

CLOSURE REPORT

Property:

Huerfano #188 (11/13/23) Unit Letter M, S6 T25N R9W San Juan County, New Mexico

New Mexico EMNRD OCD Incident ID No. NAPP2331745754

January 4, 2024

Ensolum Project No. 05A1226295

Prepared for:

Enterprise Field Services, LLC

614 Reilly Avenue Farmington, NM 87401 Attn: Mr. Thomas Long

Prepared by:

Ranee Deechilly Project Manager Kyle Summers Senior Managing Geologist Huerfano #188 (11/13/23)

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1.0 INTRODUCTION

Huerfano #188 (11/13/23)

1.1 Site Description & Background

Operator:	Enterprise Field Services, LLC / Enterprise Products Operating LLC (Enterprise)
Site Name:	Huerfano #188 (11/13/23) (Site)
NM EMNRD OCD Incident ID No.	NAPP2331745754
Location:	36.425127° North, 107.835661° West Unit Letter M, Section 6, Township 25 North, Range 9 West San Juan County, New Mexico
Property:	Navajo Nation
Regulatory:	Navajo Nation Environmental Protection Agency (NNEPA) and New Mexico (NM) Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

On November 6, 2023, Enterprise personnel identified a release of natural gas from the Huerfano #188 pipeline. Enterprise subsequently isolated and locked the pipeline out of service. On November 13, 2023, Enterprise initiated activities to repair the pipeline and remediate petroleum hydrocarbon impact. In addition, Enterprise determined the release was "reportable" due to the potential volume of impacted soil. The NM EMNRD OCD was subsequently notified.

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

1.2 Project Objective

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

2.0 CLOSURE CRITERIA

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

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



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- Numerous cathodic protection wells (CPWs) were identified in the NM EMNRD OCD imaging database in the same PLSS section as the Site and in the adjacent PLSS sections. These CPWs are depicted on **Figure B** (**Appendix B**). The closet CPWs (Huerfano Unit #188, Huerfano Unit #142, and Huerfano Unit #188E) are located less than 0.75 miles from the Site. Documentation for the cathodic protection well located near the Huerfano Unit #188 production pad indicates a depth to water of 40 feet bgs and 100 feet bgs. This cathodic protection well is located approximately 140 feet west of the Site and is approximately 19 feet lower in elevation than the Site. Documentation for the cathodic protection well located near the Huerfano Unit #142 production pad indicates a depth to water of 138 feet bgs. This cathodic protection well is located approximately 0.71 miles southeast of the Site and is approximately 90 feet lower in elevation than the Site. Documentation for the cathodic protection well located near the Huerfano Unit #188E production pad indicates a depth to water of 140 feet bgs. This cathodic protection well is located approximately 0.69 miles north of the Site and is approximately 281 feet lower in elevation than the Site.
- The Site is located within 300 feet of a NM EMNRD OCD-defined significant watercourse (Figure C, Appendix B).
- The Site is not located within 200 feet of a lakebed, sinkhole, or playa lake.
- The Site is not located within 300 feet of a permanent residence, school, hospital, institution, or church (**Figure D**, **Appendix B**).
- No springs, or private domestic freshwater wells used by less than five households for domestic or stock watering purposes were identified within 500 feet of the Site (Figure E, Appendix B).
- No freshwater wells or springs were identified within 1,000 feet of the Site (Figure E, Appendix B).
- The Site is not located within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to New Mexico Statutes Annotated (NMSA) 1978, Section 3-27-3.
- Based on information identified in the U.S. Fish & Wildlife Service National Wetlands Inventory Wetlands Mapper, the Site is not within 300 feet of a wetland (Figure F, Appendix B).
- Based on information identified in the NM Mining and Minerals Division's Geographic Information System (GIS) Maps and Mine Data database, the Site is not within an area overlying a subsurface mine (Figure G, Appendix B).
- The Site is not located within an unstable area per Paragraph (6) of Subsection U of 19.15.2.7 NMAC.
- Based on information provided by the Federal Emergency Management Agency (FEMA)
 National Flood Hazard Layer (NFHL) geospatial database, the Site is not within a 100-year
 floodplain (Figure H, Appendix B).

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



Tier I Closure Criteria for Soils Impacted by a Release						
Constituent ¹	Method	Limit				
Chloride	EPA 300.0 or SM4500 CI 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).

3.0 **SOIL REMEDIATION ACTIVITIES**

On November 13, 2023, Enterprise initiated activities to repair the pipeline and remediate petroleum hydrocarbon impact resulting from the release. During the remediation and corrective action activities, OFT Construction, Inc., provided heavy equipment and labor support, while Ensolum provided environmental consulting support.

The excavation measured approximately 25 feet long and 12.5 feet wide at the maximum extents. The maximum depth of the excavation measured approximately 16 feet bgs. The lithology encountered during the completion of remediation activities consisted primarily of sandstone and shale.

Approximately 366 cubic yards (yd3) of petroleum hydrocarbon-affected soils 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 10 composite soil samples (S-1 through S-10) from the excavation 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 was utilized to obtain fresh aliquots from each area of the excavations. Regulatory correspondence is provided in Appendix E.

Sampling Event

On November 17, 2023, sampling was performed at the Site. The NNEPA and NM EMNRD OCD were notified of the sampling event although no representative was present during sampling activities. Composite soil samples S-1 (16') and S-2 (16') were collected from the floor of the excavation. Composite soil samples, S-3 (0' to 16'), S-4 (0' to 16'), S-5 (0' to 16'), S-6 (0' to 16'), S-7 (0' to 16'), S-8 (0' to 16'), S-9 (0' to 16'), and S-10 (0' to 16') were collected from the walls of the excavation.



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).

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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-10) to the applicable NM EMNRD OCD closure criteria. The laboratory analytical results are summarized in **Table 1** (**Appendix F**).

- The laboratory analytical results for composite soil samples S-3, S-4, S-8, and S-9 indicate benzene concentrations of 0.038 mg/kg, 0.044 mg/kg, 0.040 mg/kg, and 0.037 mg/kg, respectively, which are less than the NM EMNRD OCD closure criteria of 10 mg/kg. The laboratory analytical results for the other composite soil samples indicate benzene is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the NM EMNRD OCD closure criteria of 10 mg/kg.
- The laboratory analytical results for composite soil samples S-3, S-4, S-6, S-8, and S-9 indicate total BTEX concentrations of 0.46 mg/kg, 0.59 mg/kg, 0.077 mg/kg, 0.45 mg/kg, and 0.47 mg/kg, respectively, which are less than the NM EMNRD OCD closure criteria of 50 mg/kg. The laboratory analytical results for the other composite soil samples indicate total BTEX is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the NM EMNRD OCD closure criteria of 50 mg/kg.
- The laboratory analytical results for the composite soil samples indicate total combined TPH GRO/DRO/MRO is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the NM EMNRD OCD closure criteria of 100 mg/kg.
- The laboratory analytical results for the composite soil samples indicate chloride is not present at concentrations greater than the laboratory PQLs/RLs, which is less than the NM EMNRD OCD closure criteria of 600 mg/kg.

7.0 RECLAMATION

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



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8.0 FINDINGS AND RECOMMENDATION

- Ten composite soil samples were collected from the Site. Based on laboratory analytical results, no benzene, BTEX, chloride, or total combined TPH GRO/DRO/MRO exceedances were identified in the soils remaining at the Site.
- Approximately 366 yd³ of petroleum hydrocarbon-affected soils 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.

9.0 STANDARDS OF CARE, LIMITATIONS, AND RELIANCE

9.1 Standard of Care

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

9.2 Limitations

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

9.3 Reliance

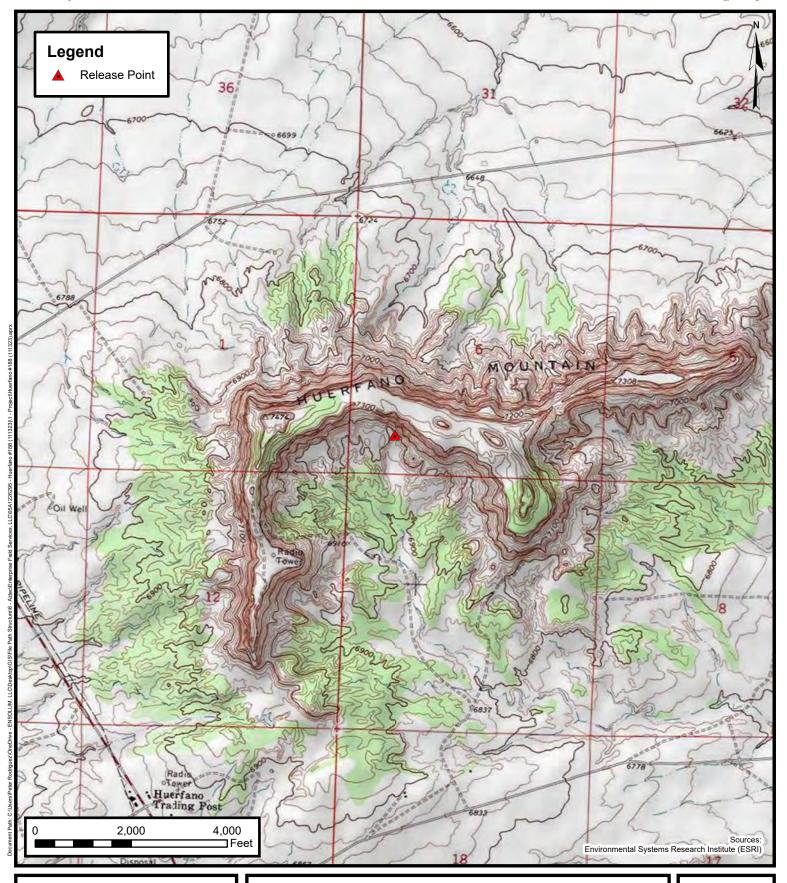
This report has been prepared for the exclusive use of Enterprise, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Site) is prohibited without the express written authorization of Enterprise and Ensolum. Any unauthorized distribution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





APPENDIX A

Figures



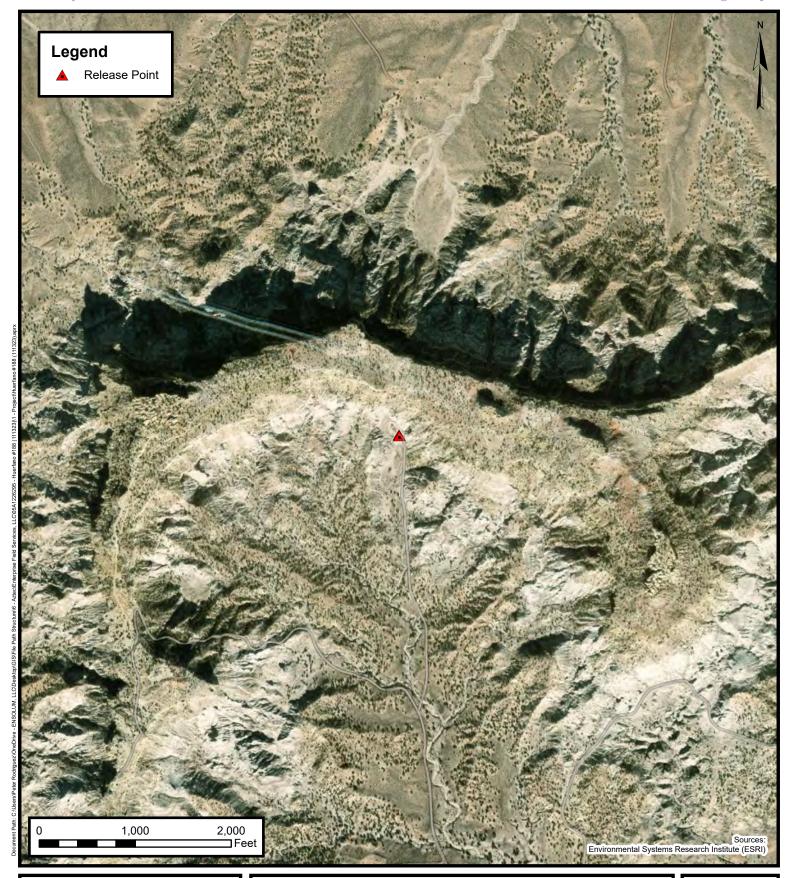


Topographic Map

Enterprise Field Services, LLC Huerfano #188 (11/13/23) Project Number: 05A1226295

Unit Letter M, S06 T25N R09W, San Juan County, New Mexico 36.425127, -107.835661

FIGURE





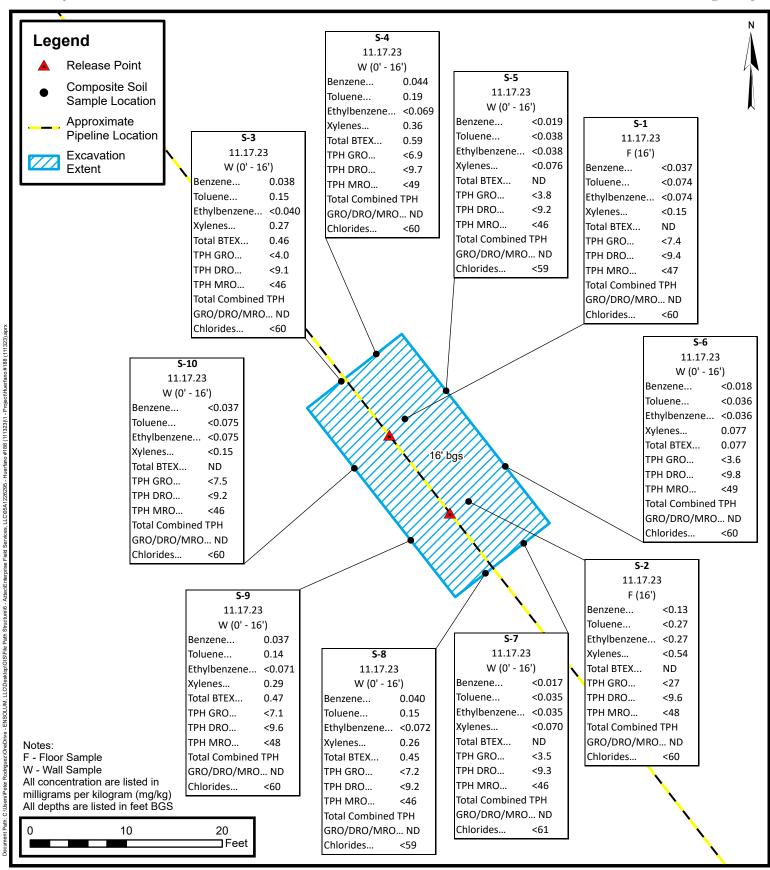
Site Vicinity Map

Enterprise Field Services, LLC Huerfano #188 (11/13/23) Project Number: 05A1226295

Unit Letter M, S06 T25N R09W, San Juan County, New Mexico 36.425127, -107.835661

FIGURE

2





Site Map with Soil Analytical Results

Enterprise Field Services, LLC Huerfano #188 (11/13/23) Project Number: 05A1226295

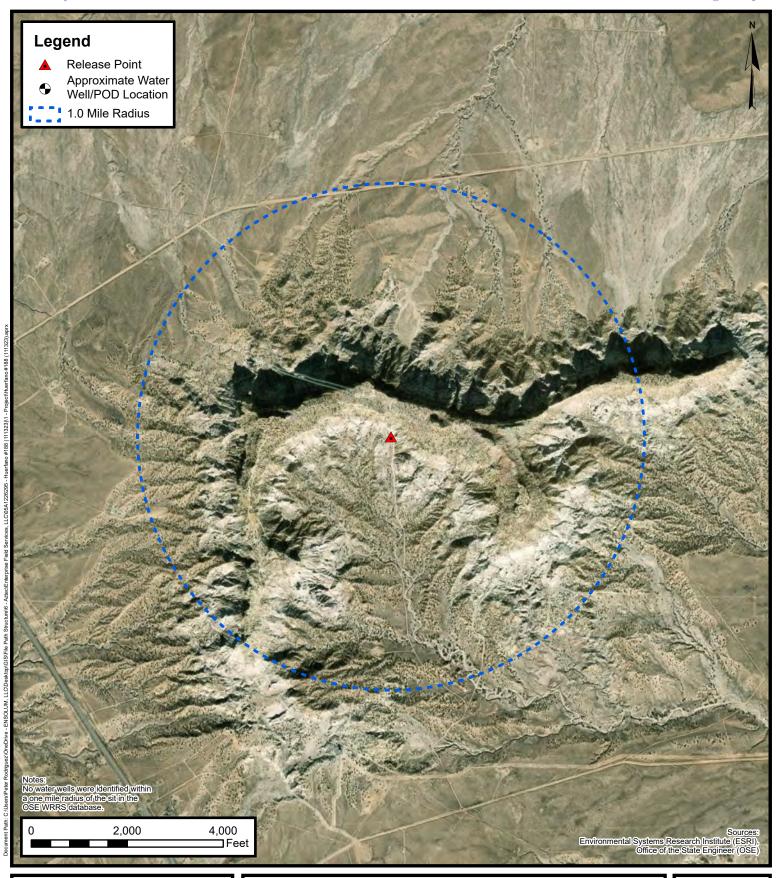
Unit Letter M, S06 T25N R09W, San Juan County, New Mexico 36.425127, -107.835661

FIGURE



APPENDIX B

Siting Figures and Documentation



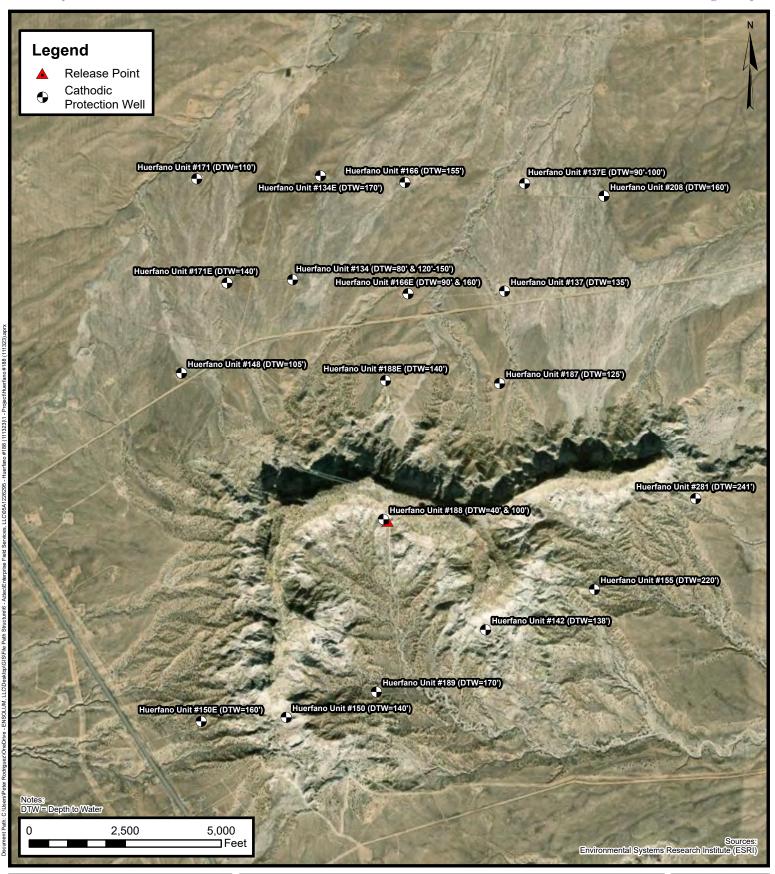


1.0 Mile Radius Water Well / POD Location Map

Enterprise Field Services, LLC Huerfano #188 (11/13/23) Project Number: 05A1226295

Unit Letter M, S06 T25N R09W, San Juan County, New Mexico 36.425127, -107.835661

FIGURE





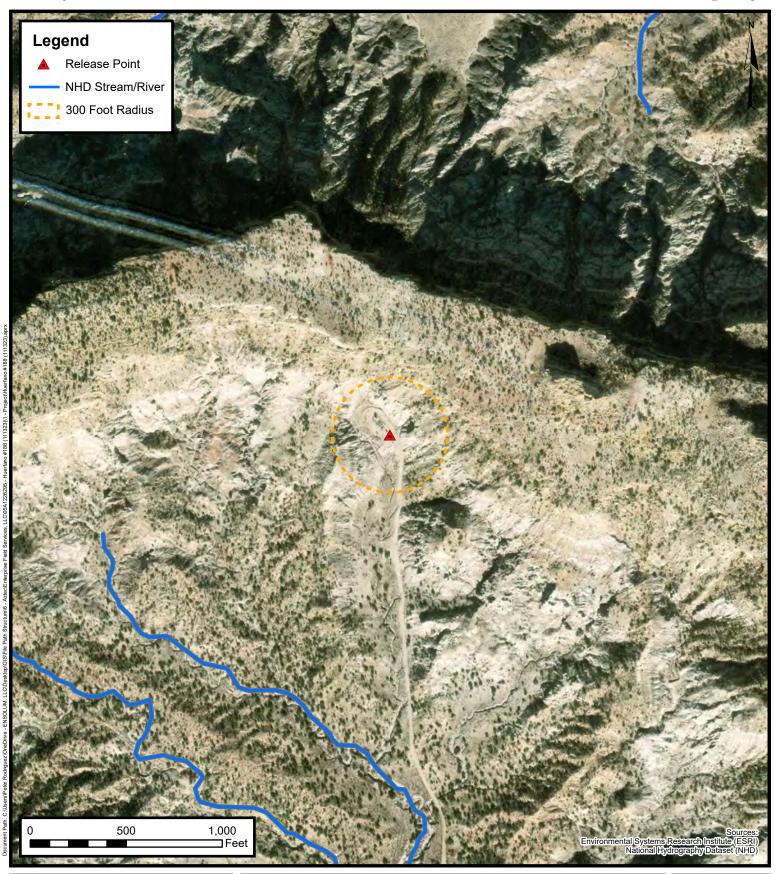
Cathodic Protection Well Recorded Depth to Water

Enterprise Field Services, LLC Huerfano #188 (11/13/23) Project Number: 05A1226295

Unit Letter M, S06 T25N R09W, San Juan County, New Mexico 36.425127, -107.835661

FIGURE

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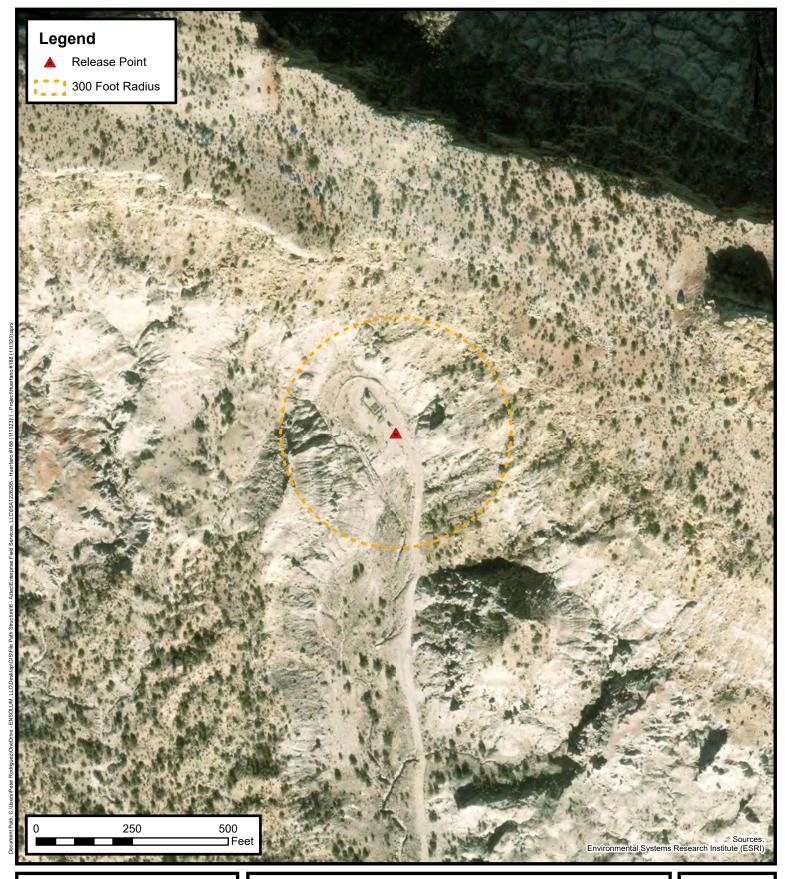


300 Foot Radius Watercourse and Drainage Identification

Enterprise Field Services, LLC Huerfano #188 (11/13/23) Project Number: 05A1226295

Unit Letter M, S06 T25N R09W, San Juan County, New Mexico 36.425127, -107.835661

FIGURE



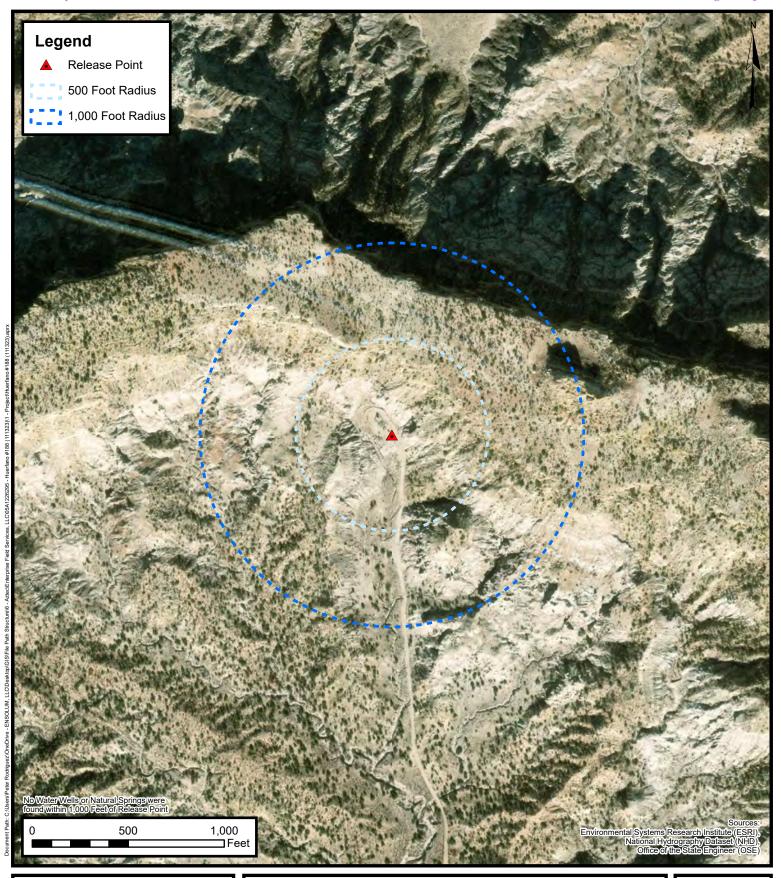


300 Foot Radius Occupied Structure Identification

Enterprise Field Services, LLC Huerfano #188 (11/13/23) Project Number: 05A1226295

Unit Letter M, S06 T25N R09W, San Juan County, New Mexico 36.425127, -107.835661

FIGURE





Water Well and Natural Spring Location

Enterprise Field Services, LLC Huerfano #188 (11/13/23) Project Number: 05A1226295

Unit Letter M, S06 T25N R09W, San Juan County, New Mexico 36.425127, -107.835661

FIGURE

Ε





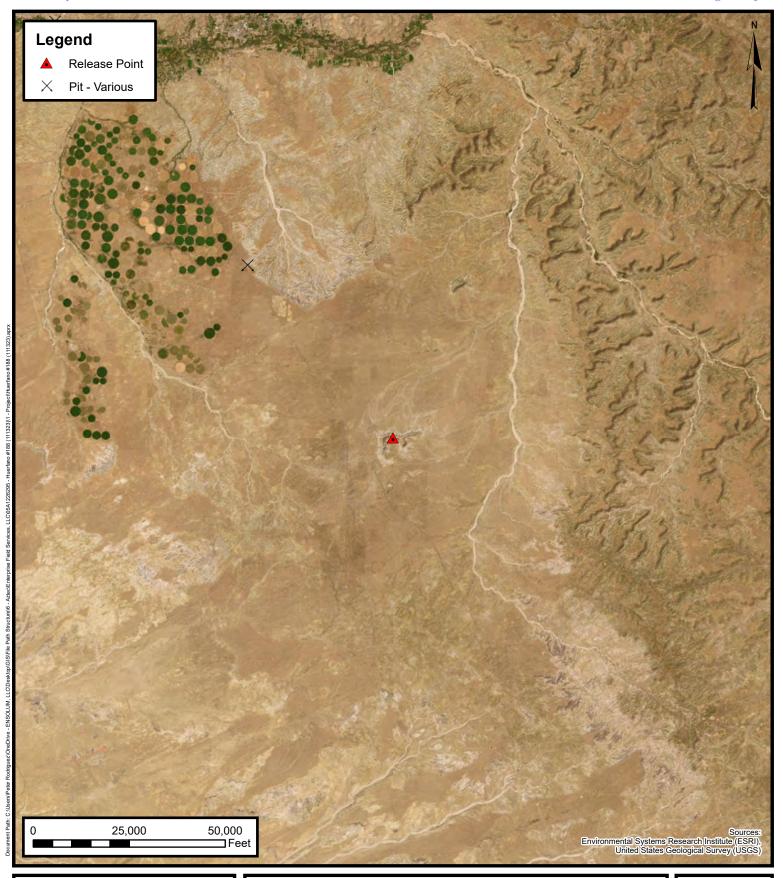
Wetlands

Enterprise Field Services, LLC Huerfano #188 (11/13/23) Project Number: 05A1226295

Unit Letter M, S06 T25N R09W, San Juan County, New Mexico 36.425127, -107.835661

FIGURE

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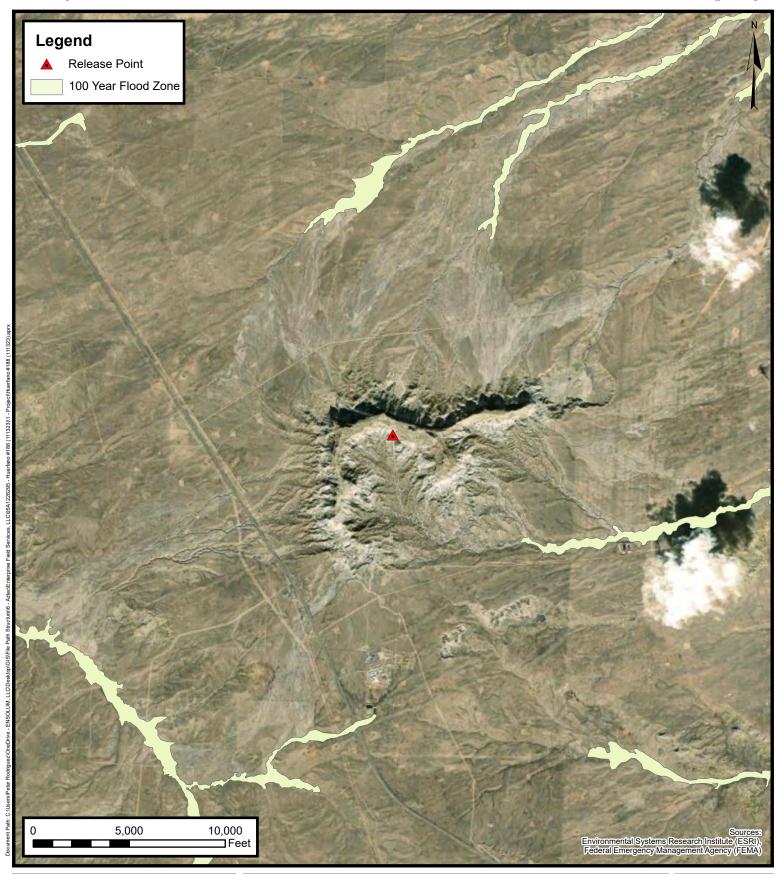


Mines, Mills, and Quarries

Enterprise Field Services, LLC Huerfano #188 (11/13/23) Project Number: 05A1226295

Unit Letter M, S06 T25N R09W, San Juan County, New Mexico 36.425127, -107.835661

FIGURE





100-Year Flood Plain Map

Enterprise Field Services, LLC Huerfano #188 (11/13/23) Project Number: 05A1226295

Unit Letter M, S06 T25N R09W, San Juan County, New Mexico 36.425127, -107.835661

FIGURE

H



No records found.

PLSS Search:

Section(s): 6, 5, 7, 8 **Township:** 25N **Range:** 09W

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, or suitability for any particular purpose of the data.



No records found.

PLSS Search:

Section(s): 31, 32 Township: 26N Range: 09W

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, or suitability for any particular purpose of the data.



No records found.

PLSS Search:

Section(s): 36 Township: 26N Range: 10W

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



No records found.

PLSS Search:

Section(s): 1, 12 Township: 25N Range: 10W

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

30-045-20417

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

(Submit 3 copies to OCD Aztec Office)

Location: Unit NE Sec. 6 Twp 25 Rng 9
ced <u>HUFRFANO UNIT #187</u>
cps 896w
Total Depth 375' Land Type* N/A
& types used N/A
en placed, show depths & amounts used
th description of water when possible:
125'
14000 lbs.
. 290', 280', 270', 260', 250', 240', 230'
RECEIVED
MAYO.
Oll

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

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

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

WELL CASING

CATHODIC PROTECTION CONSTRUCTION REPORT

DAILY LOG

DRT JOHN OF

Completion Date 7/3/7

Well Name	ier f	AND #	187 Loc	ation WF (- 15N	-9W	CPS No.	896	W
Type & Size F		11	eh				Work Order 184 -	No. 5464.	
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Anode Depth # 1 - 32 6	5 3,	10 # 3 30	0 # 4 296) # 5 2 80	# 6 270	# 7 260	#8 250	#9 240	10 23
Anode Output # 1 3.8	(Amps)	6 # 3 5,3	1	\$ 5 6 ,0		1 '		1	
Anode Depth	# 12	# 13	# 14	# 15	 # 16	# 17	# 18		# 20
Anode Output # 11	(Amps) # 12	# 13	 # 14	# 15	1 1# 16	# 17	 # 18	# 19	# 20
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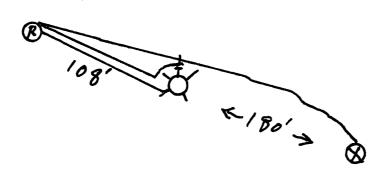
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All Construction Completed

Eduard R. Paulet

GROUND BED LAYOUT SKETCH



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EL PASO NATURAL GAS COMPANY ENGINEERING DEPARTMENT

9/0/2

Sheet Page 27 of 133

Date:

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896W

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

Applicati	ion No	· · · · · · · · · · · · · · · · · · ·
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•	(Office Use	Only)

WELL DRILLERS REPORT

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7.	WELL TEST	DATA						
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leased to Imaging: 3/2.	2/2024 7:15:57	AM			Date			

30-045-20448

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

Operator MERIDIAN OIL Location: Unit M Sec. 6 Twp 25 Rng 9
Name of Well/Wells or Pipeline Serviced HUERFANO UNIT #188
cps 897w
Elevation 6981'Completion Date 7/15/88 Total Depth 260' Land Type* N/A
Casing, Sizes, Types & Depths N/A
If Casing is cemented, show amounts & types used N/A
If Cement or Bentonite Plugs have been placed, show depths & amounts used N/A
Depths & thickness of water zones with description of water when possible:
Fresh, Clear, Salty, Sulphur, Etc. 40'. 100'
Depths gas encountered: N/A MAY31 1001
Type & amount of coke breeze used: N/A OII
Depths anodes placed: 240', 230', 220', 210', 200'
Depths vent pipes placed: 260' OF 1" PVC VENT PIPE
Vent pipe perforations: BOTTOM 240'
Remarks: (gb #2)

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

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

WELL CASING

•			CATHODIC	PROTECT	TION CONSTRU	ICTION REF	ORT OF	mp 7-2	
Drilling Log (Attach F	lereto)	X					Completion		15-88
CPS #	Well Nam	e, Line or Plant:		W	ork Order #	Static:		Ins. Union	Check
897 L)	Hu	etfano u	inst 181	3-DK	52310A				Good 12 Bad Ju.
Location MO6-25-09		Anode Size: 1/2" × 20		e Type:	1 au .	Size Bit:			
Depth Drilled	Depth 1	Logged 255	Drilling Rig	Time	Total Lbs. Goke Used	Lost Circ	ulation Mat'l Used	No. Sacks	Mud Used
# 1 240 to 2	200'	# 3	# 4	# 5	# 6	# 7	# 8	# 9	#=10
# 1 # 2) 	# 3	# 4	# 5	# 6	# 7	 + 8	# 9	#10
Anode Depth # 11 # 12		# 13	# 14	# 15	# 16	# 17	# 18	# 19	# 20
Anode Output (Amps	2	# 13	¦# 14	¦ ¦# 15	# 16	# 17	# 18		# 20
Total Circuit Resist	Amı	os 17.8	Ohms	.66	No. 8 C.P.	Cable Used	•	No. 2 C.I	Cable Used
Remarks: Doub	ler s	rid mar	tec to	A 40'	and 100'	No se	exlare a	alina.	Installed
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to 170:	m	etalur	oural	Cafe	to su	clace	-	-0 1 7941	
/		9 B	40%	13.00 E	including	suncti	in low	· · · · · · · · · · · · · · · · · · ·	
Rectifier Size:	10 v	16	_A	0		00	All Cons	struction Com	pleted-
Depth Credit: 2	100	3.50	64	10.00 V	•				

Extra Cable: 100 Ditch & 1 Cable: 170 B . 10

GROUND BED LAYOUT SKETCH

20' Meter Pole:_ 10' Stub Pole:_

25 'Meter Pole:____

1355.40 3354.40 V 164.77 167.72 V 123.17 3522.12 V

(Signature)

,	1). (DRILLING CO.
	Drill No	o. <u>3</u>
		DRILLER'S WELL LOG
S P No A	luer Fra	# 188 Date 7-15-88
Client M	S. P. No. Huer Fano # 188 Date 7-15-88 Client Merid in Oil Co. Prospect County SAN JUAN State New Mex If hole is a redrill or if moved from original staked position show distance and direction moved: FROM TO FORMATION — COLOR — HARDNESS O 40 Shale 50 30 Shale 90 105 SAND — 50 30 Shale 145 155 SAND Shale 145 155 SAND Shale 155 260 Shale 155 260 Shale Remarks: Water & Ho 4 100 Driller Remarks: Water & Ho 4 100	
Drill No. 3 DRILLER'S WELL LOG S. P. No. Huer France / BS Date 7-15-88 Client Merid in No. 160. Prospect County SAN JUAN State New Mex. If hole is a redrill or if moved from original staked position show distance and direction moved: FROM TO FORMATION — COLOR — HARDNESS O 40 Shalc 40 50 SAND — 50 90 Shalc 90 105 SAND — 105 145 Shale 145 155 SAND Shale 155 260 Shale Mud Bran Lime Roct: Bit: Number Market Branket Bra		
If hole is a redrill or if moved from original staked position show distance and direction moved: FROM TO FORMATION — COLOR — HARDNESS O 40 Shale		
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30-045-26237

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

Operator MERIDIAN OIL INC.	Location: Unit D Sec. 6 Twp 25 Rng 9
Name of Well/Wells or Pipeline Serv	iced HUERFANO UNIT #188E
	cps 1851w_
Elevation6719' Completion Date 9/1/87	Total Depth 400' Land Type* N/A
Casing, Sizes, Types & Depths	N/A
If Casing is cemented, show amounts	& types used N/A
If Cement or Bentonite Plugs have be	een placed, show depths & amounts used
Depths & thickness of water zones w	ith description of water when possible:
Fresh, Clear, Salty, Sulphur, Etc	140° NO SAMPLE
Depths gas encountered: N/A	
Type & amount of coke breeze used:	N/A
Depths anodes placed: 315', 290', 280',	270', 260', 240', 230', 220', 210', 200'
Depths vent pipes placed: 365'	DECEIVED
Vent pipe perforations: 280'	MAY31 1991
Remarks: (gb #1	OIL CON. DIV
	DIST. 3

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

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

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

WELL CASING CATHODIC PROTECTION CONSTRUCTION REPORT DAILY LOG

CPS #	Well Name. Line or Plant:	ė						
			Work Orde	n #	Static:		Ins. Union Check	
1851-W	HUERFEN	0 # 188-	E		600 3	ω=.82	Ø com	☐ Bad
Locarion:	F-9 Anode Suse:	Anode Ty	writon		Size Bet: (3/4		·	
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Anode Output (Amp		# 14	= 15	# 16	i = 17	# 18	n 19	2 0
Total Circuit Resid	Amps 57.4	Chms	.44	No. 8 C.P. Cal	OATION		No. 2 C.P. Ca	ble Used
Remarks:	PILLED TO	400': 4	1066ED	360'.	DRIE	R SAI) war	ER AT
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Rectifier Size: Addn'l Depth		^				All Construc	tion Complete	d
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Extra Cable: Ditch & 1 Cable:	<u> </u>				21/2	2. D.K.	Will	(
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MERIDIAN OIL

P. O. BOX 4289-Phone 327-0251 FARMINGTON, NM

Date 9-1-87

DEEP WELL GROUNDBED LOG

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30-045-05501

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 25 Rng 9
Name of V	Well/Wells or Pipeline	Serviced HUERFANO UNIT #142
		cps 898w
Elevation	n_6910'Completion Date_	6/25/75 Total Depth 350' Land Type* N/A
Casing, S	Sizes, Types & Depths_	8' OF 8 5/8 surface casing
If Casing	g is cemented, show am	ounts & types usedN/A
	or Bentonite Plugs h	ave been placed, show depths & amounts used
		nes with description of water when possible: Etc. 138'
D epths ga	s encountered: N/A	
Type & an	ount of coke breeze u	sed: 3500]bs.
Depths an	odes placed: <u>285', 275</u>	', 265', 225', 215', 205', 195', 185', 175', 165'
Depths ve	ent pipes placed:N	A December 1
Vent pipe	perforations:	
Remarks:_		MAY 3 1 1991 U
		OIL CON DI

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 COMPANYV LS:SI:L +707/77/8 Stant On passon polyment

ENGINEERING DEPARTMENT

Date: _____

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Received by OCD: 3/20/202	24 1:07:02 PM	Application	Page 40 of 133
White - Water Resource Canary - Drillers Copy Pink - Drillers Copy	STATE OF OK WATER RESOUR 5th Floor, Jim Th Oklahoma City, Ol	LAHOMA Aquifer Orpe Building Klahoma 73105 County	em Code
1. OWNER	WELL DRILLER AD	RS REPORT DDRESS	
2. LOCATION PERMIT NO	1/4 1/4 Sec. SW 6 Twi	25 N# Rge 9 4/W	County
□ New Well [rrigation 🔲 Test 🗀 Ca	TYPE WELL ible ② Rotary her - * ② Rev. Rot.

2. LOCATION	1/4	1/4		_1/4 S	ec.SW6	Twp 25 N Rge 9 6 (W County
PERMIT NO.			., ,	t. 1407	Kar Taraga Maria	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
3. TYP New Wel Deepen	ı 🗆 :	ORK .	4	Domes	tic	OPOSED USE 5. TYPE WELL ☐ Irrigation ☐ Test ☐ Cable ☐ Rotary ☐ Industrial ☐ Stock ☐ Other ☐ Rev. Rot.
6.	LITE	iorogi <u>e</u> r	o G			8. WELL CONSTRUCTION WITH A STATE OF THE STA
Materia	al Total	Water Strata	From	To	Thick-	Diameter hole: 6 7 inches Total depth 350 fee
Materia	1		130			Casing record Weight per foot Thickness
3	_				and the	Weight per footThickness
blue sha	le	七一號/	130	17.3	· 3,	Diameter From
sand ite	٠,١	"宝城警	17.3	184	ては基礎	
flue st	ale	一、建學的	184	231	-	inches feet feet feet
gray sind	stone		237	276	- વર્ષિયાં મ	inches feet feet
There st	ale	· 46	276	310	:	
pohite son	-el		310	321	- 1995 June 18	Surface: seal:
Hard some	ston	Me	321	328	· .2.5	Gravel packed: Yes No
And the second		** A		\$ 25°	1 24	
blue sund	shale		328	<u> 350</u>	一种特	
		ત્ર≒વેલું કે		15		· · · · · · · · · · · · · · · · · · ·
<u></u>				_	V +-	Type perforation
			-		[-	Size perforation
				 		From feet to fee
(2101)						From feet to fee
(3/1/)	·····					From feet to fee
						9. WATER LEVEL
						Static water level Feet below land surface
		1		-		Flow G.P.M
		++		1		Water temperature F. Quality
		1				10. DRILLERS CERTIFICATION
				<u> </u>	L	This well was drilled under my supervision and the report is true to the bes
Date started						of my knowledge.
Date completed					19	
· · ·	WE	LL TEST D	ATA			Name
Pump R.P.M.	G.P.M.	Draw Dov	wn A	After Hou	rs Pump	Address
						Well driller's license number
						Signed Billy M Mongan

Date .

They do

30-045-20437

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

(Submit 3 copies to OCD Aztec Office)

Operat	or MERIDIAN OIL		Location:	Unit SW Sec	. 7 Twp 25 p	≀ng <u>9</u>
Name o	f Well/Wells or Pi	peline Servic	ed <u>HUERF</u>	ANO UNIT #189)	
					cps 89	9w
Elevat	ion_6879'Completion	Date 6/23/75	_Total Der	óth <u>425'</u> L	and Type*_	N/A
Casing	, Sizes, Types & D	epths N/A				
If Cas	ing is cemented, s	how amounts &	types use	ed <u>N/A</u>		
If Cem	ent or Bentonite F	lugs have bee	n placed,	show depth	s & amounts	used
	& thickness of wa		_		_	
Depths	gas encountered:_	N/A				
Type &	amount of coke br	eeze used:	3900 lbs.			
Depths	anodes placed: 38	30', 370', 360',	350', 340',	320', 305',	295', 280',	230'
Depths	vent pipes placed	:N/A				
Vent p	ipe perforations:_	230/		GEIVE	: וווי	
Remark	s:		Ti//	VAY,3,1,19 9 1	¥ *	
			OIL	CON. DIN		

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

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

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

WELL CASING

CATHODIC PROTECTION CONSTRUCTION REPORT

Large

Hurrfo Type & Size Bit Uper	NO #	189	SW 7"-	25N	-9 w	CPS No.	399 h	?
Anode Hole Depth	Total Drillin	a Ria Time	Total Lbs. Coke U	ised I ost Circ	ulation Mat'l Us	184-	54645.1	9-50-
425 Anode Depth		J mg mmc	3,900	1	T		1	. E decha o
380 # 2 Anode Output (Amps)	370 # 3 3E	O # 4 35	0 # 5 340	# 6.320	# 7 305	# 8 1 95	# 9 180	# 10 2
# 1 1 8 # 2 J	3.8 # 3 4 .	6 # 4 42	# 5 4.0	# 6 2.6	#7 4.2	#8 4.4	# 9 2.6	# 10 5.
# 12 Anode Output (Amps)	# 13	# 14	# 15	# 16	#17	#18	# 19	# 20
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#12 Total:Circuit. Resistan Volts:	Amps //	O Ohms	0.73-1	No. 8 C.P. Cal	le Used		No. 2 C.P. Cob	le Usedd
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- Received by OCD: 3/20/2024 1:07:02 PM

EL PASO NATURAL GAS COMPANY
ENGINEERING DEPARTMENT

Page 43 of 133

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Received by OCD: 3			1 • ·	<u>.</u>	STATE (DF OKLAHOMA	Application No	5
White Water R. Canary Drillers	artista di fontata di la	a red from Military				SOURCES BOARD	Aquifer	· · · · · · · · · · · · · · · · · · ·
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	. 5. %	λ.		W	ELL DR	LLERS REPORT	•	
1. OWNER						_ ADDRESS		***
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						Flow	G.P.M	3
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				 		10.	DRILLERS CERTIFICA	ATION .
Date started		L	 -	1	10	This well was drilled	l under my supervision and t	he report is true to the bes
Date completed.						of my knowledge.		
,p.				, , , ,				•
7.	WELL	TEST I)ATA					
Pump R.P.M.		Draw Do		fter Hour	s Pump		•	
			-+-		.9.	Well driller's licens	e number	
				 		Signed R. II	19 Morgan	
•						Date	· p	
	L. L.					IIII	_	

30-045-60020

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

(Submit 3 copies to OCD Aztec Office)

Operato	rMERIDIAN OIL	Location:	Unit_NW_S	Sec. 8 Twp 2	25 Rng 9
Name of	Well/Wells or Pipeline Serv	iced <u>HUER</u>	FANO UNIT #	155	
				cps	900w
Elevati	on <u>6862'</u> Completion Date <u>6/26/7</u> 5	Total De	pth 400'	_Land Type'	N/A
Casing,	Sizes, Types & Depths N/A	1			
					\
If Casi	ng is cemented, show amounts	& types us	edN/A		
	nt or Bentonite Plugs have be	een placed,	show dep	oths & amour	nts used
	& thickness of water zones water zones water		tion	666446 14431 1991	oseible:
			OIL	CON. DIV	
Depths o	gas encountered: N/A		ji SSA	V DIST. ?	
Type & a	amount of coke breeze used:	3600 lbs.			
Depths a	anodes placed: <u>360', 350', 340</u>	', 310', 290'	, 260', 25	0', 240', 230	', 220'
Depths '	vent pipes placed: N/A				
Vent pi	pe perforations: 200'				
Remarks	:gb				
If any o	of the above data is unavaila	able, pleas	e indicat	e so. Copie	es of all

logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included.

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

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

WELL CASING CATHODIC PROTECTION CONSTRUCTION REPORT DAILY LOG

Completion Date 6=26=75 Drilling Log (Attach Hereto). Well Name Huerfano #155 NW 8 - 25N -9W Anode Hole Depth Lost Circulation Mat'l Used No. Sacks Mud Total Lbs. Coke Used Total Drilling Rig Time # 2 350 # 3 340 # 4 310 # 5 290 # 6 260 # 7 250 # 8 240 # 9 230 # 10 ZZC 2.4 #3 2.2 #4 1.8 #5 2.4 #6 2.4 #7 3.0 #8 4.2 #9 4.4 # 10 3.8 # 15 11 WITH AIR. Driller said water AT 220 VENT HOSE Perforated 200' Logging Avode s All Construction Completed? Eduard

GROUND BED LAYOUT SKETCH

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Received by OCD: 3/20/2024 1:0 White Water Resources Both Canary Drillers Copy Pink Drillers Copy 1. OWNER 2. LOCATION1/4 PERMIT NO1/4	ard	WA 5th Okl	TER RE Floor, Ji ahoma Ci	m Thorpe Building ty; Oklahoma 73105 LLERS REPORT ADDRESS	Use CodeCounty	Nο	y)
3. TYPE OF WOR □ New Well □ Ro □ Deepen □ Or	econdition her	4. Domes Munic	PRO	OPOSED USE ☐ Irrigation ☐ Test ☐ Industrial ☐ Stock	5 Cal	TYPE WEL	Rotary
Material Material Med-shale gray sond Glue shale gray sond tore gray sondy shale red-sandy shale	Wäter Fr 	om To O 173 3 190 O 243 3 220 20 238 38 260 00 395 95 400	Wer	Diameter hole Casing record Weight per foot Diameter inches inches inches Surface seal: Yes Depth of seal Gravel packed: Yes Gravel packed from Perforations: Type perforation Size perforation From From	From From No feet to feet to feet to	al depth Thickness To eet eet eet eet cet to	feet feet feet feet feet feet
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EL PASO NATURAL GAS COMPANY

ENGINEERING DEPARTMENT

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281-30-045-22494

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

Operator MERIDIAN OIL	Location: Unit SE Sec. 5 Twp 25Rng 9
Name of Well/Wells or Pipeline Service	ed HUERFANO UNIT #281
	cps 1232w
Elevation 6812 Completion Date 11/1/78	_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 N/A	n placed, show depths & amounts used
Depths & thickness of water zones with Fresh, Clear, Salty, Sulphur, Etc.	-
Depths gas encountered: N/A	
Type & amount of coke breeze used:	40 SACKS
Depths anodes placed: 465', 455', 445', 4	
Depths vent pipes placed: 480'	DECEIAE!
Vent pipe perforations: 300'	MAY 3 1 1991
Remarks: gb #1	OIL CON. DIV
	DIST. 3

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

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

WELL CASING CATHODIC PROTECTION CONSTRUCTION REPORT DAILY LOG

- .		<u>.</u>	-			_ ~
Drilling Log (Attach Hereto).		•	Co	ompletion Dat	e 11-1-	78
Huerfano Unit # 281	Location SE 5-2	5-9	·····	CPS No.	32 W	
Type & Size Bit Used		CONTra	cT #3	Work Order		
Anode Hole Depth 500 - 493 Total Drilling Rig Time	Total Lbs. Coke Use 40 SACK	ed Lost Circ	ulation Mat'l Us			
Anode Depth # 2 455 # 3 445 # 4 4	' '		#7 405	1 395	1 _{#9} 385	! _{# 10} 370
Anode Output (Amps) = 1 4.9 ± 25.1 = 35.5 = 45	. '				·	# 10 2.5
Anode Depth # 11 # 12 # 13 # 14	# 15	# 16	 # 17	# 18	 # 19	# 20
Anode Output (Amps) # 11 # 12 # 13 = 14	 # 15	# 16	!= 17	¦≈ 18	 # 19	# 20
Total Circuit Resistance Volts 1.5 Amps 20.4 Oh	,,	No. 8 C.P. Cat	ole Used		No. 2 C.P. Cal	
Remarks: STATIC 9/3 600 E = .	75		2	" × 10	DuRIR	מא
DRILLER SAID WA	•	241	_			
INSTALLED 480'V			•	•		
SLURRied 40 SAC		/	_			
HOLE Depth = - 7 CABLE + D. Tch = 187'	40VILA A	lect				
CABLE + D. Tch= 187' Cx+RA CABLE= 170'	Stub Po	le		All Construc	ction Completes	d
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WHITE — Division Corrosion Office YELLOW — Area Corrosion Office			6812			•
FINK - Originator File			(es)	•		

Page 51 of 133

Sheet: _____of___ Date: ____//- 7 ? By:

1232W SE 5-25-9 HUERFANO UNIT #281 57233.21 ST/s 600'E=.75

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DRILLING DEPARTMENT 1232 W DAILY DRILLING REPORT WELL NO. 1232 WHITRACTOR & Briant RIG NO. REPORT NO. MORNING DAYLIGHT EVENING Total Mer In Crew Driller Total Men In Crew Onller जामिल Total Men In Crew FORMATION WT-BIT R. P. M. FROM то FORMATION WT-BIT R.P.M. FROM FROM го FORMATION WT-BIT R.P.M. NO. DC ____SIZE ____LENG.__ NO DC____SIZE____LENG_ NO. DC ____ SIZE ____ LENG. ____ BIT NO. BIT NO. NO, DC ____ SIZE ____ LENG.__ NO. DC ____ SIZE __ LENG _ NO DC____SIZE ____LENG.___ STANDS SERIAL NO. STANDS SERIAL NO. SERIAL NO. STANDS SIZE SINGLES SINGLES SIZE SINGLES SIZE TYPE TYPE TYPE DOWN ON KELLY DOWN ON KELLY DOWN ON KELLY MAKE TOTAL DEPTH MAKE TOTAL DEPTH TOTAL DEPTH MAKE MUD, ADDITIVES USED AND RECEIVED MUD RECORD MUD, ADDITIVES USED AND RECEIVED MUD RECORD MUD RECORD MUD, ADDITIVES USED AND RECEIVED $\forall t. \qquad V_{1G}.$ Time Vis. Time Obses "t. 715. FROM TIME BREAKDOWN FROM 405 430 REMARKS --REMARKS -

SIGNED: Toolpusher Low OBust Compuny Supervisor

30-045-20660

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

Operator	rMERIDIAN OIL	Location: Unit NW Sec. 32 Twp 26 Rng 9
Name of	Well/Wells or Pipeline Serv	riced <u>HUERFANO UNIT #208</u>
		cps 936w
Elevation	on <u>6589'</u> Completion Date <u>7/25/7</u>	5 Total Depth 320' Land Type* N/A
Casing,	Sizes, Types & Depths N/	Α
		
If Casin	ng is cemented, show amounts	s & types used N/A
	,	peen placed, show depths & amounts used
N	/a	
Depths 8	& thickness of water zones w	with description of water when possible:
Fresh,	Clear, Salty, Sulphur, Etc.	DAMP AT 50'-70', 135'-140', 147'-160'
		WET 160'
Depths o	gas encountered: N/A	
Type & a	amount of coke breeze used:_	3200 lbs.
Depths a	anodes placed: 260', 250', 240	', 230', 220', 210', 200', 190', 180', 170'
Depths v	vent pipes placed: N/A	
Vent pig	pe perforations: 140'	MEGEINER
Remarks:	gb #1 '	MAY3 1991
- Ū		OIL CO

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 Form 7-238 (Rev. 1-69)

Drilling Log	(Attach Here	to).				Co	ompletion Dat	e 7-25	-/5
Well Name HUE	rfano	Unit	4208		2-26-	9	CPS No.	936	V_
Type & Size E		3/4					Work Order	2747.1	9-50-20
Anode Hole D		Total Drilling Ri	g Time To	tal Lbs. Coke Us 3200	sed Lost Circ	ulation Mat'l Us	ed No. Sacks N		
Anode Depth # 1 260	# 2 Z S C	2 # 3 2 40	= 4 230	# 5 Z Z O	= 6 Z10	# 7 200	= 8 190	= 9/80	# 10 / 70
# 1 5. 4		# 3 4.9	# 4 5.0	± 5 4 9	# 6 . 4	# 7 5 ,3	= 8 S.O	= 95.5	= 10 4.8
# 11	# 12	# 13	¦ ≠ 14	# 15	# 16	‡ 17	# 18	# 19	# 20
# 11	# 12	# 13	± 14	# 15	# 16	# 17	± 18	# 19	# 20
Total Circuit Volts	Resistance	mps 19.5	Ohms 0	.49	No 8 C.P. Cat	450		No. 2 C.P. Cal	ble Used
Remarks:	Oriller	Said	Dam	pat	50 To	70, 1	35 To 1	40,	
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#### EL PASO NATURAL GAS COMPANY ENGINEERING DEPARTMENT

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### 30-045-13030



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

Operato	or MERIDIAN OIL	Location: Unit SE Sec. 31 Twp 26 Rng 9
Name of	f Well/Wells or Pipeline Ser	viced <u>HUERFANO_UNIT #137</u>
		cps 935w
Elevati	ion <u>6643'</u> Completion Date <u>8/5/7</u>	Total Depth 325' Land Type* N/A
Casing	, Sizes, Types & Depths	N/A
If Casi	ing is cemented, show amount	s & types used N/A
	ent or Bentonite Plugs have	been placed, show depths & amounts used
Depths	& thickness of water zones	with description of water when possible:
Fresh,	Clear, Salty, Sulphur, Etc.	135', 172'
Depths	gas encountered: N/A	
Type &	amount of coke breeze used:	3900 lbs.
		30', 220', 195', 185', 175', 165', 155', 145'
Depths	vent pipes placed: N/A	m eceivem
	ipe perforations: 200'	<del></del>
Remarks	5: <u>gb</u> ::#1	<u> </u>
		MAY 3 1 1991

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

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

Form 7-238 (Rev. 1-69)

CATHODIC PROTECTION CONSTRUCTION REPORT

Drilling Log (Attach Hereto).

Well Name	or fa	N	2	Z/	77	5E31	- 26 N	1-9W	CPS No.	9351	V
Type & Size B	6 3/4	"							Work Order	No. 117. 19.	-50-
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Anode Output (	Amps) # 2 <b>7</b> .					4 4 5 3.4					
Anode Depth	# 12		# 13		# 14	# 15	# 16		18	# 19	# 20
Anode Output ( # 11	Amps)	<del> </del>	# 13		# 14	# 15	# 16	# 17	18	!# 19	# 20
Total Circuit F	Resistance	\ \mpa		18.0	Ohms		No. 8 C.P. Cat			No. 2 C.P. Ca	

Remarks: Drill WITh Driller Said Water AT 135 MOYE WATER AT 172' STAYTED PLOCING ANODE: LOOSE ROCK falling in Hole Pulled ANodes OUT Driller Came Back And circulated wil Mad. Logging ANODE STOPPED FIRST TIMEA. 299'. Logging ANODE STOPPED AFTER MUD A.
265. VENT HOSE PERFORATED 200' All Construction Completed

Drules 952. XX 200,77

2484,22

Eduard R. Paulok

**GROUND BED LAYOUT SKETCH** 



### MORGAN DRILLING COMPANY

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

Ph. Office 405/584-6000 Mobile 584-6860 Night 420-3248 DATE <u>8-4-75</u>

Work Order No. <u>54317-19-50-7</u>

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Sin Mai	216	325		12:55					
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Date completed			;	19_75	Date	<del> </del>		<del></del>	<del></del>

By Collair N. Jack. 12

#### EL PASO NATURAL GAS COMPANY ENGINEERING DEPARTMENT

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## 30-045-20038

5204

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

Operator MERIDIAN OIL	Location: Unit NW Sec. 31 Twp 26 Rng 9
Name of Well/Wells or Pipeline S	Gerviced HUERFAND UNIT #166
	cps 934w
Elevation 6611 Completion Date 8/	4/75 Total Depth 325' Land Type* N/A
Casing, Sizes, Types & Depths	33' OF 8" STEEL PIPE, 23' OF 8' PLASTIC CASING.
If Casing is cemented, show amou	nnts & types used N/A
If Cement or Bentonite Plugs hav	ve been placed, show depths & amounts used
Depths & thickness of water zone	es with description of water when possible:
Fresh, Clear, Salty, Sulphur, Et	.c. <u>155'</u>
Depths gas encountered: N/A	
Type & amount of coke breeze use	ed: 3000 lbs.
Depths anodes placed: 285', 275'	. 245', 235', 225', 215', 205', 195', 185', 175'
Depths vent pipes placed: N/A	DECEIVED
Vent pipe perforations: 200	
Remarks: rgb #1	
	DIST. 3

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

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

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

### WELL CASING CATHODIC PROTECTION CONSTRUCTION REPORT DAILY LOG

hay

Drilling Log (Attach Hereto).

Completion Date 8/4/75

Well Name Hu	e2 4	g SN	•	d /	166		ocation		, 3,	/ _	261	v -	9w	(	CPS N	73	74	W		
Type & Size B		. 3/4	"			•			-					1	Vork O			19-	. 50	» - 2 c
Anode Hole De	T th	Т	tal Dri	lling Ric	Time	,		Lbs. C	oke U:	sed	Lost Cir	culatio	n Mat'l Us	ed l	Vo. Sa	cks M	lud Use	ed		
Anode Depth # 1 <b>1 85</b>	# 2 2	75	# 3 <b>2</b>	45	! ! !# 4	23				¦≉ 6	215	# 7	205	! ! ! <b>#</b> 8	19	75	     = 9	185	# 10	115
Anode Output # 1 5.0	/Amnet						- 1			U		1	4.6	1					1	
Anode Depth					<del> </del>		-			1		1					1		<del> </del>	
# 11	<b>#</b> 12		# 13		# 14		ļ#	15		# 16		# 17		# 1	8		# 19		‡# 20	
Anode Output	(Amps)						1			- <del> </del>		1		1			1			
<b># 1</b> 1	# 12	i	# 13		# 14		#	15 .		# 16		# 17		# 1	9		# 19		# 20	
Total Circuit : Volts	Resistance	Amps			1	Dhms		8		No8	C.P. Co	ble Us	ed Ø				No. 2	C.P. Ca	ble Use	ed

Remarks: Drill With Air. Driller said water

AT 155' Driller Set 33' 8' Steel Pipe

13' of 8' Plastic Casing Logging ANDOX

STopped AT 309' Vent Hose Perforated

200'

Double 964.8

2006. 466.96

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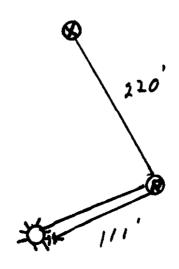
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All Construction Completed

Edual R. Paulek

GROUND BED LAYOUT SKETCH





#### MORGAN DRILLING COMPANY

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

Ph. Office 405/584-6000 Mobile 584-6860 Night 420-3248 DATE <u>2-4-75</u>

Work Order No. <u>5 4420 -19-50 -2</u>

cps-934-\omega -166

CUSTOMER EV GAR	و میر ر	ا آر ر	SERVICE A	DDRESS			CITY	
TEL. NO.	EQ. NO.		SERVICEM/	\N		VEHICLE NO.	T. 4	DATE COMPLETED
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Date completed			<del></del> ;	19 <u>75</u>	Date			<del></del>

Customer's Signature

By Edewyl R. Paulin

#### EL PASO NATURAL GAS COMPANY ENGINEERING DEPARTMENT

Sheet Page \$4 of 133

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## 137E 30-645-26242

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

Operator MERIDIAN OIL INC.	Location: Unit A Sec. 31 Twp 26 Rng 9
Name of Well/Wells or Pipeline Servi	ced HUERFANO UNIT #137E
	cps 1837w
Elevation 6575' Completion Date 9/8/87	Total Depth 400' Land Type* N/A
Casing, Sizes, Types & Depths	N/A
If Casing is cemented, show amounts	& types usedN/A
If Cement or Bentonite Plugs have be	en placed, show depths & amounts used
N/A	
Depths & thickness of water zones wi	th description of water when possible:
Fresh, Clear, Salty, Sulphur, Etc	90' - 100' NO SAMPLE
Depths gas encountered: N/A	
Type & amount of coke breeze used:	N/A
Depths anodes placed: 285', 270', 260',	
Depths vent pipes placed: 385'	
Vent pipe perforations: 300'	DECEIVED
Remarks: gb #1	MAY 3 1 1991
	OIL CON, DIV.

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

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

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

#### WELL CASING CATHODIC PROTECTION CONSTRUCTION REPORT

Page 66 of 133

G-G-S Page 66 of 133

in Competition

•			DAILY LOG		÷		
Drilling Log (Astach Hereso)			95-43001	. (	Completion I	Date	8-87
CPS / Weil Name, Line or Plant:		4	Fork Order #	Statue:	·- * · * *	Ins. Union-Chee	<b>k.</b>
					83-600		<del>``</del>
1837. WHUEFFANC	+ 13	7-6			· · ·		/ <u>/</u> /
Location Anode Size: A 31 - 26 - 7 2" × 6 C	/ Anoc	е Туре.	`	Size Bit: 63/4	11		
Depen Drilled Depen Logged	Drilling Rig	Durire	Total Line Goke Usedi	<del></del>	on Max I Used	No Sacks Mud	Used
400 383 Anode Depth	1		1	, , ,	1 ,	<u> </u>	, ,
Anoge Output (Amps:	10425	0 = 5 7	35   26 225	= 7215	128205	199195	1= 10 180
*! 6.2 *27.8 *37.8	#4 G	1 = 5 7.	4 = 67.0	47 7.9	1=8 7.8	49 6.4	a 10 7.2
# 11 # 12 # 13	!  ≈ 14	# 15	i # 16	n 17	i   ≈ 18	n 19	≈ 20
Anode Output (Amps.	= 14	<del>a</del> 15	= 16	: := 17	± 18	! !# 19	a 20
Total Circuit Resistance	ı	_	No. 8 C.P. 3		1- 10	No. 2 C.P. C	
Volts 12.1 Amps 31.4	, Ohm:			•			
Remarks: DRILLED TO	400',	40663	ED 383.	DRILLE	IR SAIC	O WATE	R AT
90'-100' NOT ENG	DUGH	for si	ample. I	NSTALL	ED 385	'of 1"	PVC
VENT PIDE : PErto	Λ						
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		•	-		<u> </u>	<del></del>	
	·						
Rectifier Size: 40 v 16	_A				All Constr	iction Comple	ted
Addn'l Depth					1		
Extra Cable: 30' / Ditch & 1 Cable: 165'	_			201		Ill.	·
Ditch & 2 Caple: 165					(S	ignalure) GROU	ND
25' Meter Pole: 20' Meter Pole:						O BE	
10' Stub Pole:	<del></del>				/	^	į
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#### "ERIDIAN OIL

P. O. BOX 4289-Phone 327-0251 FARMINGTON, NM

Date 9-8-87

DEEP WELL GROUNDBED LOG

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

Operator MERIDIAN OIL INC.	Location: Unit M Sec. 31 Twp 26 Rng 9
Name of Well/Wells or Pipeline Service	ed HUERFANO UNIT #166E
	cps 1843w
Elevation 6664' Completion Date 9/3/87	Total Depth 400' Land Type* N/A
Casing, Sizes, Types & Depths	N/A
If Casing is cemented, show amounts &	types used N/A
If Cement or Bentonite Plugs have bee	en placed, show depths & amounts used
Depths & thickness of water zones wit	th description of water when possible:
Fresh, Clear, Salty, Sulphur, Etc	
Depths gas encountered: N/A	
Type & amount of coke breeze used:	N/A
Depths anodes placed: 320', 310', 300', 2	265', 255', 245', 235', 210's cpc, 755'
Depths vent pipes placed: 350'	
Vent pipe perforations: 300'	<b>随从37</b> (324)
Remarks: gb #1	OIL CON. DIV.
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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

Page 70 of 133 Comp 2 9-4-87

				DAILY LOG					
Drilling Log (Assect He	ereso) 🔀			as-38	101	c	Completion D	)ate 9-3-	87
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Received by OCD: 3/20/2024 1:07:02 PHURGE CORROSION SYSTEMS, INC.

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

Date 9-3-87

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

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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Construction Logging READINGS

REDRILL

CPS #: 1004W WELL NAME: AUERTANO #134 LOCATION:

TOTAL VOLTS: 12, 7 TOTAL AMPS: 22.5 OHMS RESISTANCE:

										ANODE READINGS						
DEEF		ANODE NO.		LOG ANODE	ANODE NO.		LOG ANODE	ANODE No.		LOG ANODE	ANODE No.		DEPTH	NO COKE	WITH COKE	
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10			190	2.7		370			550			2	315	2,8	6.3	
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75	icile	/	255	30	100	435			615							
80	Á		260	2.8		440			620							
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#### DALLY DRILLING REPORT

_EASE <i>HUERSAN</i>	LO WELL NO. #	134 CON	TRACTOR	₹		F	RIG NO.		REP	ORT N	Ο.	DATE 1/1/2/12	<i></i>	19	
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## 30-045-20025

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

(Submit 3 copies to OCD Aztec Office)

Operator MERIDIAN OIL L	ocation: Unit NE Sec. 36 Twp 26 Rng 10
Name of Well/Wells or Pipeline Service	d HUERFANO UNIT #171
	cps 1003w
Elevation 6652 Completion Date 10/1/75	Total Depth 325' Land Type* N/A
Casing, Sizes, Types & Depths 24' SU	RFACE CASING
If Casing is cemented, show amounts &	types used N/A
If Cement or Bentonite Plugs have been	placed, show depths & amounts used
N/A	
Depths & thickness of water zones with	description of water when possible:
Fresh, Clear, Salty, Sulphur, Etc.	110'
Depths gas encountered: N/A	
Type & amount of coke breeze used: 3	3800 lbs.
Depths anodes placed: 280', 270', 250', 2	240', 230', 215', 185', 175', 165', 155'
Depths vent pipes placed: N/A	TO BREIVE !
Vent pipe perforations: 210'	
Remarks: gb #1	MAY 3 1 1991
	OIL CON. DIV.

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

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

Drilling Log	g (Attach Heret	to).   ***********************************	Loc	cation 36	( - A /		Completion D	Oate 10	
Type & Size	Bit Used	· A N B	1//	NW 36	<u> </u>	N -/8	Work Ord	er No.	19-50-
Anode Hole [	Depth /	Total Drilling Ri	g Time T	Total Lbs. Coke U	sed Lost Cı	rculation Mat'l 1		s Mud Used	
Anode Depth	#.2 <b>270</b>	#3 <b>250</b>	_{# 4} 240	# 5 <b>230</b>	# 6 215	# 7 185	# 8 - 115	# 9 <b>/6</b> S	<b>"</b>
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# MORGAN DRILLING COMPANY

P.O. Box 326 Broken Bow Oklahoma 74728

Ph. Office 405/584-6000 584-6860 Mobile Night 420-3248 DATE _ 10 - 1 - 75

Work Order No. 54486.19-50-20

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Blue Shale	110'	140'	110'	
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#### DRILLERS CERTIFICATION

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

Name

Address

Well driller's license number

Signed

Date

Customer's Signature

R. Laule

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Date: .._____

By:

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### 30-045-26233

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS.

NORTHWESTERN NEW MEXICO

(Submit 3 copies to OCD Aztec Office)

Operator MERIDIAN OIL INC. Location: Unit A Sec. 36 Twp 26Rng 10
Name of Well/Wells or Pipeline Serviced HUERFANO UNIT #134E
cps 1834w
Elevation 6639' Completion Date 9/30/87 Total Depth 380' Land Type* N/A  Casing, Sizes, Types & Depths 20' OF 8" PVC CASING
If Casing is cemented, show amounts & types used N/A
If Cement or Bentonite Plugs have been placed, show depths & amounts used
Depths & thickness of water zones with description of water when possible Fresh, Clear, Salty, Sulphur, Etc. 170' NO SAMPLE
Depths gas encountered: N/A
Type & amount of coke breeze used: N/A
Depths anodes placed: 340', 330', 320', 310', 285', 275', 265', 255', 245', 235'
Depths vent pipes placed: N/A
Vent pipe perforations: 220'
Remarks: gb #1 MAY 31 1991
OIL CON. DIV

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

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

FM-07-0238 (Rev. 18-82)

MERIDIAN OIL INC.

WELL CASING

CATHODIC PROTECTION CONSTRUCTION REPORT

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### BURGE CORROSION SYSTEMS, INC.

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

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

Operator MERIDIAN OIL INC. Location: Unit K Sec. 36 Twp26 Rng 10
Name of Well/Wells or Pipeline Serviced HUERFANO UNIT #171E
cps 1973w
Elevation6706' Completion Date 6/30/88 Total Depth 340' Land Type* N/A
Casing, Sizes, Types & Depths NONE SET
If Casing is cemented, show amounts & types usedN/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. 140' NO SAMPLE
Depths gas encountered: N/A
Type & amount of coke breeze used: N/A
Depths anodes placed: 300', 290', 280', 265', 240', 225', 210', 175', 160'
Depths vent pipes placed: 335'
Vent pipe perforations: 215'
MAY 31 1991.  Remarks: gb #1
OIL CON. DIV

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

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

7-0238 (Rev. 10-82)

WELL CASING
CATHODIC PROTECTION CONSTRUCTION REPORT

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1973W					20545	30A				
Location:		Anode Size:	Anode Ty	pe.			Size Bit	//		
K-36-26-		2" × 60"	Drilling Rig Tim	///	Total Lbs	Goke Used		Circulation Mat'l Used	No. Sacks N	lud Used
340'		325'	Juliang Kag Tan						110. Galles IV	
Anode Depth	000	100	011		0/0	21/2	!	0/ 0	(	/ // // /
# 1.300 # 2 Anode Output (Amps	<u>290</u>	#3280	# 4 265	# 5	250 #	240	# 7 2	25   * 8 2/	0 7.	5 # 10/60
#16.5 #2	6.0	# 3 6.2	# 4 7.2	# 5	5.2 #	6.2	# 7 6	4 1 85.	4 #95.	6 # 10 6.2
Anode Depth	,	4 12	1	i i !# 15		16	i 	1, 10	1 10	1 00
# 11 # 12 Anode Output (Amps		# 13	# 14	# 15	#	16	# 17	# 18	# 19	# 20
# 11 # 1:		# 13	# 14	# 15	#		# 17	# 18	# 19	# 20
Total Circuit Resis	!	mps 30.8	Ohms	27	No	. 8 C.P. Ca	ble Used	•	No. 2 C.P	. Cable Used
VOI.05 )				,3/		1		22		
Remarks: 1/11	Stert	Said *	to Ma	tero	to	ca	F/4	0. No	surface	<i>l.</i>
Casins	uess	insta	llech.	Inst	taller	3351	af.	IN PYC /	vent	sipe,
bottom	213	( Derl	orated	196	) M. 111	ton	10	mple. a	Ston	Standing
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Rectifier Size:	10	v <u>//</u>						411.0		
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Extra Cable: 23	30' (B)	. 27	612. - 55. - 147.	20 -	-				(1) and	' —
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10' Stub Pole:	9 156	3.50	- 158.5°	0 -						
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		104	158.5 225.6 4716. 4759.0	7 Q	<b>*</b>	ス	八八		o'	
			7102.				]	~ ~		

1608 Schofield Ln.

P.O. Box 8

Famington, NM 87499

(505) 327-9215 (505) 325-1946 Date 6-29-88

•		·-·;
	D. C	Crass DRILLING CO.
	Drill N	o. <u>3</u> \\(\alpha\)'
		DRILLER'S WELL LOG
/	1 500	
		Oil Co. Prospect
		JUAN State New Mex.
		·
		if moved from original staked position show distance
and direct	ion moved	!·
FROM	то	FORMATION — COLOR — HARDNESS
0	75	SANd
75	90	Shale
90	100	SAND V
100	ł	SANdy Shale
165	1	Shale
250	280	SANdStoNe
- '		
	-	S. N. Art. C. C. Free State
Mud	· · · · · · · · · · · · · · · · · · ·	Bron: Lime
Rock Bit N	Jumber	Make
		ter & 100'
S.L	80	CASING 7 Hrs.
		2,10,00
		Iller KONNIE Brown
	Dri	iller KUNNIE YJBWN

### #148 30-045-11781

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

Operator Meridian Cil Co. Location: Unit D Sec. 0/Twp25Rng 10
Name of Well/Wells or Pipeline Serviced
HUEFFANO UNIT#148
Elevation 675/Completion Date 3-2-93 Total Depth 374 Land Type F
Casing Strings, Sizes, Types & Depths 2255et 98 Ot 8"PVC CASING.
NO GAS, WRIET, OF Boulders Were ENCOUNTERED DUTING CASING
If Casing Strings are cemented, show amounts & types used <u>Cemented</u> With 22 SpcKs.
If Cement or Bentonite Plugs have been placed, show depths & amounts used
Depths & thickness of water zones with description of water: Fresh, Clear,
Salty, Sulphur, Etc. 105'
Depths gas encountered: NONE
Ground bed depth with type & amount of coke breeze used: 374
Depths anodes placed: 335 328 321 314 307 300 265 258 251 244 225 218 210, 195, 185
Depths vent pipes placed: 374
10 10N 3 1 1994
Remarks:

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

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

Released to Imaging: 3/22/2024 7:15:57 AM



#### LABORATORY REPORT

#### DIL FIELD WATER ANALYSIS

TECH, Inc 333 East Main Farmington New Mexico 87401

505/327-3311

Client: Sample ID:	25930319-04 Meridian Oil Huerfano # 148	938W	Date Date	Sampled: Received: Analyzed:	03-19-93 03-22-93
Location:	Groundbed			Reported:	

DISSOLVED SOLIDS:			Detection
	me/l.	my/L	Limit, mg/L
	a nie amee falle film	**************	and the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of th
Calcium, Ca++	0.2	4	1.0
Magnesium, Mg++	0.4	73	1.0
Sodium. Na+ (calc)	9.1	208	5.0
Chioride, Cl-	0.2	გ	2.0
Sulfate, SO4	5 - 5	244	5,0
Bicarbonate, HCO3-	<b>ូ.</b> ខ	49	5.0
Carbonate,CO3	3.2	96	1.0
Hydroxide, OH-	ND	ND	1.0
Total Dissolved Solids (	calculated):	<b>4</b> %0	10.0

#### DIHER PROPERTIES:

pH (unita): 9.6
reisastivity (characters): 11.6
specific gravity at 60F: 1.0036

room temperature (F): 73

ND . Not Detected at the stated dectection limit

Comments:

Methods:

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

Sein Eller

5198

# 30-045-20303

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

Operator MFRIDIAN OIL	Location: Unit SF Sec. 12 Twp 25 Rng 10
Name of Well/Wells or Pipeline Servi	ced HUERFANO UNIT #150
	cps 940w
Elevation 6830'Completion Date 8/7/75	Total Depth 325' Land Type* N/A
Casing, Sizes, Types & DepthsN/A	
If Casing is cemented, show amounts	& types used N/A
If Cement or Bentonite Plugs have bee	en placed, show depths & amounts used
Depths & thickness of water zones wi	th description of water when possible:
Fresh, Clear, Salty, Sulphur, Etc.	140'
Depths gas encountered: N/A  Type & amount of coke breeze used:	3000 lbs.
Depths anodes placed: 250', 235', 225',	
Depths vent pipes placed: N/A	KEGEIVER
Vent pipe perforations: 200'	MAY31 1991
Remarks: (gb #1	OIL CON. DIV.
	DIST. 3

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

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

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

# WELL CASING CATHODIC PROTECTION CONSTRUCTION REPORT DAILY LOG

July 200

Orilling	Log	(Attach	Hereto).	$\Box$
J. 8000110E	205	110000010	110,000	1 1

Completion Date <u>8-7-75</u>

Well Name Hucy	AZNO #	150 Loca	SE/2.	- 25N	-10W	CPS No.	40 W	,
Type & Size Bit Used	4'	-				Work Order I	Vo.	-50-2
Anode Hole Depth	Total Drilling R	ig Time To	3,000	I	ulation Mat'l Used			
Anode Depth					T I		1	I
#1 250 #223	5 #3 225	# 42/5	2 5 200	# 6 1 80	#7 170	± 8 160	129 150	# 10 / 4/
Anode Output (Amps)					1	_	:	•
#1 3.4 #2 3.	O #3 3.8	# 4 3.6	# 5 2.4	#6 3.6	# 7 4 . 12	· 8 <b>4.</b> 4	#9 41.8	# 10 4.6
Anode Depth							*1	+
# 11 # 12	# 13	# 14	<b>#</b> 15	# 16	# 17	± 18	# 19	# 20
Anode Output (Amps)	1	1	1	1		_	1	<del> </del>
# 11	# 13	# 14	# 15	# 16	# 17	÷ 18	# 19	# 20
Total Circuit Resistance	-			NoB C.P. Cab	le Used	·	No. 2 C.P. Ca	
Volts //. 8	Amps 14.5	Ohms	0.81	1 2 2 2	125		ļ	<i>‡</i>
		· · · · · · · · · · · · · · · · · · ·					<u></u>	

Remarks: Drill with Air Driller said water

AT 140' Vent Hose Perforated 200'

Logging Anode stopped AT 185'

Nulle - 889,29

Amely - 213.40

Luke 120 -0

The same

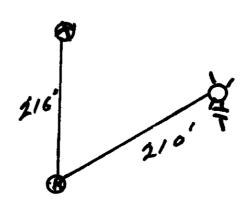
120 33.00 unche 35.00

Z447.71

All Construction Completed

Eduard R. Paulch

GROUND BED LAYOUT SKETCH



## EL PASO NATURAL GAS COMPANY ENGINEERING DEPARTMENT

Sheepage 930bf 133

ву: _____

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Material

# MORGAN DRILLING COMPANY

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

Ph. Office 405/584-6000 584-6860 Mob1le 420-3248 Night

LITHOLOGIC LOG

From

Water

Strata TIFC.

Time

6.36

. 19.

DATE 8-7-75
Work Order No. 54436-19-50-22  Muertana unit = 150
Man Mercan France Ton 1921.  Lling Completed 2-7-75
INSTRUCTIONS:
SERVICE PERFORMED:
RIG TIME
WATER TRUCK
DRILLERS CERTIFICATION
This well was drilled under my supervision and the report is true to the be of my knowledge.  Name Official Control of the beautiful true to the beautiful true to the beautiful true to the beautiful true to the beautiful true to the beautiful true to the beautiful true to the beautiful true to the beautiful true to the beautiful true to the beautiful true to the beautiful true to the beautiful true to the beautiful true to the beautiful true to the beautiful true to the beautiful true to the beautiful true to the beautiful true to the beautiful true to the beautiful true to the beautiful true to the beautiful true to the beautiful true to the beautiful true to the beautiful true to the beautiful true to the beautiful true to the beautiful true to the beautiful true to the beautiful true to the beautiful true true to the beautiful true true to the beautiful true true true true true to the beautiful true true true true true true true true
Address
Well driller's license number
Signed

Customer's Signature

Date started.

Date completed

### 150€-30-045-26358

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

Operator	MERIDIAN OIL INC.	Loca	tion: Unit	N Sec. 12	Twp 25 Rng 10
Name of We	ll/Wells or Pipeli	ne Serviced	HUERFANO U	NIT #150E	
					cps 1838w
Elevation68	395' Completion Dat	e <u>8/20/87</u> Tot	al Depth 42	20' Land	Type* N/A
Casing, Si	zes, Types & Depth	s	40' OF 8"	CASING	
If Casing	is cemented, show	amounts & typ	es used_N	/A	
	or Bentonite Plugs /A	have been pl	aced, show	depths &	amounts used
Depths & t	hickness of water	zones with de	scription	of water w	when possible:
Fresh, Cle	ar, Salty, Sulphur	, Etc	160' NO	SAMPLE	
Depths gas	encountered:	N/A			
Type & amo	unt of coke breeze	used:	N/A		
Depths ano	des placed: <u>375', 365</u>	355', 345',	335', 325	290 0 2901,	7278' 17260'
Depths ven	t pipes placed:	410'	in in		ريا
Vent pipe	perforations:	290'		MAY 31 19	ai - & - M
Remarks: g	b #1			DIET. S	) Ala
				,	

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 10-62)

# WELL CASING CATHODIC PROTECTION CONSTRUCTION REPORT DAILY LOG

Jarup 7

Drilling Log (Attach H	lereto)			959560	0/ 0	Completion D	)ate 8/20	/87
CPS #	Well Name, Line or Plant		Work	Order #	EL C Static	V. = NOT	A VALIBLE Ins Union Check	
1	Huerfalo	UNIT F	50E		.79V	W	∑ Good	☐ Bad
SW12-25-	Anode Size 2 "X 60"	Anode Type	•	i	Size Bit 3/4	"		
Depth Drilled , 420	Depth Logged 410	Drilling Rig Time	UKIOA	Total Lbs Coke Used		on Mat I Used	No Sacks Mud U	sed
Andre Depth	365 #3 355	44345	= 5 ] -	5 46 325	r 7290	: 8 2 8 U	29 270	1 0 2 6 0
Anode Output (Amps	5.7 = 3 5.6	i	i I	1	1	1=8 6.1	,	1
Anode Deptn # 11 # 12	2 # 13	T T	# 15	# 16	i  a 17	± 18	# 19	<b>≈</b> 20
Anode Output (Amps	2   = 13	= 14	i ≈ 15		i     = 17	; ! # 18	<b>a</b> 19	.≈ 20
Total Circuit Resist	•	,Ohms	59	No. 8 C.P. Ca	pie Usea		No. 2 C.P. Co	ibie Usea
Pamarks: Wi	Ater At	( <b>5</b> 0'.	WATE	V 5A401	- wo	od 40 T	- se.716	e out
	v of 8" P.							
Rectifier Size:  Addn'l Depth  Depth Credit:  Extra Cable:  Ditch & 1 Cable:  Ditch & 2 Cab  25' Meter Pol  20' Heter Pol	40v		-360.0 2140.5	500			ction Complete Satt	,
10' Stub Pole Junction Box: ロップライ 分	P.V.C. & 45 e1	TAX TAL \$5	40.0 8 80.0 2 61.5 2 63.0 5 2 4.6	8	-( P\$.	160		N
n	na · 2/22/2024 7·15·57	436		695			`\\ <u>\</u>	

### ERIDIAN OIL

P. O. BOX 4289-Phone 327-0251 FARMINGTON, NM

DEEP WELL GROUNDBED LOG

Date ______ 8/20/87



## **APPENDIX C**

Executed C-138 Solid Waste Acceptance Form

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

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.

Form C-138 Revised 08/01/11

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

# Fe, NM 87505 Santa Fe, NM 87505 Santa Fe, NM 87505 9705 REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

	REQUEST FOR APPROVAL TO ACCEPT	SULID WASTE
En	Generator Name and Address: terprise Field Services, LLC, 614 Reilly Ave, Farmington NM 87401	PayKey:AM14058 PM: M.E. Eddleman AFE: N68031
2.	Originating Site: Huerfano #188	
3.	Location of Material (Street Address, City, State or ULSTR): UL M Section 32 T25N R9W; 36.425127, -107.835661	Nov 2023
Son	Source and Description of Waste: urce: Remediation activities associated with a natural gas pipeline leak. scription: Hydrocarbon/Condensate impacted soil associated natural gas pipeline release. timated Volume 50 yd³ / bbls Known Volume (to be entered by the operator at the en	
cer	GENERATOR CERTIFICATION STATEMENT OF WARDS Long from Long, representative or authorized agent for Enterprise Products Operat Generator Signature tify that according to the Resource Conservation and Recovery Act (RCRA) and the US Equilatory determination, the above described waste is: (Check the appropriate classification	ing do hereby Environmental Protection Agency's July 1988
	RCRA Exempt: Oil field wastes generated from oil and gas exploration and produce exempt waste.  **Operator Use Only: Waste Acceptance Frequency   Monthly    **Monthly   Monthly    **Description: The product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the product of the pr	
	RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazard subpart D, as amended. The following documentation is attached to demonstrate the about the appropriate items)	dous waste as defined in 40 CFR, part 261,
	- CONTROL	☐ Other (Provide description in Box 4)
	GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEM	MENT FOR LANDFARMS
the	Thomas Long 11-13-2023, representative for Enterprise Products Operating au Generator Signature required testing/sign the Generator Waste Testing Certification.	thorizes Envirotech, Inc. to complete
rep hav of t	representative forEnvirotech, Inc.  resentative samples of the oil field waste have been subjected to the paint filter test and te we been found to conform to the specific requirements applicable to landfarms pursuant to the representative samples are attached to demonstrate the above-described waste conform 15.36 NMAC.	Section 15 of 19.15.36 NMAC. The results
5.	Transporter: OFT and Subcontractors	
oc	CD Permitted Surface Waste Management Facility	
	Name and Facility Permit #: Envirotech Inc. Soil Remediation Facility * Permit #: NI Address of Facility: Hilltop, NM Method of Treatment and/or Disposal:  Evaporation Injection Treating Plant Landfarm	M 01-0011  Landfill
PRI	INT NAME: Gras Crashrer TITLE: Envivo M SNATURE: TELEPHONE NO.:	Must Be Maintained As Permanent Record)  Mankgen  DATE: 11/13/23  332-0615



## APPENDIX D

Photographic Documentation

Closure Report Enterprise Field Services, LLC Huerfano #188 (11/13/23) Ensolum Project No. 05A1226295



### Photograph 1

Photograph Description: View of the inprocess excavation activities.



### Photograph 2

Photograph Description: View of the inprocess excavation activities.



### Photograph 3

Photograph Description: View of final excavation.



### **SITE PHOTOGRAPHS**

Closure Report Enterprise Field Services, LLC Huerfano #188 (11/13/23) Ensolum Project No. 05A1226295



### Photograph 4

Photograph Description: View of the excavation after initial restoration.





## **APPENDIX E**

Regulatory Correspondence

From: Kyle Summers

To: <u>Chad D"Aponti</u>; <u>Ranee Deechilly</u>

Subject: Fwd: Huerfano #188 - UL M Section 32 T25N R9W; 36.425127, -107.835661; NMOCD Incident #

nAPP2331745754

Date: Wednesday, November 15, 2023 4:49:19 PM

Kyle Summers Principal 903-821-5603 Ensolum, LLC

From: nnepawq@frontiernet.net <nnepawq@frontiernet.net>

**Sent:** Wednesday, November 15, 2023 4:47:15 PM

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

**Cc:** 'Velez, Nelson, EMNRD' <Nelson.Velez@emnrd.nm.gov>; 'Stone, Brian' <bmstone@eprod.com>;

Kyle Summers <ksummers@ensolum.com>

Subject: RE: Huerfano #188 - UL M Section 32 T25N R9W; 36.425127, -107.835661; NMOCD

Incident # nAPP2331745754

#### [ **EXTERNAL EMAIL**]

Tom,

Go ahead and sample as planned.

--Steve

Steve Austin Senior Hydrologist NNEPA WQ/NPDES Program 505-368-1037

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

Sent: Wednesday, November 15, 2023 1:40 PM

To: nnepawq@frontiernet.net

**Subject:** Huerfano #188 - UL M Section 32 T25N R9W; 36.425127, -107.835661; NMOCD Incident #

nAPP2331745754

Steve,

This email is a notification and a variance request. Enterprise is requesting a variance for required

48-hour notification per 19.15.29.12D (1a) NMAC. Enterprise would like to collect closure samples on Friday, November 17, 2023 at 9:00 a.m.

Please acknowledge acceptance of this variance request.

If you have any questions, please call or email.

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



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

### **ENSOLUM**

TABLE 1 Huerfano #188 (11/13/23) SOIL ANALYTICAL SUMMARY													
Sample I.D.	Date	Sample Type C- Composite G - Grab	Sample Depth	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)
	Depa nservation Div	neral & Natural Intment Vision Closure ( ier I)		10	NE	NE	NE	50	NE	NE	NE	100	600
	Excavation Composite Soil Samples												
S-1	11.17.23	С	16	<0.037	<0.074	<0.074	<0.15	ND	<7.4	<9.4	<47	ND	<60
S-2	11.17.23	С	16	<0.13	<0.27	<0.27	<0.54	ND	<27	<9.6	<48	ND	<60
S-3	11.17.23	С	0 to 16	0.038	0.15	<0.040	0.27	0.46	<4.0	<9.1	<46	ND	<60
S-4	11.17.23	С	0 to 16	0.044	0.19	<0.069	0.36	0.59	<6.9	<9.7	<49	ND	<60
S-5	11.17.23	С	0 to 16	<0.019	<0.038	<0.038	<0.076	ND	<3.8	<9.2	<46	ND	<59
S-6	11.17.23	С	0 to 16	<0.018	<0.036	<0.036	0.077	0.077	<3.6	<9.8	<49	ND	<60
S-7	11.17.23	С	0 to 16	<0.017	<0.035	<0.035	<0.070	ND	<3.5	<9.3	<46	ND	<61
S-8	11.17.23	С	0 to 16	0.040	0.15	<0.072	0.26	0.45	<7.2	<9.2	<46	ND	<59
S-9	11.17.23	С	0 to 16	0.037	0.14	<0.071	0.29	0.47	<7.1	<9.6	<48	ND	<60
S-10	11.17.23	С	0 to 16	<0.037	<0.075	<0.075	<0.15	ND	<7.5	<9.2	<46	ND	<60

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

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

NE = Not established

mg/kg = milligrams per kilogram

BTEX = Benzene, Toluene, Ethylbenzene, and Xylenes

TPH = Total Petroleum Hydrocarbons

GRO = Gasoline Range Organics

DRO = Diesel Range Organics

MRO = Motor Oil/Lube Oil Range Organics



## **APPENDIX G**

Laboratory Data Sheets & Chain of Custody Documentation



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

November 29, 2023

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

FAX:

RE: Huerfano 188 OrderNo.: 2311A02

#### Dear Kyle Summers:

Eurofins Environment Testing South Central, LLC received 10 sample(s) on 11/18/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andy

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 11/29/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-1

Project: Huerfano 188 Collection Date: 11/17/2023 9:00:00 AM

**Lab ID:** 2311A02-001 **Matrix:** MEOH BLAN **Received Date:** 11/18/2023 7:00:00 AM

Analyses	Result	RL (	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	: JMT
Chloride	ND	60	mg/Kg	20	11/19/2023 11:31:32 Al	A 78892
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analys	:: PRD
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	11/20/2023 10:41:25 Al	A 78896
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	11/20/2023 10:41:25 Al	<i>I</i> 78896
Surr: DNOP	88.0	69-147	%Rec	1	11/20/2023 10:41:25 Al	Л 78896
EPA METHOD 8015D: GASOLINE RANGE					Analys	:: RAA
Gasoline Range Organics (GRO)	ND	7.4	mg/Kg	2	11/20/2023 11:34:00 Al	/ R101307
Surr: BFB	111	15-244	%Rec	2	11/20/2023 11:34:00 Al	/ R101307
EPA METHOD 8021B: VOLATILES					Analys	:: RAA
Benzene	ND	0.037	mg/Kg	2	11/20/2023 11:34:00 Al	/ BS10130
Toluene	ND	0.074	mg/Kg	2	11/20/2023 11:34:00 Al	И BS10130
Ethylbenzene	ND	0.074	mg/Kg	2	11/20/2023 11:34:00 Al	/I BS10130
Xylenes, Total	ND	0.15	mg/Kg	2	11/20/2023 11:34:00 Al	/ BS10130
Surr: 4-Bromofluorobenzene	98.0	39.1-146	%Rec	2	11/20/2023 11:34:00 A	/ BS10130

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

Qualifiers:

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

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Date Reported: 11/29/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-2

Project: Huerfano 188 Collection Date: 11/17/2023 9:05:00 AM

**Lab ID:** 2311A02-002 **Matrix:** MEOH BLAN **Received Date:** 11/18/2023 7:00:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: JMT
Chloride	ND	60	mg/Kg	20	11/19/2023 11:43:57 Al	И 78892
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analys	: PRD
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	11/20/2023 10:51:54 Al	Л 78896
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	11/20/2023 10:51:54 Al	M 78896
Surr: DNOP	90.8	69-147	%Rec	1	11/20/2023 10:51:54 AI	Л 78896
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: RAA
Gasoline Range Organics (GRO)	ND	27	mg/Kg	5	11/20/2023 11:56:00 Al	M R101307
Surr: BFB	106	15-244	%Rec	5	11/20/2023 11:56:00 Al	M R101307
EPA METHOD 8021B: VOLATILES					Analys	t: RAA
Benzene	ND	0.13	mg/Kg	5	11/20/2023 11:56:00 Al	M BS10130
Toluene	ND	0.27	mg/Kg	5	11/20/2023 11:56:00 Al	M BS10130
Ethylbenzene	ND	0.27	mg/Kg	5	11/20/2023 11:56:00 Al	M BS10130
Xylenes, Total	ND	0.54	mg/Kg	5	11/20/2023 11:56:00 Al	M BS10130
Surr: 4-Bromofluorobenzene	98.5	39.1-146	%Rec	5	11/20/2023 11:56:00 Al	M BS10130

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

Qualifiers:

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

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Date Reported: 11/29/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-3

Project: Huerfano 188 Collection Date: 11/17/2023 9:10:00 AM

**Lab ID:** 2311A02-003 **Matrix:** MEOH BLAN **Received Date:** 11/18/2023 7:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	JMT
Chloride	ND	60	mg/Kg	20	11/19/2023 11:56:22 AM	78892
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	PRD
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	11/20/2023 11:12:53 AM	78896
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	11/20/2023 11:12:53 AM	l 78896
Surr: DNOP	92.1	69-147	%Rec	1	11/20/2023 11:12:53 AM	l 78896
EPA METHOD 8015D: GASOLINE RANGE					Analyst	RAA
Gasoline Range Organics (GRO)	ND	4.0	mg/Kg	1	11/20/2023 12:18:00 PM	R101307
Surr: BFB	105	15-244	%Rec	1	11/20/2023 12:18:00 PM	R101307
EPA METHOD 8021B: VOLATILES					Analyst	RAA
Benzene	0.038	0.020	mg/Kg	1	11/20/2023 12:18:00 PM	BS10130
Toluene	0.15	0.040	mg/Kg	1	11/20/2023 12:18:00 PM	I BS10130
Ethylbenzene	ND	0.040	mg/Kg	1	11/20/2023 12:18:00 PM	I BS10130
Xylenes, Total	0.27	0.080	mg/Kg	1	11/20/2023 12:18:00 PM	I BS10130
Surr: 4-Bromofluorobenzene	95.6	39.1-146	%Rec	1	11/20/2023 12:18:00 PM	BS10130

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

Qualifiers:

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

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Date Reported: 11/29/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-4

Project: Huerfano 188 Collection Date: 11/17/2023 9:15:00 AM

**Lab ID:** 2311A02-004 **Matrix:** MEOH BLAN **Received Date:** 11/18/2023 7:00:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	60	mg/Kg	20	11/19/2023 12:08:47 PM	1 78892
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: PRD
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	11/20/2023 11:23:23 AM	1 78896
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	11/20/2023 11:23:23 AM	1 78896
Surr: DNOP	76.8	69-147	%Rec	1	11/20/2023 11:23:23 AM	1 78896
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: RAA
Gasoline Range Organics (GRO)	ND	6.9	mg/Kg	2	11/20/2023 12:39:00 PM	1 R101307
Surr: BFB	108	15-244	%Rec	2	11/20/2023 12:39:00 PM	1 R101307
EPA METHOD 8021B: VOLATILES					Analyst	: RAA
Benzene	0.044	0.035	mg/Kg	2	11/20/2023 12:39:00 PM	1 BS10130
Toluene	0.19	0.069	mg/Kg	2	11/20/2023 12:39:00 PM	1 BS10130
Ethylbenzene	ND	0.069	mg/Kg	2	11/20/2023 12:39:00 PM	1 BS10130
Xylenes, Total	0.36	0.14	mg/Kg	2	11/20/2023 12:39:00 PM	1 BS10130
Surr: 4-Bromofluorobenzene	98.0	39.1-146	%Rec	2	11/20/2023 12:39:00 PM	1 BS10130

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

Qualifiers:

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

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Date Reported: 11/29/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-5

Project: Huerfano 188 Collection Date: 11/17/2023 9:20:00 AM

**Lab ID:** 2311A02-005 **Matrix:** MEOH BLAN **Received Date:** 11/18/2023 7:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	59	mg/Kg	20	11/19/2023 12:21:11 PN	1 78892
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: PRD
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	11/20/2023 11:33:54 AN	1 78896
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	11/20/2023 11:33:54 AN	1 78896
Surr: DNOP	90.4	69-147	%Rec	1	11/20/2023 11:33:54 AM	1 78896
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: RAA
Gasoline Range Organics (GRO)	ND	3.8	mg/Kg	1	11/20/2023 1:01:00 PM	R101307
Surr: BFB	99.4	15-244	%Rec	1	11/20/2023 1:01:00 PM	R101307
EPA METHOD 8021B: VOLATILES					Analyst	: RAA
Benzene	ND	0.019	mg/Kg	1	11/20/2023 1:01:00 PM	BS10130
Toluene	ND	0.038	mg/Kg	1	11/20/2023 1:01:00 PM	BS10130
Ethylbenzene	ND	0.038	mg/Kg	1	11/20/2023 1:01:00 PM	BS10130
Xylenes, Total	ND	0.076	mg/Kg	1	11/20/2023 1:01:00 PM	BS10130
Surr: 4-Bromofluorobenzene	96.0	39.1-146	%Rec	1	11/20/2023 1:01:00 PM	BS10130

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

Qualifiers:

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

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Date Reported: 11/29/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-6

Project: Huerfano 188 Collection Date: 11/17/2023 9:25:00 AM

**Lab ID:** 2311A02-006 **Matrix:** MEOH BLAN **Received Date:** 11/18/2023 7:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	60	mg/Kg	20	11/19/2023 12:58:26 PM	1 78892
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: PRD
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	11/20/2023 11:44:27 AM	1 78896
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	11/20/2023 11:44:27 AM	1 78896
Surr: DNOP	94.0	69-147	%Rec	1	11/20/2023 11:44:27 AM	1 78896
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: RAA
Gasoline Range Organics (GRO)	ND	3.6	mg/Kg	1	11/20/2023 1:23:00 PM	R101307
Surr: BFB	109	15-244	%Rec	1	11/20/2023 1:23:00 PM	R101307
EPA METHOD 8021B: VOLATILES					Analyst	: RAA
Benzene	ND	0.018	mg/Kg	1	11/20/2023 1:23:00 PM	BS10130
Toluene	ND	0.036	mg/Kg	1	11/20/2023 1:23:00 PM	BS10130
Ethylbenzene	ND	0.036	mg/Kg	1	11/20/2023 1:23:00 PM	BS10130
Xylenes, Total	0.077	0.072	mg/Kg	1	11/20/2023 1:23:00 PM	BS10130
Surr: 4-Bromofluorobenzene	99.4	39.1-146	%Rec	1	11/20/2023 1:23:00 PM	BS10130

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

Qualifiers:

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

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Date Reported: 11/29/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-7

Project: Huerfano 188 Collection Date: 11/17/2023 9:30:00 AM

**Lab ID:** 2311A02-007 **Matrix:** MEOH BLAN **Received Date:** 11/18/2023 7:00:00 AM

Analyses	Result	RL (	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	61	mg/Kg	20	11/19/2023 1:10:50 PM	78892
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: PRD
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	11/20/2023 11:55:01 AM	1 78896
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	11/20/2023 11:55:01 AM	1 78896
Surr: DNOP	91.7	69-147	%Rec	1	11/20/2023 11:55:01 AM	1 78896
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: RAA
Gasoline Range Organics (GRO)	ND	3.5	mg/Kg	1	11/20/2023 1:45:00 PM	R101307
Surr: BFB	104	15-244	%Rec	1	11/20/2023 1:45:00 PM	R101307
EPA METHOD 8021B: VOLATILES					Analyst	: RAA
Benzene	ND	0.017	mg/Kg	1	11/20/2023 1:45:00 PM	BS10130
Toluene	ND	0.035	mg/Kg	1	11/20/2023 1:45:00 PM	BS10130
Ethylbenzene	ND	0.035	mg/Kg	1	11/20/2023 1:45:00 PM	BS10130
Xylenes, Total	ND	0.070	mg/Kg	1	11/20/2023 1:45:00 PM	BS10130
Surr: 4-Bromofluorobenzene	98.4	39.1-146	%Rec	1	11/20/2023 1:45:00 PM	BS10130

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

Qualifiers:

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

orting Limit Page 7 of 14

2311A02-008

Lab ID:

#### **Analytical Report** Lab Order 2311A02

Received Date: 11/18/2023 7:00:00 AM

Date Reported: 11/29/2023

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT: ENSOLUM** Client Sample ID: S-8

**Project:** Huerfano 188 Collection Date: 11/17/2023 9:35:00 AM Matrix: MEOH BLAN

Result **RL Qual Units DF** Date Analyzed **Batch** Analyses **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride ND 59 mg/Kg 11/19/2023 1:23:14 PM 78892 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: PRD Diesel Range Organics (DRO) 9.2 mg/Kg 11/20/2023 12:05:35 PM 78896 Motor Oil Range Organics (MRO) ND 46 mg/Kg 1 11/20/2023 12:05:35 PM 78896 Surr: DNOP 91.9 69-147 %Rec 11/20/2023 12:05:35 PM 78896

**EPA METHOD 8015D: GASOLINE RANGE** Analyst: RAA 11/20/2023 2:06:00 PM R101307 Gasoline Range Organics (GRO) ND 7.2 2 mg/Kg Surr: BFB 105 %Rec 11/20/2023 2:06:00 PM R101307 15-244 **EPA METHOD 8021B: VOLATILES** Analyst: RAA 0.040 0.036 11/20/2023 2:06:00 PM BS10130 Benzene mg/Kg 2 Toluene 0.15 0.072 mg/Kg 2 11/20/2023 2:06:00 PM Ethylbenzene ND 0.072 mg/Kg 2 11/20/2023 2:06:00 PM BS10130 Xylenes, Total 0.26 0.14 mg/Kg 11/20/2023 2:06:00 PM BS10130 Surr: 4-Bromofluorobenzene 11/20/2023 2:06:00 PM BS10130 97.0 39.1-146 %Rec

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

Qualifiers:

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

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Date Reported: 11/29/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-9

Project: Huerfano 188 Collection Date: 11/17/2023 9:40:00 AM

**Lab ID:** 2311A02-009 **Matrix:** MEOH BLAN **Received Date:** 11/18/2023 7:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	JMT
Chloride	ND	60	mg/Kg	20	11/19/2023 1:35:39 PM	78892
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	PRD
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	11/20/2023 12:16:09 PM	78896
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	11/20/2023 12:16:09 PM	78896
Surr: DNOP	90.9	69-147	%Rec	1	11/20/2023 12:16:09 PM	l 78896
EPA METHOD 8015D: GASOLINE RANGE					Analyst	RAA
Gasoline Range Organics (GRO)	ND	7.1	mg/Kg	2	11/20/2023 2:28:00 PM	R101307
Surr: BFB	107	15-244	%Rec	2	11/20/2023 2:28:00 PM	R101307
EPA METHOD 8021B: VOLATILES					Analyst	RAA
Benzene	0.037	0.036	mg/Kg	2	11/20/2023 2:28:00 PM	BS10130
Toluene	0.14	0.071	mg/Kg	2	11/20/2023 2:28:00 PM	BS10130
Ethylbenzene	ND	0.071	mg/Kg	2	11/20/2023 2:28:00 PM	BS10130
Xylenes, Total	0.29	0.14	mg/Kg	2	11/20/2023 2:28:00 PM	BS10130
Surr: 4-Bromofluorobenzene	97.4	39.1-146	%Rec	2	11/20/2023 2:28:00 PM	BS10130

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

Qualifiers:

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

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Date Reported: 11/29/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-10

Project: Huerfano 188 Collection Date: 11/17/2023 9:45:00 AM

**Lab ID:** 2311A02-010 **Matrix:** MEOH BLAN **Received Date:** 11/18/2023 7:00:00 AM

Analyses	Result	RL (	Qual Units	DF	<b>Date Analyzed</b>	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	60	mg/Kg	20	11/19/2023 1:48:03 PM	78892
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst	: PRD
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	11/20/2023 12:26:45 PM	1 78896
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	11/20/2023 12:26:45 PM	1 78896
Surr: DNOP	94.0	69-147	%Rec	1	11/20/2023 12:26:45 PM	1 78896
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: RAA
Gasoline Range Organics (GRO)	ND	7.5	mg/Kg	2	11/20/2023 2:50:00 PM	R101307
Surr: BFB	100	15-244	%Rec	2	11/20/2023 2:50:00 PM	R101307
EPA METHOD 8021B: VOLATILES					Analyst	: RAA
Benzene	ND	0.037	mg/Kg	2	11/20/2023 2:50:00 PM	BS10130
Toluene	ND	0.075	mg/Kg	2	11/20/2023 2:50:00 PM	BS10130
Ethylbenzene	ND	0.075	mg/Kg	2	11/20/2023 2:50:00 PM	BS10130
Xylenes, Total	ND	0.15	mg/Kg	2	11/20/2023 2:50:00 PM	BS10130
Surr: 4-Bromofluorobenzene	96.9	39.1-146	%Rec	2	11/20/2023 2:50:00 PM	BS10130

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

Qualifiers:

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

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#### Hall Environmental Analysis Laboratory, Inc.

WO#: **2311A02** 

29-Nov-23

Client: ENSOLUM
Project: Huerfano 188

Sample ID: MB-78892 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 78892 RunNo: 101309

Prep Date: 11/19/2023 Analysis Date: 11/19/2023 SeqNo: 3726155 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-78892 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 78892 RunNo: 101309

Prep Date: 11/19/2023 Analysis Date: 11/19/2023 SeqNo: 3726159 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 90.7 90 110

#### Qualifiers:

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

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## Hall Environmental Analysis Laboratory, Inc.

ND

8.8

50

10.00

WO#: **2311A02 29-Nov-23** 

Client: ENSOLUM
Project: Huerfano 188

Sample ID: 2311A02-010AMS	SampType: MS	npType: MS TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID: S-10	Batch ID: 78896	RunNo: 101310					
Prep Date: 11/20/2023	Analysis Date: 11/20/2023	SeqNo: 3726253 Units: mg/Kg					
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPI	OLimit Qual				
Diesel Range Organics (DRO)	39 9.3 46.73	0 82.8 54.2 135					
Surr: DNOP	3.8 4.673	82.2 69 147					
Sample ID: LCS-78896	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Orga	nics				
Client ID: LCSS	Batch ID: 78896	RunNo: 101310					
Prep Date: 11/20/2023	Analysis Date: 11/20/2023	SeqNo: 3726254 Units: mg/Kg					
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPI	OLimit Qual				
Diesel Range Organics (DRO)	45 10 50.00	0 89.5 61.9 130					
Surr: DNOP	4.2 5.000	84.9 69 147					
Sample ID: MB-78896	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Orga	nics				
Client ID: PBS	Batch ID: 78896	RunNo: 101310					
Prep Date: 11/20/2023	Analysis Date: 11/20/2023	SeqNo: 3726255 Units: mg/Kg					
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPI	DLimit Qual				
Diesel Range Organics (DRO)	ND 10						

Sample ID:	2311A02-010AMSD	SampT	ype: MS	D	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID:	S-10	Batch	1D: <b>788</b>	96	F	RunNo: 10	01310				
Prep Date:	11/20/2023	Analysis D	ate: 11	/20/2023	SeqNo: 3726446 Units: mg/Kg						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range C	Organics (DRO)	43	9.7	48.64	0	88.8	54.2	135	11.0	29.2	
Surr: DNOP		43		4 864		88.3	69	147	0	Λ	

87.6

147

69

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix

Motor Oil Range Organics (MRO)

Surr: DNOP

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

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## Hall Environmental Analysis Laboratory, Inc.

Analysis Date: 11/20/2023

PQL

27

Result

12000

120

SPK value SPK Ref Val

135.0

5400

WO#: **2311A02 29-Nov-23** 

Client: ENSOLUM
Project: Huerfano 188

Sample ID: 2.5ug gro lcs	SampTyp	e: LCS	Tes	stCode: El	PA Method	8015D: Gaso	line Range		
Client ID: LCSS	Batch II	D: <b>R101307</b>	ſ	RunNo: 10	01307				
Prep Date:	Analysis Date	e: <b>11/20/2023</b>	;	SeqNo: 3	726120	Units: mg/k	(g		
Analyte	Result I	PQL SPK value	e SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0 25.00	0	94.6	70	130			
Surr: BFB	2200	1000	)	222	15	244			
Sample ID: mb	SampTyp	e: MBLK	Tes	stCode: El	PA Method	8015D: Gaso	line Range		
Client ID: PBS	Batch II	D: <b>R101307</b>	ſ	RunNo: 101307					
Prep Date:	Analysis Date	e: <b>11/20/2023</b>	;	SeqNo: 3726121			(g		
Analyte	Result I	PQL SPK value	e SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0							
Surr: BFB	1000	1000	)	104	15	244			
Sample ID: 2311a02-002ams	SampTyp	e: MS	Tes	stCode: El	PA Method	8015D: Gaso	line Range		
Client ID: S-2	Batch II	D: <b>R101307</b>	ŀ	RunNo: 10	01307				
Prep Date:	Analysis Date	e: <b>11/20/2023</b>	;	SeqNo: 3	726716	Units: mg/k	(g		
Analyte	Result I	PQL SPK value	e SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	130	27 135.0	0	93.6	70	130			
Surr: BFB	12000	5400	)	220	15	244			
Sample ID: <b>2311a02-002amsd</b>	SampTyp	pe: MSD	Tes	stCode: El	PA Method	8015D: Gaso	line Range	·	<u> </u>
Client ID: S-2	Ratch II	D: <b>R101307</b>		RunNo: 10	04207				

#### Qualifiers:

Prep Date:

Surr: BFB

Gasoline Range Organics (GRO)

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank

SeqNo: 3726717

LowLimit

70

15

%REC

91.3

220

Units: mg/Kg

130

244

%RPD

2.51

0

**RPDLimit** 

20

0

Qual

HighLimit

- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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## Hall Environmental Analysis Laboratory, Inc.

WO#: **2311A02** 

29-Nov-23

Client: ENSOLUM
Project: Huerfano 188

Sample ID: 100ng btex lcs	SampType: <b>LCS</b>			Tes	tCode: EF	iles				
Client ID: LCSS	Batc	h ID: BS	101307	F	RunNo: 10	01307				
Prep Date:	Analysis [	Date: <b>11</b>	/20/2023	5	SeqNo: 37	726148	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	94.9	70	130			
Toluene	0.97	0.050	1.000	0	97.3	70	130			
Ethylbenzene	0.98	0.050	1.000	0	98.2	70	130			
Xylenes, Total	3.0	0.10	3.000	0	98.4	70	130			
Surr: 4-Bromofluorobenzene	1.0		1.000		102	39.1	146			

Sample ID: mb	Samp1	уре: МЕ	BLK	Tes	tCode: EF	PA Method	d 8021B: Volatiles						
Client ID: PBS	Batch	n ID: BS	101307	F	RunNo: 10								
Prep Date:	Analysis D	Date: 11	/20/2023	5	SeqNo: 37	726149	Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Benzene	ND	0.025											
Toluene	ND	0.050											
Ethylbenzene	ND	0.050											
Xylenes, Total	ND	0.10											
Surr: 4-Bromofluorobenzene	0.98		1.000		97.6	39.1	146						

Sample ID: 2311a02-001ams	Samp	Гуре: <b>МЅ</b>	;	Tes	tCode: Ef	PA Method	8021B: Volati	les		
Client ID: S-1	Batcl	h ID: BS	101307	F						
Prep Date:	Analysis [	Date: 11	/20/2023	5	SeqNo: 37	726848	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.5	0.037	1.484	0	99.1	70	130			
Toluene	1.5	0.074	1.484	0	98.4	70	130			
Ethylbenzene	1.5	0.074	1.484	0	99.3	70	130			
Xylenes, Total	4.4	0.15	4.451	0	99.8	70	130			
Surr: 4-Bromofluorobenzene	1.4		1.484		95.5	39.1	146			

Sample ID: 2311a02-001amsd	SampT	ype: MS	D	Tes	tCode: <b>EF</b>	PA Method	8021B: Volati	les		
Client ID: S-1	Batch	n ID: BS	101307	F	RunNo: 10	01307				
Prep Date:	Analysis D	)ate: 11	/20/2023	5	SeqNo: 37	726850	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.5	0.037	1.484	0	98.8	70	130	0.263	20	
Toluene	1.5	0.074	1.484	0	99.7	70	130	1.31	20	
Ethylbenzene	1.5	0.074	1.484	0	99.5	70	130	0.247	20	
Xylenes, Total	4.4	0.15	4.451	0	99.1	70	130	0.717	20	
Surr: 4-Bromofluorobenzene	1.4		1.484		95.6	39.1	146	0	0	

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
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- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Environment Testin

Eurofins Environment Testing South Central. LLC

4901 Hawkins NE Albuquerque, NM 87109

# Sample Log-In Check List

Released to Imaging: 3/22/2024 7:15:57 AM

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Client Name:	ENSOLUM	Work Order Number	r: 231	1A02		RcptNo: 1					
Received By:	Tracy Casarrubias	11/18/2023 7:00:00 A	М								
Completed By:	Tracy Casarrubias	11/18/2023 8:31:16 A	М								
Reviewed By:	m 11/20/23										
Chain of Custo	od <u>y</u>										
1. Is Chain of Cus	stody complete?		Yes		No 🗹	Not Present					
2. How was the sa	ample delivered?		Cou	rier							
<u>Log In</u> 3. Was an attemp	ot made to cool the samples?		Yes	V	No 🗌	na 🗆					
4. Were all sample	es received at a temperature o	f >0° C to 6.0°C	Yes	<b>V</b>	No 🗌	NA 🗆					
5. Sample(s) in pr	roper container(s)?		Yes	V	No 🗌						
6. Sufficient samp	le volume for indicated test(s)	?	Yes	<b>V</b>	No 🗌						
	xcept VOA and ONG) properly		Yes		No 🗌						
	ve added to bottles?		Yes		No 🗹	NA 🗆					
9. Received at lea	st 1 vial with headspace <1/4"	for AQ VOA?	Yes		No 🗌	NA 🗹					
10. Were any samp	ple containers received broken	?	Yes		No 🔽	# of preserved					
	k match bottle labels?		Yes	<b>✓</b>	No 🗌	bottles checked for pH: (<2,of >12	unless noted)				
	orrectly identified on Chain of C	ustody?	Yes	<b>V</b>	No 🗌	Adjusted?					
13. Is it clear what a	analyses were requested?		Yes	<b>✓</b>	No 🗌						
	g times able to be met?		Yes	<b>V</b>	No 🗌	Checked by: TMC	11/18/13				
(If no, notify cus	stomer for authorization.)				/	/					
Special Handlir	ng (if applicable)										
15. Was client noti	fied of all discrepancies with the	nis order?	Yes		No 🗌	NA 🗹					
Person N	lotified:	Date:		F D.,							
By Whon	n:	Via:	eM	ail 🗌 Pi	hone 🗌 Fax	In Person					
Regardin	g:	****	*			And a second and a supplied of the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second					
Client Ins	structions: Phone number and	d Email/Fax are missing	on Co	OC-TMC	11/18/23	***************************************					
16. Additional rem	narks:										
17. Cooler Inform	nation										
Cooler No	Temp °C Condition Se	al Intact Seal No	Seal D	ate	Signed By						
1	1.8 Good Yes	Morty									

C	hain-	of-Cu	stody Record	tody Record Turn-Around Time: //26%			HALL ENVIRONMENTAL														
Client:	En	50)120	n, LLC,	│ │ □ Standard	⊠ Rush_	11-20-23											OR				10
Project				Project Name			www.hallenvironmental.com														
Mailing Address: 606 S A; O Grande			S Dio Grande	Huerfano 188  Project #:				4901 Hawkins NE - Albuquerque, NM 87109													
5,0	it F	8	7410	Project #:		All Property	Tel. 505-345-3975 Fax 505-345-4107														
Phone #									Analysis Request												
email o	r Fax#:			Project Mana	ager:		21)	8	"				86			sent)					
QA/QC I	Package:			1	<i>C</i>		TMB's (8021)	/ DRO / MRO)	PCB's		8270SIMS		8			\AB					
☐ Stan	dard	<u> </u>	☐ Level 4 (Full Validation)		Summer		E S	읽			2			- 1		sent					
Accredi			mpliance	Sampler: On Ice:	Q D'Ato		*	7/0	8081 Pesticides/8082	504.1)	or 82	- 1	₩ <b>0</b> 2,		<u>a</u>	Total Coliform (Present/Absent)				Č!	
□ NEL	AC (Type)_	□ Other		# of Coolers:		□ No morty	MEBE	GR.	ides	2d 5		stals	9		2	Ē					
	(1 ypc)_				O(including CF): ( . 2	)-Ø=1.8 (°C)		TPH:8015D(GRO	estic	EDB (Method	PAHs by 8310	RCRA 8 Metals	CI, FF BF, 1803,	8260 (VOA)	8270 (Semi-VOA)	olifo					
				Cantainer	Preservative	HEAL No.	BTEX/	8	7 P	<u>S</u>	왕	₹	4	8	0	alc					
Date	Time	Matrix	Sample Name	Container Type and #	Type	2311A02	BTI	르	8		PA	8	(5)	826	82	횬		_	$\bot$	<u> </u>	Ш
1/12	900	5	5-1	1402 501	Cont	001	V	/									$\dashv$			-	$\sqcup$
	905	ڑ	5-2		Cool	002	1	V			_		/	1		-				-	1-1
4/17	910	5	5-3		Cool	003						_	V						4-	-	$\vdash$
1/17	915	ل	5-4		100	004	/	1				1114	V				_	_	+	-	+
11/17	920	کے	S-5		Cool	005	V	/		_			/					_	+	┿	+
11/17	925	3	5-6		Cou	006	1	1		_	_	III S	V				-		-	┼	-
14,7	930	5	S-7		10	007	/	/		_		_	1			_		-	-	+	-
11/17	935	2	S- 8		(oc)	000	1	/				-0.1	/	bark	100			_	_	-	-
1/17	940	5	5-9		Coul	009	1	1					1						_	+	-
11/17	945	5	5-10		Coul	010	1	/					1/		_	-	_	_		-	-
					A. A.		_									_			_	+	+
								<u></u>					J 254	17		1					
Date: Time: Relinquished by:  7/03 10 12  Date: Time: Refinquished by:		Received by:	Via:	Date Time 11/17/23 1042	1	nark	s: 7	Om	lo	ng					SA	, Le	. ,				
		Received by: Via:Corr Date Time													/	Do	8				
11/1/1/	1800	1/3	Mallow within			111016								11							

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 325143

#### **QUESTIONS**

Operator:	OGRID:							
Enterprise Field Services, LLC	241602							
PO Box 4324	Action Number:							
Houston, TX 77210	325143							
	Action Type:							
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)							

#### QUESTIONS

Prerequisites							
Incident ID (n#)	nAPP2331745754						
Incident Name	NAPP2331745754 HUERFANO #188 @ 0						
Incident Type	Natural Gas Release						
Incident Status	Remediation Closure Report Received						

Location of Release Source							
Please answer all the questions in this group.							
Site Name	HUERFANO #188						
Date Release Discovered	11/13/2023						
Surface Owner	Navajo						

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	Not answered.							
Condensate Released (bbls) Details	Cause: Corrosion   Pipeline (Any)   Condensate   Released: 5 BBL   Recovered: 0 BBL   Lost: 5 BBL.							
Natural Gas Vented (Mcf) Details	Not answered.							
Natural Gas Flared (Mcf) Details	Not answered.							
Other Released Details	Not answered.							
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.							

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1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

<u>District IV</u> 1220 S. St Francis Dr., Santa Fe, NM 87505

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

QUESTIONS, Page 2

Action 325143

Phone:(505) 476-3470 Fax:(505) 476-3462							
QUEST	TONS (continued)						
Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID:  241602 Action Number: 325143 Action Type:  [C-141] Remediation Closure Request C-141 (C-141-v-Closure)						
QUESTIONS							
Nature and Volume of Release (continued)							
Is this a gas only submission (i.e. only significant Mcf values reported)	More info needed to determine if this will be treated as a "gas only" report.						
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No						
Reasons why this would be considered a submission for a notification of a major release	Unavailable.						
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.	e. gas only) are to be submitted on the C-129 form.						
Initial Response The responsible party must undertake the following actions immediately unless they could create a	safety hazard that would result in injury.						
The source of the release has been stopped	True						
The impacted area has been secured to protect human health and the environment	True						
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True						
All free liquids and recoverable materials have been removed and managed appropriately	True						
If all the actions described above have not been undertaken, explain why	Not answered.						
	nation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative o eted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of evaluation in the follow-up C-141 submission.						
to report and/or file certain release notifications and perform corrective actions for rele the OCD does not relieve the operator of liability should their operations have failed to	knowledge and understand that pursuant to OCD rules and regulations all operators are required tasses which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface rt does not relieve the operator of responsibility for compliance with any other federal, state, or						
I hereby agree and sign off to the above statement	Name: Thomas Long Title: Sr Field Environmental Scientist						

Email: tjlong@eprod.com Date: 03/20/2024

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1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS, Page 3

Action 325143

**QUESTIONS** (continued)

Operator:	OGRID:
Enterprise Field Services, LLC	241602
PO Box 4324	Action Number:
Houston, TX 77210	325143
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 26 and 50 (ft.)
What method was used to determine the depth to ground water	OCD Imaging Records Lookup
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 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 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan		
Please answer all the questions to	hat apply or are indicated. This information must be provided to	o the appropriate district office no later than 90 days after the release discovery date.
Requesting a remediation	plan approval with this submission	Yes
Attach a comprehensive report de	monstrating the lateral and vertical extents of soil contamination	on associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.
Have the lateral and vertical	al extents of contamination been fully delineated	Yes
Was this release entirely c	ontained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)		nilligrams per kilograms.)
Chloride	(EPA 300.0 or SM4500 CI B)	60
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	49
GRO+DRO	(EPA SW-846 Method 8015M)	46
BTEX	(EPA SW-846 Method 8021B or 8260B)	0.6
Benzene	(EPA SW-846 Method 8021B or 8260B)	0.1
	NMAC unless the site characterization report includes complete nelines for beginning and completing the remediation.	ed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,
On what estimated date wi	III the remediation commence	11/13/2023
On what date will (or did) to	he final sampling or liner inspection occur	11/17/2023
On what date will (or was)	the remediation complete(d)	11/17/2023
What is the estimated surfa	ace area (in square feet) that will be reclaimed	313
What is the estimated volu	me (in cubic yards) that will be reclaimed	366
What is the estimated surfa	ace area (in square feet) that will be remediated	313
What is the estimated volu	me (in cubic yards) that will be remediated	366
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.		

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

District I

Phone: (575) 393-6161 Fax: (575) 393-0720

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811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 **District III** 

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

QUESTIONS, Page 4

Action 325143

**QUESTIONS** (continued)

Operator:	OGRID:
Enterprise Field Services, LLC	241602
PO Box 4324	Action Number:
Houston, TX 77210	325143
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate	/ reduce contaminants:
(Select all answers below that apply.)	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	ENVIROTECH LANDFARM #2 [fEEM0112336756]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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

I hereby agree and sign off to the above statement

Name: Thomas Long

Title: Sr Field Environmental Scientist Email: tjlong@eprod.com

Date: 03/20/2024

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS, Page 5

Action 325143

**QUESTIONS** (continued)

Operator:	OGRID:
Enterprise Field Services, LLC	241602
PO Box 4324	Action Number:
Houston, TX 77210	325143
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### QUESTIONS

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

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1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 **District II** 

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1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS, Page 6

Action 325143

#### **QUESTIONS** (continued)

Operator:	OGRID:
Enterprise Field Services, LLC	241602
PO Box 4324	Action Number:
Houston, TX 77210	325143
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	300839
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/17/2023
What was the (estimated) number of samples that were to be gathered	10
What was the sampling surface area in square feet	200

Remediation Closure Request		
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.		
Requesting a remediation closure approval with this submission	Yes	
Have the lateral and vertical extents of contamination been fully delineated	Yes	
Was this release entirely contained within a lined containment area	No	
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes	
What was the total surface area (in square feet) remediated	313	
What was the total volume (cubic yards) remediated	366	
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	313	
What was the total volume (in cubic yards) reclaimed	366	
Summarize any additional remediation activities not included by answers (above)	None	

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

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

Name: Thomas Long
Title: Sr Field Environmental Scientist
Email: tjlong@eprod.com
Date: 03/20/2024

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

QUESTIONS, Page 7

Action 325143

**QUESTIONS** (continued)

Operator:	OGRID:
Enterprise Field Services, LLC	241602
PO Box 4324	Action Number:
Houston, TX 77210	325143
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### QUESTIONS

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

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

CONDITIONS

Action 325143

#### **CONDITIONS**

Operator:	OGRID:
Enterprise Field Services, LLC	241602
Houston, TX 77210	Action Number: 325143
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### CONDITIONS

Created By		Condition Date
nvelez	None	3/22/2024