



CLOSURE REPORT

Property:

San Juan 28-6 #22A (10/01/24)
Unit Letter O, S08 T27N R06W
Rio Arriba County, New Mexico

New Mexico EMNRD OCD Incident ID No. NAPP2427549504

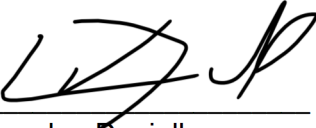
March 10, 2025

Ensolum Project No. 05A1226347

Prepared for:

Enterprise Field Services, LLC
614 Reilly Avenue
Farmington, NM 87401
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1.0 INTRODUCTION

1.1 Site Description & Background

Operator:	Enterprise Field Services, LLC / Enterprise Products Operating LLC (Enterprise)
Site Name:	San Juan 28-6 #22A (10/01/24) (Site)
NM EMNRD OCD Incident ID No.	NAPP2427549504
Location:	36.583896° North, 107.486155° West Unit Letter O, Section 08, Township 27 North, Range 06 West Rio Arriba County, New Mexico
Property:	Bureau of Land Management (BLM)
Regulatory:	New Mexico (NM) Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

On September 26, 2024, a potential release of natural gas was identified from the San Juan 28-6 #22A pipeline. Enterprise subsequently isolated and locked the pipeline out of service. On October 1, 2024, Enterprise initiated activities to evaluate the pipeline. Additionally, Enterprise determined the release was “reportable” due to the potential volume of impacted soil. The NM EMNRD OCD was subsequently notified.

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

1.2 Project Objective

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

2.0 CLOSURE CRITERIA

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

- The NM Office of the State Engineer (OSE) tracks the usage and assignment of water rights and water well installations and records this information in the Water Rights Reporting System (WRRS) database. Water wells and other points of diversion (PODs) are each assigned POD numbers in the database (which is searchable and includes an interactive map). No PODs were identified in the same Public Land Survey System (PLSS) section as the Site. Two PODs were identified in the adjacent PLSS sections. The documentation for POD SJ-03001 (POD1 and POD2) indicates an average depth to water of 43 feet below grade surface (bgs). These PODs are approximately 1.15 miles northwest of the Site and 318 feet lower in elevation than the Site (**Figure A, Appendix B**).

- Numerous cathodic protection wells (CPWs) were identified in the NM EMNRD OCD imaging database in the same or adjacent PLSS sections (**Figure B, Appendix B**). Documentation for the cathodic protection well located near the San Juan 28-6 Unit #22 A production pad indicates a depth to water of 300' feet bgs. This cathodic protection well is located approximately 0.05 miles southwest of the Site and is approximately 6 feet lower in elevation than the Site. Documentation for the cathodic protection well located near the San Juan 28-6 Unit #23, #96, and #112 production pads indicates a depth to water of approximately 100 feet bgs. This cathodic protection well is located approximately 0.46 miles east of the Site and is approximately 14 feet lower in elevation than the Site. Documentation for the cathodic protection well located near the San Juan 28-6 Unit #53 and #104 production pads indicates a depth to water of approximately 80 feet bgs. This cathodic protection well is located approximately 0.48 miles west of the Site and is approximately 269 feet lower in elevation than the Site.
- The Site is located within 300 feet of a NM EMNRD OCD-defined continuously flowing watercourse or significant watercourse (**Figure C, Appendix B**). The Site is 20 feet from 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 an 'Intermittently Flooded' (J) riverine, which are not generally designated as wetlands in this region.
- Based on information identified in the NM Mining and Minerals Division's Geographic Information System (GIS) Maps and Mine Data database, the Site is not within an area overlying a subsurface mine (**Figure G, Appendix B**).
- The Site is not located within an unstable area per Paragraph (6) of Subsection U of 19.15.2.7 NMAC.
- Based on information provided by the Federal Emergency Management Agency (FEMA) National Flood Hazard Layer (NFHL) geospatial database, the Site is not within a 100-year floodplain (**Figure H, Appendix B**).

Based on available information the Site is located within 300 feet of a NM EMNRD OCD-defined continuously flowing watercourse 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 October 1, 2024, Enterprise initiated activities to evaluate the pipeline. Additionally, Enterprise determined the release was “reportable” due to the potential volume of impacted soil. 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 final excavation measured approximately 24 feet long and 12 feet wide at the maximum extents. The average maximum depth of the excavation measured approximately 10 feet bgs, with a footprint of approximately 288 ft². The lithology encountered during the completion of remediation activities consisted primarily of silty sandy clay.

Approximately 150 cubic yards (yd³) of petroleum hydrocarbon-affected soils and 10 barrels (bbls) of water and hydro-excavated soil cuttings 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 eight composite soil samples (S-1 through S-8) 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 October 3, 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 (10’) and S-2 (10’) were collected from the floor of the excavation. Composite soil samples S-3 (0’ to 10’), S-4 (0’ to 10’), S-5 (0’ to 10’), S-6 (0’ to 10’), S-7 (0’ to 10’), and S-8 (0’ to 10’) were collected from walls of the excavation.

Second Sampling Event

On January 21, 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.

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-8 and BF-1) to the applicable NM EMNRD OCD closure criteria. Due to the high PQLs/RLs associated with TPH MRO results when using EPA SW-846 Method 8015, Ensolum only compared the quantified TPH results to the New Mexico EMNRD OCD closure criteria. The laboratory analytical results are summarized in **Table 1 (Appendix F)**.

- The laboratory analytical results for the composite soil samples indicate that benzene is not present in soils remaining at the Site at concentrations greater than the laboratory PQLs/RLs, which are less than the NM EMNRD OCD closure criteria of 10 mg/kg.
- The laboratory analytical results for the composite soil samples indicate total BTEX is not present in soils remaining at the Site at concentrations greater than the laboratory PQLs/RLs, which are less than the NM EMNRD OCD closure criteria of 50 mg/kg.
- The laboratory analytical results for the composite soil samples indicate total combined TPH GRO/DRO/MRO is not present in soils remaining at the Site at concentrations greater than the laboratory PQLs/RLs, which are less than the NM EMNRD OCD closure criteria of 100 mg/kg.
- The laboratory analytical results for the composite soil samples indicate that chloride is not present in soils remaining at the Site at concentrations greater than the laboratory PQLs/RLs, which are 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 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 flood-plain/wash vegetation appears to be predominantly of the 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

- Nine composite soil samples were collected from the Site and imported backfill. 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 150 yd³ of petroleum hydrocarbon-affected soils and 10 bbls of water and hydro-excavated soil cuttings 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.

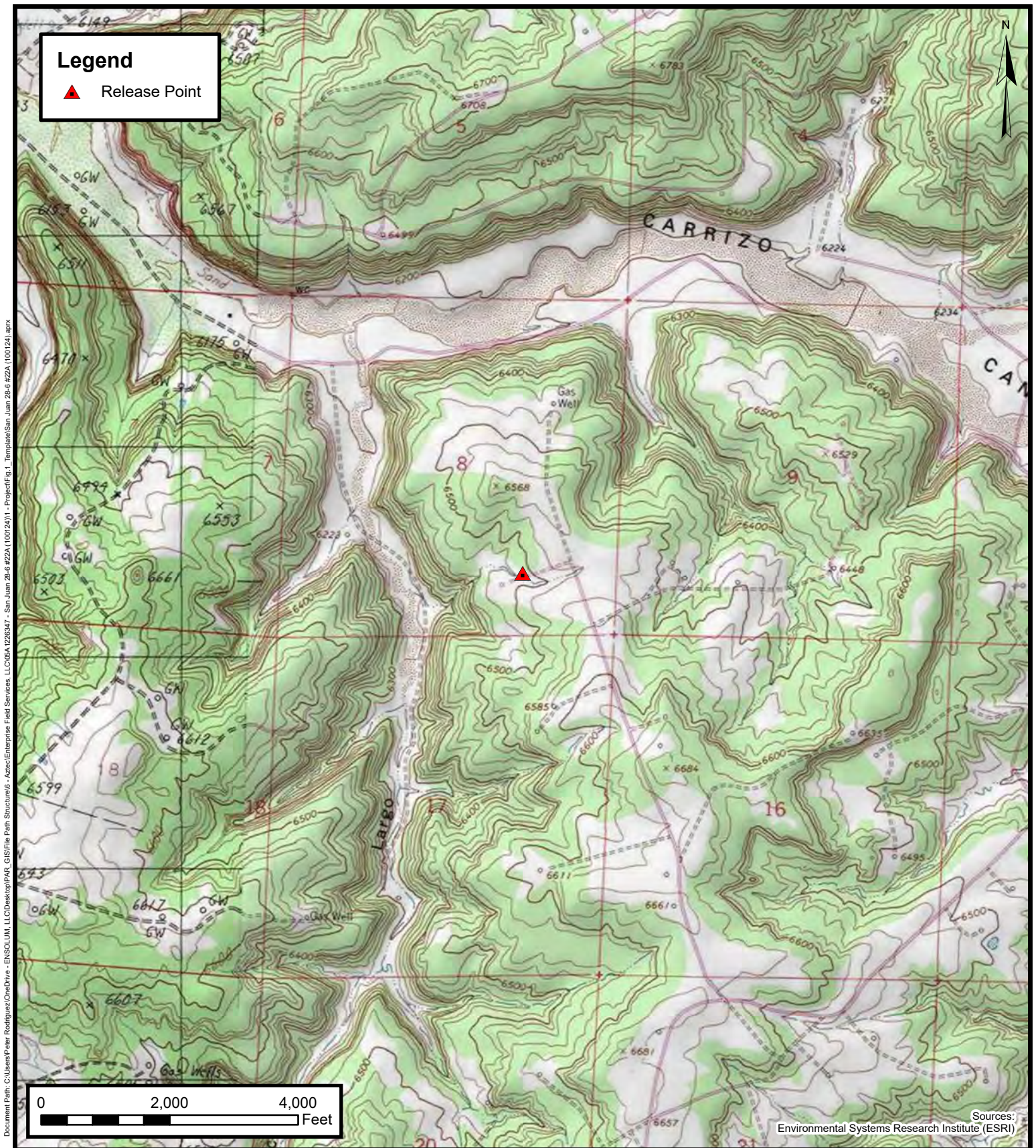
10.3 Reliance

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



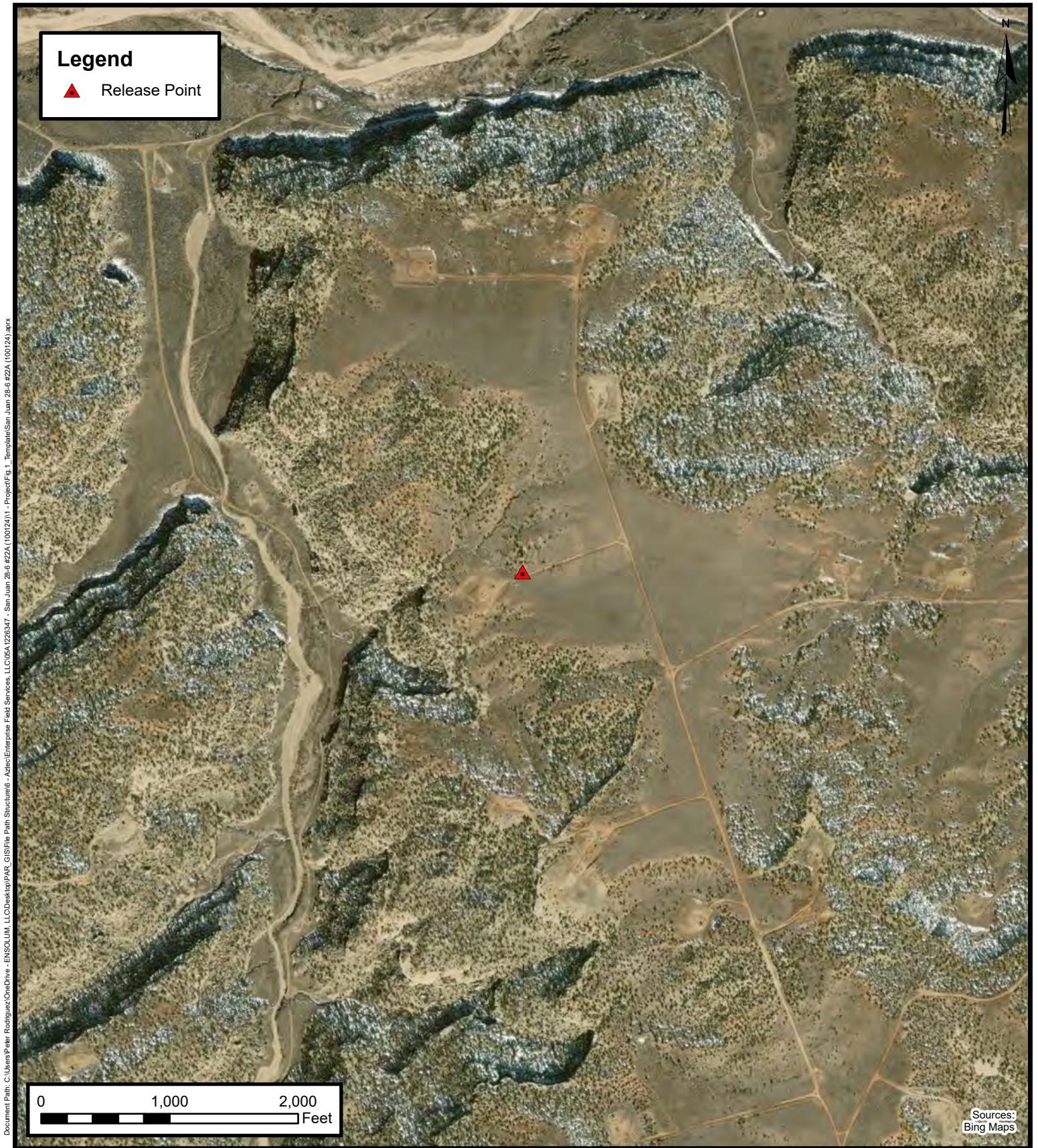
Topographic Map

Enterprise Field Services, LLC
San Juan 28-6 #22A (10/01/24)
Project Number: 05A1226347

Unit Letter O, S8 T27N R6W, Rio Arriba County, New Mexico
36.583896, -107.486155

FIGURE

1



Site Vicinity Map





Enterprise Field Services, LLC
San Juan 28-6 #22A (10/01/24)
Project Number: 05A1226347

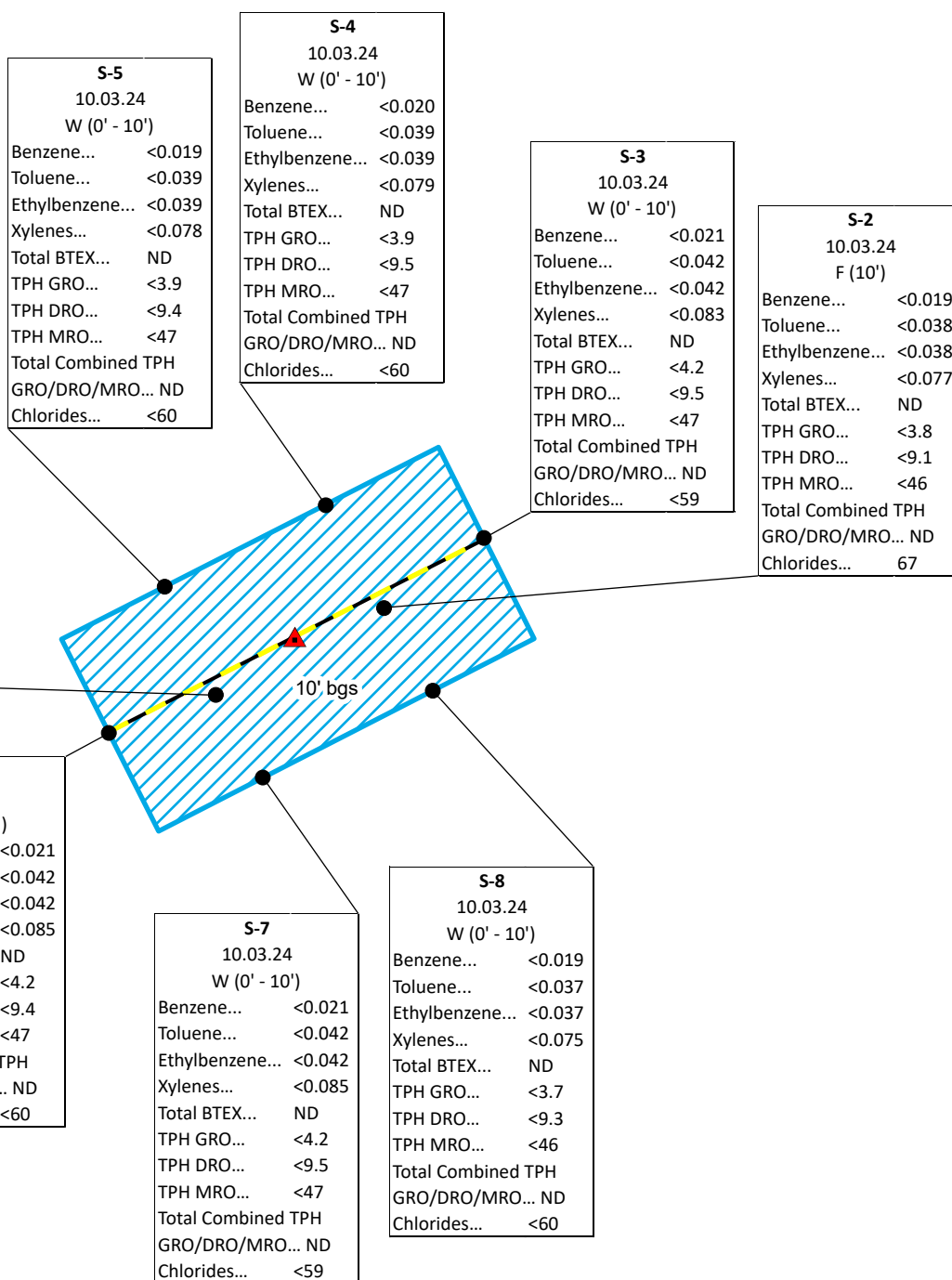
Unit Letter O, S8 T27N R6W, Rio Arriba County, New Mexico
36.583896, -107.486155

FIGURE

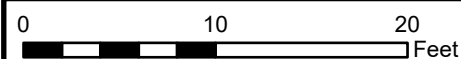
2

Legend

-  Release Point
-  Composite Soil Sample Location
-  Pipeline Location
-  Excavation Extent (0' - 10' bgs)



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

**Site Map with Soil Analytical Results**

Enterprise Field Services, LLC
San Juan 28-6 #22A (10/01/24)
Project Number: 05A1226347

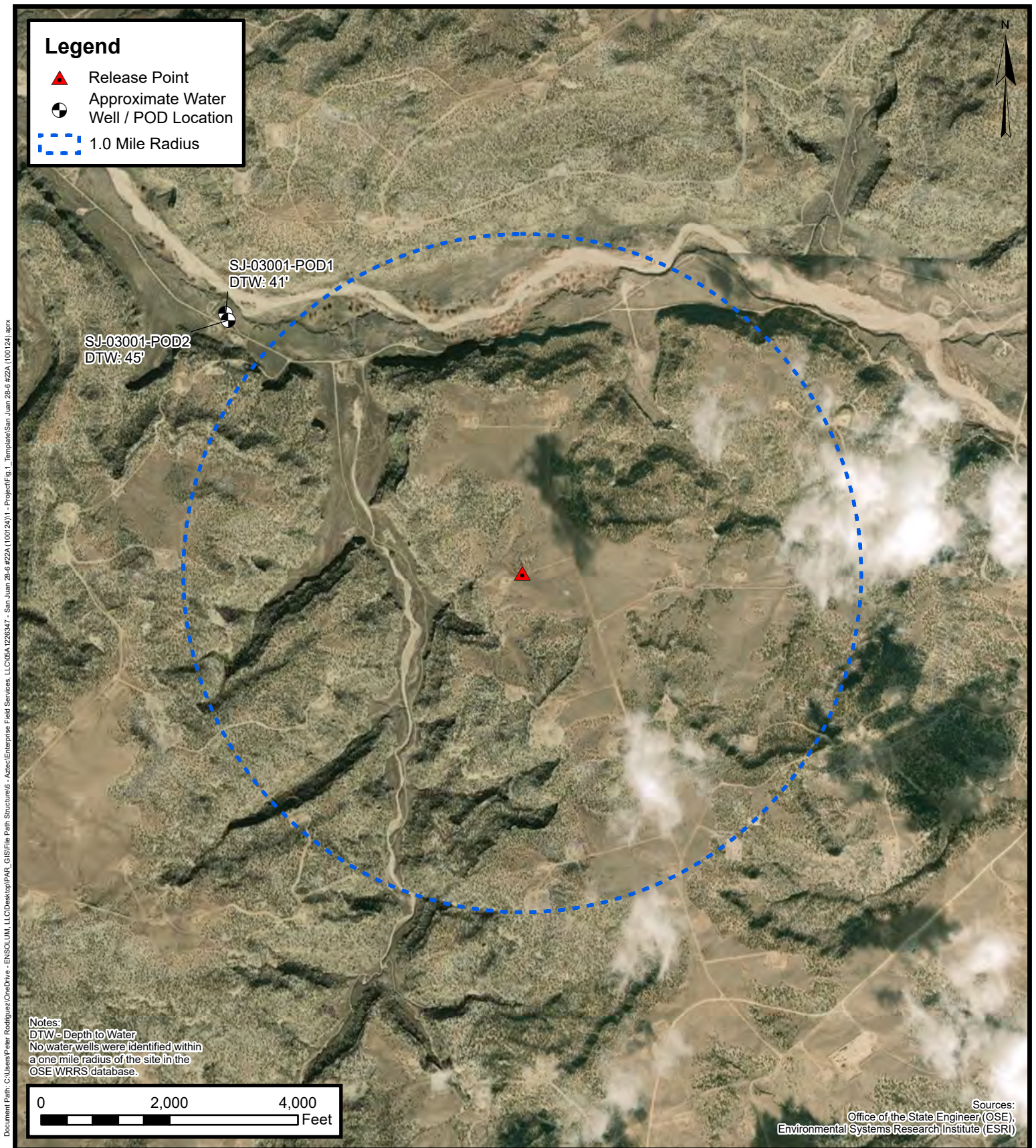
Unit Letter O, S8 T27N R6W, Rio Arriba County, New Mexico
36.583896, -107.486155

FIGURE
3



APPENDIX B

Siting Figures and Documentation

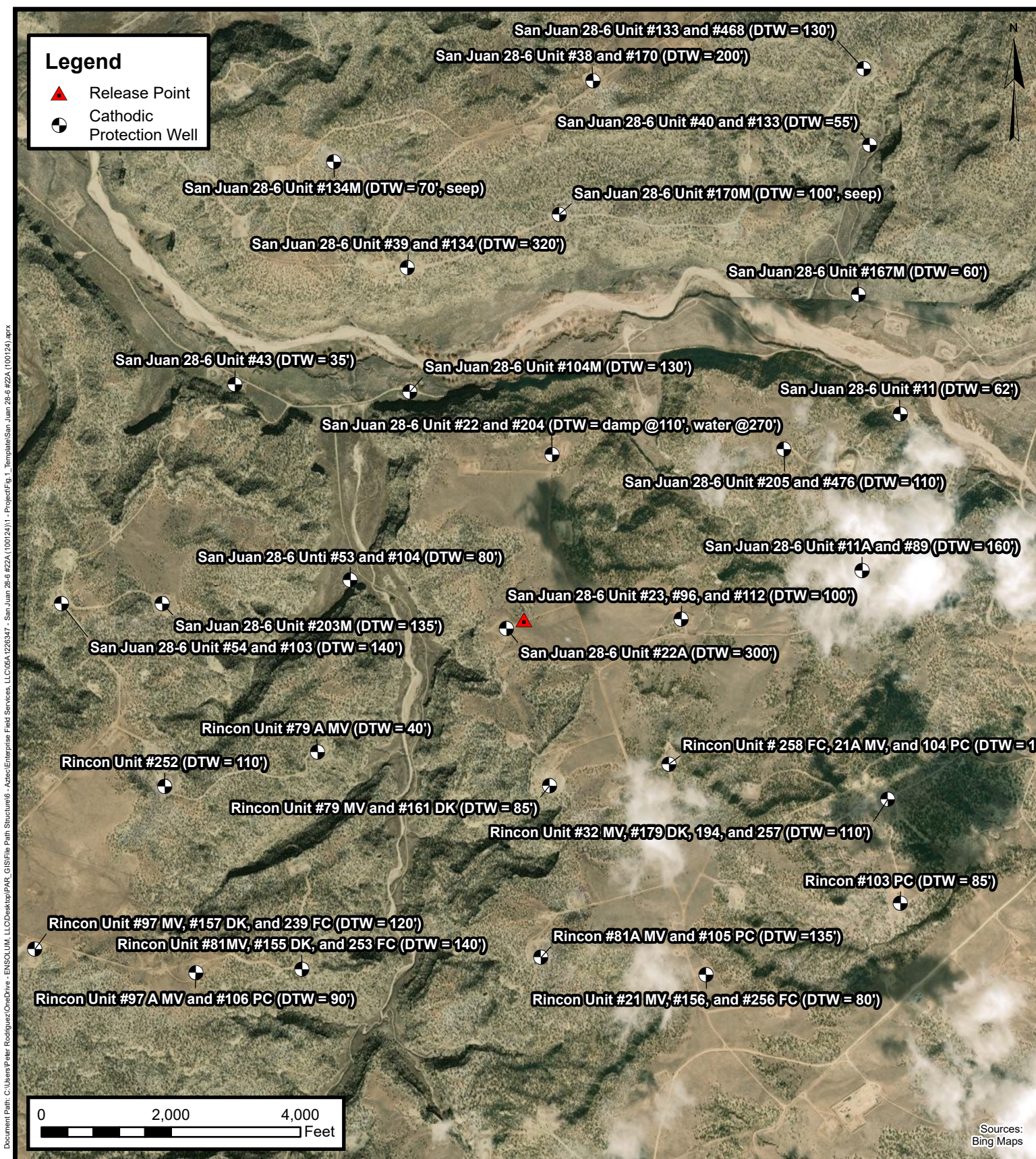


1.0 Mile Radius Water Well / POD Location Map

Enterprise Field Services, LLC
San Juan 28-6 #22A (10/01/24)
Project Number: 05A1226347

Unit Letter O, S8 T27N R6W, Rio Arriba County, New Mexico
36.583896, -107.486155

FIGURE
A

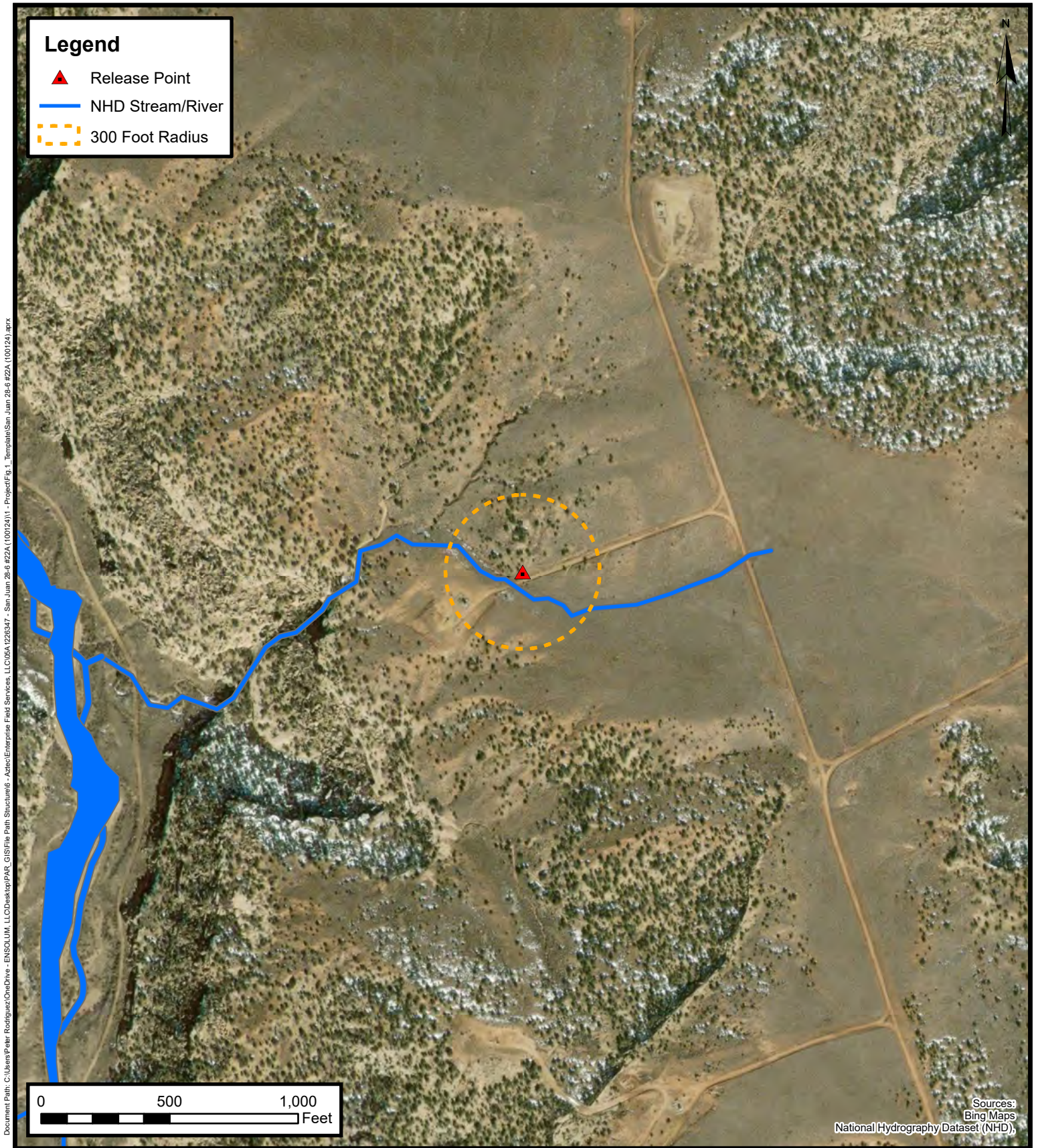


Cathodic Protection Well Recorded Depth to Water

Enterprise Field Services, LLC
San Juan 28-6 #22A (10/01/24)
Project Number: 05A1226347

Unit Letter O, S8 T27N R6W, Rio Arriba County, New Mexico
36.583986, -107.486155

FIGURE
B



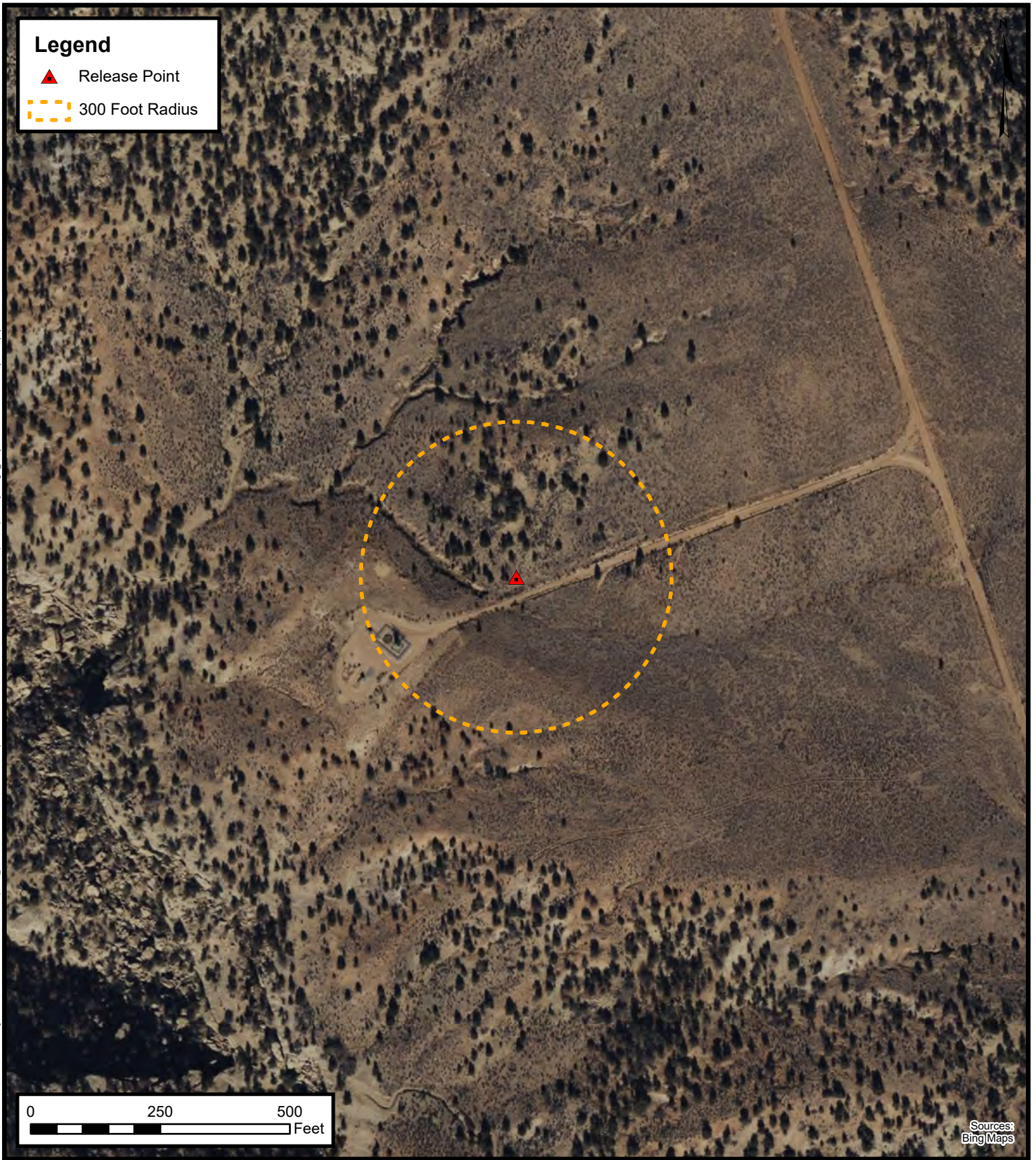
**300 Foot Radius Watercourse
and Drainage Identification**

Enterprise Field Services, LLC
San Juan 28-6 #22A (10/01/24)
Project Number: 05A1226347

Unit Letter O, S8 T27N R6W, Rio Arriba County, New Mexico
36.583896, -107.486155

**FIGURE
C**

Document Path: C:\Users\Peter.Rodriguez\OneDrive - ENSOLUM, LLC\Desktop\PAR_GIS\File Path Structure\6 - Aztec\Enterprise Field Services, LLC\05A1226347 - San Juan 28-6 #22A (100120)\1 - Project\Fig_1_Template\San Juan 28-6 #22A (100120).aprx

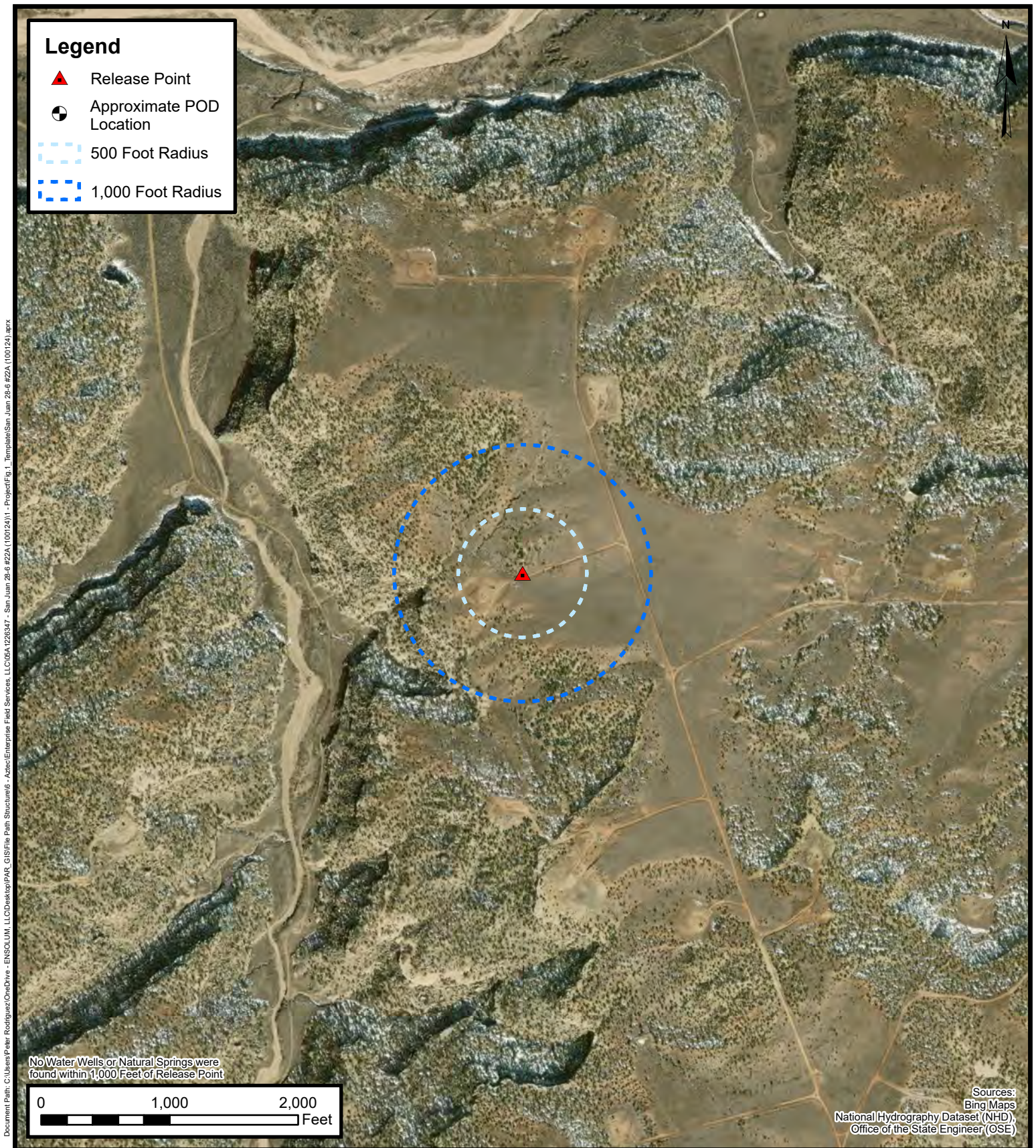


**300 Foot Radius Occupied
Structure Identification**

Enterprise Field Services, LLC
San Juan 28-6 #22A (10/01/24)
Project Number: 05A1226347

Unit Letter O, S8 T27N R6W, Rio Arriba County, New Mexico
36.583896, -107.486155

**FIGURE
D**

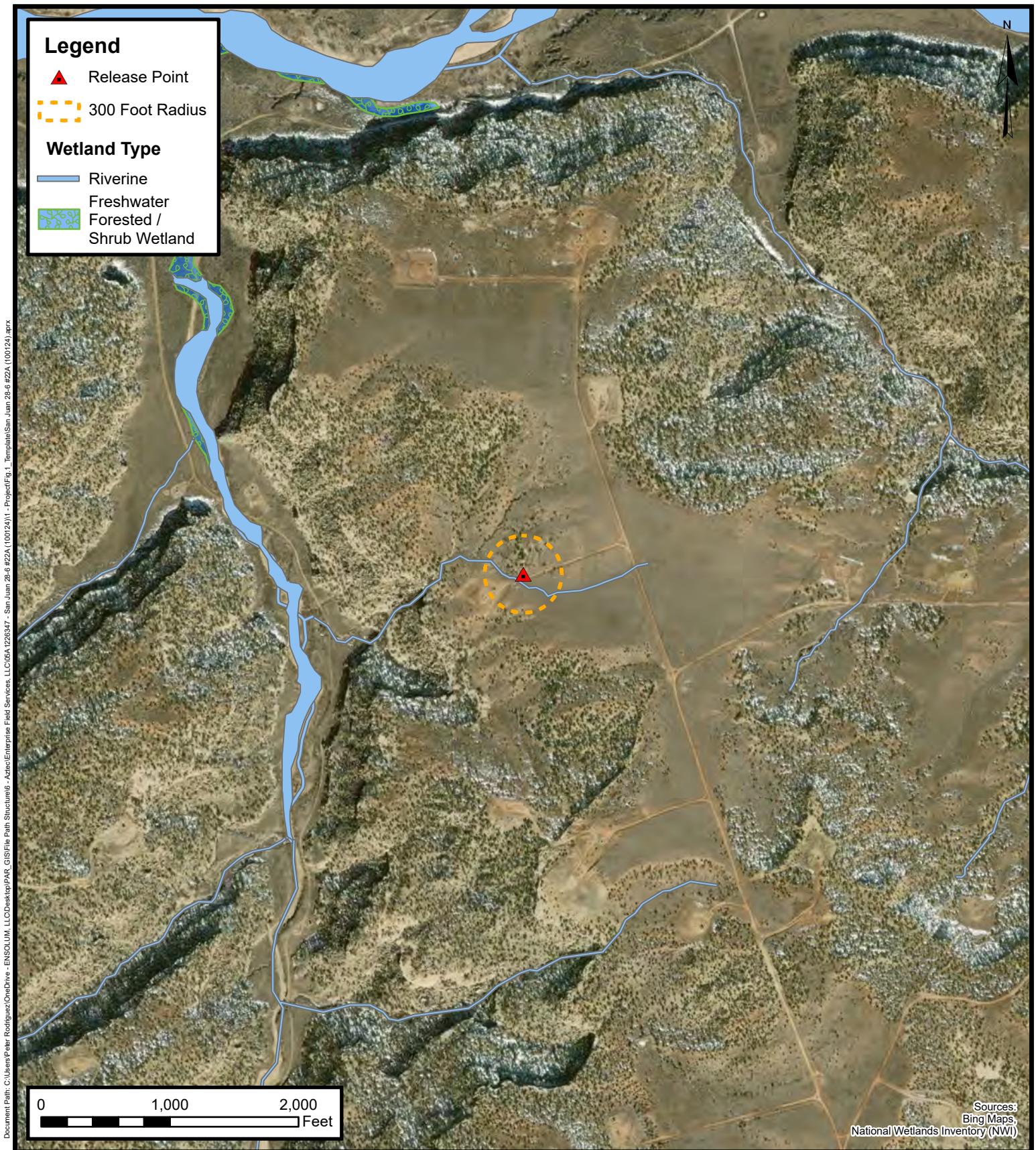


Water Well and Natural Spring Location

Enterprise Field Services, LLC
San Juan 28-6 #22A (10/01/24)
Project Number: 05A1226347

Unit Letter O, S8 T27N R6W, Rio Arriba County, New Mexico
36.583896, -107.486155

FIGURE
E

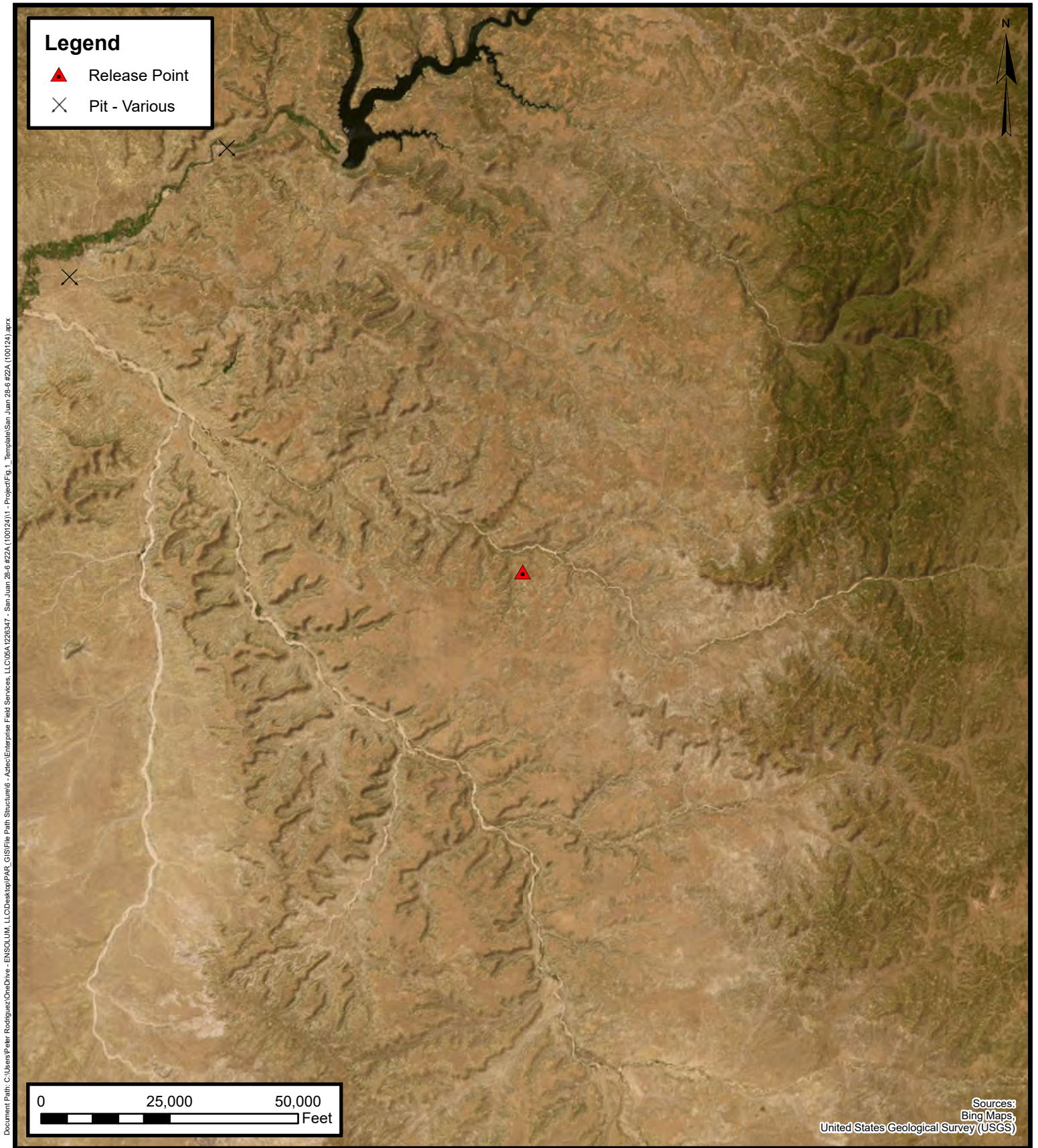


Wetlands

Enterprise Field Services, LLC
San Juan 28-6 #22A (10/01/24)
Project Number: 05A1226347

Unit Letter O, S8 T27N R6W, Rio Arriba County, New Mexico
36.583896, -107.486155

FIGURE
F

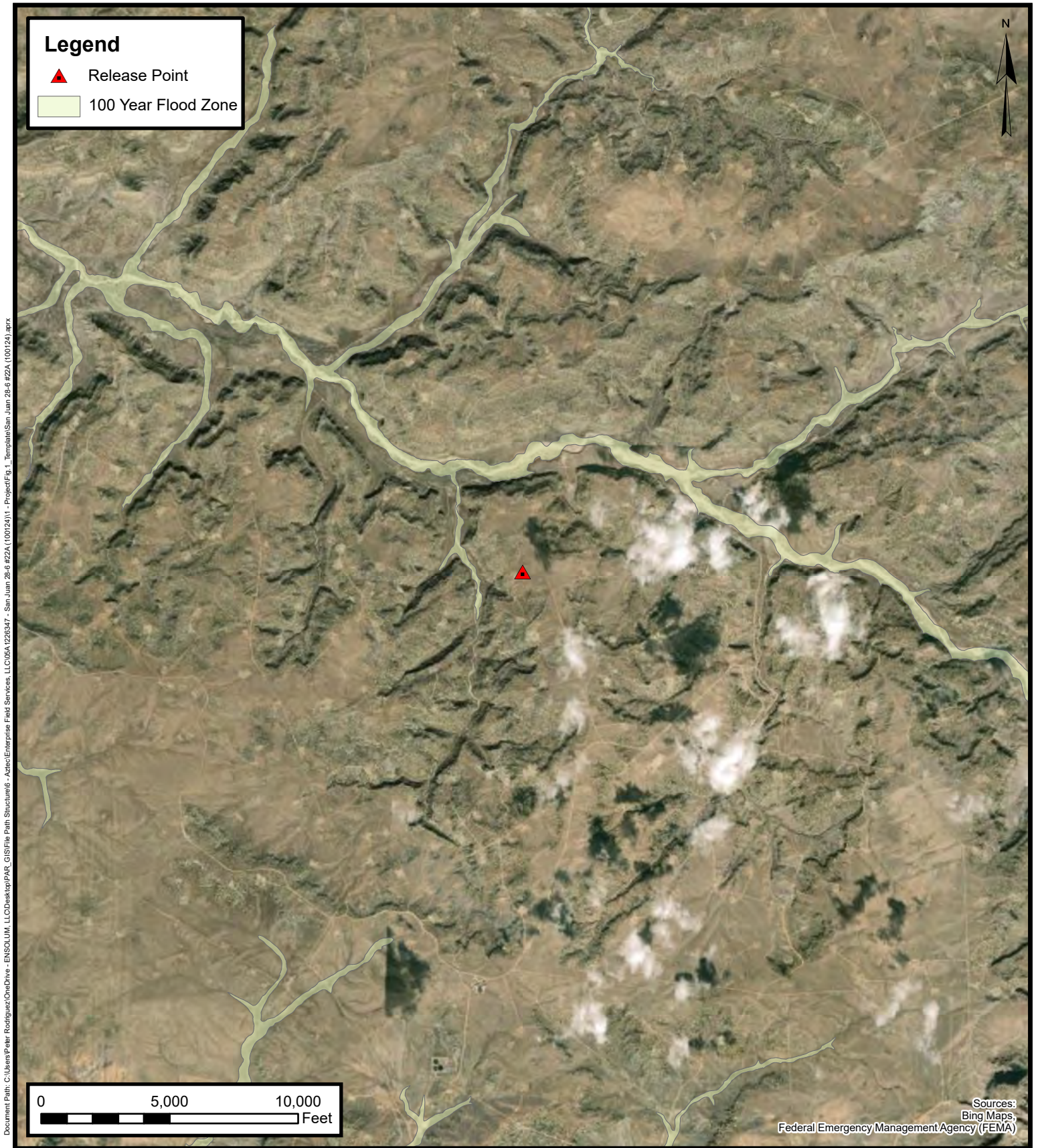


Mines, Mills, and Quarries

Enterprise Field Services, LLC
San Juan 28-6 #22A (10/01/24)
Project Number: 05A1226347

Unit Letter O, S8 T27N R6W, Rio Arriba County, New Mexico
36.583896, -107.486155

FIGURE
G



100-Year Flood Plain Map

Enterprise Field Services, LLC
San Juan 28-6 #22A (10/01/24)
Project Number: 05A1226347

Unit Letter O, S8 T27N R6W, Rio Arriba County, New Mexico
36.583896, -107.486155

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	Tws	Range	X	Y	Well Map	Depth	Water	Water Column
SJ 03001 POD1	R	SJ	RA	NW	NE	NE	07	27N	06W	276165.0	4052831.0 *		141	41	100
SJ 03001 POD2		SJ	RA	NW	NE	NE	07	27N	06W	276177.7	4052801.0		140	45	95

Average Depth to Water: 43 feet

Minimum Depth: 41 feet

Maximum Depth: 45 feet

Record Count: 2

Basin/County Search:

Basin: SJ

PLSS Search:

Range: 06W

Township: 27N

Section: 4,5,6,7,8,9,16,17,18

* 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.

1015

40-30-039-07189

133-30-039-20584

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

Operator MERIDIAN OIL Location: Unit NE Sec. 4 Twp 27 Rng 6

Name of Well/Wells or Pipeline Serviced SAN JUAN 28-6 UNIT #40, #133

cps 128lw

Elevation 6278' Completion Date 9/14/78 Total Depth 340' 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. 55' & 90'

Depths gas encountered: N/A

Type & amount of coke breeze used: 42 SACKS

Depths anodes placed: 290', 280', 270', 260', 245', 230', 215', 200', 185', 170'

Depths vent pipes placed: 300'

Vent pipe perforations: 260'

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.

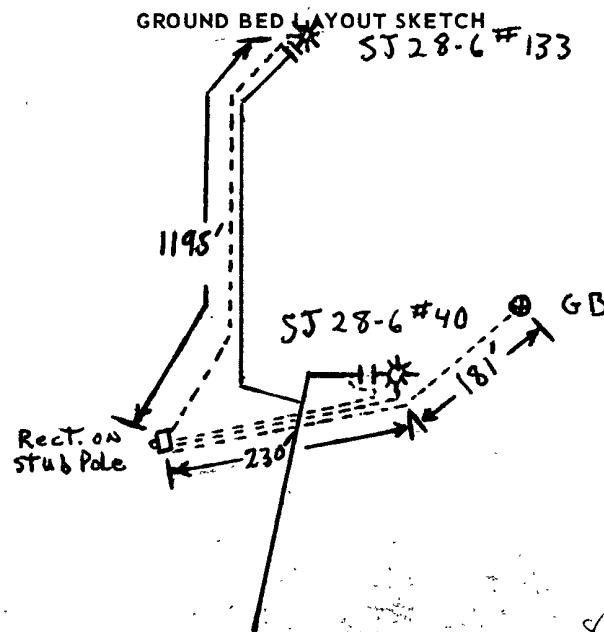
*Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee.
If Federal or Indian, add Lease Number.

WELL CASING
CATHODIC PROTECTION CONSTRUCTION REPORT
DAILY LOGDrilling Log (Attach Hereto) ☐Completion Date 9-14-78

Well Name SAN JUAN 28-6 #40 + #133				Location NE 4-27-6				CPS No. 1281 W			
Type & Size Bit Used 6 3/4				Contract # CONTRACT #2				Work Order No. 52632.19 + 20661.19			
Anode Hole Depth 340-327		Total Drilling Rig Time		Total Lbs. Coke Used 42 sacks		Lost Circulation Mat'l Used		No. Sacks Mud Used			
Anode Depth	# 1	# 2	# 3	# 4	# 5	# 6	# 7	# 8	# 9	# 10	
	290	280	270	260	245	230	215	200	185	170	
Anode Output (Amps)	# 1	# 2	# 3	# 4	# 5	# 6	# 7	# 8	# 9	# 10	
	2.6	2.7	2.5	3.3	3.2	3.5	3.0	3.2	3.5	3.2	
Anode Depth	# 11	# 12	# 13	# 14	# 15	# 16	# 17	# 18	# 19	# 20	
Anode Output (Amps)	# 11	# 12	# 13	# 14	# 15	# 16	# 17	# 18	# 19	# 20	
Total Circuit Resistance	Volts 11.9		Amps 15.4		Ohms .77		No. 8 C.P. Cable Used		No. 2 C.P. Cable Used		

Remarks: STATIC C/S #40 600'S = .88 #133 600'S E = .761606' Ditch and cable - 460' EXTRAGood water at 90' making APPROX 35 GPM INSTALLED
300 FT OF PVC PIPE WITH 260 FT OF PERFORATION
SLURRIED 42 SACKS OF COKE 1 1/2" X 60" DURIRONHole Depth - 173 FT60 V 30 A RectDITCH + cable = 1606 FTSTUB POLE

All Construction Completed

EXTRA cable = 460 FTRobert J. Bahnick
(Signature)

DISTRIBUTION:

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

Sheet: 01
Date: 9-14-71
By: RJB
File: 1281W1281W
SS 28-6 #40
SS 28-6 #133

Ne 4-28-6

52632.19
20661.19

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		250	1.9
	.3		1.9
60	.6	260	1.9 -
	.5		1.8
70	.5	270	1.5 -
	.5		1.5
80	.7	280	1.6 -
	.6		1.6
90	1.0	290	1.6 -
	.8		1.6
100	.6	300	1.3
	.5		1.2
110	.5	310	1.0
	.7		.9
120	1.0	320	.8
	.7		.7
130	.7	330	
	.6		
140	.6	340	
	.8		
150	1.2		
	.7		
160	.7		
	1.1		
170	1.8 -		
	1.8		
180	1.7		
	2.0 -		
190	2.2		
	1.9		
200	1.9 -		
	1.9		
210	1.7		
	1.9 -		
220	1.7		
	1.9		
230	2.1 -		
	1.6		
240	2.1		
	2.0 -		

DRILLER SAID WATER AT 55'
+ Big WATER AT 90'
DRILLED 340' logged
325' 327' + D
INSTALLED 300' OF VENT
Pipe - Perforated 260'
WATER APPROX 35 GPM
Hole - 500' - 327' = 173' CR
60V30A Rect
STUB POLE

1-290 - 1.8 - 2.6
2-280 - 1.8 - 2.7
3-270 - 1.7 - 2.5
4-260 - 2.2 - 3.3
5-245 - 2.1 - 3.2
6-230 - 2.3 - 3.5
7-215 - 1.9 - 3.0
8-200 - 2.1 - 3.2
9-185 - 2.3 - 3.5
10-170 - 1.9 - 3.2

TOTAL 15.4A @ 11.9V
• 77 ohms

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

Analysis No. 1-9352 Date 11-8-78

Operator _____ Well Name San Juan 28-6 #40 & 133

Location NE 4-28-6 County Rio Arriba State NM

Field _____ Formation _____

Sampled From C.P.S. 1281W

Date Sampled _____ By _____

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

Sodium 447 19

Chloride 17 0.5

Calcium 24 1

Bicarbonate 527 9

Magnesium 1 0.1

Sulfate 560 12

Iron PRESENT

Carbonate 0 0

H₂S ABSENT

Hydroxide 0 0

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

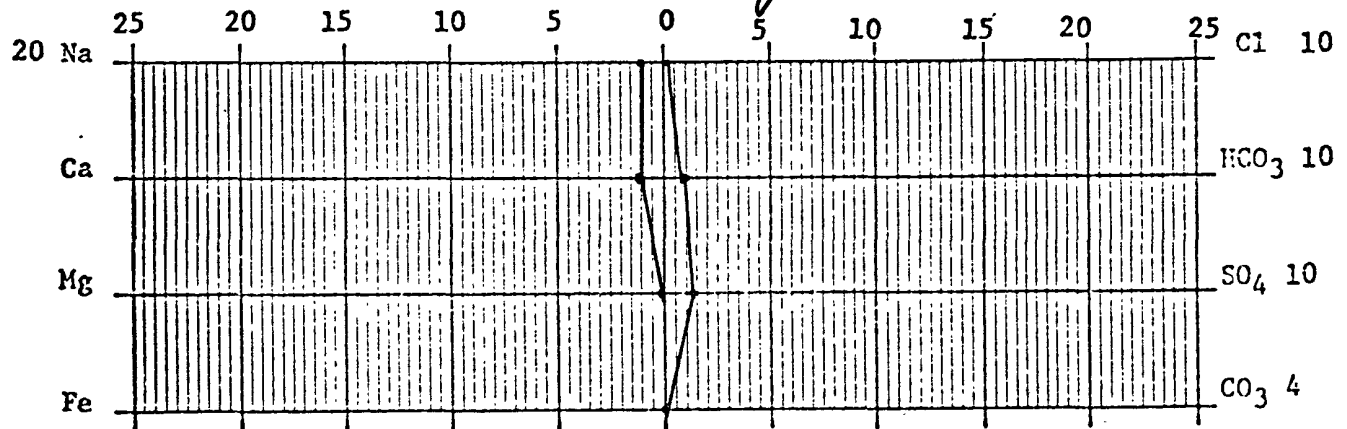
Total Solids Dissolved 1542

pH 8.5

Sp. Gr. 1.0020 at 60°F

Resistivity 640 ohm-cm at 71 °F

Joe Barnett RZE
Chemist



Scale: epm

DAILY DRILLING REPORT

LEASE		WELL NO.		CONTRACTOR		RIG NO.		REPORT NO.		DATE		19											
1281 W		1281 W		O'Brien Drilling		1		12		Sept 14		1978											
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.		BIT NO.		NO. DC		SIZE		LENG.	
SERIAL NO.		STANDS		SINGLES		DOWN ON KELLY		MAKE		TOTAL DEPTH		SERIAL NO.		STANDS		SINGLES		DOWN ON KELLY		MAKE		TOTAL DEPTH	
MUD RECORD		MUD, ADDITIVES USED AND RECEIVED		MUD RECORD		MUD, ADDITIVES USED AND RECEIVED		MUD RECORD		MUD, ADDITIVES USED AND RECEIVED		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		FROM	TO	TIME BREAKDOWN		FROM	TO	TIME BREAKDOWN		FROM	TO	TIME BREAKDOWN	
0	5	Surface		115	130	Shale																	
5	60	Sandstone		130	135	Sandstone with shale																	
60	65	Shale		135	165	Sandstone																	
6	90	SS stone (Water)		165	255	Shale																	
90	95	Shale		255	320	Shale with ss																	
95	115	Sandstone		320	340	Sandstone																	
REMARKS -						REMARKS -						REMARKS -											
												Drilled 6 3/4 hole to 340											
												Logged to 327											
												App. 35 G.P.M.											

SIGNED: Toolpusher

Butch Benoit

____ Company Supervisor

133-30-039-20584
DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICOOperator Meridian Oil Location: Unit B Sec. 4 Twp 27 Rng 6Name of Well/Wells or Pipeline Serviced SAN JUAN 28-6 #468+ #133

Elevation _____ Completion Date _____ Total Depth _____ Land Type _____

Casing Strings, Sizes, Types & Depths 100' of 8" PVC SURFACECASINGIf Casing Strings are cemented, show amounts & types used YES, with19 BAGS CEMENT

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

NODepths & thickness of water zones with description of water: Fresh, Clear,
Salty, Sulphur, Etc. Damp 130' WATER 290'Depths gas encountered: NOGround bed depth with type & amount of coke breeze used: 464' deepwith 6100 lbs of Asbury Flo CokeDepths anodes placed: 445, 435, 425, 415, 405, 395, 385, 375, 365, 355, 345, 335Depths vent pipes placed: 464' 237, 228, 219Vent pipe perforations: bottom 330'

Remarks: _____

RECEIVED
JAN 20 1995OIL 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.

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

915800
Operator Burlington Resources Location: Unit 0 Sec. 4 Twp 27 Rng 6
Name of Well/Wells or Pipeline Serviced 55 28-6# 167M
33636A; 33695A 30-039-25741
Elevation _____ Completion Date 4-2-98 Total Depth 300' Land Type 5F
Casing Strings, Sizes, Types & Depths 8" PVC X 20'
If Casing Strings are cemented, show amounts & types used 4 Bags Cement
If Cement or Bentonite Plugs have been placed, show depths & amounts used
NONE
Depths & thickness of water zones with description of water: Fresh, Clear,
Salty, Sulphur, Etc. 60', Fresh
Depths gas encountered: NONE
Ground bed depth with type & amount of coke breeze used: 300' = 1500 lbs
Lorssio SW coke breeze
Depths anodes placed: 290, 280, 265, 255, 245, 235, 225, 215
Depths vent pipes placed: 300'
Vent pipe perforations: Bottom 150'
Remarks: _____

RECEIVED
MAR - 9 1998OIL 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.

TIERRA DYNAMIC COMPANY			DEEP WELL GROUNDED LOG DATA SHEET			SF-079049B				
COMPANY NAME:										
WELL NAME : 53 28-6# 167M										
LEGAL LOCATION: 4-27-6						COUNTY: Rio Arriba				
DATE: 4-2-98			TYPE OF COKE: Loresco Sw							
DEPTH: 300			AMT. OF COKE BACKFILL: 1500 lbs							
BIT SIZE: 6 3/4			VENT PIPE: 300'							
DRILLER NAME: Jack Ledbetter			PERF. PIPE: Bottom 150'							
SIZE AND TYPE OF CASING: 8" PVC X 20'			ANODE AMT. & TYPE: Anotec - Duricon							
BOULDER DRILLING:										
DEPTH			DEPTH			DEPTH			COMPLETION INFORMATION:	
FT.	LOG	ANODE	FT.	LOG	ANODE	FT.	LOG	ANODE	WATER DEPTHS: 60' 10 GPM	
									ISOLATION PLUGS:	
100			265	2.5	3	430				
105			270	1.6		435				OUTPUT
110			275	2.0		440			ANODE#	DEPTH
115			280	2.3	2	445			1	290
120	1.0		285	2.1		450			2	280
125	1.5		290	2.6	1	455			3	265
130	1.5		295	2.0		460			4	255
135	1.4		300	T.O.		465			5	245
140	1.7		305			470			6	235
145	2.1		310			475			7	225
150	1.6		315			480			8	215
155	1.4		320			485			9	
160	1.2		325			490			10	
165	1.3		330			495			11	
170	1.5		335			500			12	
175	1.8		340			505			13	
180	1.7		345			510			14	
185	1.5		350			515			15	
190	1.3		355			520			16	
195	1.8		360			525			17	
200	1.3		365			530			18	
205	1.2		370			535			19	
210	1.9		375			540			20	
215	1.4	8	380			545			21	
220	1.5		385			550			22	
225	1.9	7	390			555			23	
230	2.1		395			560			24	
235	2.5	6	400			565			25	
240	1.8		405			570			26	
245	2.3	5	410			575			27	
250	2.4		415			580			28	
255	2.4	4	420			585			29	
260	2.4		425			590			30	
						595				
LOGGING VOLTS: 11.98			VOLTAGE SOURCE: Auto							
TOTAL AMPS: 12.80			TOTAL G/B RESISTANCE: .93							
REMARKS:										

1005

39-30-039-07056

134-30-039-20581

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. 5 Twp 27 Rng 6

Name of Well/Wells or Pipeline Serviced SAN JUAN 28-6 UNIT #39, #134
cps 1284w

Elevation 6499' Completion Date 9/27/78 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. 320'

Depths gas encountered: N/A

Type & amount of coke breeze used: 57 SACKS

Depths anodes placed: 455', 445', 435', 420', 410', 400', 365', 355', 345', 335'

Depths vent pipes placed: 500'

Vent pipe perforations: 280'

Remarks: gb #1

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

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

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

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 9-27-78

Well Name <u>S.J. 28-6 #39</u> <u>#134</u>		Location <u>SW 5-27-6</u>		CPS No. <u>1284W</u>	
Type & Size Bit Used <u>6 3/4</u>		Contract # <u>CONTRACT #2</u>		Work Order No. <u>#39=52716-19</u> <u>#134=20662-19</u>	
Anode Hole Depth <u>500-500</u>		Total Drilling Rig Time	Total Lbs. Coke Used	Lost Circulation Mat'l Used	No. Sacks Mud Used
Anode Depth	#1 <u>45.5</u>	#2 <u>44.5</u>	#3 <u>43.5</u>	#4 <u>42.0</u>	#5 <u>41.0</u>
	#6 <u>40.0</u>	#7 <u>36.5</u>	#8 <u>35.5</u>	#9 <u>34.5</u>	#10 <u>33.5</u>
Anode Output (Amps)	#1 <u>2.9</u>	#2 <u>3.4</u>	#3 <u>3.3</u>	#4 <u>2.9</u>	#5 <u>3.4</u>
	#6 <u>3.1</u>	#7 <u>3.6</u>	#8 <u>3.0</u>	#9 <u>3.4</u>	#10 <u>3.4</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	Volts <u>11.7</u>		Amps <u>15.0</u>	Ohms <u>0.78</u>	No. 8 C.P. Cable Used
					No. 2 C.P. Cable Used

Remarks: Static #39 600' W = 0.78, static #134 600' E = 0.77. Drilled to 320' waited 20 min. Blew water. 3 to 6 GALS. PER MIN. PERFORATED 280' of 1" PVC vent Pipe. Installed 500' of 1" PVC vent Pipe. Slurried 57 SACKS OF COKE.

60 V 30 A Rectifier

Hole Depth = 0

20' Meter Pole

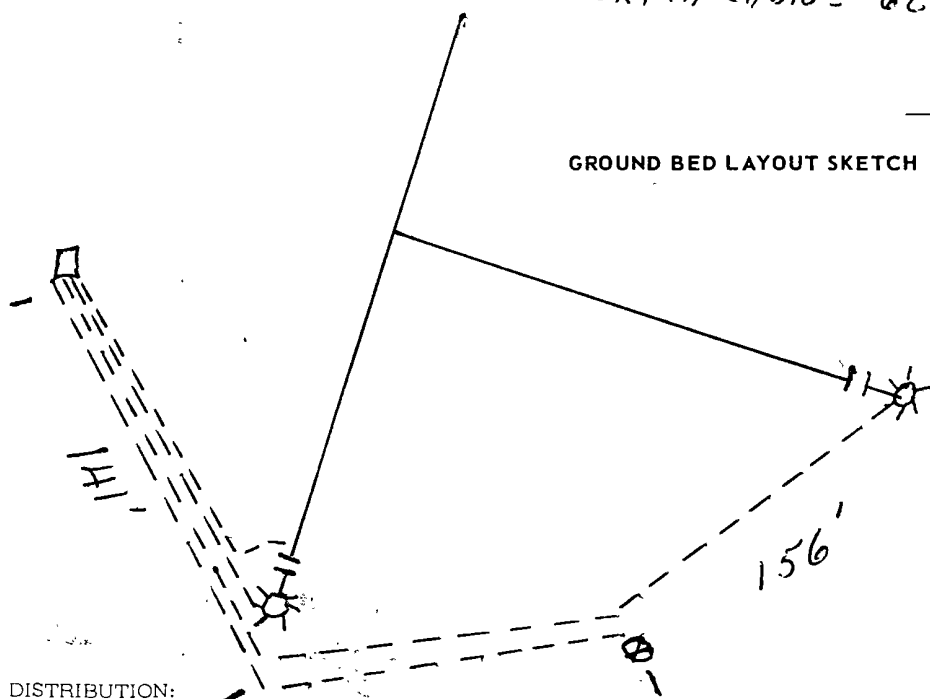
Ditch & Cable = 495'

Extra Cable = 621

All Construction Completed

W Z Lutz
(Signature)

GROUND BED LAYOUT SKETCH



DISTRIBUTION:

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

El Paso Natural Gas Company
ENGINEERING CALCULATION

Sheet: _____ of _____

Date: _____

By: _____

File: _____

S.J. 28-6 #39

S.J. 28-6 #134

SW5-27-6

1284W

52716-19 28

20662-19

Contract #2

MW	gals/mol
16.04	C1 6.4
30.07	C2 10.12
44.10	C3 10.42
58.12	iC4 12.38
58.12	nC4 11.93
72.15	iC5 13.85
72.15	nC5 13.71
86.18	iC6 15.50
86.18	C6 15.57
100.21	iC7 17.2
100.21	C7 17.46
114.23	C8 19.39
28.05	C2 9.64
42.08	C3 9.67

MW	MISC	gals/mol
32.00	O2	3.37
28.01	CO	4.19
44.01	CO2	6.38
64.06	SO2	5.50
34.08	H2S	5.17
28.01	N2	4.16
2.02	H2	3.38

Static #39 600' W = 0.78

Static #134 600' E = 0.77

Drilled to 320' waited 20 min
 Blew water 3 to 6 GALS per min
 Perforated 280' of 1" PVC vent pipe
 Installed 500' of 1" PVC vent pipe
 Slurried 57 sacks of coke

3 00 .7

.7

10 .7

.8

20 1.4

.7

30 1.7

1.5 (10)

40 1.7

1.4 (20)

50 1.6

1.9 (8)

60 1.7

1.5 (10)

70 1.2

1.2

80 1.0

90 .9

99 .8

1.2

40 1.7 (6)

1.8

10 1.7 (5)

1.9

20 1.6 (4)

1.4

30 1.4

1.4 (3)

40 1.8

1.6 (2)

50 1.7

1.5 (1)

60 1.2

1.1

70 1.2

1.2

80 .9

.8

90 .8

.7

60V 30 A Rectifier
 20' meter Pole
 Hole Depth = 0
 Ditch Cable = 495'
 Extra Cable = 621'

①	455	1.9	2.9
②	445	2.0	3.4
③	435	1.9	3.3
④	420	1.9	2.9
⑤	410	2.2	3.4
⑥	400	2.2	3.1
⑦	365	2.2	3.6
⑧	355	1.9	3.0
⑨	345	2.1	3.4
⑩	335	2.3	3.4

Volts = 11.7
 Amps = 15.0
 Ohms = .78

500.6 TD Drilled

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

Analysis No. 1-9364 Date 11-8-78

Operator EPNG Well Name SAN JUAN 28-6 #39 & 134

Location SW 5-27-6 County RIO ARriba State NM

Field Formation

Sampled From C. P. S. #1284 W 320' 3-66 PM

Date Sampled By

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

Sodium 725 32 Chloride 18 .5

Calcium 197 10 Bicarbonate 298 5

Magnesium 30 3 Sulfate 1875 39

Iron PRESENT Carbonate 0 0

H₂S ABSENT Hydroxide 0 0

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

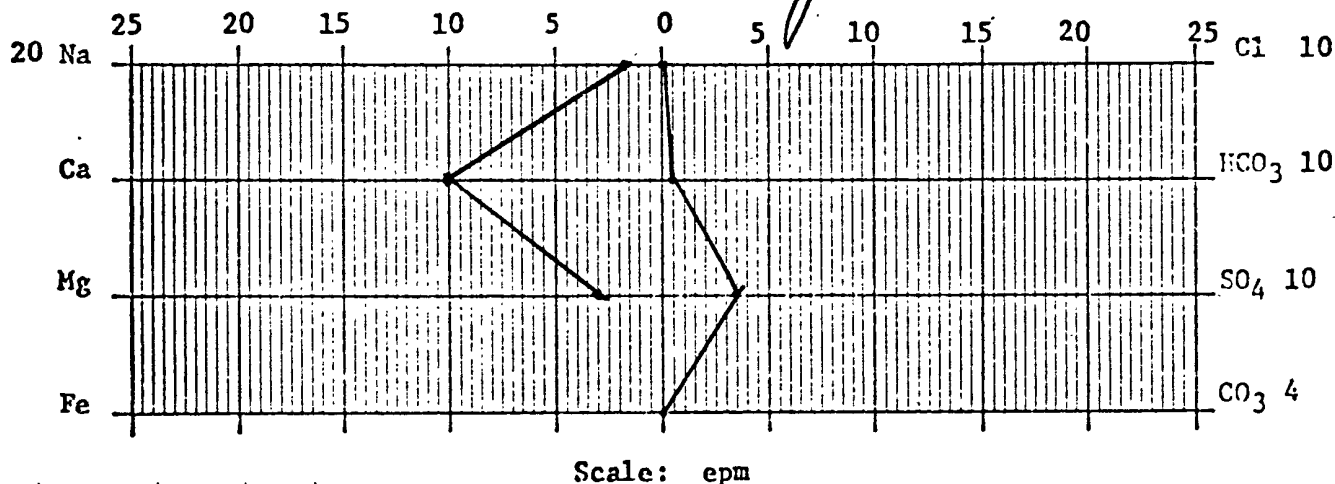
Total Solids Dissolved 2634

pH 7.5

Sp. Gr. 1.0030 at 73 60°F

Resistivity 320 ohm-cm at 73 °F

Joe Barnett RJE
Chemist



DAILY DRILLING REPORT

Contract 2

[illegible]

Company Supervisor

SIGNED: Toolusher.

D. K. McLaughlin

#38 → 30-039-07197

#170 → 30-039-20482

3803

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICOOperator Meridian Oil Co. Location: Unit A Sec. 05 Twp 27 Rng 06

Name of Well/Wells or Pipeline Serviced _____

SAN JUAN 28-6 UNITS #38 AND #170Elevation 6716 Completion Date _____ Total Depth _____ Land Type FCasing Strings, Sizes, Types & Depths 10/13 Set 99' of 8" PVC CASINGNO GAS, WATER, OR BOULDERS WERE ENCOUNTERED DURING CASINGIf Casing Strings are cemented, show amounts & types used CementedWITH 22 SACKS.

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

NO

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

Salty, Sulphur, Etc. 200'Depths gas encountered: NOGround bed depth with type & amount of coke breeze used: 463' with140' bags of Asbury #2181 (50/lbs) COKE breezeDepths anodes placed: 448, 440, 424, 414, 404, 394, 375, 365, 280, 270, 260, 245, 235
225, 215Depths vent pipes placed: 463Vent pipe perforations: bottom 300'

Remarks: _____

RECEIVED

JAN 31 1994

OIL CON. DIV. I

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.

API WATER ANALYSIS REPORT FORM

1283w

Laboratory No. <u>25321202-2A</u>		Company <u>Meridian Oil</u>		Sample No.		Date Sampled <u>11/19/92</u>	
Lease or Unit <u>A 5-27-6</u>		Well <u>S.5.28-6#38+4/70</u>		Legal Description		County or Parish <u>R.A.</u> State <u>NM</u>	
Type of Water (Produced, Supply, etc.)		Sampling Point <u>Ground Rod 200'</u>		Depth		Formation	
				Water, B/D		Sampled By <u>MRU</u>	

DISSOLVED SOLIDS

CATIONS

Sodium, Na (calc.)	mg/l	me/l
Calcium, Ca	269	11.7
Magnesium, Mg	170	8.4
Barium, Ba	4	0.4

OTHER PROPERTIES

pH 8.2
 Specific Gravity, 60/60 F. 1.0045
 Resistivity (ohm-meters) 720 F.

ANIONS

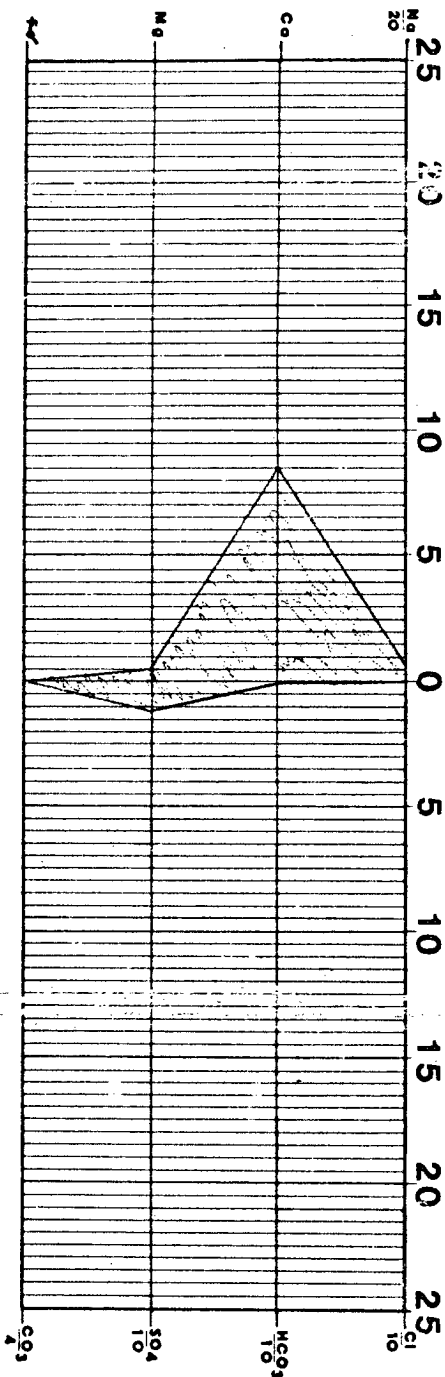
Chloride, Cl	33	0.9
Sulfate, So ₄	844	17.6
Carbonate, CO ₃	12	0.4
Bicarbonate, HCO ₃	98	1.6

Total Dissolved Solids (calc.)

1430 mg/l

Iron, Fe (total)
 Sulfide, as H₂S

REMARKS & RECOMMENDATIONS:



Date Received <u>12/1/92</u>	Preserved	Date Analyzed <u>12/2/92</u>	Analyzed By <u>Stella</u>
------------------------------	-----------	------------------------------	---------------------------



TECH, Inc.

333 East Main

Farmington

New Mexico

87401

505/327-3311

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

APS 9/15/20

Operator Burlington Resources Location: Unit E Sec. 5 Twp 27 Rng 6Name of Well/Wells or Pipeline Serviced SJ 28-6-#134M33699A; 33638A30-039-25751Elevation 6691 Completion Date 4-1-78 Total Depth 300 Land Type SFCasing Strings, Sizes, Types & Depths 8" PVC X 20'If Casing Strings are cemented, show amounts & types used 4-Bags Cement

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

NoneDepths & thickness of water zones with description of water: Fresh, Clear,
Salty, Sulphur, Etc. 70' seepDepths gas encountered: NoneGround bed depth with type & amount of coke breeze used: 300' = 2000 lbsLoreco SW coke breezeDepths anodes placed: 285, 278, 271, 265, 223, 216, 209, 202, 195, 188Depths vent pipes placed: 300'Vent pipe perforations: Bottom 150'

Remarks:

RECEIVED
MAR - 9 1999OIL 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.

TIERRA DYNAMIC COMPANY			EP WELL GROUNDED LOG DATA SHEET			5F09051			
COMPANY NAME: Burlington Resources						Elev. 6691			
WELL NAME: S.S. 28-6# 134M									
LEGAL LOCATION: 5-27-6			COUNTY: Rio Arriba						
DATE: 4-1-98			TYPE OF COKE: Loresio SW						
DEPTH: 300'			AMT. OF COKE BACKFILL: 2000 lbs						
BIT SIZE: 1 3/4			VENT PIPE: 300'						
DRILLER NAME: Jack Ledbetter			PERF. PIPE: bottom 150'						
SIZE AND TYPE OF CASING: 8" PVC x 20'			ANODE AMT. & TYPE: Anotec Duricon						
			BOULDER DRILLING:						
DEPTH			DEPTH			DEPTH			COMPLETION INFORMATION:
FT.	LOG	ANODE	FT.	LOG	ANODE	FT.	LOG	ANODE	WATER DEPTHS: 70 Seep
									ISOLATION PLUGS:
100			265	2.0		430			
105			270	1.5		435			OUTPUT OUTPUT
110			275	1.0		440			ANODE# DEPTH NO COK COKED
115			280	1.0		445		1	285 1.0 3.6
120			285	1.0		450		2	278 1.4 4.7
125			290	.8		455		3	271 1.8 5.2
130			295	T.O.		460		4	265 2.0 5.9
135			300			465		5	223 1.8 6.2
140			305			470		6	216 2.1 6.3
145			310			475		7	209 2.2 5.9
150	.1		315			480		8	202 1.6 4.7
155	.1		320			485		9	195 1.0 4.7
160	.1		325			490		10	188 1.0 1.9
165	.6		330			495		11	
170	.9		335			500		12	
175	.4		340			505		13	
180	.3		345			510		14	
185	.5		350			515		15	
190	1.1		355			520		16	
195	2.3		360			525		17	
200	2.2		365			530		18	
205	1.9		370			535		19	
210	1.9		375			540		20	
215	1.8		380			545		21	
220	1.8		385			550		22	
225	1.3		390			555		23	
230	1.0		395			560		24	
235	.7		400			565		25	
240	.5		405			570		26	
245	.4		410			575		27	
250	.2		415			580		28	
255	.2		420			585		29	
260	1.0		425			590		30	
						595			
LOGGING VOLTS: 11.12			VOLTAGE SOURCE: Auto						
TOTAL AMPS: 10.5			TOTAL G/B RESISTANCE: 1.0						
REMARKS:									

916 TW

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICOOperator Burlington Resources Location: Unit I Sec. 5 Twp 27 Rng 6Name of Well/Wells or Pipeline Serviced SS 28-6 # 170M
33637A; 33696A 30-039-25772Elevation _____ Completion Date 4-14-98 Total Depth 300' Land Type NM SFCasing Strings, Sizes, Types & Depths 8" PVC X 20'If Casing Strings are cemented, show amounts & types used 4 Bags CementIf Cement or Bentonite Plugs have been placed, show depths & amounts used
NoneDepths & thickness of water zones with description of water: Fresh, Clear,
Salty, Sulphur, Etc. 100' SeepDepths gas encountered: NoneGround bed depth with type & amount of coke breeze used: 300', 1600 lbs
LORISO SWDepths anodes placed: 290', 280', 260', 248', 240', 234', 228', 222', 216', 210'Depths vent pipes placed: 300'Vent pipe perforations: Bottom 150'

Remarks: _____

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MAR - 9 1999OIL 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.

TIERRA DYNAMIC COMPANY			DEEP WELL GROUNDED LOG DATA			ET NM SF 0790498			
COMPANY NAME: <u>Burlington Resources</u>									
WELL NAME: <u>5J2816 # 170M</u>									
LEGAL LOCATION: <u>S-27-6</u>						COUNTY: <u>Rio Arriba</u>			
DATE: <u>4-14-98</u>						TYPE OF COKE: <u>Lovisco SW</u>			
DEPTH: <u>300'</u>						AMT. OF COKE BACKFILL: <u>1600 lbs</u>			
BIT SIZE: <u>6 3/4</u>						VENT PIPE: <u>300'</u>			
DRILLER NAME: <u>Jack Ledbetter</u>						PERF. PIPE: <u>Bottom 150'</u>			
SIZE AND TYPE OF CASING: <u>8" PVC X 20'</u>						ANODE AMT. & TYPE: <u>Anode - Duriron</u>			
BOULDER DRILLING:									
DEPTH	LOG	ANODE	DEPTH	LOG	ANODE	DEPTH	LOG	ANODE	COMPLETION INFORMATION:
FT.			FT.			FT.			WATER DEPTHS: <u>100 Seep</u>
									ISOLATION PLUGS:
100	1.7		265	.4		430			
105	1.5		270	1.3		435			OUTPUT
110	1.4		275	.5		440			OUTPUT
115	.9		280	.7	2	445			ANODE# DEPTH NO COK COKED
120	1.6		285	.8		450			1 290 .9 1.8
125	.5		290	1.0	1	455			2 280 1.1 2.0
130	1.4		295	.9		460			3 260 1.2 4.1
135	1.5		300	TD.		465			4 254 1.8 5.0
140	2.0		305			470			5 248 1.8 5.6
145	2.1		310			475			6 240 1.8 5.8
150	2.1		315			480			7 234 1.9 5.7
155	1.6		320			485			8 228 1.5 5.0
160	1.9		325			490			9 222 1.9 4.2
165	1.5		330			495			10 216 1.7 4.2
170	1.0		335			500			11 210 1.2 3.4
175	1.6		340			505			12
180	1.6		345			510			13
185	1.4		350			515			14
190	1.5		355			520			15
195	1.0		360			525			16
200	1.4		365			530			17
205	1.8		370			535			18
210	1.6	10	375			540			19
215	1.5	9	380			545			20
220	2.1		385			550			21
225	1.8		390			555			22
230	1.6	8	395			560			23
235	1.8	7	400			565			24
240	1.0	6	405			570			25
245	.8		410			575			26
250	1.4	5	415			580			27
255	1.4	4	420			585			28
260	1.4	3	425			590			29
						595			30
LOGGING VOLTS: <u>11.10</u> VOLTAGE SOURCE: <u>AUTO</u>									
TOTAL AMPS: <u>10.5</u> TOTAL G/B RESISTANCE: <u>1.0</u>									
REMARKS:									

2947 53 - 30-039-07118
104 - 30-039-20840

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. 8 Twp 27 Rng 6

Name of Well/Wells or Pipeline Serviced SAN JUAN 28-6 UNIT #53, #104
cps 1289w

Elevation 6203' Completion Date 9/7/78 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. 80'

Depths gas encountered: N/A

Type & amount of coke breeze used: 25 SACKS

Depths anodes placed: 120', 90', 80'

Depths vent pipes placed: 155'

Vent pipe perforations: 120'

Remarks: gb #2

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5-31-91
JUN 21 1991
OIL CON. DIV.
DIST. 3

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

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

53-30-039-07118
104-30-039-20840

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. 8 Twp 27 Rng 6

Name of Well/Wells or Pipeline Serviced SAN JUAN 28-6 UNIT #53, #104
cps 1289w

Elevation 6203' Completion Date 9/7/78 Total Depth 320' 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. 80' SAMPLE TAKEN

Depths gas encountered: N/A

Type & amount of coke breeze used: 61 SACKS

Depths anodes placed: 290', 280', 270', 260', 195', 185', 175', 160', 150', 140', 130', 120', 110', 100', 90', 85'

Depths vent pipes placed: 300'

Vent pipe perforations: 260'

Remarks: gb #1 HOLE CAVED, RETRIEVED #4 ANODE. #1 & #2 DID NOT GET COKE

AROUND THEM.

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. DIV

DIST 3

#22 30-039-07127

#204 30-039-20846

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 27 Rng 6
Name of Well/Wells or Pipeline Serviced SAN JUAN 28-6 UNIT #22, #204
cps 1288w

Elevation 6481' Completion Date 8/28/78 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. DAMP AT 110' WATER AT 270'

Depths gas encountered: N/A

Type & amount of coke breeze used: 64 SACKS

Depths anodes placed: 370', 360', 350', 340', 330', 320', 310', 300', 280', 155'

Depths vent pipes placed: 380'

Vent pipe perforations: 260'

Remarks: gb #1 HOLE BRIDGED ABOVE #10 ANODE. INSTALLED #11

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DIST. 3

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

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

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 8-28-78

Well Name S.J. 28-6 #22		Location NE8-27-6		CPS No. 1288W	
Type & Size Bit Used 6 3/4"				Work Order No. 52626-19	
Anode Hole Depth 500-460	Total Drilling Rig Time	Total Lbs. Coke Used	Lost Circulation Mat'l Used	No. Sacks Mud Used	
Anode Depth #1 370 #2 360 #3 350 #4 340 #5 330 #6 320 #7 310 #8 300 #9 290 #10 280					
Anode Output (Amps) #1 3.1 #2 2.8 #3 2.3 #4 2.8 #5 3.6 #6 3.7 #7 3.7 #8 3.4 #9 2.6 #10 2.6					
Anode Depth #11 155 #12 #13 #14 #15 #16 #17 #18 #19 #20					
Anode Output (Amps) #11 2.4 #12 #13 #14 #15 #16 #17 #18 #19 #20					
Total Circuit Resistance Volts 11.8 Amps 14.1 Ohms 0.84			No. 8 C.P. Cable Used	No. 2 C.P. Cable Used	

Remarks: STATIC 600' SE = 0.81. DRILLER SAID DAMP @ 110' STARTED MAKING WATER @ 270'. PERFORATED 260' of 1" PVC vent Pipe. Installed 380' of 1" PVC vent Pipe. SLURRIED 64 SACKS of COKE Breeze 0-1/4" Hole BRIDGED Above #10 Anode. Installed #11 Anode

40V 16 A Rectifier
Stub Pole

1 1/2" x 60" Duriron

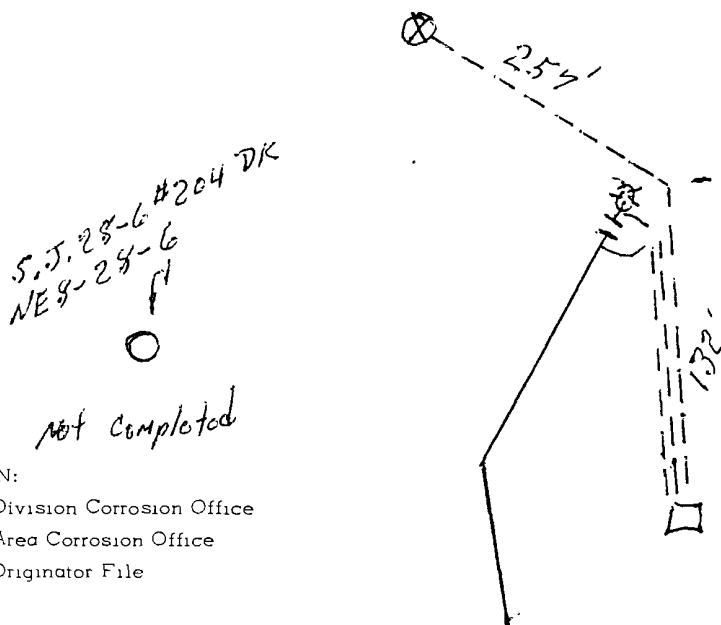
Hole Depth = - 40'
Ditch & 1 cable = 389'
Extra cable = 264'

All Construction Completed

W. Z. Smith

(Signature)

GROUND BED LAYOUT SKETCH



DISTRIBUTION:

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

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

S.J. 28-6 # 22

NE8-27-6

1288W

52626-19

MW	gals/mol
16.04	C1 6.4
30.07	C2 10.12
44.10	C3 10.42
58.12	IC4 12.38
58.12	nC4 11.93
72.15	IC5 13.85
72.15	nC5 13.71
86.18	IC6 15.50
86.18	C6 15.57
100.21	IC7 17.2
100.21	C7 17.46
114.23	C8 19.39
28.05	C2 9.64
42.08	C3 9.67

MW	MISC.	gals/mol
32.00	O2	3.37
28.01	CO	4.19
44.01	CO2	6.38
64.06	SO2	5.50
34.08	H2S	5.17
28.01	N2	4.16
2.02	H2	3.38

STATIC 600' SE = 0.81

DRILLER SAID DAMP @ 110' MAKING WATER @ 270'
10 GALS PER MIN
PERFORATED 260' of 1" PVC vent Pipe
Installed 380' of 1" PVC vent Pipe
Shipped 64 SACKS of Cate
Bridged Between #9 & #10 Installed
#11 Anodes

250	30	.9	
		1.0	
60	40	1.6	
		1.6	
70	50	.8	
		1.2	
80	60	1.1 (10)	TD
		1.1	
90	70	1.6 (9)	
		1.7	
300	80	1.7 (8)	
		1.8	
10	90	1.7 (6)	
		1.8	
20	500	1.8 (6)	DRILLED
		1.8	
30		1.5 (5)	
		1.7	
40		1.4 (4)	
		1.2	
50		1.3 (3)	
		1.1	
60		1.1 (2)	
		1.2	
70		1.4 (1)	
		.8	
80		.5	
		.8	
90		.9	
		.6	
40		.7	
		.7	
10		.7	
		.7	
20		.9	
		.9	

Stub Pole
HOVIG Rectifier
Hole Depth = 410'
Ditch 51 Cable = 389'
EXTRA Cable = 264'

①	370	1.6	3.1
②	360	1.5	2.8
③	350	1.3	2.3
④	340	1.5	2.8
⑤	330	2.2	3.6
⑥	320	2.1	3.7
⑦	310	2.1	3.7
⑧	300	2.1	3.4
⑨	290	1.5	2.6
⑩	280	1.4	2.4
⑪	155	1.5	2.4

VOLTS = 11.8
AMPS = 14.1
OHMS = 0.84

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

Analysis No. 1-9325 Date 9-15-78

Operator EPNG Well Name San Juan 28-6 #22

Location 8-27-6 County State NM

Field Formation ANODE BED

Sampled From ~~1288W~~ WTR @ 270'

Date Sampled By

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

ppm	epm	ppm	epm
Sodium <u>437</u>	<u>19</u>	Chloride <u>16</u>	<u>0.4</u>

Calcium <u>42</u>	<u>2</u>	Bicarbonate <u>278</u>	<u>5</u>
-------------------	----------	------------------------	----------

Magnesium <u>5</u>	<u>0.4</u>	Sulfate <u>750</u>	<u>16</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

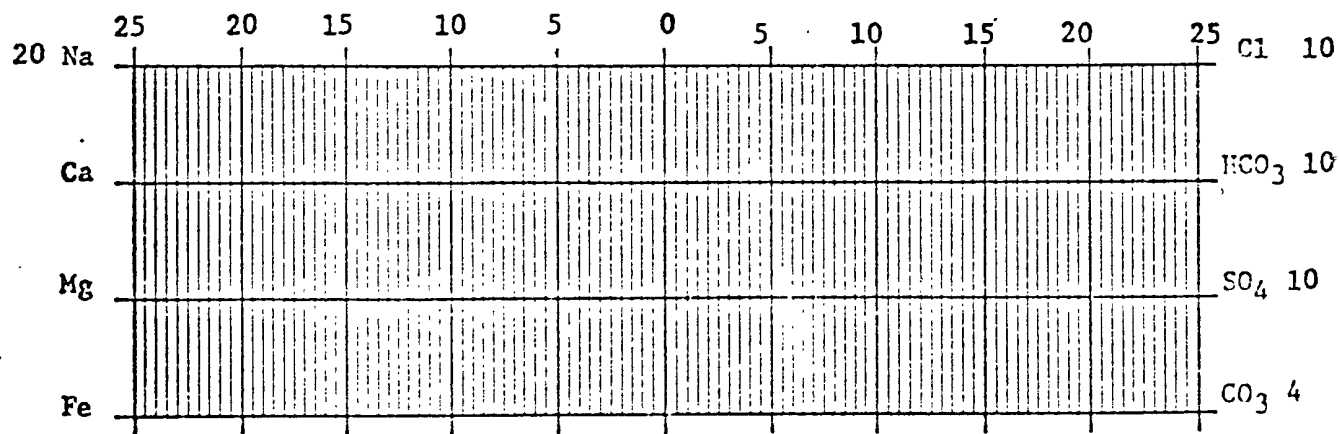
Total Solids Dissolved 1216

pH 8.2

Sp. Gr. 1.0026 at 60°F

Resistivity 680 ohm-cm at 72 °F

R. Z. Ellsberry
Chemist



Scale: epm

30-039-22299

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. 8 Twp 27 Rng 6

Name of Well/Wells or Pipeline Serviced SAN JUAN 28-6 UNIT #22A

cps 1608w

Elevation 6480' Completion Date 7/21/81 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. 300' NO SAMPLE

Depths gas encountered: N/A

Type & amount of coke breeze used: 6200 lbs.

Depths anodes placed: 470', 460', 425', 415', 405', 395', 355', 345', 320', 310'

Depths vent pipes placed: 495'

Vent pipe perforations: 300'

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.

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

(2" x 60" Diameter)

Completion Date 7/21/81

Well Name <u>S.J. 28-G UNIT "22A</u>		Location <u>SE 8 - 27 - 6</u>		CPS No. <u>1608 W</u>	
Type & Size Bit Used <u>6 3/4"</u>				Work Order No. <u>57563-21-50-20</u>	
Anode Hole Depth <u>500' T.D. 495'</u>	Total Drilling Rig Time	Total Lbs. Coke Used	Lost Circulation Mat'l Used	No. Sacks Mud Used	
Anode Depth					
# 1 <u>470</u>	# 2 <u>460</u>	# 3 <u>425</u>	# 4 <u>415</u>	# 5 <u>405</u>	# 6 <u>395</u>
# 7 <u>355</u>	# 8 <u>345</u>	# 9 <u>320</u>	# 10 <u>310</u>		
Anode Output (Amps)					
# 1 <u>2.4</u>	# 2 <u>3.3</u>	# 3 <u>3.1</u>	# 4 <u>2.6</u>	# 5 <u>2.9</u>	# 6 <u>2.5</u>
# 7 <u>2.9</u>	# 8 <u>2.7</u>	# 9 <u>1.8</u>	# 10 <u>2.3</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>12.3 V</u>	Amps <u>13.7 A</u>	Ohms <u>.9</u>			No. 2 C.P. Cable Used

Remarks: STATIC ON S.J. 28-G UNIT 22A 600' S = .85V (Unions checked OK)

Drilled To 260'. Hole was Dry next A.M. Hit Water AT 300' Shut Down
30 min. Blew water & mud To Top of Hole, would NOT settle out For Water
Sample. EST. 1/2 gal./min. Drilled To 500', Logged 495'. INSTALLED 495' of
1" R.V.C. VENT Pipe, Perforated 300'.

Coke Breeze was Hauled in Bulk. EST. 6200 LB in Hole

Pitch & 1 cable = 295' ✓

extra cable = 200' ✓

40V 16A Rect. ✓

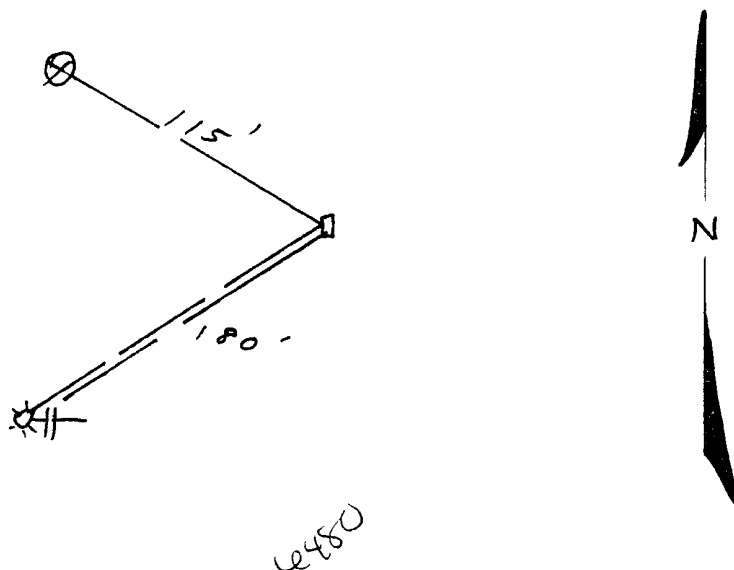
Stub pole ✓

Hole Depth - 5' ✓

All Construction Completed

JE Statler
 (Signature)

GROUND BED LAYOUT SKETCH



No.	Req.	O.T.
8	3	

DISTRIBUTION:

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

Date:

By:

CPS - 1608 W

S.J. 28-6 UNIT 22-A SE 8-27-6 W.O. 57563-21-50-20

MW	gals/mol
16.04	C1 6.4
30.07	C2 10.12
44.10	C3 10.42
58.12	IC4 12.38
58.12	nC4 11.93
72.15	IC5 13.86
72.15	nC5 13.71
86.18	IC6 15.50
86.18	IC6 15.67
100.21	IC7 17.21
100.21	C7 17.48
114.23	C8 19.38
28.05	C2 9.84
42.08	C3 9.67

MW	MISC	gals/mol
32.00	O2	3.37
28.01	CO2	4.19
44.01	CO2	6.38
64.06	SO2	5.50
34.08	H2S	5.17
28.01	N2	4.16
2.02	H2	3.38

300 - .7	470 - 1.2 - ①	Drilled To 260, Hole was Dry
.7	1.2	Next A.M. Hit Water AT 300,
10 - 1.4 - ①	80 - 1.2	Shot Down For 30 MIN. Blew
1.0	.8	Water & Mud To Top of Hole.
20 - 1.0 - ②	90 - .6	Would Not Settle out For
.9	495 T.D	Water Sample. Est. 2914 /min
20 - .7	500 -	Installed 495 of 1 1/2" vent
.7		Pipe Perforated 300.
40 - .6		Drilled 500, Logged 495.
1.3 - ③		
50 - 1.6	12.3 V 137 A E 90.0	
1.3 - ④	7/2/81	
60 - .9		
.7		
70 - 1.0		
1.1		
80 - 1.4		
.5		
90 - 1.2		
1.2 - ⑤		
400 - 1.3	1 - 470 - 1.4 - 2.4	
1.3 - ⑥	2 - 460 - 1.9 - 3.3	
10 - 1.1	3 - 425 - 1.8 - 3.1	
1.1 - ⑦	4 - 415 - 1.5 - 2.6	
20 - 1.3	5 - 405 - 1.9 - 2.9	
1.4 - ⑧	6 - 395 - 1.6 - 2.5	
30 - .9	7 - 355 - 1.7 - 2.9	
.8	8 - 345 - 1.6 - 2.7	
40 - .8	9 - 320 - 1.1 - 1.8	
.9	10 - 310 - 1.8 - 2.3	
50 - .9		
1.5		
60 - 1.5 - ⑨		
1.3		

DRILLING DEPARTMENT

DAILY DRILLING REPORT

SJ 28-6 # 22-A

CP5 1608 W

Heavy Drilling

LEASE	WELL NO.	CONTRACTOR	RIG NO. 2	REPORT NO.	DATE July 21 19 81
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.
S											
AL 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.	Time	Wt.	Vis.	Time	Wt.	Vis.	Time	Wt.	Vis.

FROM	TO	TIME BREAKDOWN	FROM	TO	TIME BREAKDOWN	FROM	TO	TIME BREAKDOWN
0	100	Sand	320	350	Sand			
100	190	Sandy shale	350	390	Shale			
190	230	Sand	390	400	Sand			
230	240	Shale	400	430	Shale			
240	290	Sand	430	460	Sandy shale			
290	320	Shale	460	500	Sand shale			

REMARKS -	REMARKS -	REMARKS -
Water 290-300		
Drilled 500 TD-495		

SIGNED: Toolpusher *Steve Hony*

Company Supervisor

ENTERED

Montana
331
307DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICO

907110

AP: 33641A 007970314

Operator Burlington Resources Location: Unit NE NW Sec. 8 Twp 27 Rng 6Name of Well/Wells or Pipeline Serviced San Juan 28-6-104MElevation _____ Completion Date 7/15/97 Total Depth 400 Land Type SECasing Strings, Sizes, Types & Depths 7/15 set 40' of 8" PVC casing
no gas, water or boulders were encountered during casingIf Casing Strings are cemented, show amounts & types used Cemented
with 8 Bages of cementIf Cement or Bentonite Plugs have been placed, show depths & amounts used
noneDepths & thickness of water zones with description of water: Fresh, Clear,
Salty, Sulphur, Etc. Hit A Fresh water seep at 130'Depths gas encountered: noneGround bed depth with type & amount of coke breeze used: 400' Depth
used 14 sacks of Loresco SW (1800#)Depths anodes placed: 375, 369, 363, 357, 351, 345, 339, 333, 305, 290, 284, 265, 250, 233Depths vent pipes placed: surface to 400'Vent pipe perforations: Bottom 150'

Remarks: _____

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FEB 25 1998

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.

TIERRA DYNAMIC COMPANY			DEEP WELL GROUNDED LOG TA SHEET		
COMPANY NAME: <u>Burlington Resources</u>					
WELL NAME <u>SJ, 28-6 #104 M</u>					
LEGAL LOCATION:			COUNTY: <u>San Juan</u>		
DATE: <u>7/15/97</u>			TYPE OF COKE: <u>Loresco SW</u>		
DEPTH: <u>400'</u>			AMT. OF COKE BACKFILL: <u>1900</u>		
BIT SIZE: <u>6 3/4</u>			VENT PIPE: <u>400'</u>		
DRILLER NAME: <u>Bud Mercer</u>			PERF. PIPE: <u>150'</u>		
SIZE AND TYPE OF CASING: <u>8" PVC</u>			ANODE AMT. & TYPE: <u>ANotec</u>		
			BOULDER DRILLING: <u>none</u>		

DEPTH			DEPTH			DEPTH			COMPLETION INFORMATION:			
FT.	LOG	ANODE	FT.	LOG	ANODE	FT.	LOG	ANODE	WATER DEPTHS: <u>130' Damp</u>			
									ISOLATION PLUGS:			
									ANODE#	DEPTH	NO COK	COKED
100	1.6		265	1.0		430						
105	1.8		270	.8		435					OUTPUT	OUTPUT
110	1.3		275	.7		440						
115	1.3		280	.7		445			1	375	1.0	.9
120	1.4		285	.8		450			2	369	1.1	1.4
125	1.6		290	1.2		455			3	363	1.6	2.6
130	1.8		295	.9		460			4	357	1.9	3.3
135	1.7		300	.8		465			5	351	1.2	2.4
140	2.1		305	.7		470			6	345	1.1	2.7
145	1.8		310	.7		475			7	339	1.7	3.5
150	1.8		315	.7		480			8	333	1.8	3.5
155	1.3		320	.8		485			9	305	.7	1.2
160	1.0		325	.7		490			10	290	1.2	2.2
165	.8		330	2.0		495			11	284	.7	2.1
170	.8		335	1.9		500			12	265	1.0	1.9
175	.7		340	1.7		505			13	250	1.0	2.0
180	.8		345	1.1		510			14	233	1.3	2.6
185	.8		350	1.2		515			15			
190	.8		355	1.9		520			16			
195	1.1		360	1.9		525			17			
200	1.8		365	1.4		530			18			
205	1.2		370	1.1		535			19			
210	.8		375	1.0		540			20			
215	.6		380	.8		545			21			
220	.6		385	TD		550			22			
225	.7		390			555			23			
230	1.2		395			560			24			
235	1.5		400			565			25			
240	1.3		405			570			26			
245	1.0		410			575			27			
250	1.0		415			580			28			
255	.9		420			585			29			
260	.8		425			590			30			
						595						

LOGGING VOLTS: <u>12.0</u>	VOLTAGE SOURCE:
TOTAL AMPS: <u>12.4</u>	TOTAL G/B RESISTANCE: <u>0.96 OHM</u>
REMARKS:	

#23 30-039-07104

#96 30-039-07108

#112 30-039-07099

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 27 Rng 6Name of Well/Wells or Pipeline Serviced SAN JAUN 28-6 UNIT #23, #96, #112cps 68lwElevation 6478' Completion Date 11/15/77 Total Depth 420' 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. 100'Depths gas encountered: N/AType & amount of coke breeze used: 49 SACKSDepths anodes placed: 385', 375', 365', 355', 345', 335', 325', 315', 305', 295'Depths vent pipes placed: 400' OF 1" PVC VENT PIPEVent pipe perforations: 280'Remarks: gb #2

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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.

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 27 Rng 6

Name of Well/Wells or Pipeline Serviced SAN JUAN 28-6 UNIT #23, #96, #112

cps 68lw

Elevation 6478' Completion Date 12/29/65 Total Depth 420' 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

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MAY 31 1991

Depths gas encountered: N/A

OIL CON. DIV.
DIST. 3

Type & amount of coke breeze used: 4400 lbs.

Depths anodes placed: 362', 356', 350', 344', 338', 332', 326', 320', 314', 308'

Depths vent pipes placed: 362' OF 3/4" HOSE

Vent pipe perforations: BOTTOM 100' , 1' INTERVALS

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.

2946

30-039-07137

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 27 Rng 6Name of Well/Wells or Pipeline Serviced SAN JUAN 28-6 UNIT #11

cps 1290w

Elevation 6272' Completion Date 9/5/78 Total Depth 320' 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. 62' SAMPLE TAKENDepths gas encountered: N/AType & amount of coke breeze used: N/ADepths anodes placed: 295', 285', 275', 265', 255', 245', 235', 190', 150', 140'Depths vent pipes placed: 300'Vent pipe perforations: 280'Remarks: gb #1

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5-31-91
JUN 21 1991

OIL CON. DIV.
DIST 3

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

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

205-20-039-20850

E

470-20-039-25052

630

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICOOperator Meridian Oil Location: Unit E Sec. 9 Twp 27 Rng 6Name of Well/Wells or Pipeline Serviced San Juan 28-6 #2054 #4762254-WElevation 6490 Completion Date 9-3-91 Total Depth 465' Land Type FCasing Strings, Sizes, Types & Depths 100 8" PUCIf Casing Strings are cemented, show amounts & types used yes - 23 Sacks

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

NoneDepths & thickness of water zones with description of water: Fresh, Clear,
Salty, Sulphur, Etc. 110' FreshDepths gas encountered: NoneGround bed depth with type & amount of coke breeze used: 465'Asbury Coke - 142 BagsDepths anodes placed: #1-450, #2-440, #3-425, #4-415, #5-405, #6-395, #7-385, #8-375, #9-365, #10-355, #11-190, #12-155Depths vent pipes placed: From Surface to 465'Vent pipe perforations: From 150' to 465'

Remarks:

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OIL CON. DIV.

DIST. 3

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

Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee.

If Federal or Indian, add Lease Number.

CPS GROUND BED CONSTRUCTION WORKSHEET

CPS#	P/L NAME(s), NUMBER(s)					
2254-2	San Juan 28-6 #205 + #476					
WO #	TOTAL	VOLTS	AMPS	OHMS	DATE	NAME
M580		12.5	22.6	.55	9-3-91	David Ashwood

REMARKS (notes for construction log)

H₂O-110'

DEPTH	LOG	ANODE	DEPTH	LOG	ANODE	DEPTH	LOG	ANODE	DEPTH	LOG	ANODE	
	ANODE	NO.		ANODE	NO.		ANODE	NO.		ANODE	NO.	
100			295	1.2		490			685			
105			300	1.0		495			690			
110			305	.7		500			695			
115			310	.7		505			700			
120			315	.7		510			ANODE	DEPTH	NO.	FUL
125			320	.7		515					COKE	COK
130			325	.7		520			1	450	2.2	4.8
135			330	1.0		525			2	440	2.3	5.4
140			335	1.7		530			3	425	2.0	5.1
145			340	1.5		535			4	415	2.2	5.1
150	1.7		345	1.6		540			5	405	2.4	6.1
155	2.3	12	350	1.7		545			6	395	2.3	5.1
160	2.5		355	1.9	10	550			7	385	2.1	5.1
165	1.9		360	2.5		555			8	375	2.4	5.6
170	1.1		365	2.3	9	560			9	365	2.3	5.1
175	1.0		370	2.0		565			10	355	2.1	5.5
180	1.2		375	2.4	8	570			11	190	1.8	5.0
185	1.7		380	2.4		575			12	155	2.6	6.2
190	1.8	11	385	2.1	7	580			13			
195	1.7		390	2.0		585			14			
200	1.7		395	2.3	6	590			15			
205	1.7		400	2.0		595			16			
210	1.4		405	2.5	5	600			17			
215	1.7		410	2.3		605			18			
220	1.4		415	2.0	4	610			19			
225	.8		420	2.2		615			20			
230	.5		425	2.0	3	620			21			
235	.5		430	1.6		625			22			
240	.4		435	1.5		630			23			
245	.4		440	2.4	2	635			24			
250	.5		445	2.1		640			25			
255	.8		450	2.3	1	645			26			
260	1.3		455	2.4		650			27			
265	1.4		460	2.2		655			28			
270	.9		465	TD 465		660			29			
275	.7		470			665			30			
280	.7		475			670						
285	1.1		480			675						
290	1.3		485			680						

DISTRIBUTION: Original - permanent CPS FILE

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Division Corrosion Supervisor

COPY

Region Corrosion Specialist

API WATER ANALYSIS REPORT FORM

2254W

Laboratory No. <u>25910909-1E</u>		Company <u>MERIDIAN OIL</u>		Sample No.	Date Sampled <u>9-3-91</u>
Field	Legal Description <u>G-9, 27-6</u>	County or Parish <u>RIO ARriba</u>		State <u>N.M.</u>	
Lease or Unit	Well <u>SJ 28-6 #205</u>	Depth <u>110'</u>	Formation <u>Water Table</u>	Water, B/D	
Type of Water (Produced, Supply, etc.)		Sampling Point <u>DEEPWELL GR. BED FOR C.P.</u>		Sampled By <u>D. ASHWORTH</u>	

DISSOLVED SOLIDS

CATIONS

	mg/l	me/l
Sodium, Na (calc.)	<u>450</u>	<u>20</u>
Calcium, Ca	<u>200</u>	<u>10</u>
Magnesium, Mg	<u>2.4</u>	<u>0.2</u>
Barium, Ba		

OTHER PROPERTIES

pH

Specific Gravity, 60/60 F.

Resistivity (ohm-meters) 72° F.

Total Dissolved Solids (calc.)

2100.

ANIONS

Chloride, Cl

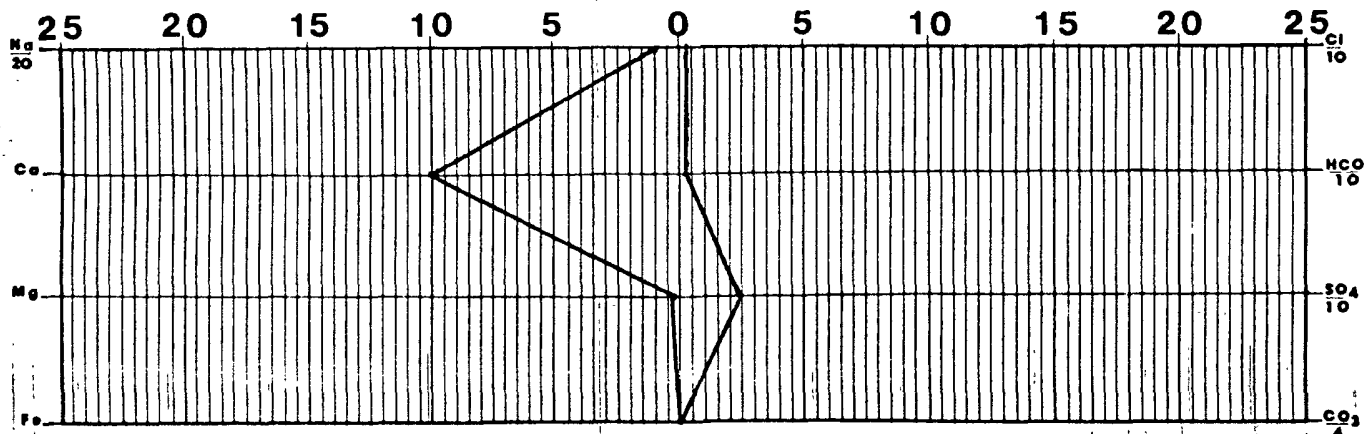
Sulfate, SO_4 Carbonate, CO_3 Bicarbonate, HCO_3

<u>110</u>	<u>3.0</u>
<u>1200</u>	<u>24</u>
<u>0</u>	<u>0</u>
<u>170</u>	<u>2.7</u>

Iron, Fe (total)

Sulfide, as H_2S

REMARKS & RECOMMENDATIONS:



Date Received <u>9/9/91</u>	Preserved <u>No</u>	Date Analyzed <u>9/9-11/91</u>	Analyzed By <u>FD</u>
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TECH, Inc.
 333 East Main
 Farmington
 New Mexico
 87401
 505/327-3311

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICOOperator Meridian Oil Location: Unit E Sec. 9 Twp 27 Rng 6Name of Well/Wells or Pipeline Serviced San Juan 28-6 #2054 #4762254-WElevation 6490 Completion Date 9-3-91 Total Depth 465' Land Type FCasing Strings, Sizes, Types & Depths 100 8" PUCIf Casing Strings are cemented, show amounts & types used yes-23 Sacks

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

NoneDepths & thickness of water zones with description of water: Fresh, Clear,
Salty, Sulphur, Etc. 110' FreshDepths gas encountered: NoneGround bed depth with type & amount of coke breeze used: 465'Asbury Coke - 142 BagsDepths anodes placed: #1-450, #2-440, #3-425, #4-415, #5-405, #6-395
#7-385, #8-375, #9-365, #10-355, #11-190, #12-155Depths vent pipes placed: From Surface to 465'Vent pipe perforations: From 150' to 465'

Remarks:

RECEIVED
FEB 24 1992OIL 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.

CPS GROUND BED CONSTRUCTION WORKSHEET

CPS# 2254-4	P/L NAME(S), NUMBER(S) San Juan 28-6 #205 & #476					
WO # M580	TOTAL	VOLTS 12.5	AMPS 22.6	OHMS .55	DATE 9-3-91	NAME David Ashworth

REMARKS (notes for construction log)

H₂O-110'

DEPTH	LOG ANODE	ANODE #	DEPTH	LOG ANODE	ANODE #	DEPTH	LOG ANODE	ANODE #	DEPTH	LOG ANODE	ANODE #	
100			295	1.2		490			685			
105			300	1.0		495			690			
110			305	.7		500			695			
115			310	.7		505			700			
120			315	.7		510			ANODE	DEPTH	NO.	FULLY
125			320	.7		515			#		COKE	COKE
130			325	.7		520			1	450	2.2	4.8
135			330	1.0		525			2	440	2.3	5.2
140			335	1.7		530			3	425	2.0	5.3
145			340	1.5		535			4	415	2.2	5.7
150	1.7		345	1.6		540			5	405	2.4	6.1
155	2.3	12	350	1.7		545			6	395	2.3	5.5
160	2.5		355	1.9	10	550			7	385	2.1	5.2
165	1.9		360	2.5		555			8	375	2.4	5.6
170	1.1		365	2.3	9	560			9	365	2.3	5.6
175	1.0		370	2.0		565			10	355	2.1	5.5
180	1.2		375	2.4	8	570			11	190	1.8	5.0
185	1.7		380	2.4		575			12	155	2.6	6.2
190	1.8	11	385	2.1	7	580			13			
195	1.7		390	2.0		585			14			
200	1.7		395	2.3	6	590			15			
205	1.7		400	2.0		595			16			
210	1.4		405	2.5	5	600			17			
215	1.7		410	2.3		605			18			
220	1.4		415	2.0	4	610			19			
225	.8		420	2.2		615			20			
230	.5		425	2.0	3	620			21			
235	.5		430	1.6		625			22			
240	.4		435	1.5		630			23			
245	.4		440	2.4	2	635			24			
250	.5		445	2.1		640			25			
255	.8		450	2.3	1	645			26			
260	1.3		455	2.4		650			27			
265	1.4		460	2.2		655			28			
270	.9		465	FD-465		660			29			
275	.7		470			665			30			
280	.7		475			670						
285	1.1		480			675						
290	1.3		485			680						

DISTRIBUTION -- original -- permanent CPS FILE

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copy -- Region Corrosion Specialist

API WATER ANALYSIS REPORT FORM

Laboratory No. 25910909-1E 2254W

Company <u>MERIDIAN OIL</u>		Sample No.		Date Sampled <u>9-3-91</u>	
Field		Legal Description <u>G-9, 27-6</u>		County or Parish <u>RIO ARriba</u>	
Lease or Unit		Well <u>SJ 28-6 #205</u>		State <u>N.M.</u>	
Type of Water (Produced, Supply, etc.)		Depth <u>110'</u>		Formation <u>Water Table</u>	
Sampling Point <u>DEEPWELL GR. BED FOR C.P.</u>		Water, B/D		Sampled By <u>D. ASHWORTH</u>	

DISSOLVED SOLIDS

CATIONS

	mg/l	me/l
Sodium, Na (calc.)	<u>450</u>	<u>20</u>
Calcium, Ca	<u>200</u>	<u>10</u>
Magnesium, Mg	<u>2.4</u>	<u>0.2</u>
Barium, Ba		

OTHER PROPERTIES

pH	<u>7.8</u>
Specific Gravity, 60/60 F.	<u>1.0036</u>
Resistivity (ohm-meters) <u>72° F.</u>	<u>4.85</u>

Total Dissolved Solids (calc.)

2100.

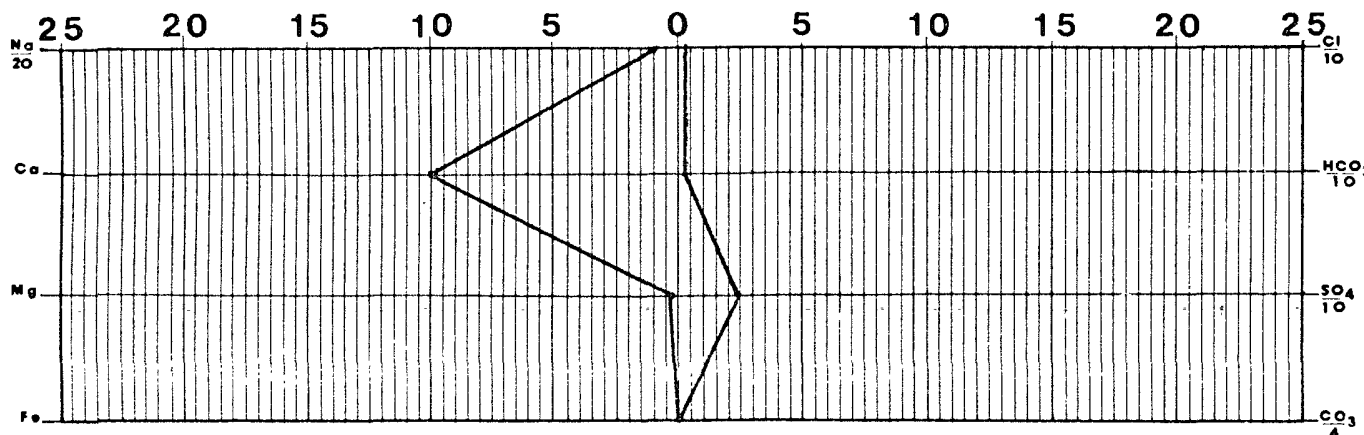
ANIONS

Chloride, Cl	<u>110</u>	<u>3.0</u>
Sulfate, SO_4	<u>1200</u>	<u>24</u>
Carbonate, CO_3	<u>0</u>	<u>0</u>
Bicarbonate, HCO_3	<u>170</u>	<u>2.7</u>

Iron, Fe (total)

Sulfide, as H_2S

REMARKS & RECOMMENDATIONS:



Date Received <u>9/9/91</u>	Preserved <u>No</u>	Date Analyzed <u>9/9-10/91</u>	Analyzed By <u>ED</u>
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#11A 30-039-22203

#89 30-039-82367

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 27 Rng 6Name of Well/Wells or Pipeline Serviced SAN JUAN 28-6 UNIT #11A, #89

cps 1607w

Elevation 6448 Completion Date 7/20/81 Total Depth 500' 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. 160' SAMPLE TAKENDepths gas encountered: N/AType & amount of coke breeze used: 6200 lbs.Depths anodes placed: 470', 460', 450', 370', 355', 345', 215', 205', 180', 170'Depths vent pipes placed: 495'Vent pipe perforations: 360'Remarks: gb #1**RECEIVED**
MAY 31 1991.
OIL CON. DIV.
DIST. 3

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

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

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

(2" x 60" DIAMETER)

Completion Date 7/20/81

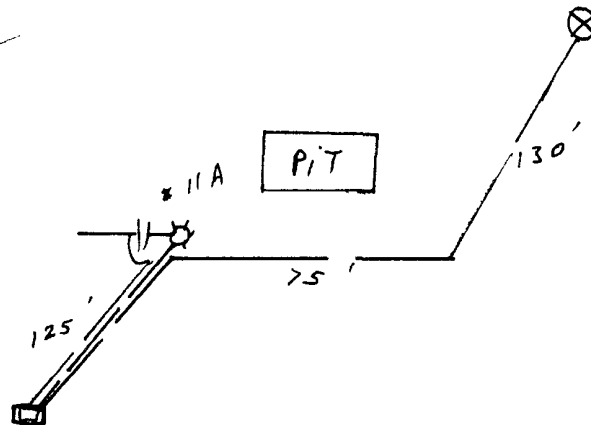
Well Name S.J. 28-6 #11A S.J. 28-6 #89		Location SE 9-27-6		CPS No. 1607 W	
Type & Size Bit Used 6 3/4"				Work Order No. 57853-21-50-20 40527-21-50-20	
Anode Hole Depth 500' T.D. 495'	Total Drilling Rig Time	Total Lbs. Coke Used 6,300#	Lost Circulation Mat'l Used	No. Sacks Mud Used	
Anode Depth	# 1 470'	# 2 460'	# 3 450'	# 4 370'	# 5 355'
Anode Output (Amps)	# 1 3.9	# 2 3.6	# 3 3.3	# 4 2.2	# 5 2.6
Anode Depth	# 6 345'	# 7 215'	# 8 205'	# 9 180'	# 10 170'
Anode Output (Amps)	# 6 2.5	# 7 3.7	# 8 3.7	# 9 4.5	# 10 4.7
Anode Depth	# 11	# 12	# 13	# 14	# 15
Anode Output (Amps)	# 11	# 12	# 13	# 14	# 15
Total Circuit Resistance	Volts 12.1		Amps 16.6		Ohms .73
No. 8 C.P. Cable Used		No. 2 C.P. Cable Used			

Remarks: STATIC ON S.J. 28-6 #11A 600' N. = .95V STATIC ON S.J. 28-6 #89 600' E. = .90V
(UNIONS CHECKED OK) DRILLER SAID WATER AT 160'. APPROX. 1/2 GAL/MIN DRILLED TO 170'
ON FRIDAY. WATER STANDING IN HOLE ON MONDAY AT 150'. TOOK WATER SAMPLE.
DRILLED TO 500'. LOGGED 495'. INSTALLED 495' OF 1" P.V.C. VENT PIPE PERFORATED
360'.
HAULED COKE BREEZE IN BULK. EST. 6200 LB. OF COKE IN HOLE

All Construction Completed

DITCH & 1 CABLE = 330' ✓
EXTRA CABLE = 270' ✓
60V 30A RECT. ✓
STUB POLE ✓
HOLE DEPTH - 5' ✓

GROUND BED LAYOUT SKETCH



	Req.	O.T.
H.N.	8	4

DISTRIBUTION:

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

6448
#89

Date: _____

By: _____

SL 28-6 = 11 A

205 1607 W

H. 2 27-13-21-20-20

2-28-6 "24

E 9-27-6

20527-21-50-20

MW	gals/mol
16 04	C1 6.4
30 07	C2 10.12
44 10	C3 10.42
58 12	C4 12.38
58 12	nC4 11.93
72 15	C5 13.85
72 15	nC5 13.71
86 18	C6 15.50
86 18	C6 15.57
100 21	C7 17.2
100 21	C7 17.46
114 23	C8 19.39
28 05	C2 9.64
42 08	C3 9.67

MW	MISC	gals/mol
32 00	O2	3.37
28 01	CO	4.19
44 01	CO2	6.38
64 06	SO2	5.50
34 08	H2S	5.17
28 01	N2	4.16
2 02	H2	3.38

160 - 1.4 330 - .4
 1.3 .4
 70 - 1.6 - ⑩ 40 - .4
 1.9 1.2 - ⑥
 80 - 1.6 - ⑨ 50 - 1.2
 1.0 1.0 - ⑥
 90 - .8 60 - .9
 .8 1.0
 200 - 1.0 70 - 1.0 - ④
 1.5 - ⑧ 1.0
 10 - 1.7 80 - .9
 1.5 - ⑦ .8
 20 - .7 90 - .7
 .6 .8
 30 - .4 400 - .8
 .3 .8
 40 - .3 10 - 1.0
 .2 .7
 50 - .3 20 - .7
 .5 .8
 60 - .3 30 - .6
 .4 .6
 70 - .4 40 - .5
 .4 1.0
 80 - .4 50 - 1.0 - ③
 .4 1.2
 90 - .4 60 - 1.1 - ②
 .4 1.1
 300 - .4 70 - 1.2 - ①
 .4 1.2
 10 - .4 80 - 1.1
 .5 1.3
 20 - .4 90 - 1.3
 .4 495 T.D

500 - Drilled To

Driller said water AT 160'
 Approx 1/2 gal/min. Drilled To 170'
 ON Friday. WATER STANDING in Hole
 ON MON. AT 150'. TOOK WATER
 SAMPLE. Drilled To 500'
 Logged 495'. INSTALLED 495' of
 1" P.V.C. VENT Pipe Perforated
 360'.

12.1 V, 16.6A = .73 W

7/20/81

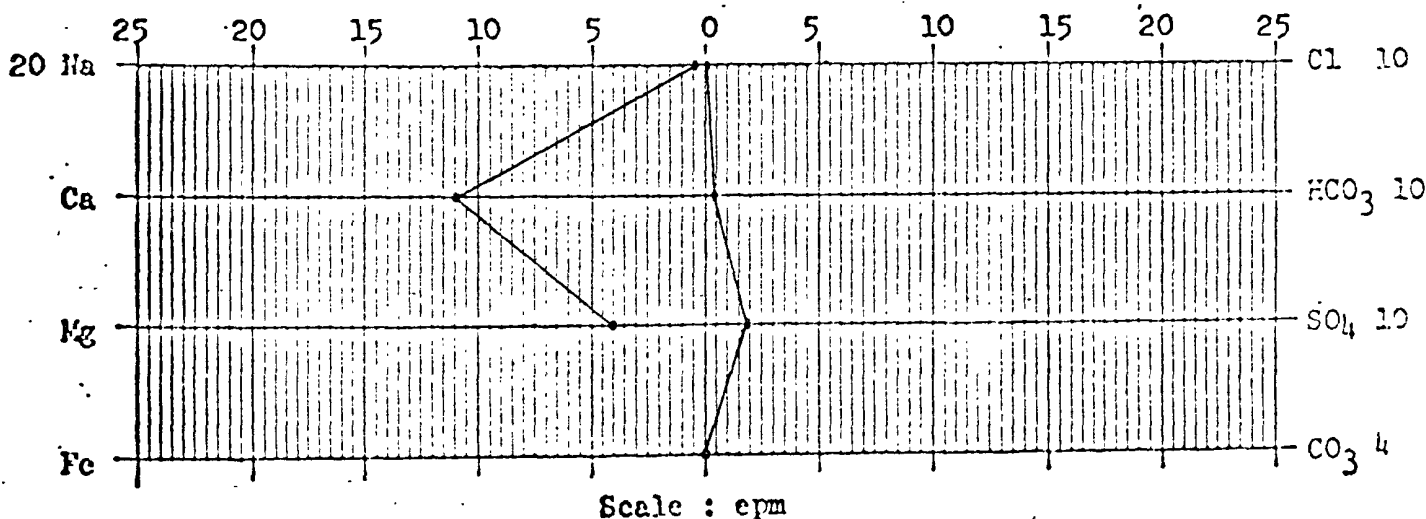
JL

1 - 476' - 1.7 - 3.9
 2 - 460' - 1.9 - 3.6
 3 - 450' - 1.7 - 3.3
 4 - 370' - 1.3 - 2.2
 5 - 355' - 1.7 - 2.6
 6 - 345' - 1.6 - 2.5
 7 - 215' - 1.7 - 3.7
 8 - 205' - 1.7 - 3.7
 9 - 180' - 1.8 - 4.5
 10 - 170' - 1.8 - 4.7

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

Analysis No. 1-10277 Date 7-28-81
Operator El Paso Natural Gas Well Name S.J. 28-6 #11A CPS 1607 W
Location SE 9-27-6 County Rio Arriba State New Mexico
Field Blanco Formation _____
Sampled From 160'
Date Sampled 7-20-81 By J. E. Stotts
Tbg. Press. _____ Csg. _____ Surface Csg. Press. _____
Sodium 191 ppm 8.3 epm Chloride 15 ppm .4 epm
Calcium 220 ppm 11 epm Bicarbonate 266 ppm 4.4 epm
Magnesium 49 ppm 4 epm Sulfate 890 ppm 18.5 epm
Iron Absent Carbonate 0 ppm 0 epm
H₂S Absent Hydroxide 0 ppm 0 epm
cc: R. A. Ullrich Total Solids Dissolved 1,678
E. R. Paulek
J. W. McCarthy
J. D. Evans
W. B. Shropshire
D. C. Adams
File
pH 7.6
Sp. Gr. 1.0035 At 60°F
Resistivity 444 ohm-cm at 75°F

Debbie Dantelaw PAS
Chemist



SJ 28-6 #11+ SJ 28-6 #89

LEASEWELL NO.CONTRACTOR DAYLIGHTRIG NO. 2REPORT NO. DATE July 20 1981

MORNINGEVENING

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.	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.	BIT NO.	NO. DC	SIZE	LENG.
5	AL	NO.	STANDS	SERIAL NO.	STANDS	SERIAL NO.	STANDS	SERIAL NO.	STANDS	SERIAL NO.	STANDS	SERIAL NO.	STANDS	SERIAL NO.	STANDS
SIZE	SINGLES	SIZE	SINGLES	SIZE	SINGLES	SIZE	SINGLES	SIZE	SINGLES	SIZE	SINGLES	SIZE	SINGLES	SIZE	SINGLES
TYPE	DOWN ON KELLY	TYPE	DOWN ON KELLY	TYPE	DOWN ON KELLY	TYPE	DOWN ON KELLY	TYPE	DOWN ON KELLY	TYPE	DOWN ON KELLY	TYPE	DOWN ON KELLY	TYPE	DOWN ON KELLY
MAKE	TOTAL DEPTH	MAKE	TOTAL DEPTH	MAKE	TOTAL DEPTH	MAKE	TOTAL DEPTH	MAKE	TOTAL DEPTH	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	Time	Wt.	Vis.	Time	Wt.	Vis.	Time	Time	Wt.	Vis.	Time	Wt.	Vis.	Time

FROM	TO	TIME BREAKDOWN	FROM	TO	TIME BREAKDOWN	FROM	TO	TIME BREAKDOWN
0	100	Sandy shale	400	440	Sand			
100	160	Shale	440	500	Shale			
160	190	Shale						
190	240	Sandy shale						
240	350	Sand						
350	400	Sandy shale						

REMARKS -
Water 160 1/2 Gallons Min.
Drilled 500 TD 495

REMARKS -

REMARKS -

SIGNED: Toolpusher [Signature]

Company Supervisor

#54 = 30-039-07101
#103 = 30-039-07120

4802

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICO
(Submit 3 copies to OCD Aztec Office)Operator MERIDIAN OIL Location: Unit N Sec. 7 Twp 27 Rng 6Name of Well/Wells or Pipeline Serviced SAN JUAN 28-6 UNIT #54, #103

cps 680w

Elevation 6563' Completion Date 9/9/88 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/A

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

Fresh, Clear, Salty, Sulphur, Etc. 140'**RECEIVED**

MAY 31 1991

Depths gas encountered: N/A**OIL CON. DIV**
DIST. 3Type & amount of coke breeze used: N/ADepths anodes placed: 380', 374', 367', 360', 353', 346', 339', 332', 325', 145'Depths vent pipes placed: 450' OF 1" PVC VENT PIPEVent pipe perforations: BOTTOM 320'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.

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

WELL CASING
CATHODIC PROTECTION CONSTRUCTION REPORT
DAILY LOGDrilling Log (Attach Hereto) ☒Completion Date 9-9-88

CPS #	Well Name, Line or Plant:	Work Order #	Strat:	Ina. Union Check
680W	S.J. 28-6 #34 " " #103	49604A ✓ 50502A ✓		<input checked="" type="checkbox"/> Good <input type="checkbox"/> Bad
Location:	Anode Size:	Anode Type:	Size Bit:	
N7-27-6	2" x 60"	Duriron	6 3/4	
Depth Drilled	Depth Logged	Drilling & g. Time	Total Lin. Cable Used	Low Circulation Mat. Used
460'	450'			
Anode Depth	Anode Output (Amps)	Anode Depth	Anode Output (Amps)	
= 1 380	= 2 3.4	= 3 3.67	= 4 3.60	= 5 3.53
= 6 3.46	= 7 3.39	= 8 3.32	= 9 3.25	= 10 3.18
= 1 3.0	= 2 3.1	= 3 2.9	= 4 3.0	= 5 3.3
= 6 3.3	= 7 3.0	= 8 2.6	= 9 2.2	= 10 2.5
Total Circuit Resistance	Volts	Amps	Ohms	
	12.14	14.0	.86	

Remarks: Water was at 140'; sample was taken. Installed 450' of 1" PVC vent pipe, bottom 325' perforated. Drilled two holes, lost drill bit cones in hole #1.

46944670 00-2

AB 4074.00

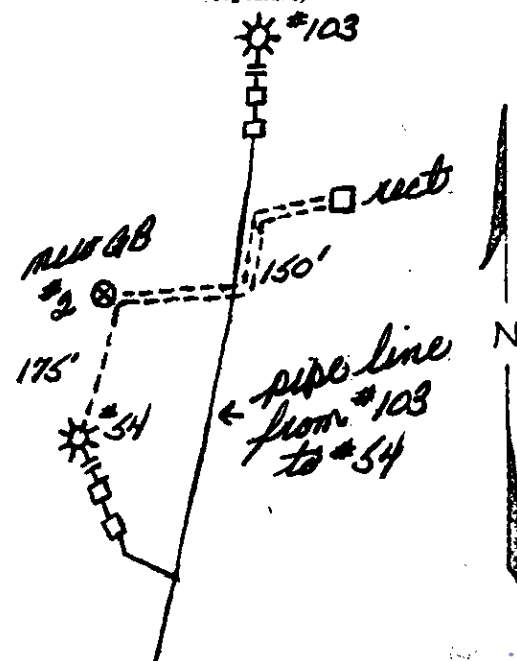
275-3-1303800-5

Rectifier Size: _____ V _____ A
 Add'l Depth: _____
 Depth Credit: 60' @ 3.50 = 175.00 ✓
 Extra Cable: 170' @ .24 = 40.80 ✓
 Ditch & 1 Cable: 325' @ .70 = 227.50 ✓

All Construction Completed

Cabren Rodman
 (Signature)

25' Meter Pole: _____
 20' Meter Pole: _____
 10' Stub Pole: _____
 Junction Box: 1 @ 225.00 = 225.00
4392.30
tax 219.62
4611.92



D. CRASS

DRILLING C.

CPC 680W

Drill No. 3

DRILLER'S WELL LOG

S. P. No. San Juan 28-6 #54 Date 9-9-88
 Client Meridian Oil Co. Prospect _____
 County Rio Arriba State New Mex.

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

FROM	TO	FORMATION — COLOR — HARDNESS
0	30	sandstone
30	45	shale
45	80	sandstone
80	90	shale
90	130	sandstone
130	140	sand
140	150	shale
150	390	sandstone
390	395	shale
395	460	sandstone

Mud _____ Bron _____ Lime _____

Rock Bit Number _____ Make _____

Remarks: Water @ 140

Driller

Lennie Brown

1008

3b-039-07149

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. 7 Twp 27 Rng 6Name of Well/Wells or Pipeline Serviced SAN JUAN 28-6 UNIT #43cps 1287w₁Elevation 6174' Completion Date 9/8/78 Total Depth 198' Land Type* N/ACasing, Sizes, Types & Depths 20' OF 8" PVC SURFACE 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. 35' SAMPLE TAKENDepths gas encountered: N/AType & amount of coke breeze used: 26 SACKSDepths anodes placed: 155', 115', 105', 95', 85', 75', 65', 55', 45', 35'Depths vent pipes placed: 180'Vent pipe perforations: 160'Remarks: gb #1**RECEIVED**
MAY 31 1991
OIL CON. DIV.
DIST. 3

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

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

CATHODIC PROTECTION CONSTRUCTION REPORT

DAILY LOG

Drilling Log (Attach Hereto)

Completion Date 9/8/78

Well Name S.J. 28-6 #43	Location NE 7-27-6	CPS No. 1287 W
Type & Size Bit Used 6 3/4"		Work Order No. 52717-19
Anode Hole Depth 6 3/4-198	Total Drilling Rig Time	Total Lbs. Coke Used 26
	Lost Circulation Mat'l Used	No. Sacks Mud Used
Anode Depth		
1 155'	#2 115'	#3 105'
#4 95'	#5 85'	#6 75'
#7 65'	#8 55'	#9 45'
#10 35'		
Anode Output (Amps)		
1 2.1	#2 2.0	#3 2.5
#4 3.6	#5 2.7	#6 3.0
#7 4.0	#8 3.4	#9 1.8
#10 1.8		
Anode Depth		
11	#12	#13
#14	#15	#16
#17	#18	#19
#20		
Anode Output (Amps)		
11	#12	#13
#14	#15	#16
#17	#18	#19
#20		
Total Circuit Resistance		
Volts 12.1	Amps 12.1	Ohms 1.0
No. 8 C.P. Cable Used		No. 2 C.P. Cable Used

Remarks: DRILLER SAID WATER AT 35' APPROX. 65 GAL/MIN. DRILLED TO 200', LOGGED 198'. INSTALLED 20' OF 8" P.V.C. SURFACE CASING. INSTALLED 180' OF 1" P.V.C. VENT PIPE. PREFER A TO B TO 160'.

STATIC 600' W. = .89 V.

Ditch #1 CABLE = 407'

EXTRA CABLE = 240'

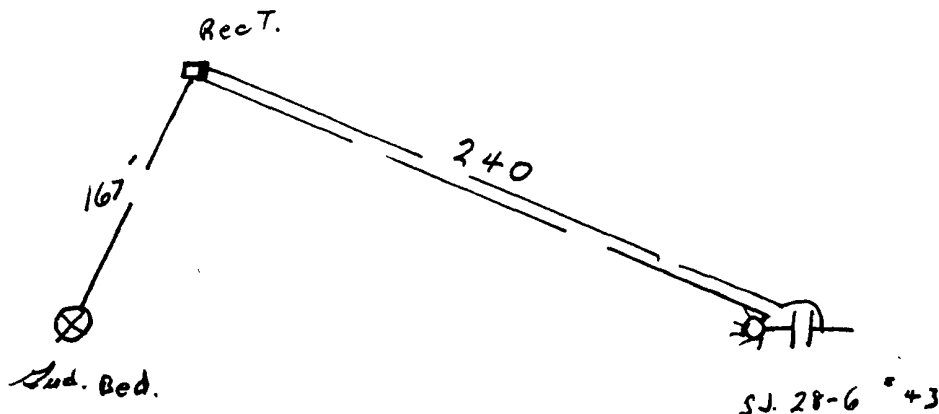
20' Meter Loop Pole & 40V 16A Rect.

Hole Depth - 302'

GROUND BED LAYOUT SKETCH

All Construction Completed

JE Stoltz
(Signature)



DISTRIBUTION:

WHITE - Division Corrosion Office

YELLOW - Area Corrosion Office

PINK - Originator File

6674

El Paso Natural Gas Company
ENGINEERING CALCULATION

Sheet: of

Date:

By:

File:

CPS * 12.87 W

S.J. * 28-6 * 43

NE 7-27-6

52717-19

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 17.48
114.23	C ₈ 19.39
28.08	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

35 - 1.1 - ⑩

40 - 1.1

50 - 1.1 - ⑨

60 - 1.1 - ⑧

70 - 1.1 - ⑦

80 - 1.1 - ⑥

90 - 1.1 - ⑤

100 - 1.1 - ④

110 - 1.1 - ③

120 - 1.1 - ②

130 - 1.1 - ①

140 - 1.1 - ①

150 - 1.1 - ①

160 - 1.1 - ①

170 - 1.1 - ①

180 - 1.1 - ①

190 - 1.1 - ①

200 - 1.1 - ①

210 - 1.1 - ①

220 - 1.1 - ①

230 - 1.1 - ①

240 - 1.1 - ①

250 - 1.1 - ①

260 - 1.1 - ①

270 - 1.1 - ①

280 - 1.1 - ①

290 - 1.1 - ①

300 - 1.1 - ①

310 - 1.1 - ①

320 - 1.1 - ①

330 - 1.1 - ①

340 - 1.1 - ①

350 - 1.1 - ①

360 - 1.1 - ①

370 - 1.1 - ①

380 - 1.1 - ①

390 - 1.1 - ①

400 - 1.1 - ①

410 - 1.1 - ①

420 - 1.1 - ①

430 - 1.1 - ①

440 - 1.1 - ①

450 - 1.1 - ①

460 - 1.1 - ①

470 - 1.1 - ①

480 - 1.1 - ①

490 - 1.1 - ①

500 - 1.1 - ①

Driller said water at 35', approx 65 gal/min. Drilled to 200' logged 198' installed 180' of 1" P.V.C. vent pipe perforated 160' installed 20' of 8" P.V.C. surface casing.

1 = 155' 1.1 - 2.1

2 = 115' 1.2 - 2.0

3 = 105' 1.6 - 2.5

4 = 95' 2.4 - 3.6

5 = 85' 1.6 - 2.7

6 = 75' 2.1 - 2.0

7 = 65' 2.9 - 4.0

8 = 55' 2.3 - 3.4

9 = 45' 1.2 - 1.8

10 = 35' 1.2 - 1.8

12.1 V. 12.1 A.

1.0 Ω

198' T.D.

200 -

9/8/78

js

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

Analysis No. 1-9337 Date SEPTEMBER 19, 1978

Operator EPNG Well Name CPS #287W SJ 28-6 #43

Location 7-27-6 County RIO ARRIBA State NM

Field Formation

Sampled From 35' 65 gal/m

Date Sampled By

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

Sodium 547 23.8 Chloride 14 .4

Calcium 446 22.3 Bicarbonate 320 5.2

Magnesium 108 8.9 Sulfate 2375 49.4

Iron PRESENT Carbonate 0 0

H₂S ABSENT Hydroxide 0 0

cc: D.C.Adams Total Solids Dissolved 1715

R.A.Ullrich

E.R.Paulek

J.W.McCarthy

A.M.Smith

W.B.Shropshire

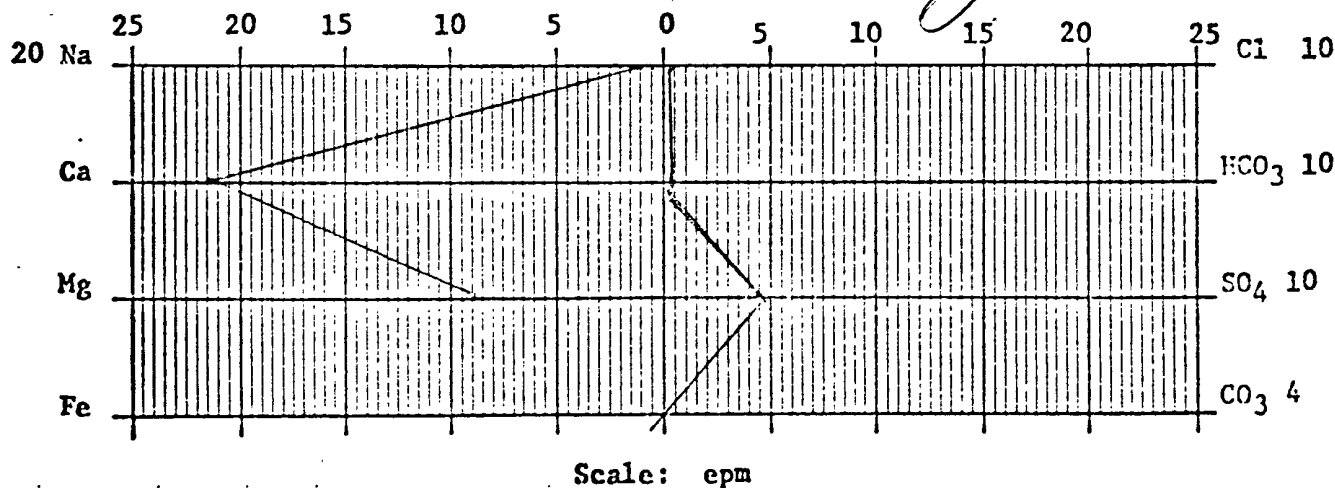
File

pH 7.75

Sp. Gr. 1.0038 at 60°F

Resistivity 270 ohm-cm at 71 °F

Alton James
 Chemist



DAILY DRILLING REPORT

LEASE

WELL NO. 1287 CONTRACTOR

25 Cxtd. RIG NO. 2

REPORT NO.

DATE _____

MORNING

DAYLIGHT

EVENING

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

[illegible]

REMARKS -		FROM	TO	TIME BREAKDOWN	
0		826		7:11	Sandy
20		35		2:54	Sand
35		80		Shale	
5		90		Sandy	Shale
90		110		Sandy	
110		140		Sandy	Shale

REMARKS -

REMARKS:

REMARKS -

Valued at 8000

1986/87

cat 35 25 65 g.s. m.

Set 206 of 8" casing

SIGNED: Toolpusher

Ed McCard

- (Company Supervisor)

#203M 30-039-25451

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICOOperator Meridian Oil Inc. Location: Unit 0 Sec. 7 Twp 27 Rng 06

Name of Well/Wells or Pipeline Serviced _____

SAN JUAN 28-6 #203MElevation 6538' Completion Date 5/24/95 Total Depth 485' Land Type FCasing Strings, Sizes, Types & Depths 3/28 Set 99' of 8" PVC Casing.NO GAS, WATER, OR BOULDERS WERE ENCOUNTERED DURING CASING.If Casing Strings are cemented, show amounts & types used Cemented
WITH 20 SACKS.If Cement or Bentonite Plugs have been placed, show depths & amounts used
NONEDepths & thickness of water zones with description of water: Fresh, Clear,
Salty, Sulphur, Etc. HIT FRESH WATER AT 135'Depths gas encountered: NONEGround bed depth with type & amount of coke breeze used: 485' Depth.Used 128 SACKS OF Asbury 218R (6400#)Depths anodes placed: 465', 458', 451', 444', 437', 430', 423', 416', 409', 375', 365', 355', 170', 160', + 150' -Depths vent pipes placed: SURFACE TO 485'Vent pipe perforations: BOTTOM 360'

Remarks: _____

RECEIVED
JAN 11 1996OIL 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.



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: AM14058
PM: Dwayne Dixon
AFE: N74996

2. Originating Site:

SJ 28-6 #22A

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

UL O Section 8 T27N R6W 36.583896, -107.486155

4. Source and Description of Waste:

Source: Remediation activities associated with a natural gas pipeline leak.

Description: Hydrocarbon/Condensate impacted soil associated natural gas pipeline release.

Estimated Volume 50 yd³ / bbls Known Volume (to be entered by the operator at the end of the haul) 150/10 yd³ / bbls

5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

I, Thomas Long *Thomas Long*, representative or authorized agent for Enterprise Products Operating do hereby

Generator Signature

certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

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

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

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

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, Thomas Long *Thomas Long* 10-1-2024, representative for Enterprise Products Operating authorizes Envirotech, Inc. to complete

Generator Signature

the required testing/sign the Generator Waste Testing Certification.

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

5. Transporter: TBD**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: Envirotech Manager

DATE: 10/2/24

SIGNATURE: *Greg Crabtree*

TELEPHONE NO.:

505-632-0615

Surface Waste Management Facility Authorized Agent



APPENDIX D

Photographic Documentation

SITE PHOTOGRAPHS

Closure Report
Enterprise Field Services, LLC
San Juan 28-6 #22A (10/01/24)
Ensolum Project No. 05A1226347

**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
San Juan 28-6 #22A (10/01/24)
Ensolum Project No. 05A1226347



Photograph 4

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: 388893
Date: Tuesday, October 1, 2024 1:59:38 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#) nAPP2427549504.

The sampling event is expected to take place:

When: 10/03/2024 @ 10:00

Where: O-08-27N-06W 0 FNL 0 FEL (36.583896,-107.486155)

Additional Information: Ensoum, LLC

Additional Instructions: 36.583896,-107.486155

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: Thursday, January 16, 2025 1:48 PM

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

Subject: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 421737

[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#) nAPP2427549504.

The sampling event is expected to take place:

When: 01/21/2025 @ 12:00

Where: O-08-27N-06W 0 FNL 0 FEL (36.583896,-107.486155)

Additional Information: Ensolum LLC

Additional Instructions: 36.583896,-107.486155

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
San Juan 28-6 #22A (10/01/24)
SOIL ANALYTICAL SUMMARY

Sample I.D.	Date	Sample Type C- Composite G - Grab	Sample Depth (feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX ¹ (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total Combined TPH (GRO/DRO/MRO) ¹ (mg/kg)	Chloride (mg/kg)
New Mexico Energy, Mineral & Natural Resources Department Oil Conservation Division Closure Criteria (Tier I)				10	NE	NE	NE	50	NE	NE	NE	100	600
Excavation Composite Soil Samples													
S-1	10.03.24	C	10	<0.018	<0.035	<0.035	<0.070	ND	<3.5	<9.6	<48	ND	66
S-2	10.03.24	C	10	<0.019	<0.038	<0.038	<0.077	ND	<3.8	<9.1	<46	ND	67
S-3	10.03.24	C	0 to 10	<0.021	<0.042	<0.042	<0.083	ND	<4.2	<9.5	<47	ND	<59
S-4	10.03.24	C	0 to 10	<0.020	<0.039	<0.039	<0.079	ND	<3.9	<9.5	<47	ND	<60
S-5	10.03.24	C	0 to 10	<0.019	<0.039	<0.039	<0.078	ND	<3.9	<9.4	<47	ND	<60
S-6	10.03.24	C	0 to 10	<0.021	<0.042	<0.042	<0.085	ND	<4.2	<9.4	<47	ND	<60
S-7	10.03.24	C	0 to 10	<0.021	<0.042	<0.042	<0.085	ND	<4.2	<9.5	<47	ND	<59
S-8	10.03.24	C	0 to 10	<0.019	<0.037	<0.037	<0.075	ND	<3.7	<9.3	<46	ND	<60
Backfill Composite Soil Sample													
BF-1	1.21.25	C	BF	<0.025	<0.049	<0.049	<0.098	ND	<4.9	<9.4	<47	ND	<61

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 = Backfill sample



APPENDIX G

Laboratory Data Sheets & Chain of Custody Documentation



Environment Testing

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2

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4

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7

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10

11

ANALYTICAL REPORT

PREPARED FOR

Attn: Kyle Summers
Ensolum
606 S Rio Grande
Suite A
Aztec, New Mexico 87410
Generated 10/10/2024 1:21:24 PM

JOB DESCRIPTION

SJ 28-6 #22 A

JOB NUMBER

885-13160-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.
Released to Imaging: 6/11/2025 7:54:51 AM

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



Generated
10/10/2024 1:21:24 PM

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

Client: Ensolum
Project/Site: SJ 28-6 #22 A

Laboratory Job ID: 885-13160-1

Table of Contents

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Definitions/Glossary

Client: Ensolum
Project/Site: SJ 28-6 #22 A

Job ID: 885-13160-1

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: SJ 28-6 #22 A

Job ID: 885-13160-1

Job ID: 885-13160-1

Eurofins Albuquerque

Job Narrative 885-13160-1

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 10/4/2024 7:50 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 5.9°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: SJ 28-6 #22 A

Job ID: 885-13160-1

Client Sample ID: S-1 Lab Sample ID: 885-13160-1
Date Collected: 10/03/24 10:00 Matrix: Solid
Date Received: 10/04/24 07:50

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		10/04/24 09:10	10/04/24 11:33	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	111		35 - 166			10/04/24 09:10	10/04/24 11:33	1	

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.018	mg/Kg		10/04/24 09:10	10/04/24 11:33	1	
Ethylbenzene	ND		0.035	mg/Kg		10/04/24 09:10	10/04/24 11:33	1	
Toluene	ND		0.035	mg/Kg		10/04/24 09:10	10/04/24 11:33	1	
Xylenes, Total	ND		0.070	mg/Kg		10/04/24 09:10	10/04/24 11:33	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	105		48 - 145			10/04/24 09:10	10/04/24 11:33	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		10/04/24 08:55	10/04/24 11:02	1	
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		10/04/24 08:55	10/04/24 11:02	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	91		62 - 134			10/04/24 08:55	10/04/24 11:02	1	

Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	66		60	mg/Kg		10/04/24 09:57	10/04/24 11:21	20	

Client Sample Results

Client: Ensolum
Project/Site: SJ 28-6 #22 A

Job ID: 885-13160-1

Client Sample ID: S-2

Lab Sample ID: 885-13160-2

Date Collected: 10/03/24 10:05

Matrix: Solid

Date Received: 10/04/24 07:50

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		10/04/24 09:10	10/04/24 11:54	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	101		35 - 166			10/04/24 09:10	10/04/24 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		10/04/24 09:10	10/04/24 11:54	1	
Ethylbenzene	ND		0.038	mg/Kg		10/04/24 09:10	10/04/24 11:54	1	
Toluene	ND		0.038	mg/Kg		10/04/24 09:10	10/04/24 11:54	1	
Xylenes, Total	ND		0.077	mg/Kg		10/04/24 09:10	10/04/24 11:54	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	106		48 - 145			10/04/24 09:10	10/04/24 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		9.1	mg/Kg		10/04/24 08:55	10/04/24 11:14	1	
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		10/04/24 08:55	10/04/24 11:14	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	106		62 - 134			10/04/24 08:55	10/04/24 11:14	1	
Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	67		60	mg/Kg		10/04/24 09:57	10/04/24 11:58	20	

Client Sample Results

Client: Ensolum
Project/Site: SJ 28-6 #22 A

Job ID: 885-13160-1

Client Sample ID: S-3
Date Collected: 10/03/24 10:10
Date Received: 10/04/24 07:50

Lab Sample ID: 885-13160-3
Matrix: Solid

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		4.2	mg/Kg		10/04/24 09:10	10/04/24 12:16		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	104		35 - 166			10/04/24 09:10	10/04/24 12:16		1
Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.021	mg/Kg		10/04/24 09:10	10/04/24 12:16		1
Ethylbenzene	ND		0.042	mg/Kg		10/04/24 09:10	10/04/24 12:16		1
Toluene	ND		0.042	mg/Kg		10/04/24 09:10	10/04/24 12:16		1
Xylenes, Total	ND		0.083	mg/Kg		10/04/24 09:10	10/04/24 12:16		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	106		48 - 145			10/04/24 09:10	10/04/24 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		9.5	mg/Kg		10/04/24 08:55	10/04/24 11:27		1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		10/04/24 08:55	10/04/24 11:27		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	91		62 - 134			10/04/24 08:55	10/04/24 11:27		1
Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	ND		59	mg/Kg		10/04/24 09:57	10/04/24 12:10		20

Client Sample Results

Client: Ensolum
Project/Site: SJ 28-6 #22 A

Job ID: 885-13160-1

Client Sample ID: S-4
Date Collected: 10/03/24 10:15
Date Received: 10/04/24 07:50

Lab Sample ID: 885-13160-4
Matrix: Solid

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		3.9	mg/Kg		10/04/24 09:10	10/04/24 12:38	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	102		35 - 166			10/04/24 09:10	10/04/24 12:38	1	
Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.020	mg/Kg		10/04/24 09:10	10/04/24 12:38	1	
Ethylbenzene	ND		0.039	mg/Kg		10/04/24 09:10	10/04/24 12:38	1	
Toluene	ND		0.039	mg/Kg		10/04/24 09:10	10/04/24 12:38	1	
Xylenes, Total	ND		0.079	mg/Kg		10/04/24 09:10	10/04/24 12:38	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	106		48 - 145			10/04/24 09:10	10/04/24 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		9.5	mg/Kg		10/04/24 08:55	10/04/24 11:39	1	
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		10/04/24 08:55	10/04/24 11:39	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	92		62 - 134			10/04/24 08:55	10/04/24 11:39	1	
Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	ND		60	mg/Kg		10/04/24 09:57	10/04/24 12:22	20	

Client Sample Results

Client: Ensolum
Project/Site: SJ 28-6 #22 A

Job ID: 885-13160-1

Client Sample ID: S-5

Lab Sample ID: 885-13160-5

Date Collected: 10/03/24 10:20

Matrix: Solid

Date Received: 10/04/24 07:50

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		3.9	mg/Kg		10/04/24 09:10	10/04/24 12:59		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	102		35 - 166			10/04/24 09:10	10/04/24 12:59		1
Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.019	mg/Kg		10/04/24 09:10	10/04/24 12:59		1
Ethylbenzene	ND		0.039	mg/Kg		10/04/24 09:10	10/04/24 12:59		1
Toluene	ND		0.039	mg/Kg		10/04/24 09:10	10/04/24 12:59		1
Xylenes, Total	ND		0.078	mg/Kg		10/04/24 09:10	10/04/24 12:59		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	103		48 - 145			10/04/24 09:10	10/04/24 12:59		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		10/04/24 08:55	10/04/24 11:52		1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		10/04/24 08:55	10/04/24 11:52		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	93		62 - 134			10/04/24 08:55	10/04/24 11:52		1
Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	ND		60	mg/Kg		10/04/24 09:57	10/04/24 12:35		20

Client Sample Results

Client: Ensolum
Project/Site: SJ 28-6 #22 A

Job ID: 885-13160-1

Client Sample ID: S-6

Lab Sample ID: 885-13160-6

Date Collected: 10/03/24 10:25

Matrix: Solid

Date Received: 10/04/24 07:50

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		4.2	mg/Kg		10/04/24 09:10	10/04/24 13:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		35 - 166			10/04/24 09:10	10/04/24 13:21	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.021	mg/Kg		10/04/24 09:10	10/04/24 13:21	1
Ethylbenzene	ND		0.042	mg/Kg		10/04/24 09:10	10/04/24 13:21	1
Toluene	ND		0.042	mg/Kg		10/04/24 09:10	10/04/24 13:21	1
Xylenes, Total	ND		0.085	mg/Kg		10/04/24 09:10	10/04/24 13:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		48 - 145			10/04/24 09:10	10/04/24 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		10/04/24 08:55	10/04/24 12:04	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		10/04/24 08:55	10/04/24 12:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	89		62 - 134			10/04/24 08:55	10/04/24 12:04	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		10/04/24 09:57	10/04/24 12:47	20

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Client Sample Results

Client: Ensolum
Project/Site: SJ 28-6 #22 A

Job ID: 885-13160-1

Client Sample ID: S-7
Date Collected: 10/03/24 10:30
Date Received: 10/04/24 07:50

Lab Sample ID: 885-13160-7
Matrix: Solid

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		4.2	mg/Kg		10/04/24 09:10	10/04/24 13:43		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	103		35 - 166			10/04/24 09:10	10/04/24 13:43		1
Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.021	mg/Kg		10/04/24 09:10	10/04/24 13:43		1
Ethylbenzene	ND		0.042	mg/Kg		10/04/24 09:10	10/04/24 13:43		1
Toluene	ND		0.042	mg/Kg		10/04/24 09:10	10/04/24 13:43		1
Xylenes, Total	ND		0.085	mg/Kg		10/04/24 09:10	10/04/24 13:43		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	104		48 - 145			10/04/24 09:10	10/04/24 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		9.5	mg/Kg		10/04/24 08:55	10/04/24 12:16		1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		10/04/24 08:55	10/04/24 12:16		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	98		62 - 134			10/04/24 08:55	10/04/24 12:16		1
Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	ND		59	mg/Kg		10/04/24 09:57	10/04/24 13:24		20

Client Sample Results

Client: Ensolum
Project/Site: SJ 28-6 #22 A

Job ID: 885-13160-1

Client Sample ID: S-8

Lab Sample ID: 885-13160-8

Date Collected: 10/03/24 10:35

Matrix: Solid

Date Received: 10/04/24 07:50

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		10/04/24 09:10	10/04/24 14:05		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	103		35 - 166			10/04/24 09:10	10/04/24 14:05		1
Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.019	mg/Kg		10/04/24 09:10	10/04/24 14:05		1
Ethylbenzene	ND		0.037	mg/Kg		10/04/24 09:10	10/04/24 14:05		1
Toluene	ND		0.037	mg/Kg		10/04/24 09:10	10/04/24 14:05		1
Xylenes, Total	ND		0.075	mg/Kg		10/04/24 09:10	10/04/24 14:05		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	103		48 - 145			10/04/24 09:10	10/04/24 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]	ND		9.3	mg/Kg		10/04/24 08:55	10/04/24 12:29		1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		10/04/24 08:55	10/04/24 12:29		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	94		62 - 134			10/04/24 08:55	10/04/24 12:29		1
Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	ND		60	mg/Kg		10/04/24 09:57	10/04/24 13:37		20

QC Sample Results

Client: Ensolum
Project/Site: SJ 28-6 #22 A

Job ID: 885-13160-1

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

Lab Sample ID: MB 885-13665/1-A

Matrix: Solid

Analysis Batch: 13706

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 13665

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		10/04/24 09:10	10/04/24 10:49	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		35 - 166			10/04/24 09:10	10/04/24 10:49	1

Lab Sample ID: LCS 885-13665/2-A

Matrix: Solid

Analysis Batch: 13706

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 13665

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics [C6 - C10]	25.0	23.2		mg/Kg		93	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	211		35 - 166				

Lab Sample ID: 885-13160-1 MS

Matrix: Solid

Analysis Batch: 13706

Client Sample ID: S-1

Prep Type: Total/NA

Prep Batch: 13665

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics [C6 - C10]	ND		17.6	18.4		mg/Kg		105	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	219		35 - 166						

Lab Sample ID: 885-13160-1 MSD

Matrix: Solid

Analysis Batch: 13706

Client Sample ID: S-1

Prep Type: Total/NA

Prep Batch: 13665

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		17.6	15.2		mg/Kg		87	70 - 130	19	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	202		35 - 166								

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-13665/1-A

Matrix: Solid

Analysis Batch: 13707

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 13665

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		10/04/24 09:10	10/04/24 10:49	1
Ethylbenzene	ND		0.050	mg/Kg		10/04/24 09:10	10/04/24 10:49	1
Toluene	ND		0.050	mg/Kg		10/04/24 09:10	10/04/24 10:49	1

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QC Sample Results

Client: Ensolum
Project/Site: SJ 28-6 #22 A

Job ID: 885-13160-1

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

Lab Sample ID: MB 885-13665/1-A

Matrix: Solid

Analysis Batch: 13707

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 13665

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		0.10	mg/Kg		10/04/24 09:10	10/04/24 10:49	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		48 - 145			10/04/24 09:10	10/04/24 10:49	1

Lab Sample ID: LCS 885-13665/3-A

Matrix: Solid

Analysis Batch: 13707

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 13665

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	1.00	1.03		mg/Kg		103	70 - 130
Ethylbenzene	1.00	1.04		mg/Kg		104	70 - 130
Toluene	1.00	1.04		mg/Kg		104	70 - 130
Xylenes, Total	3.00	3.09		mg/Kg		103	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	111		48 - 145				

Lab Sample ID: 885-13160-2 MS

Matrix: Solid

Analysis Batch: 13707

Client Sample ID: S-2

Prep Type: Total/NA

Prep Batch: 13665

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	ND		0.766	0.769		mg/Kg		100	70 - 130
Ethylbenzene	ND		0.766	0.767		mg/Kg		100	70 - 130
Toluene	ND		0.766	0.767		mg/Kg		100	70 - 130
Xylenes, Total	ND		2.30	2.25		mg/Kg		98	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	102		48 - 145						

Lab Sample ID: 885-13160-2 MSD

Matrix: Solid

Analysis Batch: 13707

Client Sample ID: S-2

Prep Type: Total/NA

Prep Batch: 13665

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		0.766	0.751		mg/Kg		98	70 - 130	2	20
Ethylbenzene	ND		0.766	0.766		mg/Kg		100	70 - 130	0	20
Toluene	ND		0.766	0.760		mg/Kg		99	70 - 130	1	20
Xylenes, Total	ND		2.30	2.27		mg/Kg		99	70 - 130	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	101		48 - 145								

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QC Sample Results

Client: Ensolum
Project/Site: SJ 28-6 #22 A

Job ID: 885-13160-1

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

Lab Sample ID: MB 885-13657/1-A

Matrix: Solid

Analysis Batch: 13651

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 13657

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		10/04/24 08:55	10/04/24 10:38	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		10/04/24 08:55	10/04/24 10:38	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	90		62 - 134			10/04/24 08:55	10/04/24 10:38	1

Lab Sample ID: LCS 885-13657/2-A

Matrix: Solid

Analysis Batch: 13651

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 13657

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Diesel Range Organics [C10-C28]	50.0	41.3		mg/Kg		83	60 - 135	
Surrogate	LCS %Recovery	LCS Qualifier	Limits					
Di-n-octyl phthalate (Surr)	90		62 - 134					

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-13671/1-A

Matrix: Solid

Analysis Batch: 13705

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 13671

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0	mg/Kg		10/04/24 09:57	10/04/24 10:56	1

Lab Sample ID: LCS 885-13671/2-A

Matrix: Solid

Analysis Batch: 13705

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 13671

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Chloride	30.0	28.3		mg/Kg		94	90 - 110	

Lab Sample ID: 885-13160-1 MS

Matrix: Solid

Analysis Batch: 13705

Client Sample ID: S-1

Prep Type: Total/NA

Prep Batch: 13671

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	
Chloride	66		30.0	92.3		mg/Kg		88	50 - 150	

Lab Sample ID: 885-13160-1 MSD

Matrix: Solid

Analysis Batch: 13705

Client Sample ID: S-1

Prep Type: Total/NA

Prep Batch: 13671

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	66		29.9	93.6		mg/Kg		92	50 - 150	1	20

Eurofins Albuquerque

QC Association Summary

Client: Ensolum

Project/Site: SJ 28-6 #22 A

Job ID: 885-13160-1

GC VOA

Prep Batch: 13665

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13160-1	S-1	Total/NA	Solid	5035	
885-13160-2	S-2	Total/NA	Solid	5035	
885-13160-3	S-3	Total/NA	Solid	5035	
885-13160-4	S-4	Total/NA	Solid	5035	
885-13160-5	S-5	Total/NA	Solid	5035	
885-13160-6	S-6	Total/NA	Solid	5035	
885-13160-7	S-7	Total/NA	Solid	5035	
885-13160-8	S-8	Total/NA	Solid	5035	
MB 885-13665/1-A	Method Blank	Total/NA	Solid	5035	
LCS 885-13665/2-A	Lab Control Sample	Total/NA	Solid	5035	
LCS 885-13665/3-A	Lab Control Sample	Total/NA	Solid	5035	
885-13160-1 MS	S-1	Total/NA	Solid	5035	
885-13160-1 MSD	S-1	Total/NA	Solid	5035	
885-13160-2 MS	S-2	Total/NA	Solid	5035	
885-13160-2 MSD	S-2	Total/NA	Solid	5035	

Analysis Batch: 13706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13160-1	S-1	Total/NA	Solid	8015M/D	13665
885-13160-2	S-2	Total/NA	Solid	8015M/D	13665
885-13160-3	S-3	Total/NA	Solid	8015M/D	13665
885-13160-4	S-4	Total/NA	Solid	8015M/D	13665
885-13160-5	S-5	Total/NA	Solid	8015M/D	13665
885-13160-6	S-6	Total/NA	Solid	8015M/D	13665
885-13160-7	S-7	Total/NA	Solid	8015M/D	13665
885-13160-8	S-8	Total/NA	Solid	8015M/D	13665
MB 885-13665/1-A	Method Blank	Total/NA	Solid	8015M/D	13665
LCS 885-13665/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	13665
885-13160-1 MS	S-1	Total/NA	Solid	8015M/D	13665
885-13160-1 MSD	S-1	Total/NA	Solid	8015M/D	13665

Analysis Batch: 13707

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13160-1	S-1	Total/NA	Solid	8021B	13665
885-13160-2	S-2	Total/NA	Solid	8021B	13665
885-13160-3	S-3	Total/NA	Solid	8021B	13665
885-13160-4	S-4	Total/NA	Solid	8021B	13665
885-13160-5	S-5	Total/NA	Solid	8021B	13665
885-13160-6	S-6	Total/NA	Solid	8021B	13665
885-13160-7	S-7	Total/NA	Solid	8021B	13665
885-13160-8	S-8	Total/NA	Solid	8021B	13665
MB 885-13665/1-A	Method Blank	Total/NA	Solid	8021B	13665
LCS 885-13665/3-A	Lab Control Sample	Total/NA	Solid	8021B	13665
885-13160-2 MS	S-2	Total/NA	Solid	8021B	13665
885-13160-2 MSD	S-2	Total/NA	Solid	8021B	13665

GC Semi VOA

Analysis Batch: 13651

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13160-1	S-1	Total/NA	Solid	8015M/D	13657

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QC Association Summary

Client: Ensolum
Project/Site: SJ 28-6 #22 A

Job ID: 885-13160-1

GC Semi VOA (Continued)

Analysis Batch: 13651 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13160-2	S-2	Total/NA	Solid	8015M/D	13657
885-13160-3	S-3	Total/NA	Solid	8015M/D	13657
885-13160-4	S-4	Total/NA	Solid	8015M/D	13657
885-13160-5	S-5	Total/NA	Solid	8015M/D	13657
885-13160-6	S-6	Total/NA	Solid	8015M/D	13657
885-13160-7	S-7	Total/NA	Solid	8015M/D	13657
885-13160-8	S-8	Total/NA	Solid	8015M/D	13657
MB 885-13657/1-A	Method Blank	Total/NA	Solid	8015M/D	13657
LCS 885-13657/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	13657

Prep Batch: 13657

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13160-1	S-1	Total/NA	Solid	SHAKE	
885-13160-2	S-2	Total/NA	Solid	SHAKE	
885-13160-3	S-3	Total/NA	Solid	SHAKE	
885-13160-4	S-4	Total/NA	Solid	SHAKE	
885-13160-5	S-5	Total/NA	Solid	SHAKE	
885-13160-6	S-6	Total/NA	Solid	SHAKE	
885-13160-7	S-7	Total/NA	Solid	SHAKE	
885-13160-8	S-8	Total/NA	Solid	SHAKE	
MB 885-13657/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-13657/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

HPLC/IC

Prep Batch: 13671

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13160-1	S-1	Total/NA	Solid	300_Prep	
885-13160-2	S-2	Total/NA	Solid	300_Prep	
885-13160-3	S-3	Total/NA	Solid	300_Prep	
885-13160-4	S-4	Total/NA	Solid	300_Prep	
885-13160-5	S-5	Total/NA	Solid	300_Prep	
885-13160-6	S-6	Total/NA	Solid	300_Prep	
885-13160-7	S-7	Total/NA	Solid	300_Prep	
885-13160-8	S-8	Total/NA	Solid	300_Prep	
MB 885-13671/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-13671/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
885-13160-1 MS	S-1	Total/NA	Solid	300_Prep	
885-13160-1 MSD	S-1	Total/NA	Solid	300_Prep	

Analysis Batch: 13705

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13160-1	S-1	Total/NA	Solid	300.0	13671
885-13160-2	S-2	Total/NA	Solid	300.0	13671
885-13160-3	S-3	Total/NA	Solid	300.0	13671
885-13160-4	S-4	Total/NA	Solid	300.0	13671
885-13160-5	S-5	Total/NA	Solid	300.0	13671
885-13160-6	S-6	Total/NA	Solid	300.0	13671
885-13160-7	S-7	Total/NA	Solid	300.0	13671
885-13160-8	S-8	Total/NA	Solid	300.0	13671
MB 885-13671/1-A	Method Blank	Total/NA	Solid	300.0	13671

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QC Association Summary

Client: Ensolum
Project/Site: SJ 28-6 #22 A

Job ID: 885-13160-1

HPLC/IC (Continued)

Analysis Batch: 13705 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 885-13671/2-A	Lab Control Sample	Total/NA	Solid	300.0	13671
885-13160-1 MS	S-1	Total/NA	Solid	300.0	13671
885-13160-1 MSD	S-1	Total/NA	Solid	300.0	13671

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Lab Chronicle

Client: Ensolum
Project/Site: SJ 28-6 #22 A

Job ID: 885-13160-1

Client Sample ID: S-1
Date Collected: 10/03/24 10:00
Date Received: 10/04/24 07:50

Lab Sample ID: 885-13160-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			13665	AT	EET ALB	10/04/24 09:10
Total/NA	Analysis	8015M/D		1	13706	AT	EET ALB	10/04/24 11:33
Total/NA	Prep	5035			13665	AT	EET ALB	10/04/24 09:10
Total/NA	Analysis	8021B		1	13707	AT	EET ALB	10/04/24 11:33
Total/NA	Prep	SHAKE			13657	EM	EET ALB	10/04/24 08:55
Total/NA	Analysis	8015M/D		1	13651	EM	EET ALB	10/04/24 11:02
Total/NA	Prep	300_Prep			13671	EH	EET ALB	10/04/24 09:57
Total/NA	Analysis	300.0		20	13705	RC	EET ALB	10/04/24 11:21

Client Sample ID: S-2
Date Collected: 10/03/24 10:05
Date Received: 10/04/24 07:50

Lab Sample ID: 885-13160-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			13665	AT	EET ALB	10/04/24 09:10
Total/NA	Analysis	8015M/D		1	13706	AT	EET ALB	10/04/24 11:54
Total/NA	Prep	5035			13665	AT	EET ALB	10/04/24 09:10
Total/NA	Analysis	8021B		1	13707	AT	EET ALB	10/04/24 11:54
Total/NA	Prep	SHAKE			13657	EM	EET ALB	10/04/24 08:55
Total/NA	Analysis	8015M/D		1	13651	EM	EET ALB	10/04/24 11:14
Total/NA	Prep	300_Prep			13671	EH	EET ALB	10/04/24 09:57
Total/NA	Analysis	300.0		20	13705	RC	EET ALB	10/04/24 11:58

Client Sample ID: S-3
Date Collected: 10/03/24 10:10
Date Received: 10/04/24 07:50

Lab Sample ID: 885-13160-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			13665	AT	EET ALB	10/04/24 09:10
Total/NA	Analysis	8015M/D		1	13706	AT	EET ALB	10/04/24 12:16
Total/NA	Prep	5035			13665	AT	EET ALB	10/04/24 09:10
Total/NA	Analysis	8021B		1	13707	AT	EET ALB	10/04/24 12:16
Total/NA	Prep	SHAKE			13657	EM	EET ALB	10/04/24 08:55
Total/NA	Analysis	8015M/D		1	13651	EM	EET ALB	10/04/24 11:27
Total/NA	Prep	300_Prep			13671	EH	EET ALB	10/04/24 09:57
Total/NA	Analysis	300.0		20	13705	RC	EET ALB	10/04/24 12:10

Client Sample ID: S-4
Date Collected: 10/03/24 10:15
Date Received: 10/04/24 07:50

Lab Sample ID: 885-13160-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			13665	AT	EET ALB	10/04/24 09:10
Total/NA	Analysis	8015M/D		1	13706	AT	EET ALB	10/04/24 12:38

Eurofins Albuquerque

Lab Chronicle

Client: Ensolum
Project/Site: SJ 28-6 #22 A

Job ID: 885-13160-1

Client Sample ID: S-4
Date Collected: 10/03/24 10:15
Date Received: 10/04/24 07:50

Lab Sample ID: 885-13160-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			13665	AT	EET ALB	10/04/24 09:10
Total/NA	Analysis	8021B		1	13707	AT	EET ALB	10/04/24 12:38
Total/NA	Prep	SHAKE			13657	EM	EET ALB	10/04/24 08:55
Total/NA	Analysis	8015M/D		1	13651	EM	EET ALB	10/04/24 11:39
Total/NA	Prep	300_Prep			13671	EH	EET ALB	10/04/24 09:57
Total/NA	Analysis	300.0		20	13705	RC	EET ALB	10/04/24 12:22

Client Sample ID: S-5
Date Collected: 10/03/24 10:20
Date Received: 10/04/24 07:50

Lab Sample ID: 885-13160-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			13665	AT	EET ALB	10/04/24 09:10
Total/NA	Analysis	8015M/D		1	13706	AT	EET ALB	10/04/24 12:59
Total/NA	Prep	5035			13665	AT	EET ALB	10/04/24 09:10
Total/NA	Analysis	8021B		1	13707	AT	EET ALB	10/04/24 12:59
Total/NA	Prep	SHAKE			13657	EM	EET ALB	10/04/24 08:55
Total/NA	Analysis	8015M/D		1	13651	EM	EET ALB	10/04/24 11:52
Total/NA	Prep	300_Prep			13671	EH	EET ALB	10/04/24 09:57
Total/NA	Analysis	300.0		20	13705	RC	EET ALB	10/04/24 12:35

Client Sample ID: S-6
Date Collected: 10/03/24 10:25
Date Received: 10/04/24 07:50

Lab Sample ID: 885-13160-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			13665	AT	EET ALB	10/04/24 09:10
Total/NA	Analysis	8015M/D		1	13706	AT	EET ALB	10/04/24 13:21
Total/NA	Prep	5035			13665	AT	EET ALB	10/04/24 09:10
Total/NA	Analysis	8021B		1	13707	AT	EET ALB	10/04/24 13:21
Total/NA	Prep	SHAKE			13657	EM	EET ALB	10/04/24 08:55
Total/NA	Analysis	8015M/D		1	13651	EM	EET ALB	10/04/24 12:04
Total/NA	Prep	300_Prep			13671	EH	EET ALB	10/04/24 09:57
Total/NA	Analysis	300.0		20	13705	RC	EET ALB	10/04/24 12:47

Client Sample ID: S-7
Date Collected: 10/03/24 10:30
Date Received: 10/04/24 07:50

Lab Sample ID: 885-13160-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			13665	AT	EET ALB	10/04/24 09:10
Total/NA	Analysis	8015M/D		1	13706	AT	EET ALB	10/04/24 13:43
Total/NA	Prep	5035			13665	AT	EET ALB	10/04/24 09:10
Total/NA	Analysis	8021B		1	13707	AT	EET ALB	10/04/24 13:43

Lab Chronicle

Client: Ensolum
Project/Site: SJ 28-6 #22 A

Job ID: 885-13160-1

Client Sample ID: S-7
Date Collected: 10/03/24 10:30
Date Received: 10/04/24 07:50

Lab Sample ID: 885-13160-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			13657	EM	EET ALB	10/04/24 08:55
Total/NA	Analysis	8015M/D		1	13651	EM	EET ALB	10/04/24 12:16
Total/NA	Prep	300_Prep			13671	EH	EET ALB	10/04/24 09:57
Total/NA	Analysis	300.0		20	13705	RC	EET ALB	10/04/24 13:24

Client Sample ID: S-8
Date Collected: 10/03/24 10:35
Date Received: 10/04/24 07:50

Lab Sample ID: 885-13160-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			13665	AT	EET ALB	10/04/24 09:10
Total/NA	Analysis	8015M/D		1	13706	AT	EET ALB	10/04/24 14:05
Total/NA	Prep	5035			13665	AT	EET ALB	10/04/24 09:10
Total/NA	Analysis	8021B		1	13707	AT	EET ALB	10/04/24 14:05
Total/NA	Prep	SHAKE			13657	EM	EET ALB	10/04/24 08:55
Total/NA	Analysis	8015M/D		1	13651	EM	EET ALB	10/04/24 12:29
Total/NA	Prep	300_Prep			13671	EH	EET ALB	10/04/24 09:57
Total/NA	Analysis	300.0		20	13705	RC	EET ALB	10/04/24 13:37

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: SJ 28-6 #22 A

Job ID: 885-13160-1

Laboratory: Eurofins Albuquerque

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

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	NM100001	02-26-25

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Login Sample Receipt Checklist

Client: Ensolum

Job Number: 885-13160-1

Login Number: 13160
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 1/24/2025 4:28:49 PM

JOB DESCRIPTION

San Juan 28-6 #22A

JOB NUMBER

885-18697-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.
Released to Imaging: 6/11/2025 7:54:55 AM



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



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1/24/2025 4:28:49 PM

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

Client: Ensolum
Project/Site: San Juan 28-6 #22A

Laboratory Job ID: 885-18697-1

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Definitions/Glossary

Client: Ensolum

Job ID: 885-18697-1

Project/Site: San Juan 28-6 #22A

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: San Juan 28-6 #22A

Job ID: 885-18697-1

Job ID: 885-18697-1

Eurofins Albuquerque

Job Narrative 885-18697-1

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 1/22/2025 7:45 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 0.0°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: San Juan 28-6 #22A

Job ID: 885-18697-1

Client Sample ID: BF-1

Lab Sample ID: 885-18697-1

Date Collected: 01/21/25 12:00

Matrix: Solid

Date Received: 01/22/25 07:45

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		01/22/25 14:16	01/23/25 11:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		35 - 166			01/22/25 14:16	01/23/25 11:43	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		01/22/25 14:16	01/23/25 11:43	1
Ethylbenzene	ND		0.049	mg/Kg		01/22/25 14:16	01/23/25 11:43	1
Toluene	ND		0.049	mg/Kg		01/22/25 14:16	01/23/25 11:43	1
Xylenes, Total	ND		0.098	mg/Kg		01/22/25 14:16	01/23/25 11:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		48 - 145			01/22/25 14:16	01/23/25 11:43	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		9.4	mg/Kg		01/23/25 08:19	01/23/25 10:16	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		01/23/25 08:19	01/23/25 10:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	97		62 - 134			01/23/25 08:19	01/23/25 10:16	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		61	mg/Kg		01/23/25 08:40	01/23/25 10:31	20

Eurofins Albuquerque

QC Sample Results

Client: Ensolum

Job ID: 885-18697-1

Project/Site: San Juan 28-6 #22A

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

Lab Sample ID: MB 885-19692/1-A

Matrix: Solid

Analysis Batch: 19723

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 19692

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	ND		5.0	mg/Kg		01/22/25 14:16	01/23/25 11:19	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		35 - 166			01/22/25 14:16	01/23/25 11:19	1

Lab Sample ID: LCS 885-19692/2-A

Matrix: Solid

Analysis Batch: 19723

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 19692

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
GRO (C6-C10)	25.0	25.5		mg/Kg		102	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	208		35 - 166				

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-19692/1-A

Matrix: Solid

Analysis Batch: 19724

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 19692

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		01/22/25 14:16	01/23/25 11:19	1
Ethylbenzene	ND		0.050	mg/Kg		01/22/25 14:16	01/23/25 11:19	1
Toluene	ND		0.050	mg/Kg		01/22/25 14:16	01/23/25 11:19	1
Xylenes, Total	ND		0.10	mg/Kg		01/22/25 14:16	01/23/25 11:19	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		48 - 145			01/22/25 14:16	01/23/25 11:19	1

Lab Sample ID: LCS 885-19692/3-A

Matrix: Solid

Analysis Batch: 19724

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 19692

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	1.00	1.21		mg/Kg		121	70 - 130
Ethylbenzene	1.00	1.23		mg/Kg		123	70 - 130
Toluene	1.00	1.22		mg/Kg		122	70 - 130
Xylenes, Total	3.00	3.64		mg/Kg		121	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	114		48 - 145				

Eurofins Albuquerque

QC Sample Results

Client: Ensolum
Project/Site: San Juan 28-6 #22A

Job ID: 885-18697-1

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

Lab Sample ID: MB 885-19717/1-A

Matrix: Solid

Analysis Batch: 19714

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 19717

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		01/23/25 08:19	01/23/25 09:55	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		01/23/25 08:19	01/23/25 09:55	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	93		62 - 134			01/23/25 08:19	01/23/25 09:55	1

Lab Sample ID: LCS 885-19717/2-A

Matrix: Solid

Analysis Batch: 19714

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 19717

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	50.0	49.3		mg/Kg		99	60 - 135
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
Di-n-octyl phthalate (Surr)	88		62 - 134				

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-19720/1-A

Matrix: Solid

Analysis Batch: 19721

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 19720

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0	mg/Kg		01/23/25 08:40	01/23/25 10:03	1
Surrogate	LCS %Recovery	LCS Qualifier	Limits					
Chloride	30.0		30.3	mg/Kg		101	90 - 110	

Eurofins Albuquerque

QC Association Summary

Client: Ensolum
Project/Site: San Juan 28-6 #22A

Job ID: 885-18697-1

GC VOA

Prep Batch: 19692

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-18697-1	BF-1	Total/NA	Solid	5030C	
MB 885-19692/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-19692/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-19692/3-A	Lab Control Sample	Total/NA	Solid	5030C	

Analysis Batch: 19723

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-18697-1	BF-1	Total/NA	Solid	8015M/D	19692
MB 885-19692/1-A	Method Blank	Total/NA	Solid	8015M/D	19692
LCS 885-19692/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	19692

Analysis Batch: 19724

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-18697-1	BF-1	Total/NA	Solid	8021B	19692
MB 885-19692/1-A	Method Blank	Total/NA	Solid	8021B	19692
LCS 885-19692/3-A	Lab Control Sample	Total/NA	Solid	8021B	19692

GC Semi VOA

Analysis Batch: 19714

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-18697-1	BF-1	Total/NA	Solid	8015M/D	19717
MB 885-19717/1-A	Method Blank	Total/NA	Solid	8015M/D	19717
LCS 885-19717/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	19717

Prep Batch: 19717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-18697-1	BF-1	Total/NA	Solid	SHAKE	
MB 885-19717/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-19717/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

HPLC/IC

Prep Batch: 19720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-18697-1	BF-1	Total/NA	Solid	300_Prep	
MB 885-19720/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-19720/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Analysis Batch: 19721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-18697-1	BF-1	Total/NA	Solid	300.0	19720
MB 885-19720/1-A	Method Blank	Total/NA	Solid	300.0	19720
LCS 885-19720/2-A	Lab Control Sample	Total/NA	Solid	300.0	19720

Eurofins Albuquerque

Lab Chronicle

Client: Ensolum
Project/Site: San Juan 28-6 #22A

Job ID: 885-18697-1

Client Sample ID: BF-1

Date Collected: 01/21/25 12:00

Date Received: 01/22/25 07:45

Lab Sample ID: 885-18697-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			19692	JP	EET ALB	01/22/25 14:16
Total/NA	Analysis	8015M/D		1	19723	JP	EET ALB	01/23/25 11:43
Total/NA	Prep	5030C			19692	JP	EET ALB	01/22/25 14:16
Total/NA	Analysis	8021B		1	19724	JP	EET ALB	01/23/25 11:43
Total/NA	Prep	SHAKE			19717	EM	EET ALB	01/23/25 08:19
Total/NA	Analysis	8015M/D		1	19714	EM	EET ALB	01/23/25 10:16
Total/NA	Prep	300_Prep			19720	RC	EET ALB	01/23/25 08:40
Total/NA	Analysis	300.0		20	19721	RC	EET ALB	01/23/25 10:31

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: San Juan 28-6 #22A

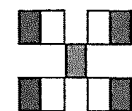
Job ID: 885-18697-1

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



HALL ENVIRONMENTAL ANALYSIS LABORATORY

882-18697 COL

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Chain-of-Custody Record									
Client: <u>Ensalum</u>		Turn-Around Time: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush		Project Name: <u>San Juan 28-6 v 22 A</u>					
Mailing Address: <u>Box 5 Rio Grande</u>		Project #: <u>1</u>		Project Manager: <u>K Summers</u>					
Phone #: <u>505 874410</u>		Project Manager: <u>K Summers</u>		Sampler: <u>C. D. Aponte</u>		On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Yog: <u>Yog</u>	
email or Fax#: <u></u>		QA/QC Package: <input type="checkbox"/> Standard <input type="checkbox"/> Level 4 (Full Validation)		Accreditation: <input type="checkbox"/> Az Compliance <input type="checkbox"/> NELAC <input type="checkbox"/> Other <u></u>		# of Coolers: <u>1</u>		Cooler Temp (including CF): <u>0.1-0.1 = 0</u> (°C)	
Date: <u>1/21/2000</u>		Matrix: <u>S</u>		Sample Name: <u>B35-1</u>		Container Type and #: <u>4oz Jar</u>		Preservative Type: <u>Acid</u>	
Time: <u>12:00</u>									
Date: <u>2/1/25</u>		Time: <u>15:00</u>		Relinquished by: <u>[Signature]</u>		Received by: <u>Chad Ward</u>		Date: <u>1/21/25</u> Time: <u>15:40</u>	
Date: <u>1/21/25</u>		Time: <u>17:23</u>		Relinquished by: <u>[Signature]</u>		Received by: <u>Chad Ward</u>		Date: <u>1/21/25</u> Time: <u>17:45</u>	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 885-18697-1

Login Number: 18697

List Source: Eurofins Albuquerque

List Number: 1

Creator: Casarrubias, Tracy

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

QUESTIONS

Action 442469

QUESTIONS

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 442469
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2427549504
Incident Name	NAPP2427549504 SAN JUAN 28-6 #22A @ 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	SAN JUAN 28-6 #22A
Date Release Discovered	10/01/2024
Surface Owner	Federal

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 442469

QUESTIONS (continued)

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 442469
	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	None

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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

I hereby agree and sign off to the above statement	Name: Thomas Long Title: Sr Field Environmental Scientist Email: tjlong@eprod.com Date: 10/10/2024
--	---

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QUESTIONS, Page 3

Action 442469

QUESTIONS (continued)

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 442469
	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)	Less than or equal 25 (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 100 and 200 (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 300 and 500 (ft.)
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	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1000 (ft.) and ½ (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)	0.1
GRO+DRO (EPA SW-846 Method 8015M)	0.1
BTEX (EPA SW-846 Method 8021B or 8260B)	0.1
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	10/01/2024
On what date will (or did) the final sampling or liner inspection occur	01/21/2025
On what date will (or was) the remediation complete(d)	01/21/2025
What is the estimated surface area (in square feet) that will be reclaimed	288
What is the estimated volume (in cubic yards) that will be reclaimed	150
What is the estimated surface area (in square feet) that will be remediated	288
What is the estimated volume (in cubic yards) that will be remediated	150
<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 442469

QUESTIONS (continued)

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 442469
	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: 03/14/2025
<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 442469

QUESTIONS (continued)

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 442469
	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 442469

QUESTIONS (continued)

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 442469
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	421737
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/21/2025
What was the (estimated) number of samples that were to be gathered	1
What was the sampling surface area in square feet	200

Remediation Closure Request	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
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	288
What was the total volume (cubic yards) remediated	150
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	288
What was the total volume (in cubic yards) reclaimed	150
Summarize any additional remediation activities not included by answers (above)	None.
<i>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>	
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: 03/14/2025

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QUESTIONS, Page 7

Action 442469

QUESTIONS (continued)

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 442469
	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	288
What was the total volume of replacement material (in cubic yards) for this site	150
<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 reseedling 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 reseedling 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: 03/14/2025

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QUESTIONS, Page 8

Action 442469

QUESTIONS (continued)

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 442469
	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 442469

CONDITIONS

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 442469
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

CONDITIONS

Created By	Condition	Condition Date
nvez	None	6/11/2025