND		4.7	mg/Kg		01/16/25 12:12	01/17/25 19:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		35 - 166	01/16/25 12:12	01/17/25 19:02	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		01/16/25 12:12	01/17/25 19:02	1
Ethylbenzene	ND		0.047	mg/Kg		01/16/25 12:12	01/17/25 19:02	1
Toluene	ND		0.047	mg/Kg		01/16/25 12:12	01/17/25 19:02	1
Xylenes, Total	ND		0.093	mg/Kg		01/16/25 12:12	01/17/25 19:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		48 - 145	01/16/25 12:12	01/17/25 19:02	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	9.7		9.1	mg/Kg		01/18/25 11:08	01/20/25 13:30	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		01/18/25 11:08	01/20/25 13:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	106		62 - 134	01/18/25 11:08	01/20/25 13:30	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		01/21/25 12:49	01/21/25 19:21	20

Eurofins Albuquerque

QC Sample Results

Client: Ensolum
Project/Site: Brookhaven A#2A PC

Job ID: 885-18504-1

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-19435/1-A

Matrix: Solid

Analysis Batch: 19503

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 19435

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	ND		5.0	mg/Kg		01/16/25 12:10	01/17/25 14:13	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		35 - 166			01/16/25 12:10	01/17/25 14:13	1

Lab Sample ID: LCS 885-19435/2-A

Matrix: Solid

Analysis Batch: 19503

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 19435

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
GRO (C6-C10)	25.0	24.8		mg/Kg		99	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	211		35 - 166				

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-19435/1-A

Matrix: Solid

Analysis Batch: 19502

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 19435

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		01/16/25 12:10	01/17/25 14:13	1
Ethylbenzene	ND		0.050	mg/Kg		01/16/25 12:10	01/17/25 14:13	1
Toluene	ND		0.050	mg/Kg		01/16/25 12:10	01/17/25 14:13	1
Xylenes, Total	ND		0.10	mg/Kg		01/16/25 12:10	01/17/25 14:13	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		48 - 145			01/16/25 12:10	01/17/25 14:13	1

Lab Sample ID: LCS 885-19435/4-A

Matrix: Solid

Analysis Batch: 19502

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 19435

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	1.00	1.07		mg/Kg		107	70 - 130
Ethylbenzene	1.00	1.13		mg/Kg		113	70 - 130
Toluene	1.00	1.11		mg/Kg		111	70 - 130
Xylenes, Total	3.00	3.35		mg/Kg		112	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	115		48 - 145				

Eurofins Albuquerque

QC Sample Results

Client: Ensolum
Project/Site: Brookhaven A#2A PC

Job ID: 885-18504-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 885-18504-1 MS

Matrix: Solid

Analysis Batch: 19502

Client Sample ID: BF-1

Prep Type: Total/NA

Prep Batch: 19435

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	ND		0.936	1.00		mg/Kg		107	70 - 130
Ethylbenzene	ND		0.936	1.06		mg/Kg		114	70 - 130
Toluene	ND		0.936	1.05		mg/Kg		112	70 - 130
Xylenes, Total	ND		2.81	3.15		mg/Kg		112	70 - 130

Surrogate	MS %Recovery	MS Qualifier	MS Limits
4-Bromofluorobenzene (Surr)	106		48 - 145

Lab Sample ID: 885-18504-1 MSD

Matrix: Solid

Analysis Batch: 19502

Client Sample ID: BF-1

Prep Type: Total/NA

Prep Batch: 19435

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		0.929	0.968		mg/Kg		104	70 - 130	3	20
Ethylbenzene	ND		0.929	1.00		mg/Kg		108	70 - 130	6	20
Toluene	ND		0.929	0.999		mg/Kg		107	70 - 130	5	20
Xylenes, Total	ND		2.79	2.99		mg/Kg		106	70 - 130	6	20

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
4-Bromofluorobenzene (Surr)	104		48 - 145

Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-19523/1-A

Matrix: Solid

Analysis Batch: 19527

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 19523

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		01/18/25 11:08	01/20/25 09:37	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		01/18/25 11:08	01/20/25 09:37	1

Surrogate	MB %Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	102		62 - 134	01/18/25 11:08	01/20/25 09:37	1

Lab Sample ID: LCS 885-19523/2-A

Matrix: Solid

Analysis Batch: 19527

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 19523

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	50.0	60.2		mg/Kg		120	60 - 135

Surrogate	LCS %Recovery	LCS Qualifier	LCS Limits
Di-n-octyl phthalate (Surr)	114		62 - 134

Eurofins Albuquerque

QC Sample Results

Client: Ensolum
Project/Site: Brookhaven A#2A PC

Job ID: 885-18504-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-19616/1-A					Client Sample ID: Method Blank				
Matrix: Solid					Prep Type: Total/NA				
Analysis Batch: 19608					Prep Batch: 19616				
Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	ND		3.0	mg/Kg		01/21/25 12:49	01/21/25 14:06	1	

Lab Sample ID: LCS 885-19616/2-A					Client Sample ID: Lab Control Sample				
Matrix: Solid					Prep Type: Total/NA				
Analysis Batch: 19608					Prep Batch: 19616				
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	30.0	29.9		mg/Kg		100	90 - 110		

QC Association Summary

Client: Ensolum
Project/Site: Brookhaven A#2A PC

Job ID: 885-18504-1

GC VOA

Prep Batch: 19435

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-18504-1	BF-1	Total/NA	Solid	5030C	
MB 885-19435/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-19435/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-19435/4-A	Lab Control Sample	Total/NA	Solid	5030C	
885-18504-1 MS	BF-1	Total/NA	Solid	5030C	
885-18504-1 MSD	BF-1	Total/NA	Solid	5030C	

Analysis Batch: 19502

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-18504-1	BF-1	Total/NA	Solid	8021B	19435
MB 885-19435/1-A	Method Blank	Total/NA	Solid	8021B	19435
LCS 885-19435/4-A	Lab Control Sample	Total/NA	Solid	8021B	19435
885-18504-1 MS	BF-1	Total/NA	Solid	8021B	19435
885-18504-1 MSD	BF-1	Total/NA	Solid	8021B	19435

Analysis Batch: 19503

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-18504-1	BF-1	Total/NA	Solid	8015M/D	19435
MB 885-19435/1-A	Method Blank	Total/NA	Solid	8015M/D	19435
LCS 885-19435/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	19435

GC Semi VOA

Prep Batch: 19523

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-18504-1	BF-1	Total/NA	Solid	SHAKE	
MB 885-19523/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-19523/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Analysis Batch: 19527

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-18504-1	BF-1	Total/NA	Solid	8015M/D	19523
MB 885-19523/1-A	Method Blank	Total/NA	Solid	8015M/D	19523
LCS 885-19523/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	19523

HPLC/IC

Analysis Batch: 19608

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-18504-1	BF-1	Total/NA	Solid	300.0	19616
MB 885-19616/1-A	Method Blank	Total/NA	Solid	300.0	19616
LCS 885-19616/2-A	Lab Control Sample	Total/NA	Solid	300.0	19616

Prep Batch: 19616

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-18504-1	BF-1	Total/NA	Solid	300_Prep	
MB 885-19616/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-19616/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Eurofins Albuquerque

Lab Chronicle

Client: Ensolum
Project/Site: Brookhaven A#2A PC

Job ID: 885-18504-1

Client Sample ID: BF-1
Date Collected: 01/15/25 10:00
Date Received: 01/16/25 07:10

Lab Sample ID: 885-18504-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			19435	JP	EET ALB	01/16/25 12:12
Total/NA	Analysis	8015M/D		1	19503	JP	EET ALB	01/17/25 19:02
Total/NA	Prep	5030C			19435	JP	EET ALB	01/16/25 12:12
Total/NA	Analysis	8021B		1	19502	JP	EET ALB	01/17/25 19:02
Total/NA	Prep	SHAKE			19523	MI	EET ALB	01/18/25 11:08
Total/NA	Analysis	8015M/D		1	19527	MI	EET ALB	01/20/25 13:30
Total/NA	Prep	300_Prep			19616	JT	EET ALB	01/21/25 12:49
Total/NA	Analysis	300.0		20	19608	JT	EET ALB	01/21/25 19:21

Laboratory References:
EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Brookhaven A#2A PC

Job ID: 885-18504-1

Laboratory: Eurofins Albuquerque

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	NM100001	02-25-25

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 885-18504-1

Login Number: 18504

List Number: 1

Creator: Casarrubias, Tracy

List Source: Eurofins Albuquerque

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	Samples not Frozen
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	



Environment Testing

- 1
- 2
- 3
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ANALYTICAL REPORT

PREPARED FOR

Attn: Kyle Summers
Ensolum
606 S Rio Grande
Suite A
Aztec, New Mexico 87410

Generated 4/15/2025 9:45:23 AM Revision 1

JOB DESCRIPTION

Brookhaven A #2A PC

JOB NUMBER

885-20279-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization



Authorized for release by
John Caldwell, Project Manager
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(505)345-3975

Generated
4/15/2025 9:45:23 AM
Revision 1

Client: Ensolum
Project/Site: Brookhaven A #2A PC

Laboratory Job ID: 885-20279-1

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Definitions/Glossary

Client: Ensolum
Project/Site: Brookhaven A #2A PC

Job ID: 885-20279-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ensolum
Project: Brookhaven A #2A PC

Job ID: 885-20279-1

Job ID: 885-20279-1

Eurofins Albuquerque

**Job Narrative
885-20279-1**

REVISION

The report being provided is a revision of the original report sent on 2/26/2025. The report (revision 1) is being revised due to Project name updated to Brookhaven A #2A PC.

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 2/21/2025 7:18 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.9°C.

Gasoline Range Organics

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Albuquerque

Client Sample Results

Client: Ensolum
Project/Site: Brookhaven A #2A PC

Job ID: 885-20279-1

Client Sample ID: S-14

Lab Sample ID: 885-20279-1

Date Collected: 02/20/25 12:00

Matrix: Solid

Date Received: 02/21/25 07:18

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	ND		4.9	mg/Kg		02/21/25 10:28	02/23/25 17:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		35 - 166	02/21/25 10:28	02/23/25 17:00	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		02/21/25 10:28	02/25/25 01:16	1
Ethylbenzene	ND		0.049	mg/Kg		02/21/25 10:28	02/25/25 01:16	1
Toluene	ND		0.049	mg/Kg		02/21/25 10:28	02/25/25 01:16	1
Xylenes, Total	ND		0.098	mg/Kg		02/21/25 10:28	02/25/25 01:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		48 - 145	02/21/25 10:28	02/25/25 01:16	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8	mg/Kg		02/21/25 11:36	02/24/25 20:36	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		02/21/25 11:36	02/24/25 20:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	97		62 - 134	02/21/25 11:36	02/24/25 20:36	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		02/24/25 17:11	02/25/25 01:20	20

Eurofins Albuquerque

Client Sample Results

Client: Ensolum
Project/Site: Brookhaven A #2A PC

Job ID: 885-20279-1

Client Sample ID: S-15

Lab Sample ID: 885-20279-2

Date Collected: 02/20/25 12:05

Matrix: Solid

Date Received: 02/21/25 07:18

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	ND		4.9	mg/Kg		02/21/25 10:28	02/23/25 18:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		35 - 166			02/21/25 10:28	02/23/25 18:14	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		02/21/25 10:28	02/25/25 01:38	1
Ethylbenzene	ND		0.049	mg/Kg		02/21/25 10:28	02/25/25 01:38	1
Toluene	ND		0.049	mg/Kg		02/21/25 10:28	02/25/25 01:38	1
Xylenes, Total	ND		0.097	mg/Kg		02/21/25 10:28	02/25/25 01:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		48 - 145			02/21/25 10:28	02/25/25 01:38	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6	mg/Kg		02/21/25 11:36	02/24/25 21:09	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		02/21/25 11:36	02/24/25 21:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	101		62 - 134			02/21/25 11:36	02/24/25 21:09	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		02/24/25 17:11	02/25/25 01:56	20

Eurofins Albuquerque

Client Sample Results

Client: Ensolum
Project/Site: Brookhaven A #2A PC

Job ID: 885-20279-1

Client Sample ID: S-16

Lab Sample ID: 885-20279-3

Date Collected: 02/20/25 12:10

Matrix: Solid

Date Received: 02/21/25 07:18

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	ND		4.7	mg/Kg		02/21/25 10:28	02/23/25 19:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		35 - 166	02/21/25 10:28	02/23/25 19:27	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		02/21/25 10:28	02/25/25 02:44	1
Ethylbenzene	ND		0.047	mg/Kg		02/21/25 10:28	02/25/25 02:44	1
Toluene	ND		0.047	mg/Kg		02/21/25 10:28	02/25/25 02:44	1
Xylenes, Total	ND		0.094	mg/Kg		02/21/25 10:28	02/25/25 02:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		48 - 145	02/21/25 10:28	02/25/25 02:44	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3	mg/Kg		02/21/25 11:36	02/24/25 21:20	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		02/21/25 11:36	02/24/25 21:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	100		62 - 134	02/21/25 11:36	02/24/25 21:20	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		02/24/25 17:11	02/25/25 02:08	20

Eurofins Albuquerque

QC Sample Results

Client: Ensolum
Project/Site: Brookhaven A #2A PC

Job ID: 885-20279-1

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-21234/1-A

Matrix: Solid

Analysis Batch: 21265

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 21234

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	ND		5.0	mg/Kg		02/21/25 10:28	02/23/25 16:36	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		35 - 166			02/21/25 10:28	02/23/25 16:36	1

Lab Sample ID: LCS 885-21234/2-A

Matrix: Solid

Analysis Batch: 21265

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 21234

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
GRO (C6-C10)	25.0	25.9		mg/Kg		104	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	205		35 - 166				

Lab Sample ID: 885-20279-1 MS

Matrix: Solid

Analysis Batch: 21265

Client Sample ID: S-14

Prep Type: Total/NA

Prep Batch: 21234

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
GRO (C6-C10)	ND		24.5	26.0		mg/Kg		106	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	212		35 - 166						

Lab Sample ID: 885-20279-1 MSD

Matrix: Solid

Analysis Batch: 21265

Client Sample ID: S-14

Prep Type: Total/NA

Prep Batch: 21234

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
GRO (C6-C10)	ND		24.6	28.0		mg/Kg		114	70 - 130	8	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	207		35 - 166								

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-21234/1-A

Matrix: Solid

Analysis Batch: 21400

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 21234

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		02/21/25 10:28	02/25/25 00:54	1
Ethylbenzene	ND		0.050	mg/Kg		02/21/25 10:28	02/25/25 00:54	1
Toluene	ND		0.050	mg/Kg		02/21/25 10:28	02/25/25 00:54	1
Xylenes, Total	ND		0.10	mg/Kg		02/21/25 10:28	02/25/25 00:54	1

Eurofins Albuquerque

QC Sample Results

Client: Ensolum
Project/Site: Brookhaven A #2A PC

Job ID: 885-20279-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 885-21234/1-A
Matrix: Solid
Analysis Batch: 21400

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 21234

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		48 - 145	02/21/25 10:28	02/25/25 00:54	1

Lab Sample ID: LCS 885-21234/3-A
Matrix: Solid
Analysis Batch: 21400

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 21234

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	1.00	0.909		mg/Kg		91	70 - 130
Ethylbenzene	1.00	0.938		mg/Kg		94	70 - 130
Toluene	1.00	0.917		mg/Kg		92	70 - 130
Xylenes, Total	3.00	2.79		mg/Kg		93	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		48 - 145

Lab Sample ID: 885-20279-2 MS
Matrix: Solid
Analysis Batch: 21400

Client Sample ID: S-15
Prep Type: Total/NA
Prep Batch: 21234

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	ND		0.970	0.854		mg/Kg		88	70 - 130
Ethylbenzene	ND		0.970	0.890		mg/Kg		92	70 - 130
Toluene	ND		0.970	0.863		mg/Kg		89	70 - 130
Xylenes, Total	ND		2.91	2.65		mg/Kg		91	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		48 - 145

Lab Sample ID: 885-20279-2 MSD
Matrix: Solid
Analysis Batch: 21400

Client Sample ID: S-15
Prep Type: Total/NA
Prep Batch: 21234

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		0.975	0.881		mg/Kg		90	70 - 130	3	20
Ethylbenzene	ND		0.975	0.901		mg/Kg		92	70 - 130	1	20
Toluene	ND		0.975	0.883		mg/Kg		91	70 - 130	2	20
Xylenes, Total	ND		2.92	2.68		mg/Kg		92	70 - 130	1	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		48 - 145

Eurofins Albuquerque

QC Sample Results

Client: Ensolum
Project/Site: Brookhaven A #2A PC

Job ID: 885-20279-1

Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-21240/1-A

Matrix: Solid

Analysis Batch: 21272

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 21240

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		02/21/25 11:36	02/24/25 20:14	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		02/21/25 11:36	02/24/25 20:14	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	95		62 - 134			02/21/25 11:36	02/24/25 20:14	1

Lab Sample ID: LCS 885-21240/2-A

Matrix: Solid

Analysis Batch: 21272

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 21240

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	50.0	54.4		mg/Kg		109	60 - 135
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
Di-n-octyl phthalate (Surr)	82		62 - 134				

Lab Sample ID: 885-20279-1 MS

Matrix: Solid

Analysis Batch: 21272

Client Sample ID: S-14

Prep Type: Total/NA

Prep Batch: 21240

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	ND		48.4	54.4		mg/Kg		112	44 - 136
Surrogate	MS %Recovery	MS Qualifier	Limits						
Di-n-octyl phthalate (Surr)	90		62 - 134						

Lab Sample ID: 885-20279-1 MSD

Matrix: Solid

Analysis Batch: 21272

Client Sample ID: S-14

Prep Type: Total/NA

Prep Batch: 21240

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	ND		49.6	55.4		mg/Kg		112	44 - 136	2	32
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
Di-n-octyl phthalate (Surr)	90		62 - 134								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-21353/1-A

Matrix: Solid

Analysis Batch: 21296

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 21353

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0	mg/Kg		02/24/25 17:11	02/24/25 23:57	1

Eurofins Albuquerque

QC Sample Results

Client: Ensolum
Project/Site: Brookhaven A #2A PC

Job ID: 885-20279-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 885-21353/2-A				Client Sample ID: Lab Control Sample			
Matrix: Solid				Prep Type: Total/NA			
Analysis Batch: 21296				Prep Batch: 21353			
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	30.0	29.7		mg/Kg		99	90 - 110

- 1
- 2
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QC Association Summary

Client: Ensolum
Project/Site: Brookhaven A #2A PC

Job ID: 885-20279-1

GC VOA

Prep Batch: 21234

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-20279-1	S-14	Total/NA	Solid	5030C	
885-20279-2	S-15	Total/NA	Solid	5030C	
885-20279-3	S-16	Total/NA	Solid	5030C	
MB 885-21234/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-21234/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-21234/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-20279-1 MS	S-14	Total/NA	Solid	5030C	
885-20279-1 MSD	S-14	Total/NA	Solid	5030C	
885-20279-2 MS	S-15	Total/NA	Solid	5030C	
885-20279-2 MSD	S-15	Total/NA	Solid	5030C	

Analysis Batch: 21265

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-20279-1	S-14	Total/NA	Solid	8015M/D	21234
885-20279-2	S-15	Total/NA	Solid	8015M/D	21234
885-20279-3	S-16	Total/NA	Solid	8015M/D	21234
MB 885-21234/1-A	Method Blank	Total/NA	Solid	8015M/D	21234
LCS 885-21234/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	21234
885-20279-1 MS	S-14	Total/NA	Solid	8015M/D	21234
885-20279-1 MSD	S-14	Total/NA	Solid	8015M/D	21234

Analysis Batch: 21400

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-20279-1	S-14	Total/NA	Solid	8021B	21234
885-20279-2	S-15	Total/NA	Solid	8021B	21234
885-20279-3	S-16	Total/NA	Solid	8021B	21234
MB 885-21234/1-A	Method Blank	Total/NA	Solid	8021B	21234
LCS 885-21234/3-A	Lab Control Sample	Total/NA	Solid	8021B	21234
885-20279-2 MS	S-15	Total/NA	Solid	8021B	21234
885-20279-2 MSD	S-15	Total/NA	Solid	8021B	21234

GC Semi VOA

Prep Batch: 21240

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-20279-1	S-14	Total/NA	Solid	SHAKE	
885-20279-2	S-15	Total/NA	Solid	SHAKE	
885-20279-3	S-16	Total/NA	Solid	SHAKE	
MB 885-21240/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-21240/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
885-20279-1 MS	S-14	Total/NA	Solid	SHAKE	
885-20279-1 MSD	S-14	Total/NA	Solid	SHAKE	

Analysis Batch: 21272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-20279-1	S-14	Total/NA	Solid	8015M/D	21240
885-20279-2	S-15	Total/NA	Solid	8015M/D	21240
885-20279-3	S-16	Total/NA	Solid	8015M/D	21240
MB 885-21240/1-A	Method Blank	Total/NA	Solid	8015M/D	21240
LCS 885-21240/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	21240
885-20279-1 MS	S-14	Total/NA	Solid	8015M/D	21240

Eurofins Albuquerque

QC Association Summary

Client: Ensolum
Project/Site: Brookhaven A #2A PC

Job ID: 885-20279-1

GC Semi VOA (Continued)

Analysis Batch: 21272 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-20279-1 MSD	S-14	Total/NA	Solid	8015M/D	21240

HPLC/IC

Analysis Batch: 21296

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-20279-1	S-14	Total/NA	Solid	300.0	21353
885-20279-2	S-15	Total/NA	Solid	300.0	21353
885-20279-3	S-16	Total/NA	Solid	300.0	21353
MB 885-21353/1-A	Method Blank	Total/NA	Solid	300.0	21353
LCS 885-21353/2-A	Lab Control Sample	Total/NA	Solid	300.0	21353

Prep Batch: 21353

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-20279-1	S-14	Total/NA	Solid	300_Prep	
885-20279-2	S-15	Total/NA	Solid	300_Prep	
885-20279-3	S-16	Total/NA	Solid	300_Prep	
MB 885-21353/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-21353/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Lab Chronicle

Client: Ensolum
Project/Site: Brookhaven A #2A PC

Job ID: 885-20279-1

Client Sample ID: S-14
Date Collected: 02/20/25 12:00
Date Received: 02/21/25 07:18

Lab Sample ID: 885-20279-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			21234	JP	EET ALB	02/21/25 10:28
Total/NA	Analysis	8015M/D		1	21265	JP	EET ALB	02/23/25 17:00
Total/NA	Prep	5030C			21234	JP	EET ALB	02/21/25 10:28
Total/NA	Analysis	8021B		1	21400	AT	EET ALB	02/25/25 01:16
Total/NA	Prep	SHAKE			21240	MI	EET ALB	02/21/25 11:36
Total/NA	Analysis	8015M/D		1	21272	MI	EET ALB	02/24/25 20:36
Total/NA	Prep	300_Prep			21353	KB	EET ALB	02/24/25 17:11
Total/NA	Analysis	300.0		20	21296	ES	EET ALB	02/25/25 01:20

Client Sample ID: S-15
Date Collected: 02/20/25 12:05
Date Received: 02/21/25 07:18

Lab Sample ID: 885-20279-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			21234	JP	EET ALB	02/21/25 10:28
Total/NA	Analysis	8015M/D		1	21265	JP	EET ALB	02/23/25 18:14
Total/NA	Prep	5030C			21234	JP	EET ALB	02/21/25 10:28
Total/NA	Analysis	8021B		1	21400	AT	EET ALB	02/25/25 01:38
Total/NA	Prep	SHAKE			21240	MI	EET ALB	02/21/25 11:36
Total/NA	Analysis	8015M/D		1	21272	MI	EET ALB	02/24/25 21:09
Total/NA	Prep	300_Prep			21353	KB	EET ALB	02/24/25 17:11
Total/NA	Analysis	300.0		20	21296	ES	EET ALB	02/25/25 01:56

Client Sample ID: S-16
Date Collected: 02/20/25 12:10
Date Received: 02/21/25 07:18

Lab Sample ID: 885-20279-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			21234	JP	EET ALB	02/21/25 10:28
Total/NA	Analysis	8015M/D		1	21265	JP	EET ALB	02/23/25 19:27
Total/NA	Prep	5030C			21234	JP	EET ALB	02/21/25 10:28
Total/NA	Analysis	8021B		1	21400	AT	EET ALB	02/25/25 02:44
Total/NA	Prep	SHAKE			21240	MI	EET ALB	02/21/25 11:36
Total/NA	Analysis	8015M/D		1	21272	MI	EET ALB	02/24/25 21:20
Total/NA	Prep	300_Prep			21353	KB	EET ALB	02/24/25 17:11
Total/NA	Analysis	300.0		20	21296	ES	EET ALB	02/25/25 02:08

Laboratory References:
EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Brookhaven A #2A PC

Job ID: 885-20279-1

Laboratory: Eurofins Albuquerque

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	NM100001	02-25-25

- 1
- 2
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- 10
- 11

Chain-of-Custody Record

Client: Ensaluna, LLC

Mailing Address: 606 S. Rio Grande, Suite A

Phone #: 505-279-8740

email or Fax#: www.hallenvironmental.com

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

Accreditation: ☐ AZ Compliance ☐ NELAC ☐ Other

☐ EDD (Type) _____

Turn-Around Time: 3 Day

Project Name: Brookhaven A #2APC

Project #: SEE NOTES

Project Manager: K. Summers

Sampler: L. Daniels

On Ice: ☒ Yes ☐ No

of Coolers: 1

Cooler Temp (including container): 40.9 (°C)

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
2/20/25	12:00	S	BF-5-14	14oz jar	cool	
2/20/25	12:00	S	S-15	14oz jar	cool	
2/20/25	12:10	S	S-16	14oz jar	cool	
2/20/25	12:10	S	S-17	14oz jar	cool	
2/20/25	12:10	S	S-18	14oz jar	cool	
2/20/25	12:10	S	S-19	14oz jar	cool	
2/20/25	12:10	S	S-20	14oz jar	cool	
2/20/25	12:10	S	S-21	14oz jar	cool	
2/20/25	12:10	S	S-22	14oz jar	cool	
2/20/25	12:10	S	S-23	14oz jar	cool	
2/20/25	12:10	S	S-24	14oz jar	cool	
2/20/25	12:10	S	S-25	14oz jar	cool	
2/20/25	12:10	S	S-26	14oz jar	cool	
2/20/25	12:10	S	S-27	14oz jar	cool	
2/20/25	12:10	S	S-28	14oz jar	cool	
2/20/25	12:10	S	S-29	14oz jar	cool	
2/20/25	12:10	S	S-30	14oz jar	cool	
2/20/25	12:10	S	S-31	14oz jar	cool	
2/20/25	12:10	S	S-32	14oz jar	cool	
2/20/25	12:10	S	S-33	14oz jar	cool	
2/20/25	12:10	S	S-34	14oz jar	cool	
2/20/25	12:10	S	S-35	14oz jar	cool	
2/20/25	12:10	S	S-36	14oz jar	cool	
2/20/25	12:10	S	S-37	14oz jar	cool	
2/20/25	12:10	S	S-38	14oz jar	cool	
2/20/25	12:10	S	S-39	14oz jar	cool	
2/20/25	12:10	S	S-40	14oz jar	cool	
2/20/25	12:10	S	S-41	14oz jar	cool	
2/20/25	12:10	S	S-42	14oz jar	cool	
2/20/25	12:10	S	S-43	14oz jar	cool	
2/20/25	12:10	S	S-44	14oz jar	cool	
2/20/25	12:10	S	S-45	14oz jar	cool	
2/20/25	12:10	S	S-46	14oz jar	cool	
2/20/25	12:10	S	S-47	14oz jar	cool	
2/20/25	12:10	S	S-48	14oz jar	cool	
2/20/25	12:10	S	S-49	14oz jar	cool	
2/20/25	12:10	S	S-50	14oz jar	cool	
2/20/25	12:10	S	S-51	14oz jar	cool	
2/20/25	12:10	S	S-52	14oz jar	cool	
2/20/25	12:10	S	S-53	14oz jar	cool	
2/20/25	12:10	S	S-54	14oz jar	cool	
2/20/25	12:10	S	S-55	14oz jar	cool	
2/20/25	12:10	S	S-56	14oz jar	cool	
2/20/25	12:10	S	S-57	14oz jar	cool	
2/20/25	12:10	S	S-58	14oz jar	cool	
2/20/25	12:10	S	S-59	14oz jar	cool	
2/20/25	12:10	S	S-60	14oz jar	cool	
2/20/25	12:10	S	S-61	14oz jar	cool	
2/20/25	12:10	S	S-62	14oz jar	cool	
2/20/25	12:10	S	S-63	14oz jar	cool	
2/20/25	12:10	S	S-64	14oz jar	cool	
2/20/25	12:10	S	S-65	14oz jar	cool	
2/20/25	12:10	S	S-66	14oz jar	cool	
2/20/25	12:10	S	S-67	14oz jar	cool	
2/20/25	12:10	S	S-68	14oz jar	cool	
2/20/25	12:10	S	S-69	14oz jar	cool	
2/20/25	12:10	S	S-70	14oz jar	cool	
2/20/25	12:10	S	S-71	14oz jar	cool	
2/20/25	12:10	S	S-72	14oz jar	cool	
2/20/25	12:10	S	S-73	14oz jar	cool	
2/20/25	12:10	S	S-74	14oz jar	cool	
2/20/25	12:10	S	S-75	14oz jar	cool	
2/20/25	12:10	S	S-76	14oz jar	cool	
2/20/25	12:10	S	S-77	14oz jar	cool	
2/20/25	12:10	S	S-78	14oz jar	cool	
2/20/25	12:10	S	S-79	14oz jar	cool	
2/20/25	12:10	S	S-80	14oz jar	cool	
2/20/25	12:10	S	S-81	14oz jar	cool	
2/20/25	12:10	S	S-82	14oz jar	cool	
2/20/25	12:10	S	S-83	14oz jar	cool	
2/20/25	12:10	S	S-84	14oz jar	cool	
2/20/25	12:10	S	S-85	14oz jar	cool	
2/20/25	12:10	S	S-86	14oz jar	cool	
2/20/25	12:10	S	S-87	14oz jar	cool	
2/20/25	12:10	S	S-88	14oz jar	cool	
2/20/25	12:10	S	S-89	14oz jar	cool	
2/20/25	12:10	S	S-90	14oz jar	cool	
2/20/25	12:10	S	S-91	14oz jar	cool	
2/20/25	12:10	S	S-92	14oz jar	cool	
2/20/25	12:10	S	S-93	14oz jar	cool	
2/20/25	12:10	S	S-94	14oz jar	cool	
2/20/25	12:10	S	S-95	14oz jar	cool	
2/20/25	12:10	S	S-96	14oz jar	cool	
2/20/25	12:10	S	S-97	14oz jar	cool	
2/20/25	12:10	S	S-98	14oz jar	cool	
2/20/25	12:10	S	S-99	14oz jar	cool	
2/20/25	12:10	S	S-100	14oz jar	cool	

Relinquished by: [Signature] Date: 2/20/25 Time: 1521

Relinquished by: [Signature] Date: 2/20/25 Time: 1119

Received by: Chadwick Date: 2/20/25 Time: 1521

Received by: [Signature] Date: 2/20/25 Time: 7118

Remarks: PM Tom Long RB21200 MS930

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.

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 885-20279-1

Login Number: 20279

List Number: 1

Creator: Casarrubias, Tracy

List Source: Eurofins Albuquerque

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

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QUESTIONS

Action 459653

QUESTIONS

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 459653
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2432426402
Incident Name	NAPP2432426402 BROOKHAVEN A#2A PC @ 0
Incident Type	Natural Gas Release
Incident Status	Reclamation Report Received

Location of Release Source	
Please answer all the questions in this group.	
Site Name	BROOKHAVEN A#2A PC
Date Release Discovered	11/19/2024
Surface Owner	State

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Cause: Corrosion Pipeline (Any) Condensate Released: 5 BBL Recovered: 0 BBL Lost: 5 BBL.
Natural Gas Vented (Mcf) Details	Cause: Corrosion Pipeline (Any) Natural Gas Vented Released: 1 MCF Recovered: 0 MCF Lost: 1 MCF.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 459653

QUESTIONS (continued)

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 459653
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

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

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	<i>Not answered.</i>

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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

I hereby agree and sign off to the above statement	Name: Thomas Long Title: Sr Field Environmental Scientist Email: tjlong@eprod.com Date: 11/27/2024
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QUESTIONS, Page 3

Action 459653

QUESTIONS (continued)

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 459653
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Site Characterization	
<i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 51 and 75 (ft.)
What method was used to determine the depth to ground water	OCD Imaging Records Lookup
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 100 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 300 and 500 (ft.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between 1000 (ft.) and ½ (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	60
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	60
GRO+DRO (EPA SW-846 Method 8015M)	11
BTEX (EPA SW-846 Method 8021B or 8260B)	0.5
Benzene (EPA SW-846 Method 8021B or 8260B)	0.1
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	11/19/2024
On what date will (or did) the final sampling or liner inspection occur	02/20/2025
On what date will (or was) the remediation complete(d)	02/20/2025
What is the estimated surface area (in square feet) that will be reclaimed	1126
What is the estimated volume (in cubic yards) that will be reclaimed	1268
What is the estimated surface area (in square feet) that will be remediated	1126
What is the estimated volume (in cubic yards) that will be remediated	1268
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 4

Action 459653

QUESTIONS (continued)

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 459653
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	ENVIROTECH LANDFARM #1 [FEEM0112334691]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Thomas Long Title: Sr Field Environmental Scientist Email: tjlong@eprod.com Date: 05/07/2025
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 459653

QUESTIONS (continued)

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 459653
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

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

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QUESTIONS, Page 6

Action 459653

QUESTIONS (continued)

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 459653
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	432961
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/20/2025
What was the (estimated) number of samples that were to be gathered	3
What was the sampling surface area in square feet	200

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	1126
What was the total volume (cubic yards) remediated	1268
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	1126
What was the total volume (in cubic yards) reclaimed	1268
Summarize any additional remediation activities not included by answers (above)	None

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

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

I hereby agree and sign off to the above statement	Name: Thomas Long Title: Sr Field Environmental Scientist Email: tjlong@eprod.com Date: 05/07/2025
--	---

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QUESTIONS, Page 7

Action 459653

QUESTIONS (continued)

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 459653
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Reclamation Report	
<i>Only answer the questions in this group if all reclamation steps have been completed.</i>	
Requesting a reclamation approval with this submission	Yes
What was the total reclamation surface area (in square feet) for this site	1126
What was the total volume of replacement material (in cubic yards) for this site	1268
<i>Per Paragraph (1) of Subsection D of 19.15.29.13 NMAC the reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. The soil cover must include a top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater.</i>	
Is the soil top layer complete and is it suitable material to establish vegetation	Yes
On what (estimated) date will (or was) the reseeded commence(d)	07/01/2025
Summarize any additional reclamation activities not included by answers (above)	None
<i>The responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseeded plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 NMAC.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.	
I hereby agree and sign off to the above statement	Name: Thomas Long Title: Sr Field Environmental Scientist Email: tjlong@eprod.com Date: 05/07/2025

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QUESTIONS, Page 8

Action 459653

QUESTIONS (continued)

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 459653
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Revegetation Report	
<i>Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.</i>	
Requesting a restoration complete approval with this submission	No
<i>Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.</i>	

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CONDITIONS

Action 459653

CONDITIONS

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 459653
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

CONDITIONS

Created By	Condition	Condition Date
scwells	Reclamation approved. Operator failed to provide proper Sampling Notification pursuant to 19.15.29.12.D.(1).(a) NMAC. Failure to provide proper sampling notice is a compliance issue and the OCD may pursue compliance actions pursuant to 19.15.5 NMAC. Operator shall ensure future compliance with 19.15.29.12.D.(1).(a) NMAC. The C-141N submitted for 12/6/24 confirmation samples was submitted after the fact. Provide two business days' notice prior to collecting confirmation samples so that an OCD representative may plan to be onsite to witness sampling.	5/20/2025