District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Enterprise Field Services, LLC	OGRID: 241602
Contact Name: Thomas Long	Contact Telephone: 505-599-2286
Contact email:tjlong@eprod.com	Incident # (assigned by OCD) nAPP2223126700
Contact mailing address: 614 Reilly Ave, Farmington, NM 87401	

Location of Release Source

Latitude 36.865604

Longitude -107.993802

(NAD 83 in decimal degrees to 5 decimal places)

)

Site Name Federal 31-11-28 #3	Site Type Natural Gas Gathering Pipeline
Date Release Discovered: 08/18/2022	Serial Number (<i>if applicable</i>): N/A

Unit Letter	Section	Township	Range	County
0	28	31N	11W	San Juan

Surface Owner: State Federal Tribal Private (Name: BLM

Nature and Volume of Release

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

Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls): Estimated 5-10 BBLs	Volume Recovered (bbls): None
Natural Gas	Volume Released (Mcf): 0.861 MCF	Volume Recovered (Mcf): None
Other (describe)	Volume/Weight Released (provide units):	Volume/Weight Recovered (provide units)

Cause of Release: On August 15, 2022, Enterprise had a release of natural gas from the Federal 31-11-28 #3. The pipeline was isolated, depressurized, locked and tagged out. No liquids were released to the ground surface. No emergency services responded. No fire nor injuries occurred. Remediation and repairs began on August 18, 2022, at which time the release was determined reportable per New Mexico Oil Conservation Division regulation due to the volume of impacted subsurface soil. Remediation and repairs were completed on August 30, 2022. The final excavation dimensions measured approximately 20 feet long by 11 feet wide by seven (7) feet deep. A total of 96 cubic yards of hydrocarbon impacted soil was excavated and transported to a New Mexico Oil Conservation Division (NMOCD) approved land farm. A third party closure report is included with this "Final" C-141.

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

<u>Closure Report Attachment Checklist</u>: Each of the following	g items must be included in the closure report.
A scaled site and sampling diagram as described in 19.15.2	9.11 NMAC
Photographs of the remediated site prior to backfill or phot must be notified 2 days prior to liner inspection)	os of the liner integrity if applicable (Note: appropriate OCD District office
Laboratory analyses of final sampling (Note: appropriate O	DC District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file cert may endanger public health or the environment. The acceptance should their operations have failed to adequately investigate and human health or the environment. In addition, OCD acceptance compliance with any other federal, state, or local laws and/or reg	plete to the best of my knowledge and understand that pursuant to OCD rules tain release notifications and perform corrective actions for releases which of a C-141 report by the OCD does not relieve the operator of liability remediate contamination that pose a threat to groundwater, surface water, of a C-141 report does not relieve the operator of responsibility for ulations. The responsible party acknowledges they must substantially conditions that existed prior to the release or their final land use in e OCD when reclamation and re-vegetation are complete.
Printed Name: Thomas Long	Title: Senior Environmental Scientist
Signature:	Date: <u>11-29-2022</u>
email: <u>tjlong@eprod.com</u>	Telephone <u>: (505) 599-2286</u>
OCD Only	
Received by:	Date:
	ty of liability should their operations have failed to adequately investigate and be water, human health, or the environment nor does not relieve the responsible ad/or regulations.
Closure Approved by: Nelson Velez	Date: <u>12/09/2022</u>
Closure Approved by: <u>Nelson Velez</u> Printed Name: <u>Nelson Velez</u>	Title: Environmental Specialist – Adv



CLOSURE REPORT

Property:

Federal 31-11-28 #3 (8/18/22) Unit Letter O, S28 T31N R11W San Juan County, New Mexico

New Mexico EMNRD OCD Incident ID No. NAPP2223126700

October 19, 2022

Ensolum Project No. 05A1226204

Prepared for:

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

Prepared by:

Landon Daniell Staff Geologist

umm

Kyle Summers Senior Managing Geologist

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants

606 South Rio Grande, Suite A | Aztec, NM 87410 | ensolum.com

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	Figure 2: Site Vicinity Map
	Figure 3: Site Map with Soil Analytical Results

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- Appendix D Photographic Documentation
- Appendix E Regulatory Correspondence
- Appendix F Table 1 Soil Analytical Summary
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1.1 Site Description & Background

Operator:	Enterprise Field Services, LLC / Enterprise Products Operating LLC (Enterprise)					
Site Name:	Federal 31-11-28 #3 (08/18/22) (Site)					
NM EMNRD OCD Incident ID No.	NAPP2223126700					
Location:	36.865604° North, 107.993802° West Unit Letter O, Section 28, Township 31 North, Range 11 West San Juan County, New Mexico					
Property:	United States Bureau of Land Management (BLM)					
Regulatory:	New Mexico (NM) Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)					

On August 15, 2022, Enterprise was notified by a third party of a possible release on the Federal 31-11-28 #3 well tie pipeline. Enterprise personnel confirmed a leak and subsequently isolated and locked the pipeline out of service. On August 18, 2022, Enterprise initiated activities to repair the pipeline and remediate potential petroleum hydrocarbon impact. Additionally, Enterprise determined the release was "reportable" due to the estimated 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 New Mexico EMNRD OCD. Ensolum, LLC (Ensolum) referenced New Mexico Administrative Code (NMAC) 19.15.29 *Releases*, which establishes investigation and abatement action requirements for oil and gas release sites that are subject to reporting and/or corrective action, during the evaluation and remediation of the Site. The appropriate closure criteria for sites are determined using the siting requirements outlined in Paragraph (4) of Subsection C of 19.15.29.12 NMAC. Ensolum utilized the general site characteristics and information available from NM state agency databases and federal agency geospatial databases to determine the appropriate closure criteria for the Site. Supporting figures and documentation associated with the following Siting bullets are provided in **Appendix B**.

The NM Office of the State Engineer (OSE) tracks the usage and assignment of water rights and water well installations and records this information in the Water Rights Reporting System (WRRS) database. Water wells and other points of diversion (PODs) are each assigned POD numbers in the database (which is searchable and includes an interactive map). No PODs with recorded depth to water (DTW) were identified within the same Public Land Survey System (PLSS) section as the Site. Numerous PODs were identified in the adjacent PLSS sections, which are associated with the proximity of the Animas River valley (Figure A, Appendix B). The closest PODs (SJ-02277, SJ-03505, and SJ-03316) with recorded DTWs are located approximately 0.79 miles, 0.91 miles, and 0.94 miles from the Site and have



Page 2

recorded DTWs of 7 feet, 14 feet, and 10 feet, respectively. The PODs SJ-02277, SJ-03505, and SJ-03316 are approximately 145 feet, 162 feet, and 178 feet, respectively, lower in elevation than the Site.

- No cathodic protection wells (CPWs) were identified in the NM EMNRD OCD imaging database within the same PLSS section as the site. Six CPWs were identified in the adjacent sections Figure B (Appendix B). The record for the cathodic protection well located near the Turner A #1A and Flood #1 well locations indicates a depth to water of approximately 60 feet bgs. This cathodic protection well is approximately 0.74 miles southeast of the Site and is approximately 143 feet lower in elevation than the Site. The record for the cathodic protection well located near the Calloway #1 A well location indicates a depth to water of approximately 75 feet bgs. This cathodic protection well is approximately 1.1 miles east of the Site and is approximately 189 feet lower in elevation than the Site. The record for the cathodic protection well located near the Calloway LS 2 well location indicates a depth to water of approximately 380 feet bgs. This cathodic protection well is approximately 1.3 miles southwest of the Site and is approximately 212 feet lower in elevation than the Site. The records for the cathodic protection well located near the Heaton #7A well location indicates a depth to water of approximately 65 feet bgs. This cathodic protection well is approximately 1.5 miles northwest of the Site and is approximately 70 feet higher in elevation than the Site. The records for the cathodic protection well located near the Granier #6, #13, and #103 well locations indicate a depth to water of approximately 20 feet bgs. This cathodic protection well is approximately 1.7 miles northwest of the Site and is approximately 177 feet higher in elevation than the Site. The records for the cathodic protection well located near the Calloway #1A well location indicates a depth to water of approximately 100 feet bgs. This cathodic protection well is approximately 1.7 miles northeast of the Site and is approximately 29 feet lower in elevation than the Site.
- The Site is located within 300 feet of a NM EMNRD OCD-defined continuously flowing watercourse or significant watercourse (**Figure C**, **Appendix B**).
- The Site is 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 fresh water 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 fresh water wells or springs were identified within 1,000 feet of the Site (Figure E, Appendix B).
- The Site is not located within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to New Mexico Statutes Annotated (NMSA) 1978, Section 3-27-3.
- Based on information identified in the U.S. Fish & Wildlife Service National Wetlands Inventory Wetlands Mapper, the Site is not within 300 feet of a wetland (**Figure F**, **Appendix B**).
- Based on information identified in the NM Mining and Minerals Division's Geographic Information System (GIS) Maps and Mine Data database, the Site is not within an area overlying a subsurface mine (**Figure G**, **Appendix B**).



- The Site is not located within an unstable area per Paragraph (6) of Subsection U of 19.15.2.7 NMAC.
- Based on information provided by the Federal Emergency Management Agency (FEMA) National Flood Hazard Layer (NFHL) geospatial database, the Site is not within a 100-year floodplain (**Figure H**, **Appendix B**).

Based on available information, the applicable closure criteria for soils remaining in place at the Site include:

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

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

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

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

3.0 SOIL REMEDIATION ACTIVITIES

On August 18, 2022, Enterprise initiated activities to repair the pipeline and remediate petroleum hydrocarbon impact resulting from the release. During the remediation and corrective action activities, West States Energy Contractors (WSEC), provided heavy equipment and labor support, while Ensolum provided environmental consulting support.

The final excavation measured approximately 20 feet long and 11 feet wide at the maximum extents. The maximum depth of the excavation measured approximately seven feet bgs. The lithology encountered during the completion of remediation activities consisted primarily of unconsolidated silty sandy clay.

Approximately 96 cubic yards (yd^3) of petroleum hydrocarbon-affected soils and 50 barrels (bbls) of hydro-excavation soil cuttings and water were transported to the Envirotech, Inc., (Envirotech) landfarm near Hilltop, NM for disposal/remediation. The executed C-138 solid waste acceptance form is provided in **Appendix C**. The excavation was backfilled with imported fill and then contoured to the surrounding topography.

Figure 3 is a map that identifies approximate soil sample locations and depicts the approximate dimensions of the excavation with respect to the pipeline (**Appendix A**). Photographic documentation of the field activities is included in **Appendix D**.

4.0 SOIL SAMPLING PROGRAM

Ensolum field screened the soil samples from the excavation utilizing a calibrated Dexsil PetroFLAG[®] hydrocarbon analyzer system and a photoionization detector (PID) fitted with a 10.6 eV lamp to guide excavation extents.

Ensolum's soil sampling program included the collection of five composite soil samples (S-1 through S-5) from the excavation for laboratory analysis. The composite samples were comprised of five aliquots each and represent an estimated 200 square foot (ft²) sample area (or less) per

E N S O L U M

guidelines outlined in Section D of 19.15.29.12 NMAC. Hand tools were utilized to obtain fresh aliquots from each area of the excavation. Regulatory correspondence is provided in **Appendix E**.

First Sampling Event

On August 18, 2022, sampling was performed at the Site. The NM EMNRD OCD and BLM were notified of the sampling event although no representatives were present during sampling activities. Composite soil sample S-1 (7') was collected from the floor of the excavation Composite soil samples S-2 (0'-7'), S-4 (0'-7'), and S-5 (0'-7') were collected from the sloped walls of the excavation. Composite soil sample S-3 (0'-7') was collected from the north eastern end-wall of the excavation.

All soil samples were collected and placed in laboratory-prepared glassware. The containers were labeled and sealed using the laboratory-supplied labels and custody seals and were stored on ice in a cooler. The samples were relinquished to the courier for Hall Environmental Analysis Laboratory of Albuquerque, NM, under proper chain-of-custody procedures.

5.0 SOIL LABORATORY ANALYTICAL METHODS

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

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

6.0 SOIL DATA EVALUATION

Ensolum compared the BTEX, TPH, and chloride laboratory analytical results or laboratory practical quantitation limits (PQLs) / reporting limits (RLs) associated with the composite soil samples (S-1 through S-5) to the Tier I NM EMNRD OCD closure criteria. The laboratory analytical results are summarized in **Table 1** (Appendix F).

- The laboratory analytical result for composite soil sample S-4 indicates a benzene concentration of 0.042 mg/kg, which is less than the NM EMNRD OCD closure criteria of 10 mg/kg. The laboratory analytical results for all 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 the composite soil samples S-2 through S-5 indicate total BTEX concentrations ranging from 0.065 mg/kg (S-3) to 0.53 mg/kg (S-4), which are less than the NM EMNRD OCD closure criteria of 50 mg/kg. The laboratory analytical results for composite soil sample S-1 indicate total BTEX is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the NM EMNRD OCD closure criteria of 50 mg/kg.
- The laboratory analytical results for all composite soil samples indicate combined TPH GRO/DRO/MRO is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the New Mexico EMNRD OCD closure criteria of 100 mg/kg.
- The laboratory analytical results for composite soil samples S-1 and S-3 indicate chloride concentrations of 64 mg/kg and 84 mg/kg, respectively, which are less than the New Mexico

ENSOLUM

EMNRD OCD closure criteria of 600 mg/kg. The laboratory analytical results for all other composite soil samples indicate chloride is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the New Mexico EMNRD OCD closure criteria of 600 mg/kg.

7.0 RECLAMATION AND REVEGETATION

The excavation was backfilled with imported fill and then contoured to the surrounding topography. Enterprise will re-seed the Site with an approved seeding mixture.

8.0 FINDINGS AND RECOMMENDATION

- Five composite soil samples were collected from the Site. Based on laboratory analytical results, benzene, total BTEX, combined TPH GRO/DRO/MRO, and chloride concentrations are below the New Mexico EMNRD OCD closure criteria.
- Approximately 96 yd³ of petroleum hydrocarbon-affected soils and 50 bbls of hydroexcavation soil cuttings and water were transported to the Envirotech landfarm for disposal/remediation. The excavation was backfilled with imported fill and then contoured to the surrounding topography.

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



Enterprise Field Services, LLC Federal 31-11-28 #3 (08/18/22)

prohibited without the express written authorization of Enterprise and Ensolum. Any unauthorized distribution or reuse is at the client's sole risk. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions, and limitations stated in the Closure Report and Ensolum's Master Services Agreement. The limitation of liability defined in the agreement is the aggregate limit of Ensolum's liability to the client.

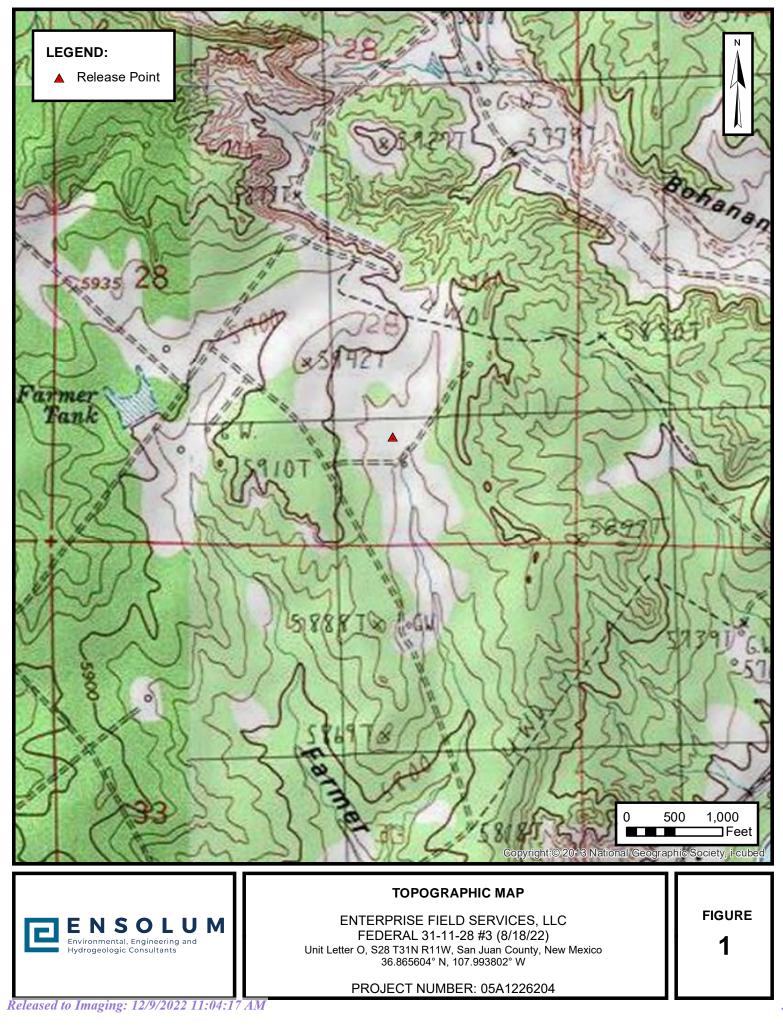


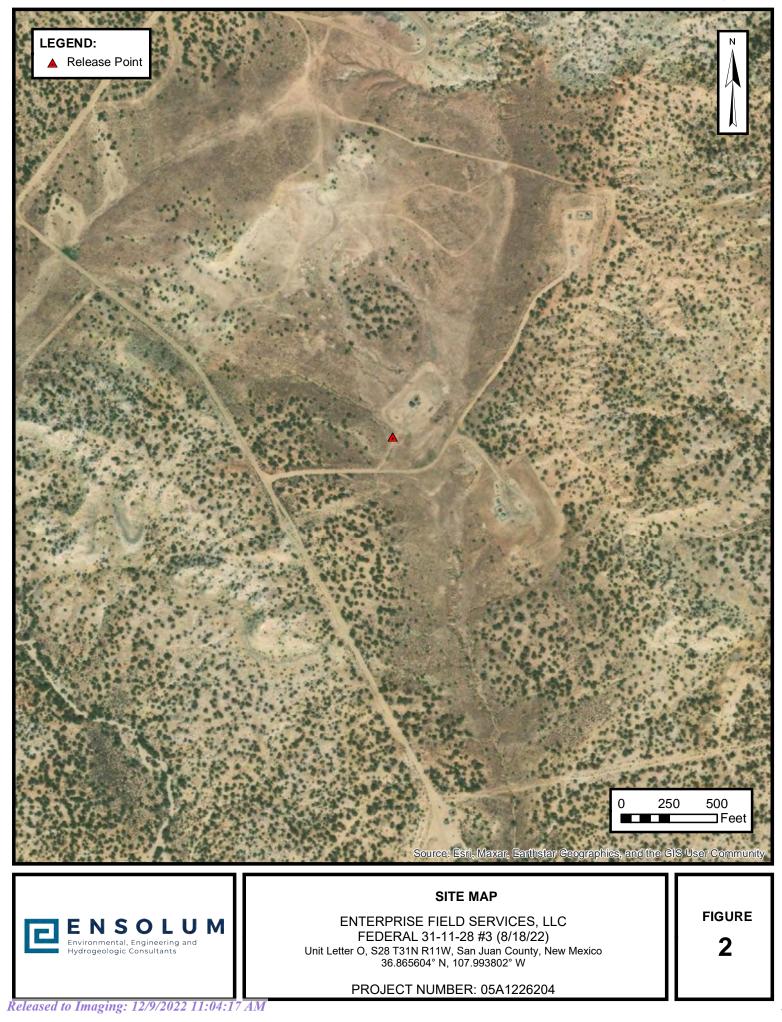


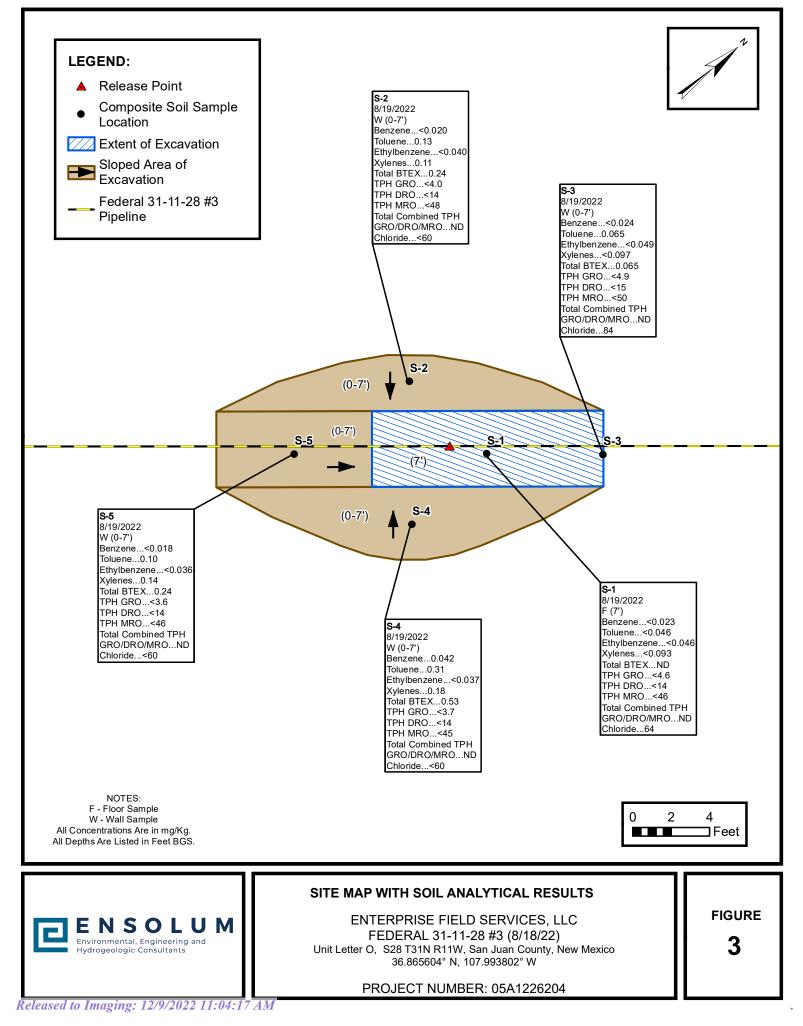
APPENDIX A

Figures

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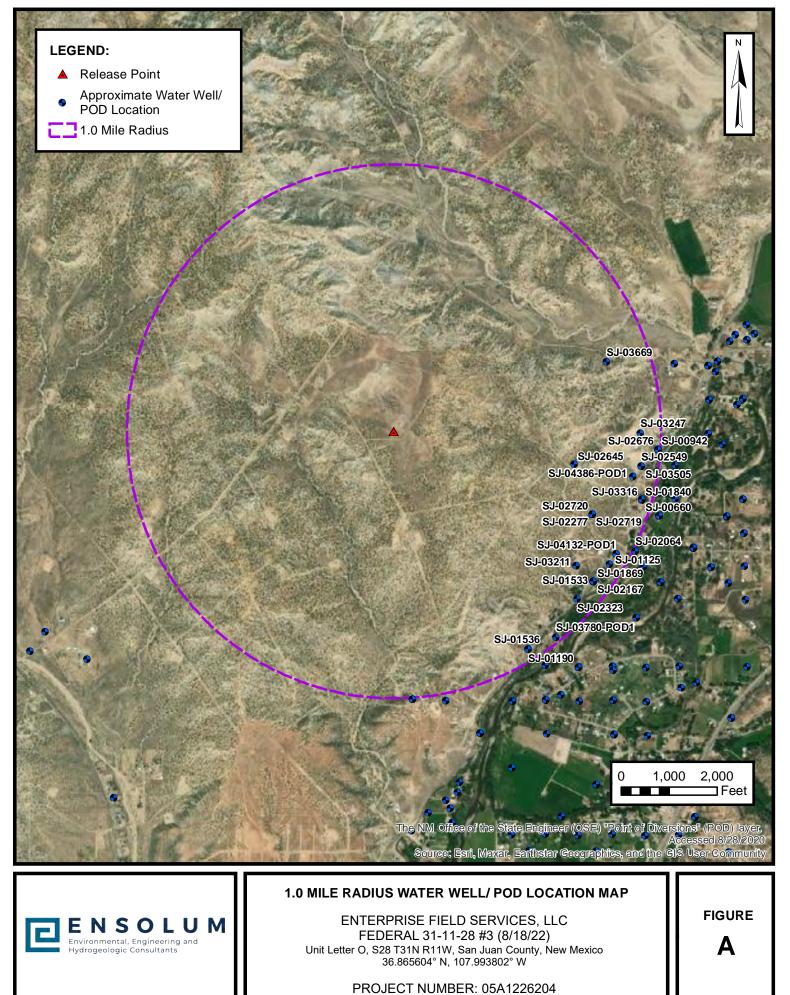






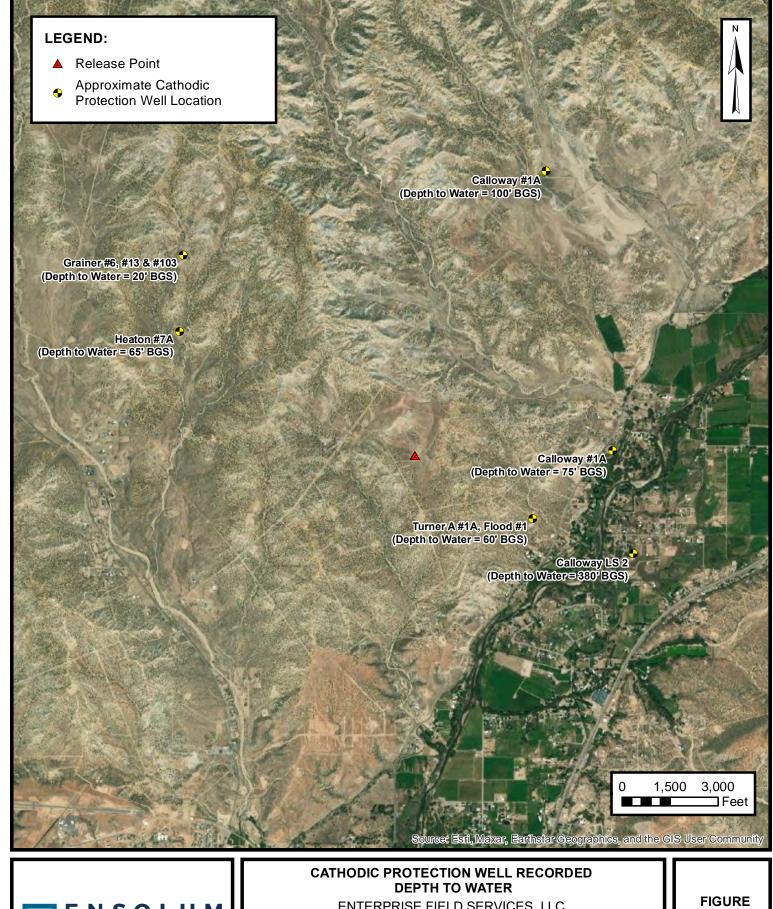
APPENDIX B

Siting Figures and Documentation



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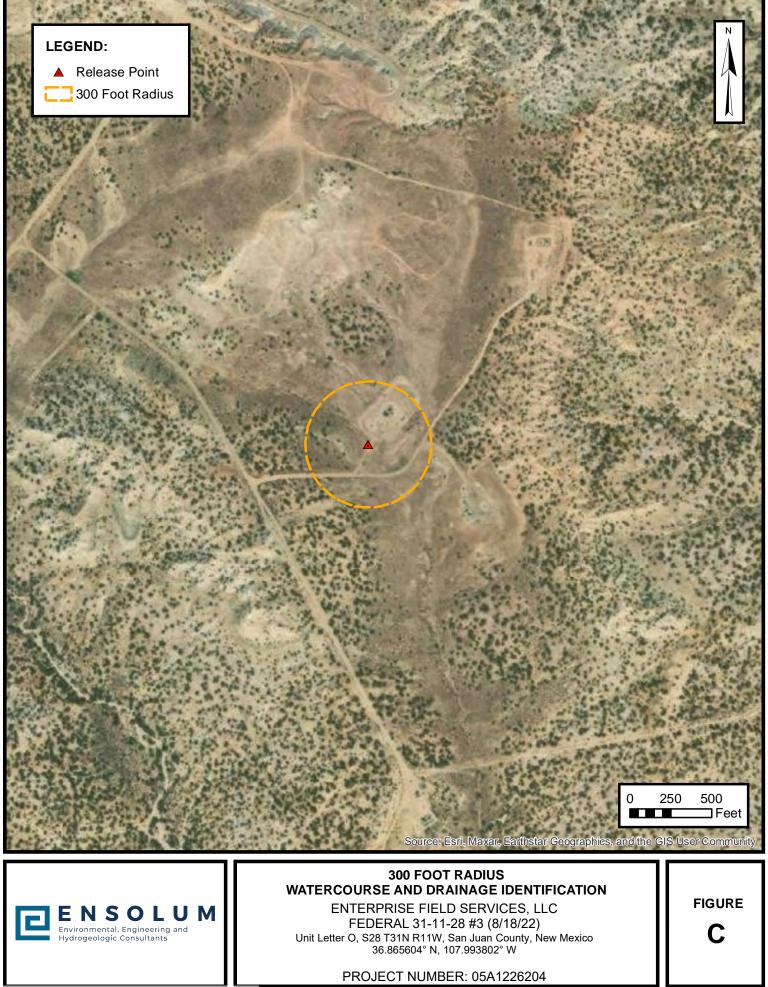
Page 17 of 72

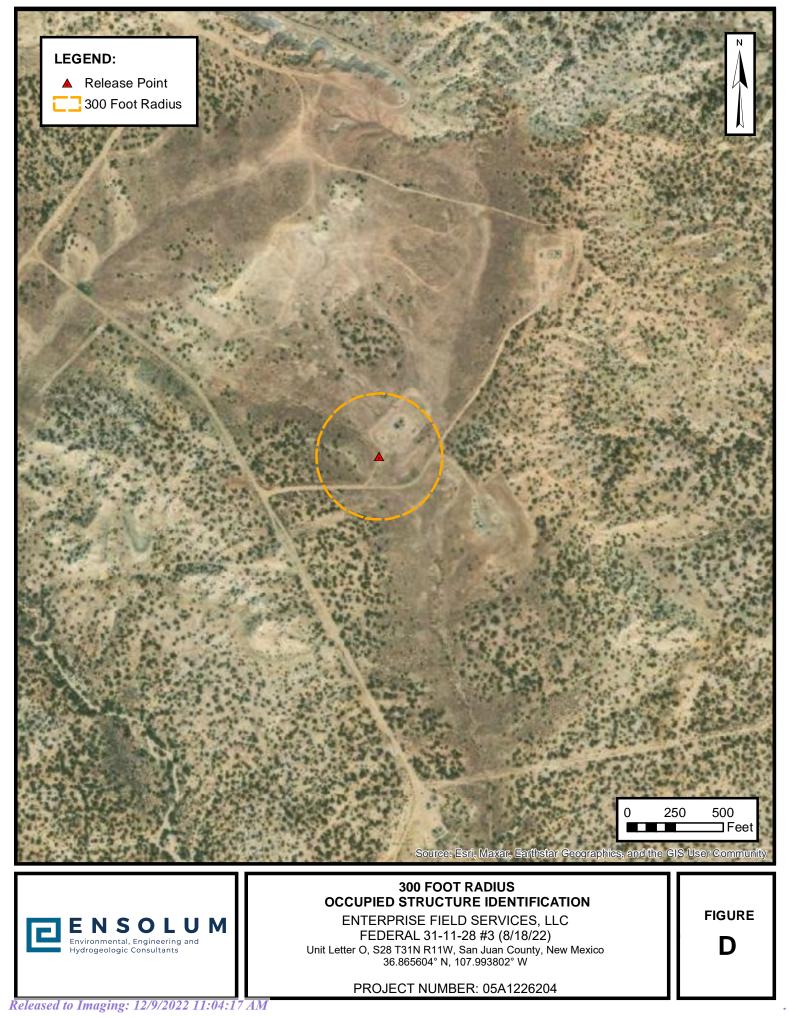


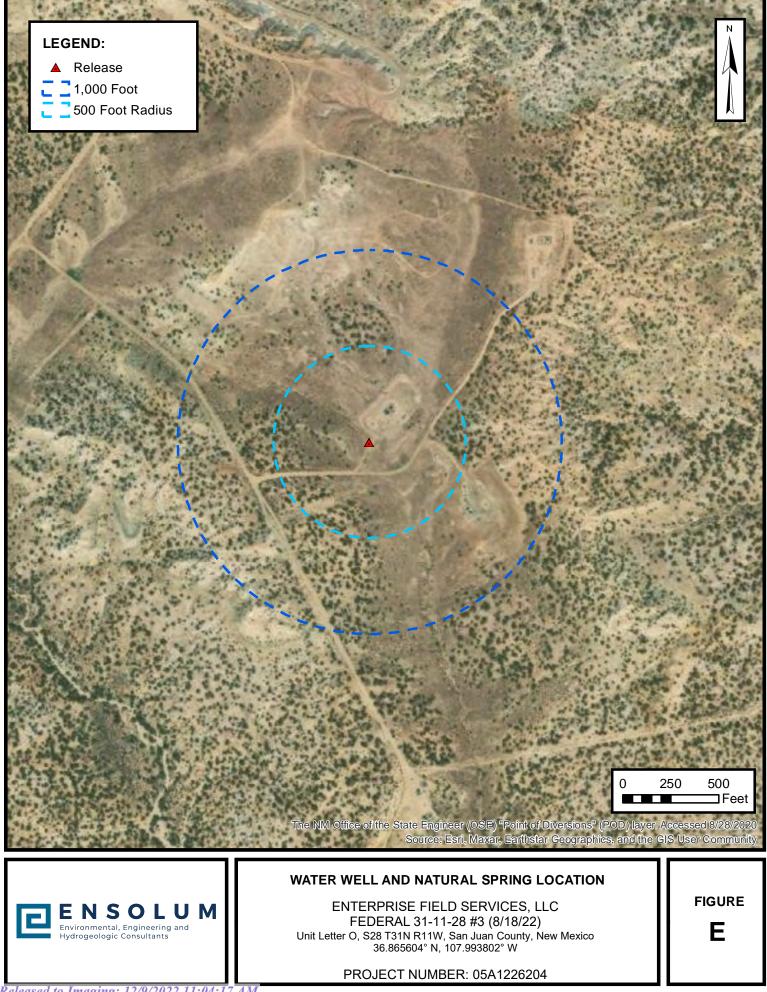
ENSOLU M Environmental, Engineering and Hydrogeologic Consultants ENTERPRISE FIELD SERVICES, LLC FEDERAL 31-11-28 #3 (8/18/22) Unit Letter O, S28 T31N R11W, San Juan County, New Mexico 36.865604° N, 107.993802° W

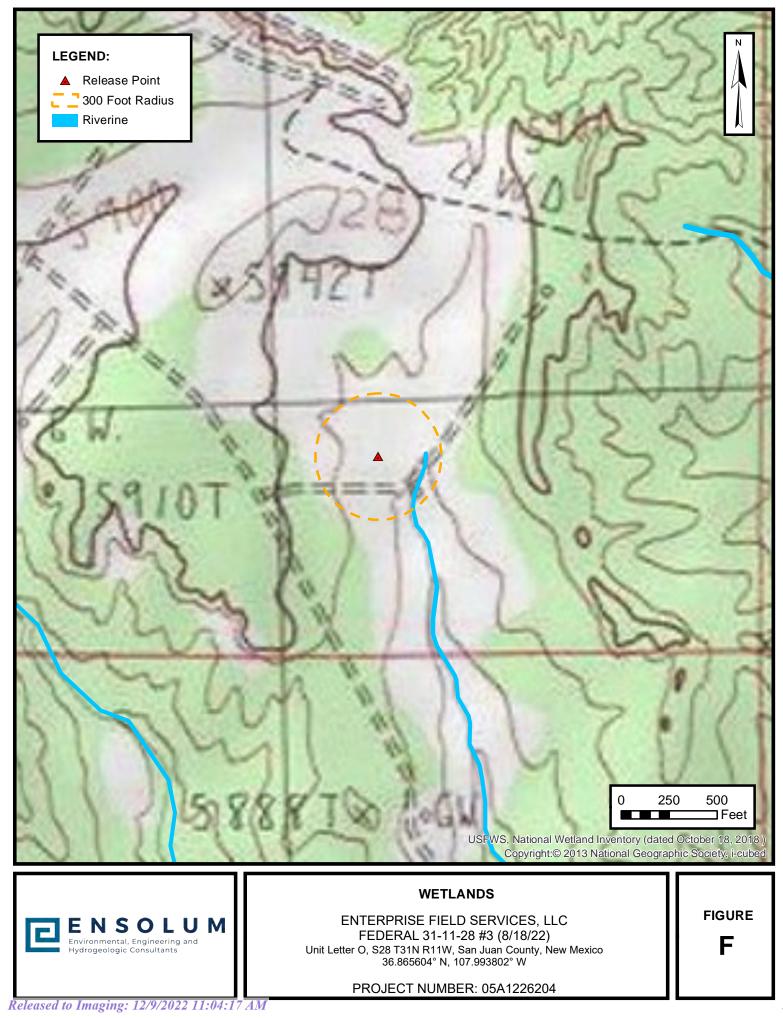
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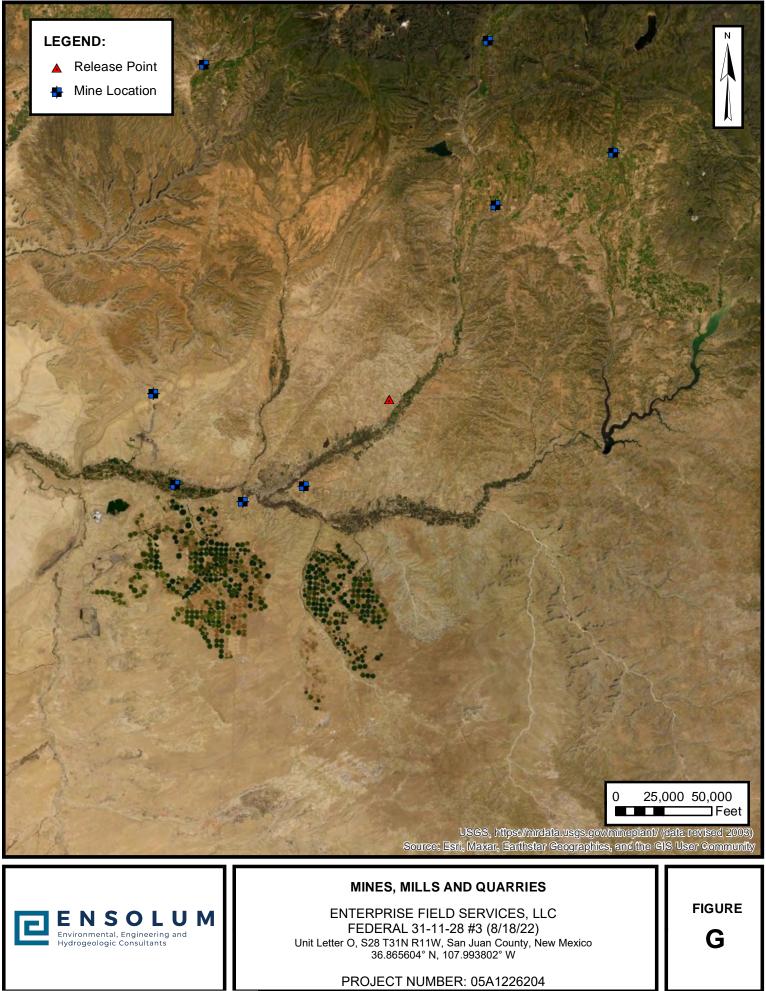


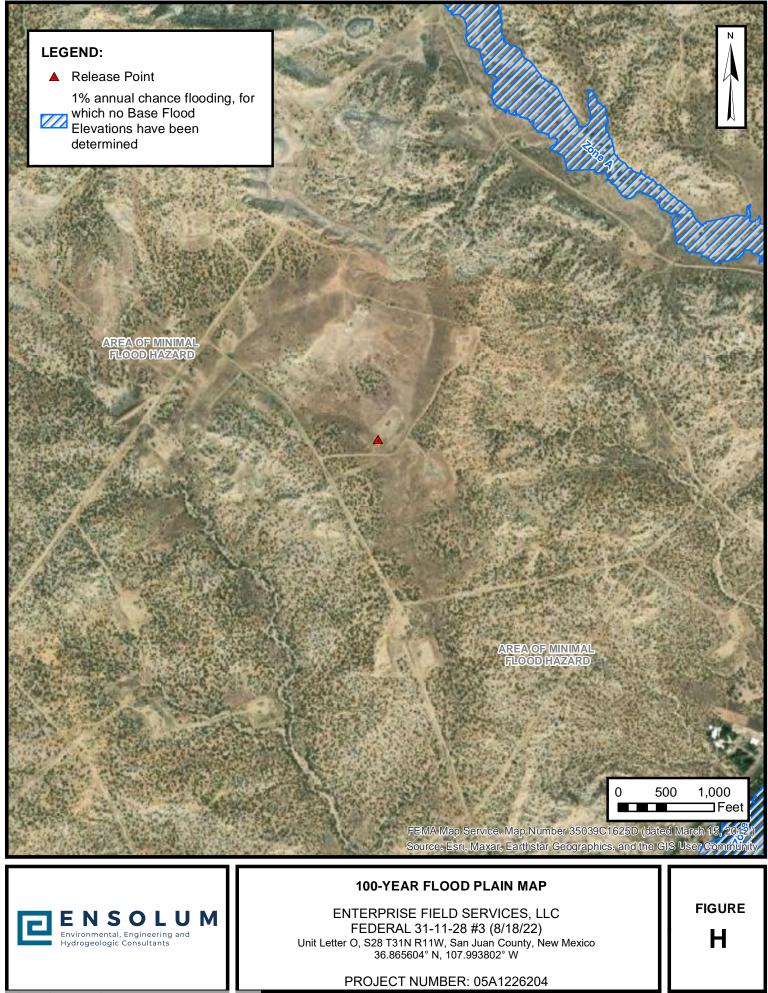






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New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced	(R=POD has been replaced O=orphaned,												
& no longer serves a water right file.)	C=the file is closed)							IE 3=SW largest)	-	BUTM in meters)		(In feet	t)
POD Number	POD Sub- Code basin C	County		Q 16			: Tws	Rng	x	Y	-	-	Water Column
SJ 00631	SJAR	SJ					31N	-	234857	4083377* 🌍	30	11	19
SJ 00632	SJAR	SJ			2	34	31N	11W	234857	4083377* 🌍	25	7	18
SJ 00656	SJAR	SJ			2	34	31N	11W	234857	4083377* 🌍	30	8	22
SJ 00659	SJAR	SJ		3	2	34	31N	11W	234656	4083176* 🌍	33	11	22
SJ 00660	SJAR	SJ	1	1	2	34	31N	11W	234558	4083671* 🌍	50	30	20
SJ 00661	SJAR	SJ	1	3	2	34	31N	11W	234555	4083275* 🌍	52	32	20
SJ 00985	SJAR	SJ		4	4	34	31N	11W	235049	4082356* 🌍	40	16	24
SJ 01125	SJAR	SJ	2	4	1	34	31N	11W	234355	4083292* 🌍	59	42	17
SJ 01137	SJAR	SJ	4	4	4	33	31N	11W	233553	4082312* 🌍	37	19	18
SJ 01251	SJAR	SJ		4	1	34	31N	11W	234256	4083193* 🌍	79	65	14
SJ 01267	SJAR	SJ		1	2	34	31N	11W	234659	4083572 🌍	65	45	20
SJ 01533	SJAR	SJ		4	1	34	31N	11W	234256	4083193* 🌍	58	40	18
SJ 01608	SJAR	SJ			4	34	31N	11W	234849	4082569* 🌍	48	17	31
SJ 01618	SJAR	SJ		1	2	34	31N	11W	234659	4083572* 😜	28	8	20
SJ 01656	SJAR	SJ			2	34	31N	11W	234857	4083377* 🌍	20	6	14
SJ 01657	SJAR	SJ			2	34	31N	11W	234857	4083377* 🌍	20	6	14
SJ 01675	SJAR	SJ			2	34	31N	11W	234857	4083377* 🌍	33	7	26
SJ 01721	SJAR	SJ		2	2	34	31N	11W	235062	4083556* 🌍	22	10	12
SJ 01768	SJAR	SJ		2	2	34	31N	11W	235062	4083556* 🌍	20	6	14
SJ 01840	SJAR	SJ	1	1	2	34	31N	11W	234558	4083671* 🌍	65	25	40
SJ 02113	SJAR	SJ		3	2	34	31N	11W	234656	4083176* 🌍	12	4	8
SJ 02119	SJAR	SJ		3	2	34	31N	11W	234656	4083176* 🌍	11	3	8
SJ 02167	SJAR	SJ		4	1	34	31N	11W	234256	4083193* 🌍	83	69	14
SJ 02215	SJAR	SJ		3	4	27	31N	11W	234663	4083969* 🌍	54	23	31
SJ 02277	SJAR	SJ		2	1	34	31N	11W	234260	4083594* 😜	16	7	9
SJ 02468	SJAR	SJ	3	2	4	27	31N	11W	234978	4084254* 🌍	49	30	19
l location was derived from PI	LSS - see Help												

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

(R=POD has been replaced, O=orphaned, (quarters are 1=NW 2=NE 3=SW 4=SE) C=the file is closed)

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

water right file.)	closed)	(quai	ICI.	за	ie :	Sillai		nargest)		s o rivi in meters)		(in ieei	.)
	POD Sub-		Q	Q	Q						Depth	Depth	Water
POD Number	Code basin	County					Tws	Rng	Х	Y	-	-	Column
SJ 02482	SJAR	SJ	2	1	4	27	31N	11W	234775	4084473* 🤤	75	55	20
SJ 02549	SJAR	SJ	3	3	4	27	31N	11W	234562	4083868* 🌍	49	30	19
SJ 02656	SJAR	SJ	4	2	4	27	31N	11W	235178	4084254* 🌍	21	9	12
SJ 02676	SJAR	SJ		3	4	27	31N	11W	234663	4083969* 🌍	19	7	12
SJ 02852	SJAR	SJ	3	2	3	34	31N	11W	234152	4082687* 🌍	23	7	16
SJ 02853	SJAR	SJ	4	3	4	27	31N	11W	234762	4083868* 🌍	22	6	16
SJ 02856	SJAR	SJ	3	2	3	34	31N	11W	234152	4082687* 🌍	24	6	18
SJ 02857	SJAR	SJ	1	4	3	34	31N	11W	234149	4082482* 🌍	23	6	17
SJ 02859	SJAR	SJ	4	1	3	34	31N	11W	233954	4082703* 🌍	22	6	16
SJ 02861	SJAR	SJ	1	3	3	34	31N	11W	233751	4082497* 🌍	21	7	14
SJ 02871	SJAR	SJ	4	2	4	27	31N	11W	235178	4084254* 😜	22	11	11
<u>SJ 02914</u>	SJAR	SJ	3	2	4	27	31N	11W	234978	4084254* 🌍	25	15	10
SJ 02966	SJAR	SJ	3	3	4	34	31N	11W	234547	4082267* 🌍	48	20	28
SJ 02967	SJAR	SJ	3	2	3	34	31N	11W	234152	4082687* 🌍	20	5	15
SJ 02972	SJAR	SJ	4	3	2	34	31N	11W	234755	4083075* 🌍	15	5	10
SJ 02984	SJAR	SJ	1	4	4	27	31N	11W	234966	4084052* 🌍	20		
SJ 02993	SJAR	SJ	2	3	4	33	31N	11W	233155	4082527* 🌍	280	160	120
SJ 02994	SJAR	SJ	2	3	4	33	31N	11W	233155	4082527* 🌍	300	200	100
SJ 03002	SJAR	SJ	4	2	3	34	31N	11W	234352	4082687* 🌍	22		
<u>SJ 03014</u>	SJAR	SJ	4	2	3	34	31N	11W	234352	4082687* 🌍	30	5	25
<u>SJ 03016</u>	SJAR	SJ	1	3	4	34	31N	11W	234547	4082467* 🌍	35		
SJ 03025	SJAR	SJ	3	2	3	34	31N	11W	234152	4082687* 🌍	22	5	17
<u>SJ 03042</u>	SJAR	SJ	2	3	3	34	31N	11W	233951	4082497* 🌍	23	6	17
SJ 03047	SJAR	SJ	4	2	2	34	31N	11W	235161	4083455* 🌍	19	6	13
<u>SJ 03048</u>	SJAR	SJ	4	3	3	34	31N	11W	233951	4082297* 🌍	21	4	17
<u>SJ 03065</u>	SJAR	SJ	3	2	3	34	31N	11W	234152	4082687* 🌍	22	7	15
SJ 03106	SJAR	SJ	1	4	2	34	31N	11W	234957	4083258* 🌍	25		
SJ 03107	SJAR	SJ	1	4	2	34	31N	11W	234957	4083258* 😜	18	8	10
SJ 03172	SJAR	SJ	2	2	2	34	31N	11W	235161	4083655* 🌍	19	7	12

*UTM location was derived from PLSS - see Help

8/19/22 9:01 AM

Received by OCD: 11/29/2022 7:20:21 AM

(A CLW##### in the
POD suffix indicates the
POD has been replaced
& no longer serves a

(R=POD has been replaced, O=orphaned, Page 26 of 72

POD suffix indicates the POD has been replaced & no longer serves a water right file.)	O=orphaned, C=the file is closed)	(quar						IE 3=SW largest)		3 UTM in meters)		(In feet)
POD Number	POD Sub- Code basin (County			Q 5 4		Tws	Rng	x	Y			Water Column
SJ 03181	SJAR	SJ	1	4	4	27	31N	11W	234966	4084052* 🌍	19	10	9
SJ 03183	SJAR	SJ	4	4	2	34	31N	11W	235157	4083058* 🌍	19	6	13
SJ 03211	SJAR	SJ	1	4	1	34	31N	11W	234155	4083292* 🌍	24	14	10
SJ 03220	SJAR	SJ	1	3	3	34	31N	11W	233751	4082497* 🌍	20	6	14
SJ 03247	SJAR	SJ	1	3	4	27	31N	11W	234562	4084068* 🌍	70		
SJ 03260	SJAR	SJ	4	4	3	34	31N	11W	234349	4082282* 🌍	41	3	38
SJ 03316	SJAR	SJ	1	1	2	34	31N	11W	234558	4083671* 🌍	30	10	20
SJ 03357	SJAR	SJ	2	4	3	34	31N	11W	234349	4082482* 🌍	22	6	16
SJ 03377	SJAR	SJ	4	2	4	34	31N	11W	235152	4082656* 🌍	20	2	18
SJ 03402	SJAR	SJ	4	1	4	34	31N	11W	234751	4082671* 🌍	25		
SJ 03448	SJAR	SJ		1	2	34	31N	11W	234659	4083572* 🌍	41	21	20
SJ 03492	SJAR	SJ	2	4	3	34	31N	11W	234349	4082482* 🌍	30		
SJ 03493	SJAR	SJ	2	4	3	34	31N	11W	234349	4082482* 🌍	25	15	10
SJ 03497	SJAR	SJ	4	1	4	34	31N	11W	234751	4082671* 🌍	30	10	20
SJ 03505	SJAR	SJ	3	3	4	27	31N	11W	234562	4083868* 🌍	50	14	36
SJ 03540	SJAR	SJ	1	2	4	27	31N	11W	234978	4084454* 🌍	40	21	19
SJ 03600	SJAR	SJ	1	2	4	27	31N	11W	234978	4084454* 🌍	51	39	12
SJ 03609	SJAR	SJ	4	4	3	34	31N	11W	234349	4082282* 🌍	27	6	21
SJ 03631	SJAR	SJ	2	4	3	34	31N	11W	234349	4082482* 🌍	27	6	21
SJ 03710 POD1	SJAR	SJ	2	3	3	34	31N	11W	233951	4082497* 🌍	20	4	16
SJ 03720 POD1	SJAR	SJ	3	1	4	34	31N	11W	234551	4082671* 🌍	21	6	15
SJ 03739 POD1	SJAR	SJ	1	3	4	34	31N	11W	234547	4082467* 🌍	25	3	22
SJ 03772 POD1	SJAR	SJ	1	2	4	27	31N	11W	235035	4084480 🌍	41	30	11
SJ 03780 POD1	SJAR	SJ	2	1	3	34	31N	11W	234021	4082870 🌍	28	12	16
SJ 03834 POD1	SJAR	SJ	2	3	4	34	31N	11W	234758	4082544 🌍	28	4	24
SJ 03885 POD3	SJAR	SJ	2	3	1	33	31N	11W	237547	4087396 🌍	25	17	8
SJ 03937	SJAR	SJ	4	1	3	32	31N	11W	230722	4082828 🌍	67	52	15
SJ 03994 POD1	SJAR	SJ	4	4	2	27	31N	11W	235213	4084695 🌍	27	14	13
SJ 04052 POD1	SJAR	SJ	4	4	2	27	31N	11W	235213	4084602 🌍	28	14	14

*UTM location was derived from PLSS - see Help

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(A CLW##### in the POD suffix indicates the POD has been replaced	7:20:21 AM (R=POD has been replaced O=orphaned,												Page 27 d
& no longer serves a water right file.)	C=the file is closed)	· ·						NE 3=SW () largest		3 UTM in meters)		(In feet)
	POD Sub-			Q	-	0	T	Deser	v	Y	-	-	Water
POD Number SJ 04139 POD1	Code basin C SJAR	SJ					31N	-	X 234356	Y 4082663 🌍	vve ii 19	water 6	Column 13
SJ 04141 POD1	SJAR	SJ	2	3	3	34	31N	11W	234040	4082526 🌍	28	12	16
SJ 04170 POD1	SJAR	SJ	4	4	2	27	31N	11W	235259	4084636 🌍	35	15	20
SJ 04252 POD4	SJ	SJ		2	2	20	31N	11W	235248	4089951 🌍	35		
SJ 04305 POD1	SJAR	SJ	1	4	4	27	31N	11W	235050	4083983 🌍	40	30	10
SJ 04378 POD1	SJAR	SJ	4	2	3	32	31N	11W	231227	4082825 🌍	120		
SJ 04401 POD1	SJAR	SJ		4	2	27	31N	11W	235144	4084637 🌍	55		
SJ 04402 POD1	SJAR	SJ		4	2	27	31N	11W	235112	4084599 🌍	55		
										Average Depth to	Water:	19 f	eet
										Minimum	Depth:	2 f	eet
										Maximum	Depth:	200 f	eet
Record Count: 92													
PLSS Search:													
Section(s): 28, 20,	21, 22, Town	nship:	311	N		Rai	1 ge: 1	1W					

27, 29, 32, 33, 34

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.

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of 72

Received by OCD: 11/29/2022 7:20:21 AM 30-04 5= 10494

13- 30-045- 10483

103-30-045-27283

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

Operator MERIDIAN OIL CO. Location: Unit SW Sec. 20 Twp31 Rng 11 Name of Well/Wells or Pipeline Serviced Granier # 6 & # 13 & # 103

Elevation _____Completion Date 7/17/90 Total Depth 300 ft. Land Type _____

Casing Strings, Sizes, Types & Depths <u>Set 60 ft. 8" PVC CEMENTED WITH</u>

FIVE SACKS

If Casing Strings are cemented, show amounts & types used FIVE SACKS OF PORTLAND CEMENT

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. <u>110 to 120 ft.</u>, no sample also water sand at 45-50 ft.

wash water 0 to 20 ft.

Depths gas encountered:

Ground bed depth with type & amount of coke breeze used:_____

290 logged and 3000 lbs of Ashbury Petroleum Coke used.

Depths anodes placed: 265, 255, 245, 235, 225, 215, 205, 195, 185, 175

Depths vent pipes placed: 290 ft. 1" vent pipe

Vent pipe perforations: 190 ft. perforated

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.

WELL CASING CATHODIC PROTECTION CONSTRUCTION REPORT DAILY LOG

#2

Drilling Log (Attach Hereto)

Compl

N

•	
etion Date 7-17-9	0

CPS ·		me, Line or Plant:			Work Ord	er #		Static:		Ins. Union Check	•
	GRA	VIER # 6									Bad
4065-W	GRAN	110R # 13			·						
the second s				·····							
Location:		Anode Size		node Type			Size Bi	" 63''			
SW20-31		2"*60		ANDTO				6/4			
Depih Drilled		Logged 290'	Drilling	Rıg Time	Tota	3000 th		Lost Circulatio	on Mat'l Used	No Sacks Mud	Used
Anode Depth	•	1	1		_	1			· T · · · · · · · · · · · · · · · · · ·	1	1
# 1 265 # 2 Anode Output (Amp	255	# 3 245	# 4 2	35 # 5	225	#6 215	# 7	205	#8 195	#9185	# 10 175
Anode Output (Amp	s)		1 .				1	()			1
#1 6.6 #2	4.9	# 3 5.5	# 4 6	.5 ¦#5	7.0	#6 6.5	# 7	6.3	1= 8 1.3	1#9 7.4	# 10 7.8
Anode Depth		1	1	1		1	1		1		1
#11 #1	2	# 13	# 14	# 15		# 16	# 1	7	# 18	# 19	# 20
Anode Output (Amp	S)	i.	:	1		t i	1		1		1
# 11 # 1		# 13	# 14	# 15	j	# 16	# 1		# 18	# 19	¦# 20
Total Circuit Resi			1	بر		No. 8 C.P. Co	ble U	sed		No. 2 C.P. C	able Used
Volts 12.0	e ¦Ar	nps 23.6	Oh	ims .55	5						·
Water To am INSide Pipe	n and	15 gal. of	Cen	ENT ON	00	rside of	<u>P, P</u>	e to	seal c	off water	. DRILLER
Said HIT W									·		
FNSIdled	210	041 101	<u>, , ,</u>	re,	150101	od ware	<u>.</u>	ZONes	by Co	asing and	
Left con			PROX	. 130	dou	in hole	· .	Perto	Ratod	190' 04 1"	VENT P.P.
Rectifier Size: Addn'l Depth			A —						All Cons	truction Comple	ed
Depth Credit: Extra Cable: Ditch & 1 Cable:_	10'	271					_	Ni	illis g	(Signalyre) "	Jr
25 'Meter Pole:_ 20 ' Meter Pole:_ 10 ' Stub Pole:				GROU	ND BED	LAYOUT SKE					
Junction Box	:	1	_	Jer/	GRON	VR TINZ					

103

I Rect

& GRANIER Th

ECE VE AUG2 8 1990 OIL CON. DIV.] GRANIER DI3

& Gd. Bed

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EEP / 5 10 15 20 25 30		ANODE									1				
EEP / 5 10 15 20 25 30												IA.	IODE_RE	ADINGS_	
5 10 15 20 25 30				LOG ANODE	ANODE NO.	DEEP	LOG ANODI	ANODE No.	DEEP	LOG ANODE	ANODE No.		DEPTH	NO	WITH COKE
10 15 20 25 30			185	/	9	365			545			1	265		6.6
20 25 30			190	2.1		370			550			2	255	2.2	4.9
25 30			195	1.8	8	375			555			3	245	2.6	5.5
30			200	1.9		380			560		·	4	235	3.8	6.5
			205	1.8	7	385			565				552		7.0
~~ I			210	1.7		390			570			6	215	3.2	6.5
35			215	1.9	4	395		ļ	575		ļ	7	205	2.2	
40			220	2.1		400			580			8	195	2.4 2.5	1.3
45			225		5	405			585		<u> </u>	9	185	2.5	7.4 7.8
50			230	1.8		410	1		590		ļ	10	175	2.7	1.8
55				2.0	4	415			595		 	 			- '
60				2.0	3	420	1	 	600						
65			245.		<u></u>	425			605						
70		_		2.0	2	430			610		<u> </u>				
75				2.1 2.4	~	435	1		615						
80			260	2.8	1	440	1		620	:					-
85			1265	4.1		445	1		625	·	1				
<u>90 </u>						<u>450</u> 455	1		630						-{
95 00 /	1.2		275 280	120		452	1		635 640	•		1		<u>├</u> ───-	
	10		200	3.9		465	1		645			1	1		
10			200	3.8	T.D	470		1	650			1			
15			295			475			655		1	1	1		-
20	_		300			480			660						
25 /	,60		305			485			665						
30			310			490			670			Τ			
	1.3		315			495			675						
40 2			320			500			680						
	1.9		325			505	j		685				_	ļ	
<u> </u>	1.7		330	 	 	510	4	<u> </u>	690	 		1		ļ	
55			335		 	515		 	695		<u> </u>	<u> </u>	 	ļ	
60			340			520	1		700		<u> </u>				
65			345		 	525	1		705						
170	1.7		350	 	 	530	1		710						
75	2.(10	355	┨───	┨	535			715					<u> </u>	
180	<u>.</u>	l	360	<u> </u>	<u> </u>	540	<u>×</u>	1	720		<u> -</u>			<u> </u>	_
EMARK	KS:														
	- u											_			M2

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BURGE CORROSION SYSTEMS, INC.

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

NY <u>ME</u>		4. 1 C	Y DRILLING REPORT	TOWNSHIP:	RANGE:
NIED 1	13 103				
<u>vias</u>	0, 13, 103 WATERAT:	FEET:	HOLE MADE:		
-25 40	WATER AT: 	-120	300'		
		DESCRIPTION OF	. —		
FROM	то		FORMATION IS		COLOR
0	20	Savd	- wash so	nd wal	er
20	45'	Bentoni	te, bard	, shale	=
45'	50'	Water	Sard		
50'	110'	shale -	- Dard-	water	
110'	120'	water	oard.	A	
120'	210'	shale - 1	Ped, Hul	- bentom	te
210'	2:30'	Benton	te.		-
2301	270'	shale -	- Blue		
270'	3.75'	Bentont	2_3		
	300'	Mula	<u> </u>		
<u></u>				······	
			<u> </u>		
			A		
				·	
			· · · · · · · · · · · · · · · · · · ·		
	-	-			
REMARKS:	Set 20	1 8'1 cen	rented 2	orth 2 sa	eles - los
le di	e to non	sh sand -a	rates run	ning. W	Urued and
+ 10'	8" PVI Cas	ing with	5 sach	2 cense	A.

ived by OCD: 1	1/29/2022 7:20:21 AM			Page 32
. . .			3618	· · ·
×				30-045-22.436
	DATA SHEET FOR DEE	P GROUND BED RTHWESTERN N		ECTION WELLS
Operator_	Movidian Dil C	Loc	ation: Unit <u>C</u>	Sec. 22 Twp 31 Rng //
N ame of W	lell/Wells or Pipeli	.ne Serviced_		
CAllo	L'AU # /A	``````````````````````````````````````	<u>`</u>	
Elevation	Completion Dat	:e <u>4-28-93</u> Tc	tal Depth <u>392</u>	Land Type
	rings, Sizes, Type:			• •
	•• ¹	,	•	d During CASING
·	g Strings are cemen			
,	5 SACKS		unca a cypea	
		······································		
		s have been p	laced, show d	epths & amounts used
	ρ/γ]		, 	···
Depths &	thickness of water	zones with a	lescription of	water: Fresh, Clear
Salty, S	ulphur, Etc. <u>/00[']</u>	fresh		
`				
Depths g	as encountered:	JONR		·
	ed depth with type		coke breeze us	ed: 392
			· · · · · · · · · · · · · · · · · · ·	
Depths a	nodes placed: 275 35	3(10 33(2 3(2) 2)	90 775 765 755 7	3) 191 165 115 126 195
	nodes placed: <u>375,350</u> ent pipes placed:	_ ·		
			f	DECEIVEM
	e perforations: <u>B</u>	140m 250		U U
Remarks:				JAN 31 1994
				OIL CON. DIV.
				dist. 3

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.

	/29/2022 7:					<i>c</i>	.				Page 33 of
						250		30-0	4S-	268E	35
										<u>.</u> · · · ·	
					. /						
	DAI	A SHEET (ORTHWI	ESTERN	NEW ME	XICO		• :	WELLS	
Opera	itor	MERIDIAN	OIL INC.		I	ocatio	n: Un	it	Sec. 2	⁷ Twp ³	¹ Rng
Name	of Well	/Wells	or Pipe	line S	Service	d	ALLOWAY	€ #1A			
		<u></u>		····				<u></u>	;		ps 209
Eleva	tion_56	<u>4</u> Compl	etion D	ate <u>2</u>	/14/89	Total	Depth	340'	Lan	d Type	* <u>N/A</u>
Casi	ng, Size	s, Type	s & Dep	ths_7	2' OF 8"	STEEL	CASING				
(RAN	133' OF	7" CASIN	<u>g when Pi</u>	UG GED	AND ABAN	DONED)					
If Ca	sing is	cement	ed, sho	w amou	unts &	types	used_	<u>N/A</u>	 		
		Benton "B" 2% C		-		-			- ,		nts us
		.ckness									possib
Fresl	, Clear	, Salty	, Sulph	ur, Et	c. <u>75</u>	NO S	AMPLE				
Depti	ls gas e	ncounte	red:	N	[/A						
Туре	& amour	t of co	ke bree	ze use	ed:	N/A					an a th
Deptl	is anode	s place	d: <u>320'</u> ,	313',	306', 2	99', 292	2*, 285	1, 278	3', 271	', 264'	, 250'
		pipes p			340 '				DEC	;E!	· ·
Vent	pipe pe	rforati	ons:	2	2801	•		Į	MAY	91 106	
			LUGGED A		DONED M	w 1000		16		SE 199	1

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

DIST. 3

*Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee. If Federal or Indian, add Lease Number. Received by OCD: 11/29/2022 7:20:21 AM

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		· · · ·							:	÷ .	and and a second second	
Plug a	nd Aban	don 20	95W	Call	oway #	1A	0 27	-31-11			1990	,
Apri]	23	S	pent	t most	of Mo	nday bl	owing d	own 1" v	or on ri ent pipe ccessful	• u~		
April	24	G	pent rour its	nd sof	of da t from	y riggi Fall th	ng up. Ne rain,	Buildin rigged	g rig pa up, dug	d	- - 55-5 -	an Sangara Sangara Sangara Sangara
April	25	f	ille	ling b ed all ing.	elow 1 reser	00'sta ve pits	arting m 5, shut	aking lo down abo	ots of wa out 1:00	P.M.,		·
Apri]	26	1 4	or a cGra	20' of ath #4	hole.	Dawn ged fi	Truckin lter sys	g haulir tem) had	00 bbls. ng water 1 to go 1 ting on 1	to == :0 ==		
Apri]	27	1	ixe	d mud	and tr	ried to	circula	te (not	successi	ful).		
April	28			ing 7" joints		ng slee	ve in 8	5/8" ca:	sing. We	iding		
April	29		hut	down.								
April	30	1	ini	shed r	running	ј7" са	sing, ra	in 133' (of 7" ca	sing.		
May 1		1	ril	ling 6	5 3/4"	hole b	elow 7"	casing,	drilled	to 32	201.	
May 2		20° mit	2% C	alciun	West chloi W.O.C.	ride, w	cement. /- 1/4"	Cemen sx cell	ted w/43 o-seal p	sxs c lug do	lass wn,-	"B"
May 3	. ·		1.0.	C.				 				
May 4			133	well , - 12 jed dow	2¦ plu	, tagge g in bo	d cement ttom of	t @ 221' 7" - pu	, bottom lled dri	of ca 11 pip	ising)e-	

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FÅ 07-0238 (R& 10-82) -	с	ATHODIC PROT	WELL C ECTION (DAILY	CONSTRUCT	ON REPOR	г		. 	
Drilling Log (Astach gere	(10)				Co	mplețion Da	te_2-14	-89	
CPS P	Well Name, Line or Plant:		Work Order	, *	Static:		Ins. Union Check		
7095·w-	CALLOWAY	#1-A			600'	5= .815	- 🛛 Coool	🗌 Bad	
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SED7-31-	Depth Logged Drilling Rig Time		Total	Total Lbs. Coke Used		Lost Girculation Mat'l Used		No. Sacka Mud Used	
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# 11 # 12	and the second design of the s	# 14 # 1	5	# 16	# 17	# 18	# <u>1</u> 9	# 20	
Total Circuit Resistanc Volts /2.08	Amps 20.5	Ohms , 5	29	No. 8 C.P. Cabl	le Used		No. 2 C.P. Cat	le Used	
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Denell (inthe DRILLING CO.

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Drill No. <u>2-1</u>____

DRILLER'S WELL LOG

S. P. No. (+1/02/24/1 A Date 2-14- +2 Client Meridian al Prospect County San Jam State 77. mar

If hole is a redrill or if moved from original staked position show distance

and direction moved: ___

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)						
Driller y millitt								

0 CD: 41 /29/2022 7:20:21 AM	Page 7 o
	- 30-045-23715
	FOR DEEP GROUND BED CATHODIC PROTECTION WELLS NORTHWESTERN NEW MEXICO Submit 3 copies to OCD Aztec Office)
Operator MERIDIAN C	DIL INC Location: Unit_C_Sec.29_Twp31_Rng_
Name of Well/Wells	or Pipeline Serviced HEATON #7A
	cps 1988w
Elevation 5958' Compl	etion Date 8/30/88 Total Depth 320' Land Type* N/A
Casing, Sizes, Type	s & Depths N/A
If Casing is cement	ed, show amounts & types used N/A
	ite Plugs have been placed, show depths & amounts us
If Cement or Benton N/A Depths & thickness	ite Plugs have been placed, show depths & amounts us
If Cement or Benton N/A Depths & thickness Fresh, Clear, Salty	ite Plugs have been placed, show depths & amounts us of water zones with description of water when possik , Sulphur, Etc. 65' NO SAMPLE
If Cement or Benton N/A Depths & thickness Fresh, Clear, Salty Depths gas encounte	ite Plugs have been placed, show depths & amounts us of water zones with description of water when possil , Sulphur, Etc. 65' NO SAMPLE
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If Cement or Benton N/A Depths & thickness Fresh, Clear, Salty Depths gas encounte Type & amount of co Depths anodes place	ite Plugs have been placed, show depths & amounts us of water zones with description of water when possil , Sulphur, Etc. 65' NO SAMPLE red: N/A ke breeze used: N/A d: 280', 270', 260', 250', 240', 230', 220', 210', 195', 185' laced: 320'
If Cement or Benton N/A Depths & thickness Fresh, Clear, Salty Depths gas encounte Type & amount of co Depths anodes place Depths vent pipes p	ite Plugs have been placed, show depths & amounts us of water zones with description of water when possik , Sulphur, Etc. 65' NO SAMPLE red: N/A ke breeze used: N/A d: 280', 270', 260', 250', 240', 230', 220', 210', 195', 185' laced: 320' ons: 260' DECEIVED

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

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

Received by OCD: 11/29/2022 7:20:21 AM Page 38 of 72 FM-010238 (Rev. 10-82) WELL CASING CATHODIC PROTECTION CONSTRUCTION REPORT AND: 18. DAILY LOG 9 Completion Date B-30-BB X Drilling Log (Attach Hereto) CFS-Terk Order # 🎽 Well Name Log or Plant: Ins. Union Check Penton # 14 205 = , 780K Good 🗖 Bad 49559A V くちい rive Sur Anode Type Size Eu 63/4 all XLO 1HIHAN Dt. ! rg & g T.m. Lost Circulation Mat I Used Total Los Grite Lied No. Sacks Mud Lived 1= 5 270 . . 24 へん = e II 1= 12/ ie ? . **<** = 2 = 3 = 5 = 6 '= 4.**5** -= 9 = 105 Lecin '= 15 = 16 '= 1= 19 1= 13 14 1= 20 = 17 17 Andae Culput (Artos 17 1: 1: 1= 15 = 15 = 10 = 10 19 -0 Cloud Pesistance 10. 8 C.P. Cas.+ Cas.e Usea _ 5 # 1 12 $O_{1/C}$ sml le ma pirlo 40'-60' of Surface 4074.00 CY R 2 Rectifler Size:_ All Construction Completed ddn'l Depth_ 630,00 -Depth Credit: 180 50 -III, le O as Evtra Alle: 165 Ditch & 1 Cable: 34 938.00 N 25' Meter Pole: 394,00 20' ileter Fole: 10 291.00 10' Stub Pole: 22500 201,00 Junction Box: 951 BB+ 249.23 33.83 N 6958 mit

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anter Constitution of the state CPS * 968W D. Crass DRILLING CO. Drill No. 3 DRILLER'S WELL LOG S. P. No Henton 8-30-88 Date Client Meridian Co. County SAN JUAN State New Mex. If hole is a redrill or if moved from original staked position show distance and direction moved: _ FROM ΤO FORMATION - COLOR - HARDNESS SANG 65 0 Shale 160 65 185 SANC 160 Shale Ship 185 19.5 SANdy Shale 295 320 Mud Bran Lime Rock Bit Number Make . l 65 Remarks: WAter O, . Driller KONNIE Brown Released to Imaging: 12/9/2022 11:04:17 AM Sint

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GENERAL CATHODIC PROTECTION SERVICES CO.

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DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS NORTHWESTERN NEW MEXICO (Submit 3 copies to OCD Aztec Office)
Deperator <u>FI Pase Field Services</u> Location: Unit <u>H</u> Sec. <u>34</u> Twp <u>32</u> Rng <u>11</u>
Name of Well/Wells or Pipeline Serviced <u>CALLOWAY</u> LS 2.
71698
Clevation Completion Date <u>9-3-97</u> Total Depth <u>400</u> Land Type * <u>P</u> Casing, Sizes, Types & Depths <u>8 28 - P, Y C</u>
asing, Sizes, Types & Depths $_0/0 = r, r \in I$
f Casing is cemented, show amounts & types used <u>23 Bags Zin Type V & Z</u>
f Cement or Bentonite Plugs have been placed, show depths & amounts used
120-130 - 48005 Zin Type 122
Depths & thickness of water zones with description of water when possible:
Fresh, Clear, Salty, Sulphur, Etc Jmall Rimount at Flowing .
Driller States 380'
Depths gas encountered:
Sype & amount of coke breeze used: Lovesco 5w- 4600 [65
Depths anodes placed: 180-375
Depths vent pipes placed: <u>380</u> JAN 20 1993
Vent pipe perforations: <u>200</u>
Remarks: DIST. 3
JHD and-

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

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

THE LOFTIS COMPANY

COMPANY: EPFS / Amoco CONTRACT NO: FC - 96 - 1000 Wellname - Calloway LS 2 GROUNDBED: DEPTH / FT 400'

CASING:

DEPTH / FT 22' SIZE: 8"

DIA / INCH: 7 7/8"

DATE: September 3, 1997 COUNTY: San Juan STATE: New Mexico UNIT NO: CPS # 71698, WO # 2964

ANODES: (15) 2 X 60 SHA-2's

DEPTH	DRILLERS LOG	RESIS	ΤΙΝΙΤΥ	ANODE	DEPTH TO	BEFORE	AFTER
IN FEET		OHMS	AMPS	NUMBER	ANODE TOP	COKE	COKE
5	Casing						
10				·{			· •······
15		·	·				
20	Casing to 22'			<u>+</u>	+		
25	Casing to 22' Shale			1			
30			· · · · · · · · · · · · · · · · · · ·		<u> </u>		
35						· · · · · · · · · · · · · · · · · · ·	······
40			3.8	1			
45			3.2	1			
50			3.6				
55			3.7				
60			3.2				
65			3.0				
70			2.8	1	1		
75			2.8				
80			22.7	1			
85			2.6	1			
90			2.4				
95			2.2	1			
100			1.4				
105			1.6				
110		· ·	1.2				
115			2.2		1		
120			2.9				
125			2.0				
130			1.7	1			
135			1.2				
140			1.7				
145			2.4				
150			2.4				
155			2.0				
160			2.0				
165			1.5				
170			1.5				
175			2.8				
180			2.9	15	180	2.9	6.6
185			2.8				
190			2.7	14	190	3.1	6.5
195			2.2				1
200		_	1.2	1	1		1
205			1.8	1	1	1	1
210			2.5	-			1

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THE LOFTIS COMPANY

DEPTH	DRILLERS LOG	RESIS	ΤΙνιτγ	ANODE	DEPTH TO	BEFORE	AFTER
IN FEET		OHMS	AMPS	NUMBER	ANODE TOP	COKE	COKE
215			2.8	13	215	3.3	7.2
220			3.0				
225			3.0	12	225	3.5	7.1
230			2.8				
235			2.4		1		
240	Sandstone & Clay		2.6	11	240	3.0	5.9
245			2.5		1		
250			2.0				
255			2.0				
260			2.2	1			
265			2.3	10	265	2.7	6.0
270			2.4				
275			2.3	9	275	2.3	5.9
280	Shale		1.9				0.0
285			2.4	8	285	3.2	6.9
290	······································		3.2	<u>├</u> ───	200		0.0
295			3.0	7	295	3.1	7.4
300			3.4	<u> </u>		0.1	
305			3.5	6	305	3.5	7.3
310	· ···· ··· ··· ··· ··· ··· ··· ··· ···		3.0			0.0	1.0
315	· ···· ··· ··· ··· ··· ····		2.4	5	315	2.4	5.9
320			2.0		- 515	<u> </u>	0.0
325	······································		2.0	<u>}</u>	+	<u> </u>	
330			1.8		+		
335	· · · · · · · · · · · ·		2.1		+		
340			2.3	4	340	2.3	5.2
345			1.8	+	340	2.5	<u> </u>
345		· · · ·	1.6		+		
355			3.0	3	355	3.3	6.7
				+		3.3	0./
360		<u>_</u>	3.1	<u> </u>	205		61
365			3.2	2	365	3.2	6.1
370			2.8		075		E 4
375	- <u></u>		2.9	1	375	2.9	5.4
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OCD: 41 2812022 7620:2	$1 \times 0 - 0 \times 5 - 0 \times 0 + 0$		Page
FLOOD#1	30-045-10182	3886	• /
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DATA :	NORTHWESTERN	NEW MEXICO	ON WELLS
OperatorMEX	RIDIAN OIL INC.	ocation: Unit <u>C</u> Sec.	<u>34 Twp31 Rr</u>
Name of Well/We	ells or Pipeline Service	d TURNER A #1A, FLOOD	#1
			cps 1
Elevation <u>5716'</u>	Completion Date 6/8/88	Total Depth <u>375'</u> La	nd Type*_N
Casing, Sizes,	Types & Depths	105' OF 7 5/8" STEEL	CASING
If Cement or Be	entonite Plugs have been	placed, show depths	& amounts
If Cement or Be	entonite Plugs have been	placed, show depths	& amounts
If Cement or Be	entonite Plugs have been	placed, show depths	& amounts
N/A			
N/A Depths & thickr	ness of water zones with	description of wate	
N/A Depths & thickr	ness of water zones with	description of wate	
N/A Depths & thickr Fresh, Clear, S	ness of water zones with Salty, Sulphur, Etc	description of wate	
N/A Depths & thickr Fresh, Clear, S Depths gas enco	ness of water zones with Salty, Sulphur, Etc puntered:N/A	description of wate 60' NO SAMPLE	
N/A Depths & thickr Fresh, Clear, S Depths gas enco Type & amount o	ness of water zones with Salty, Sulphur, Etc puntered:N/A of coke breeze used:	description of wate 60' NO SAMPLE N/A	er when poss
N/A Depths & thickr Fresh, Clear, S Depths gas enco Type & amount o Depths anodes p	DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS NORTHWESTERN NEW MEXICO (Submit 3 copies to OCD Aztec Office) erator <u>MERIDIAN OIL INC.</u> Location: Unit <u>C</u> Sec. <u>34</u> Twp <u>31</u> me of Well/Wells or Pipeline Serviced <u>TURNER A #1A, FLOOD #1</u> <u>cps</u> evation <u>5716'</u> Completion Date <u>6/8/88</u> Total Depth <u>375'</u> Land Type*_ sing, Sizes, Types & Depths <u>105' OF 7 5/8" STEEL CASING</u> Casing is cemented, show amounts & types used <u>N/A</u> Cement or Bentonite Plugs have been placed, show depths & amount	er when poss	
N/A Depths & thickr Fresh, Clear, S Depths gas enco Type & amount o Depths anodes p Depths vent pip	ness of water zones with Salty, Sulphur, Etc ountered:N/A of coke breeze used: olaced: <u>345', 335', 325', 319</u> oes placed:375'	description of wate <u>60' NO SAMPLE</u> <u>N/A</u> <u>5', 305', 295', 285', 27</u> REC	er when poss
N/A Depths & thick Fresh, Clear, S Depths gas enco Type & amount o Depths anodes p Depths vent pip Vent pipe perfo	ness of water zones with Salty, Sulphur, Etc ountered:N/A of coke breeze used: olaced: 345', 335', 325', 319 oes placed:375' orations:300'	description of wate <u>60' NO SAMPLE</u> N/A N/A N/A N/A N/A N/A N/A N/A	er when poss 5', 230', 215 EIVE 1 1991.

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.

Page 46 of 72 Received by OCD: 11/29/2022 7:20:21 AM -y. FM-07 0233 (RE+ 16-62) WELL CASING CATHODIC PROTECTION CONSTRUCTION REPORT DAILY LOG Conton 4- 21- 5 3 6, 8 Completion Date_ Drilling Log (Attach Hereto) CPS -Well Name Line or Plant Tork Order # Ins. Union Check Static 16150 X Good D Bad 1ur Her A 2076150 .96 600 M 959 W Ø 200d 20860 2020860 .94 0 GOU N node Size บหละเปก roce Type Size Bit 614 4 2 Durion X60 2 C ~ 34-31 Depin Lorged De ding 3 g Time Total Los Coke Lied Lost Caculation Mat I Used Depin Drilled No. Sacks Mud Lied , 175 375 Anose Destri = 1345 335 :3325 ::305 = 6 295 =7 285 1= 275 1= 230 1= 1:215 Anaba Curput (Amps) 1= = 5 1=7 5.0 '= º 6.0 =:60 : 2 5.7 = 3 6.0 = 5 4.9 2.5 12 9 4.9 5.0 1= 10 5.8 . 2 Andde Cepin 'a 15 = 11 = 12 = 13 = 14 = 16 1= 17 1= 18 '= 19 1= 20 Andse Culpul (Amps 12 = 13 = 14 1= 15 = 16 ' = = 19 1= 13 Ters, Circuit Resistance .o. 8 C.P. Cap e Usea .c. 2 C.F. Czr.e Lsea <u>و -- ح</u>ا ,48 ':~=s 25,0 Velie. 12.0 7/5 steel caseing with Co 105 d. asing Con wrist n Ver p.v.c. 4074,00 / G.B 669.00 40 V ____6 A Recufier Size:___ All Construction Completed Addn'l Depth_ 125 437,50 Depth Credit:___ 370 88.80 0 Extra Cable:__ 500' Ditch & 1 Cable:_ 350.00 -FLOOD =1 25' Meter Pole: 297.00 -20' ileter Pole: 10' Stub Pole: Junction Box: 225.00 -105 of stel (77) casing with 1970 2887.50 cable tool Rig @ 27.50/foat We formished caseing 815 3.80 TURNER TXX 407.69-\$ 8561.49 BJ onle 8--65 Released to Imaging: 12/9/2022 11:04:17 AM

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D. Crass DRILLING CO.

Drill No. 3

DRILLER'S WELL LOG S. P. No. Turner A-1A Date 6-7-88 Client Meridian 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	то	FORMATION — COLOR — HARDNESS
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150	180	SANdatone
180	340	Shale
240	260	SANdy Shale
260	280	SANdstone
280	300	SANdy Shale
60	310	SANdstone
10	375	shale
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Driller Rownie Brown

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Cathodic Protection Services Co. 1608 Schofield Ln. P.O. Box 3 Farmington, NM 87499 (505) 327-9215 (505) 325-1946

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280 3.7 505 280 3.7 505 280 3.7 500 280 3.7 500 280 3.7 500 280 3.7 500 280 3.7 500 280 3.7 500 290 3.7 500 290 3.7 500 300 3.7 500 310 3.7 500 310 3.7 500 310 3.7 500 2.7 500 500 2.8 300 3.7 550 2.4 300 3.7 550 2.5 300 3.7 550 2.5 300 3.7 555 2.6 345 7.7 6.55 2.5 350 7.7 555 2.</td> <td>265 $2 + 5 + 4 + 90$ 270 $3, 6 + 4 + 95$ 270 $3, 7 + 5 + 90$ 280 $3, 7 + 5 + 90$ 295 $7, 3 - 60$ 300 $3, 3 + 5 + 5$ 310 $3, 3 + 5 + 5 + 90$ 310 $3, 3 + 5 + 5 + 90$ 310 $3, 3 + 5 + 5 + 90$ 310 $3, 3 + 5 + 5 + 90$ 310 $3, 3 + 5 + 5 + 90$ 310 $3, 3 + 5 + 5 + 90$ 310 $3, 3 + 5 + 5 + 90$ 310 $3, 3 + 5 + 5 + 90$ 310 $3, 3 + 5 + 5 + 90$ 310 $3, 5 + 5 + 90$ 310 $3, 5 + 5 + 90$ 2, 2 + 4 + 900 $3, 5 + 5 + 900$ 2, 5 + 5 + 900 $355 + 4, 6 + 900 + 900$ 2, 5 + 5 + 900 + 900 + 900 + 900 + 900 + 900 + 900 + 900 + 900 + 900 + 900 + 900 + 900</td> <td>265 $2 + 5 + 4 + 90$ 495 270 $3, 0 + 4 + 95$ 495 275 $3, 7 + 6 + 95$ 500 280 $3, 7 + 6 + 95$ 500 290 $3, 7 + 6 + 95$ 500 290 $3, 7 + 6 + 95$ 510 290 $3, 7 + 6 + 95$ 510 290 $3, 7 + 6 + 95$ 525 200 $3, 7 + 6 + 95$ 520 210 $3, 10 + 55$ 520 210 $3, 10 + 55$ 550 21, 2 + 10 + 300 $3, 8 + 555$ 550 21, 4 + 10 + 300 $4, 5 + 550$ 550 21, 5 + 10 + 300 $4, 7 + 6 + 555$ 550 21, 5 + 10 + 300 $4, 7 + 555$ 575 21, 5 + 10 + 300 $4, 7 + 555$ 580 21, 5 + 10 + 300 $4, 7 + 555$ 580 21, 5 + 10 + 300<td>265 $2 + 5^{-1}$ 490 270 $3, 6$ 495 270 $3, 6$ 495 280 $3, 7$ 500 280 $3, 7$ 505 280 $3, 3$ 515 295 $7, 3$ 525 300 $3, 7$ 525 300 $3, 7$ $4, 5$ 300 $3, 7$ 525 300 $3, 7$ 525 300 $3, 7$ 525 301 $3, 7$ 545 302 $7, 7$ 60 303 $7, 7$ 60 $2, 2$ 550 550 $2, 4$ 325 $7, 7$ 60 $2, 5$ 356 575 560 $2, 7$ 365 $4, 7$ 585 $2, 5$ 356 $4, 7$ 585</td><td>265 2 5 490 270 3 6 495 280 3 7 500 280 3 7 500 280 3 7 500 280 3 7 500 280 3 3 515 280 3 3 515 295 7 3 525 300 3 7 500 310 3 555 530 310 3 3 535 310 3 3 545 320 3 3 555 310 3 550 550 320 3 550 550 2 2 2 545 550 2 3 3 555 550 2 3 3 550 575 2 3 3 575 575 2 57 585 590 575 2</td><td>265 2.5 400 715 270 3.0 495 720 275 3.7 500 725 280 3.7 500 725 280 3.7 500 730 280 3.7 500 730 280 3.7 500 730 290 3.2 515 740 290 3.2 515 740 200 3.7 525 750 300 3.7 525 750 310 3.4 525 750 310 3.4 545 770 310 3.4 545 770 2.2 2.4 300 3.8 550 2.4 300 3.7 560 775 320 3.3 545 770 2.4 300 4.4 560 775 2.5 300 5.7 600 785 2.4 305 7.7 565 776 2.5</td><td>$\begin{array}{c c c c c c c c c c c c c c c c c c c$</td><td>265 25 400 715 6 2 275 $3, 2$ 400 75 $72, 2$ $72, 2$ 280 $3, 2$ 500 725 8 730 5 740 750 740 740 750 740 740 760 785 780 770 770 770 770 770 770 770 770<</td><td>265 2 5 400 715 6 2 72 275 3 0 495 720 72 2×5^2 275 3 7 500 725 $8^2 \times 5^2$ 725 $8^2 \times 5^2$ 1 280 3 7 505 735 725 $8^2 \times 5^2$ 1 280 3 3 515 736 725 $8^2 \times 5^2$ 1 295 $7^2 \times 5^2$ 740 735 $6^2 \times 7^2 \times 5^2$ 1 200 3 3 515 740 745 1 300 3 525 750 750 $6^2 \times 7^2 \times 5^2$ 1 300 3 3 535 760 $6^2 \times 7^2 \times 5^2$ 750 $6^2 \times 7^2 \times 5^2$ 1 300 3 3 535 760 755 $6^2 \times 7^2 \times 5^2$ 2 2 2×5^2 755 755 756 757 $6^2 \times 7^2 \times 5^2$ 2 $7 \times 7^2 \times 5^2$ 755 775 756 <t< td=""><td>265 2.5 400 715 $C + 2 + 3 - 2$ 270 $3, 3 - 4$ 400 775 $C + 2 + 3 - 2$ 271 $3, 3 - 4$ 500 772 $8 + 2 + 7 - 2$ 272 $3, 3 - 4$ 500 775 $8 + 2 + 7 - 2$ 273 $3, 3 - 4$ 500 775 $8 + 2 + 7 - 2$ 280 $3, 7 - 4$ 500 775 $7 + 2 + 7 - 2$ 280 $3, 7 - 4$ 510 730 $7 + 2 + 7 - 2$ 280 $3, 7 - 4$ 520 740 75 280 $3, 7 - 4$ 520 750 750 300 $3, 7 - 4$ 520 755 750 $2 + 4 + 4 + 4 + 4 + 4 + 4 + 4 + 4 + 4 +$</td><td>265 2.5 .400 715 $G = 2, \beta = -2, \beta$</td><td>1 265 2.5 400 715 $6 + 2 + 3 + 2 + 3 + 3 + 3 + 3 + 3 + 3 + 3$</td></t<></td></td> | 265 25 1 270 3, 6 275 280 3, 7 280 280 3, 7 285 290 3, 3 295 290 3, 3 295 291 290 3, 3 295 291 295 3, 3 295 291 300 3, 7 295 295 3, 3 295 295 3, 3 295 295 3, 3 295 300 3, 7 295 300 3, 7 295 310 3, 7 295 310 3, 7 295 310 3, 7 295 310 3, 7 295 310 3, 7 295 2, 2 310 3, 8 295 2, 4 335 350 5. 4 2, 5 350 5. 4 10 2, 5 350 5. 4 10 2, 5 350 5. 4 10 2, 7 | 265 25 490 270 $3, 0$ 495 270 $3, 0$ 495 275 $3, 3$ 500 280 $3, 7$ 505 285 $3, 7$ 505 290 $3, 3$ 515 290 $3, 3$ 515 290 $3, 3$ 525 300 $3, 7$ 525 300 $3, 7$ 525 300 $3, 7$ 525 315 $7, 4$ 520 300 $3, 7$ 525 310 $3, 3$ 545 320 $3, 3$ 545 320 $3, 8$ 550 2, 4 330 $3, 8$ 555 2, 4 330 $3, 8$ 550 2, 5 330 $3, 8$ 555 2, 4 335 $7, 7$ $2, 560$ 2, 5 350 $5, 7, 7$ 585 2, 6 345 $5, 7, 7$ 585 2, 5 | 265 2.5 .40 270 $3, 6$.45 270 $3, 7$.50 280 $3, 7$.50 280 $3, 7$.50 280 $3, 7$.50 280 $3, 7$.50 280 $3, 7$.50 280 $3, 7$.50 280 $3, 3$.515 290 $3, 3$.515 290 $3, 3$.515 200 $3, 3$.515 200 $3, 3$.525 300 $3, 7$.50 300 $3, 3$.515 300 $3, 3$.515 300 $3, 3$.515 200 $3, 3$.545 21 .50 .50 22 .55 .50 2.5 .300 .56 2.6 .345 .77 .555 2.5 .350 .60 .575 2.5 .355 .60 .575 | 265 2.5 40 270 3.6 495 270 3.7 500 275 3.3 - 280 3.7 505 280 3.7 505 280 3.7 500 280 3.7 500 280 3.7 500 280 3.7 500 280 3.7 500 280 3.7 500 290 3.7 500 290 3.7 500 300 3.7 500 310 3.7 500 310 3.7 500 310 3.7 500 2.7 500 500 2.8 300 3.7 550 2.4 300 3.7 550 2.5 300 3.7 550 2.5 300 3.7 555 2.6 345 7.7 6.55 2.5 350 7.7 555 2. | 265 $2 + 5 + 4 + 90$ 270 $3, 6 + 4 + 95$ 270 $3, 7 + 5 + 90$ 280 $3, 7 + 5 + 90$ 280 $3, 7 + 5 + 90$ 280 $3, 7 + 5 + 90$ 280 $3, 7 + 5 + 90$ 280 $3, 7 + 5 + 90$ 280 $3, 7 + 5 + 90$ 280 $3, 7 + 5 + 90$ 280 $3, 7 + 5 + 90$ 280 $3, 7 + 5 + 90$ 295 $7, 3 - 60$ 300 $3, 3 + 5 + 5$ 310 $3, 3 + 5 + 5 + 90$ 310 $3, 3 + 5 + 5 + 90$ 310 $3, 3 + 5 + 5 + 90$ 310 $3, 3 + 5 + 5 + 90$ 310 $3, 3 + 5 + 5 + 90$ 310 $3, 3 + 5 + 5 + 90$ 310 $3, 3 + 5 + 5 + 90$ 310 $3, 3 + 5 + 5 + 90$ 310 $3, 3 + 5 + 5 + 90$ 310 $3, 5 + 5 + 90$ 310 $3, 5 + 5 + 90$ 2, 2 + 4 + 900 $3, 5 + 5 + 900$ 2, 5 + 5 + 900 $355 + 4, 6 + 900 + 900$ 2, 5 + 5 + 900 + 900 + 900 + 900 + 900 + 900 + 900 + 900 + 900 + 900 + 900 + 900 + 900 | 265 $2 + 5 + 4 + 90$ 495 270 $3, 0 + 4 + 95$ 495 275 $3, 7 + 6 + 95$ 500 280 $3, 7 + 6 + 95$ 500 290 $3, 7 + 6 + 95$ 500 290 $3, 7 + 6 + 95$ 510 290 $3, 7 + 6 + 95$ 510 290 $3, 7 + 6 + 95$ 525 200 $3, 7 + 6 + 95$ 520 200 $3, 7 + 6 + 95$ 520 200 $3, 7 + 6 + 95$ 520 200 $3, 7 + 6 + 95$ 520 200 $3, 7 + 6 + 95$ 520 200 $3, 7 + 6 + 95$ 520 210 $3, 10 + 55$ 520 210 $3, 10 + 55$ 550 21, 2 + 10 + 300 $3, 8 + 555$ 550 21, 4 + 10 + 300 $4, 5 + 550$ 550 21, 5 + 10 + 300 $4, 7 + 6 + 555$ 550 21, 5 + 10 + 300 $4, 7 + 555$ 575 21, 5 + 10 + 300 $4, 7 + 555$ 580 21, 5 + 10 + 300 $4, 7 + 555$ 580 21, 5 + 10 + 300 <td>265 $2 + 5^{-1}$ 490 270 $3, 6$ 495 270 $3, 6$ 495 280 $3, 7$ 500 280 $3, 7$ 505 280 $3, 3$ 515 295 $7, 3$ 525 300 $3, 7$ 525 300 $3, 7$ $4, 5$ 300 $3, 7$ 525 300 $3, 7$ 525 300 $3, 7$ 525 301 $3, 7$ 545 302 $7, 7$ 60 303 $7, 7$ 60 $2, 2$ 550 550 $2, 4$ 325 $7, 7$ 60 $2, 5$ 356 575 560 $2, 7$ 365 $4, 7$ 585 $2, 5$ 356 $4, 7$ 585</td> <td>265 2 5 490 270 3 6 495 280 3 7 500 280 3 7 500 280 3 7 500 280 3 7 500 280 3 3 515 280 3 3 515 295 7 3 525 300 3 7 500 310 3 555 530 310 3 3 535 310 3 3 545 320 3 3 555 310 3 550 550 320 3 550 550 2 2 2 545 550 2 3 3 555 550 2 3 3 550 575 2 3 3 575 575 2 57 585 590 575 2</td> <td>265 2.5 400 715 270 3.0 495 720 275 3.7 500 725 280 3.7 500 725 280 3.7 500 730 280 3.7 500 730 280 3.7 500 730 290 3.2 515 740 290 3.2 515 740 200 3.7 525 750 300 3.7 525 750 310 3.4 525 750 310 3.4 545 770 310 3.4 545 770 2.2 2.4 300 3.8 550 2.4 300 3.7 560 775 320 3.3 545 770 2.4 300 4.4 560 775 2.5 300 5.7 600 785 2.4 305 7.7 565 776 2.5</td> <td>$\begin{array}{c c c c c c c c c c c c c c c c c c c$</td> <td>265 25 400 715 6 2 275 $3, 2$ 400 75 $72, 2$ $72, 2$ 280 $3, 2$ 500 725 8 730 5 740 750 740 740 750 740 740 760 785 780 770 770 770 770 770 770 770 770<</td> <td>265 2 5 400 715 6 2 72 275 3 0 495 720 72 2×5^2 275 3 7 500 725 $8^2 \times 5^2$ 725 $8^2 \times 5^2$ 1 280 3 7 505 735 725 $8^2 \times 5^2$ 1 280 3 3 515 736 725 $8^2 \times 5^2$ 1 295 $7^2 \times 5^2$ 740 735 $6^2 \times 7^2 \times 5^2$ 1 200 3 3 515 740 745 1 300 3 525 750 750 $6^2 \times 7^2 \times 5^2$ 1 300 3 3 535 760 $6^2 \times 7^2 \times 5^2$ 750 $6^2 \times 7^2 \times 5^2$ 1 300 3 3 535 760 755 $6^2 \times 7^2 \times 5^2$ 2 2 2×5^2 755 755 756 757 $6^2 \times 7^2 \times 5^2$ 2 $7 \times 7^2 \times 5^2$ 755 775 756 <t< td=""><td>265 2.5 400 715 $C + 2 + 3 - 2$ 270 $3, 3 - 4$ 400 775 $C + 2 + 3 - 2$ 271 $3, 3 - 4$ 500 772 $8 + 2 + 7 - 2$ 272 $3, 3 - 4$ 500 775 $8 + 2 + 7 - 2$ 273 $3, 3 - 4$ 500 775 $8 + 2 + 7 - 2$ 280 $3, 7 - 4$ 500 775 $7 + 2 + 7 - 2$ 280 $3, 7 - 4$ 510 730 $7 + 2 + 7 - 2$ 280 $3, 7 - 4$ 520 740 75 280 $3, 7 - 4$ 520 750 750 300 $3, 7 - 4$ 520 755 750 $2 + 4 + 4 + 4 + 4 + 4 + 4 + 4 + 4 + 4 +$</td><td>265 2.5 .400 715 $G = 2, \beta = -2, \beta$</td><td>1 265 2.5 400 715 $6 + 2 + 3 + 2 + 3 + 3 + 3 + 3 + 3 + 3 + 3$</td></t<></td> | 265 $2 + 5^{-1}$ 490 270 $3, 6$ 495 270 $3, 6$ 495 280 $3, 7$ 500 280 $3, 7$ 505 280 $3, 7$ 505 280 $3, 7$ 505 280 $3, 7$ 505 280 $3, 7$ 505 280 $3, 3$ 515 295 $7, 3$ 525 300 $3, 7$ 525 300 $3, 7$ $4, 5$ 300 $3, 7$ 525 300 $3, 7$ 525 300 $3, 7$ 525 301 $3, 7$ 545 302 $7, 7$ 60 303 $7, 7$ 60 $2, 2$ 550 550 $2, 4$ 325 $7, 7$ 60 $2, 5$ 356 575 560 $2, 7$ 365 $4, 7$ 585 $2, 5$ 356 $4, 7$ 585 | 265 2 5 490 270 3 6 495 280 3 7 500 280 3 7 500 280 3 7 500 280 3 7 500 280 3 3 515 280 3 3 515 295 7 3 525 300 3 7 500 310 3 555 530 310 3 3 535 310 3 3 545 320 3 3 555 310 3 550 550 320 3 550 550 2 2 2 545 550 2 3 3 555 550 2 3 3 550 575 2 3 3 575 575 2 57 585 590 575 2 | 265 2.5 400 715 270 3.0 495 720 275 3.7 500 725 280 3.7 500 725 280 3.7 500 730 280 3.7 500 730 280 3.7 500 730 290 3.2 515 740 290 3.2 515 740 200 3.7 525 750 300 3.7 525 750 310 3.4 525 750 310 3.4 545 770 310 3.4 545 770 2.2 2.4 300 3.8 550 2.4 300 3.7 560 775 320 3.3 545 770 2.4 300 4.4 560 775 2.5 300 5.7 600 785 2.4 305 7.7 565 776 2.5 | $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | 265 25 400 715 6 2 275 $3, 2$ 400 75 $72, 2$ $72, 2$ 280 $3, 2$ 500 725 8 730 5 730 5 730 5 730 5 730 5 730 5 730 5 730 5 730 5 730 5 730 5 730 5 730 5 730 5 740 750 740 740 750 740 740 760 785 780 770 770 770 770 770 770 770 770 < | 265 2 5 400 715 6 2 72 275 3 0 495 720 72 2×5^2 275 3 7 500 725 $8^2 \times 5^2$ 725 $8^2 \times 5^2$ 1 280 3 7 505 735 725 $8^2 \times 5^2$ 1 280 3 3 515 736 725 $8^2 \times 5^2$ 1 295 $7^2 \times 5^2$ 740 735 $6^2 \times 7^2 \times 5^2$ 1 200 3 3 515 740 745 1 300 3 525 750 750 $6^2 \times 7^2 \times 5^2$ 1 300 3 3 535 760 $6^2 \times 7^2 \times 5^2$ 750 $6^2 \times 7^2 \times 5^2$ 1 300 3 3 535 760 755 $6^2 \times 7^2 \times 5^2$ 2 2 2×5^2 755 755 756 757 $6^2 \times 7^2 \times 5^2$ 2 $7 \times 7^2 \times 5^2$ 755 775 756 <t< td=""><td>265 2.5 400 715 $C + 2 + 3 - 2$ 270 $3, 3 - 4$ 400 775 $C + 2 + 3 - 2$ 271 $3, 3 - 4$ 500 772 $8 + 2 + 7 - 2$ 272 $3, 3 - 4$ 500 775 $8 + 2 + 7 - 2$ 273 $3, 3 - 4$ 500 775 $8 + 2 + 7 - 2$ 280 $3, 7 - 4$ 500 775 $7 + 2 + 7 - 2$ 280 $3, 7 - 4$ 510 730 $7 + 2 + 7 - 2$ 280 $3, 7 - 4$ 520 740 75 280 $3, 7 - 4$ 520 750 750 300 $3, 7 - 4$ 520 755 750 $2 + 4 + 4 + 4 + 4 + 4 + 4 + 4 + 4 + 4 +$</td><td>265 2.5 .400 715 $G = 2, \beta = -2, \beta$</td><td>1 265 2.5 400 715 $6 + 2 + 3 + 2 + 3 + 3 + 3 + 3 + 3 + 3 + 3$</td></t<> | 265 2.5 400 715 $C + 2 + 3 - 2$ 270 $3, 3 - 4$ 400 775 $C + 2 + 3 - 2$ 271 $3, 3 - 4$ 500 772 $8 + 2 + 7 - 2$ 272 $3, 3 - 4$ 500 775 $8 + 2 + 7 - 2$ 273 $3, 3 - 4$ 500 775 $8 + 2 + 7 - 2$ 280 $3, 7 - 4$ 500 775 $7 + 2 + 7 - 2$ 280 $3, 7 - 4$ 510 730 $7 + 2 + 7 - 2$ 280 $3, 7 - 4$ 520 740 75 280 $3, 7 - 4$ 520 750 750 300 $3, 7 - 4$ 520 755 750 $2 + 4 + 4 + 4 + 4 + 4 + 4 + 4 + 4 + 4 + $ | 265 2.5 .400 715 $G = 2, \beta = -2, \beta$ | 1 265 2.5 400 715 $6 + 2 + 3 + 2 + 3 + 3 + 3 + 3 + 3 + 3 + 3$ |



APPENDIX C

Executed C-138 Solid Waste Acceptance Form Received by OCD: 11/29/2022 7:20:21 AM

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

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

Form C-138 Revised 08/01/11

Page 50 of 72

*Surface Waste Management Facility Operator and Generator shall maintain and make this

1220 S. St. Francis Dr., Santa Fe, NM 87505	Santa Fe, NM 87505	documentation available for Division inspection. $97057 - 1125$
REQUEST FOR	APPROVAL TO ACCEN	PT SOLID WASTE
1. Generator Name and Address: Enterprise Field Services, LLC, 614 Reilly Ave	e, Farmington NM 87401	PayKey: EM20767 PM: Gary Turner AFE: N60572
2. Originating Site: Federal 31-11-28 #3		
3. Location of Material (Street Address, City UL O Section 28 T31N R11W; 36.865604,		Aug 2022
4. Source and Description of Waste: Source: Remediation activities associated with Description: Hydrocarbon/Condensate impacted Estimated Volume <u>50</u> yd/bbls Known Vol	soil associated natural gas pipeline rele ume (to be entered by the operator at th	ease. the end of the haul) $\frac{96}{50}$ yd ³ /bbls
5. GENERATOR C	ERTIFICATION STATEMENT OF	WASTE STATUS
I, Thomas Long Jhow Long , representative or author Generator Signature certify that according to the Resource Conservation regulatory determination, the above described wa	on and Recovery Act (RCRA) and the U	US Environmental Protection Agency's July 1988
	ed from oil and gas exploration and pro	oduction operations and are not mixed with non- w Weekly Per Load
characteristics established in RCRA regulation	ons, 40 CFR 261.21-261.24, or listed ha	eed the minimum standards for waste hazardous by azardous waste as defined in 40 CFR, part 261, e above-described waste is non-hazardous. (Check
MSDS Information RCRA Hazardous	Vaste Analysis 🛛 Process Knowledg	ge \Box Other (Provide description in Box 4)
GENERATOR 19.15.36.15 WASTE	E TESTING CERTIFICATION STA	TEMENT FOR LANDFARMS
the required testing/sign the Generator Waste Test I, <u>Greg Crabber</u> representative for representative samples of the oil field waste have have been found to conform to the specific requir of the representative samples are attached to dem 19.15.36 NMAC.	ting Certification. <u>Envirotech, Inc.</u> been subjected to the paint filter test ar ements applicable to landfarms pursuar onstrate the above-described waste con	do hereby certify that do hereby certify that nd tested for chloride content and that the samples nt to Section 15 of 19.15.36 NMAC. The results nform to the requirements of Section 15 of
5. Transporter: FBD Riley , ACE		
OCD Permitted Surface Waste Management F Name and Facility Permit #: Envirotech Inc Address of Facility: Hilltop, NM Method of Treatment and/or Disposal: Evaporation Injection	■ Treating Plant	#: NM 01-0011
Waste Acceptance Status:	PROVED DEN TITLE: Enviro TELEPHONE NO.:	NIED (Must Be Maintained As Permanent Record) $\underline{MAnagen}$ DATE: $\underline{8/18/22}$ 505-632-0615



APPENDIX D

Photographic Documentation

Released to Imaging: 12/9/2022 11:04:17 AM

Closure Report Enterprise Field Services, LLC Federal 31-11-28 #3 (8/18/22) Ensolum Project No. 05A1226204

E N S O L U M

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 the final excavation.



E N S O L U M

Photograph 4

Photograph Description: View of the site after initial restoration.





APPENDIX E

Regulatory Correspondence

Released to Imaging: 12/9/2022 11:04:17 AM

From:	Kyle Summers
To:	Landon Daniell
Cc:	Ranee Deechilly
Subject:	FW: [EXTERNAL] Federal 31-11-28#3 - UL O Section 28 T31N R11W; 36.865604, -107.993802; Incident #nAPP2223126700
Date:	Friday, August 19, 2022 11:31:31 AM
Attachments:	<u>image003.png</u> <u>image004.png</u> <u>image005.png</u>



Kyle Summers Principal 903-821-5603 Ensolum, LLC in f

From: Velez, Nelson, EMNRD <Nelson.Velez@state.nm.us>
Sent: Friday, August 19, 2022 9:56 AM
To: Long, Thomas <tjlong@eprod.com>; rjoyner@blm.gov
Cc: Stone, Brian <bmstone@eprod.com>; Kyle Summers <ksummers@ensolum.com>
Subject: RE: [EXTERNAL] Federal 31-11-28#3 - UL O Section 28 T31N R11W; 36.865604, -107.993802; Incident #nAPP2223126700

[**EXTERNAL EMAIL**]

Tom,

Thank you for the notice. Your variance request is approved.

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

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

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

Regards

Nelson Velez • Environmental Specialist - Adv Environmental Bureau | EMNRD - Oil Conservation Division 1000 Rio Brazos Road | Aztec, NM 87410 (505) 469-6146 | <u>nelson.velez@state.nm.us</u>

Office Hrs.: 7:00am - 12:00pm & 1:00 - 3:30 pm Mon.-Thur. 7:00am - 12:00pm & 1:00 - 4:00 pm Fri.

From: Long, Thomas <tilong@eprod.com>
Sent: Friday, August 19, 2022 7:29 AM
To: Velez, Nelson, EMNRD <<u>Nelson.Velez@state.nm.us</u>>; rjoyner@blm.gov
Cc: Stone, Brian <<u>bmstone@eprod.com</u>>; Kyle Summers <<u>ksummers@ensolum.com</u>>
Subject: [EXTERNAL] Federal 31-11-28#3 - UL O Section 28 T31N R11W; 36.865604, -107.993802;
Incident #nAPP2223126700

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

Nelson/Ryan,

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 today August 19, 2022 at 11:00 a.m. at the Federal 31-11-28 #3 excavation. We began remediation yesterday and we are done because it was a very small release. 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

Released to Imaging: 12/9/2022 11:04:17 AM

ENSOLUM

	TABLE 1 Federal 31-11-28 #3 (08/18/22) SOIL ANALYTICAL SUMMARY												
Sample I.D.	Date	Sample Type C- Composite G - Grab	Sample Depth (feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX ¹ (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total Combined TPH (GRO/DRO/MRO) ¹ (mg/kg)	Chloride (mg/kg)
	Depa	eral & Natural R rtment n Closure Criter		10	NE	NE	NE	50	NE	NE	NE	100	600
						Excavation Com	posite Soil San	nples					
S-1	8.19.22	С	7	<0.023	<0.046	<0.046	<0.093	ND	<4.6	<14	<46	ND	64
S-2	8.19.22	С	0 to 7	<0.020	0.13	<0.040	0.11	0.24	<4.0	<14	<48	ND	<60
S-3	8.19.22	С	0 to 7	<0.024	0.065	<0.049	<0.097	0.065	<4.9	<15	<50	ND	84
S-4	8.19.22	С	0 to 7	0.042	0.31	<0.037	0.18	0.53	<3.7	<14	<45	ND	<60
S-5	8.19.22	С	0 to 7	<0.018	0.10	<0.036	0.14	0.24	<3.6	<14	<46	ND	<60

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

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

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

NA = Not Analyzed

NE = Not established

mg/kg = milligram 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

Released to Imaging: 12/9/2022 11:04:17 AM



August 31, 2022

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

RE: Federal 31 11 28 3

OrderNo.: 2208C59

Hall Environmental Analysis Laboratory

TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 5 sample(s) on 8/20/2022 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued August 26, 2022.

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. 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. All samples are reported as received unless otherwise indicated.

Please don't hesitate to contact HEAL for any additional information or clarifications.

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report Lab Order 2208C59

Date Reported: 8/31/2022

CLIENT: Project: Lab ID:	: ENSOLUM Federal 31 11 28 3 2208C59-001	Client Sample ID: S-1 Collection Date: 8/19/2022 10:00:00 AM Matrix: SOIL Received Date: 8/20/2022 8:45:00 AM					
Analyses	5	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA ME	THOD 300.0: ANIONS					Analyst	: NAI
Chloride)	64	60	mg/Kg	20	8/22/2022 10:55:34 AM	69658
EPA ME	THOD 8015M/D: DIESEL RAN	IGE ORGANICS				Analyst	DGH
Diesel R	ange Organics (DRO)	ND	14	mg/Kg	1	8/22/2022 10:19:53 AM	69654
Motor O	il Range Organics (MRO)	ND	46	mg/Kg	1	8/22/2022 10:19:53 AM	69654
Surr:	DNOP	89.3	21-129	%Rec	1	8/22/2022 10:19:53 AM	69654
EPA ME	THOD 8015D: GASOLINE RA	NGE				Analyst	BRM
Gasoline	e Range Organics (GRO)	ND	4.6	mg/Kg	1	8/22/2022 9:06:00 AM	A90464
Surr:	BFB	101	37.7-212	%Rec	1	8/22/2022 9:06:00 AM	A90464
EPA ME	THOD 8021B: VOLATILES					Analyst	BRM
Benzene	9	ND	0.023	mg/Kg	1	8/22/2022 9:06:00 AM	B90464
Toluene		ND	0.046	mg/Kg	1	8/22/2022 9:06:00 AM	B90464
Ethylber	nzene	ND	0.046	mg/Kg	1	8/22/2022 9:06:00 AM	B90464
Xylenes,	, Total	ND	0.093	mg/Kg	1	8/22/2022 9:06:00 AM	B90464
Surr:	4-Bromofluorobenzene	94.2	70-130	%Rec	1	8/22/2022 9:06:00 AM	B90464

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 range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 9

Analytical Report

Hall Environmental A	Analysis	Laboratory.	Inc.
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Lab Order 2208C59

Date Reported: 8/31/2022

CLIENT: ENSOLUM Project: Federal 31 11 28 3			ient Sample II Collection Dat		2 9/2022 10:05:00 AM	
Lab ID: 2208C59-002	Matrix: SOIL		Received Dat	e: 8/2	20/2022 8:45:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: NAI
Chloride	ND	60	mg/Kg	20	8/22/2022 11:07:55 AM	69658
EPA METHOD 8015M/D: DIESEL RAN	IGE ORGANICS				Analys	t: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	8/22/2022 10:33:43 AM	69654
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	8/22/2022 10:33:43 AM	69654
Surr: DNOP	89.1	21-129	%Rec	1	8/22/2022 10:33:43 AM	69654
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	t: BRM
Gasoline Range Organics (GRO)	ND	4.0	mg/Kg	1	8/22/2022 9:25:00 AM	A90464
Surr: BFB	106	37.7-212	%Rec	1	8/22/2022 9:25:00 AM	A90464
EPA METHOD 8021B: VOLATILES					Analys	t: BRM
Benzene	ND	0.020	mg/Kg	1	8/22/2022 9:25:00 AM	B90464
Toluene	0.13	0.040	mg/Kg	1	8/22/2022 9:25:00 AM	B90464
Ethylbenzene	ND	0.040	mg/Kg	1	8/22/2022 9:25:00 AM	B90464
Xylenes, Total	0.11	0.081	mg/Kg	1	8/22/2022 9:25:00 AM	B90464
Surr: 4-Bromofluorobenzene	92.5	70-130	%Rec	1	8/22/2022 9:25:00 AM	B90464

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
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 2 of 9

Analytical Report Lab Order 2208C59

Lab Order 2208C59

Date R	eported:	8/31/2022
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CLIENT: ENSOLUM Project: Federal 31 11 28 3 Lab ID: 2208C59-003	Client Sample ID: S-3 Collection Date: 8/19/2022 10:10:00 AM Matrix: SOIL Received Date: 8/20/2022 8:45:00 AM					
Analyses	Result	RL	Qual Units		Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: NAI
Chloride	84	60	mg/Kg	20	8/22/2022 11:20:16 AM	69658
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst	: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	8/22/2022 10:47:31 AM	69654
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	8/22/2022 10:47:31 AM	69654
Surr: DNOP	90.9	21-129	%Rec	1	8/22/2022 10:47:31 AM	69654
EPA METHOD 8015D: GASOLINE RAN	GE				Analyst	BRM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/22/2022 9:45:00 AM	A90464
Surr: BFB	103	37.7-212	%Rec	1	8/22/2022 9:45:00 AM	A90464
EPA METHOD 8021B: VOLATILES					Analyst	BRM
Benzene	ND	0.024	mg/Kg	1	8/22/2022 9:45:00 AM	B90464
Toluene	0.065	0.049	mg/Kg	1	8/22/2022 9:45:00 AM	B90464
Ethylbenzene	ND	0.049	mg/Kg	1	8/22/2022 9:45:00 AM	B90464
Xylenes, Total	ND	0.097	mg/Kg	1	8/22/2022 9:45:00 AM	B90464
Surr: 4-Bromofluorobenzene	94.7	70-130	%Rec	1	8/22/2022 9:45:00 AM	B90464

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 range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Analytical Report

Hall Environmental	Analysis	Laboratory,	Inc.

Lab Order 2208C59

Date Reported: 8/31/2022

CLIENT: ENSOLUM		Cli	ient Sample II	D: S-4	4	
Project: Federal 31 11 28 3		(Collection Dat	e: 8/1	19/2022 10:15:00 AM	[
Lab ID: 2208C59-004	Matrix: SOIL		Received Dat	e: 8/2	20/2022 8:45:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	st: NAI
Chloride	ND	60	mg/Kg	20	8/22/2022 11:32:36 AM	1 69658
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS				Analys	st: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	8/22/2022 11:01:11 AM	1 69654
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	8/22/2022 11:01:11 AM	1 69654
Surr: DNOP	88.6	21-129	%Rec	1	8/22/2022 11:01:11 AM	1 69654
EPA METHOD 8015D: GASOLINE RAI	NGE				Analys	st: BRM
Gasoline Range Organics (GRO)	ND	3.7	mg/Kg	1	8/22/2022 10:05:00 AM	1 A90464
Surr: BFB	104	37.7-212	%Rec	1	8/22/2022 10:05:00 AM	1 A90464
EPA METHOD 8021B: VOLATILES					Analys	st: BRM
Benzene	0.042	0.019	mg/Kg	1	8/22/2022 10:05:00 AM	1 B90464
Toluene	0.31	0.037	mg/Kg	1	8/22/2022 10:05:00 AM	1 B90464
Ethylbenzene	ND	0.037	mg/Kg	1	8/22/2022 10:05:00 AM	1 B90464
Xylenes, Total	0.18	0.075	mg/Kg	1	8/22/2022 10:05:00 AM	1 B90464
Surr: 4-Bromofluorobenzene	94.8	70-130	%Rec	1	8/22/2022 10:05:00 AM	1 B90464

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
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit

Page 4 of 9

Hall Environmental Analysis Laboratory, Inc.

Analytical Report Lab Order 2208C59

Date Reported: 8/31/2022

CLIENT: ENSOLUM	Client Sample ID: S-5					
Project: Federal 31 11 28 3	Collection Date: 8/19/2022 10:20:00 AM Matrix: SOIL Received Date: 8/20/2022 8:45:00 AM					
Lab ID: 2208C59-005						
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: NAI
Chloride	ND	60	mg/Kg	20	8/22/2022 11:44:57 AM	69658
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	8/22/2022 11:14:56 AM	69654
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	8/22/2022 11:14:56 AM	69654
Surr: DNOP	89.3	21-129	%Rec	1	8/22/2022 11:14:56 AM	69654
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst	BRM
Gasoline Range Organics (GRO)	ND	3.6	mg/Kg	1	8/22/2022 10:24:00 AM	A90464
Surr: BFB	107	37.7-212	%Rec	1	8/22/2022 10:24:00 AM	A90464
EPA METHOD 8021B: VOLATILES					Analyst	BRM
Benzene	ND	0.018	mg/Kg	1	8/22/2022 10:24:00 AM	B90464
Toluene	0.10	0.036	mg/Kg	1	8/22/2022 10:24:00 AM	B90464
Ethylbenzene	ND	0.036	mg/Kg	1	8/22/2022 10:24:00 AM	B90464
Xylenes, Total	0.14	0.072	mg/Kg	1	8/22/2022 10:24:00 AM	B90464
Surr: 4-Bromofluorobenzene	91.0	70-130	%Rec	1	8/22/2022 10:24:00 AM	B90464

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 range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 5 of 9

Analysis Date: 8/22/2022

PQL

1.5

Result

14

L	Hall Environmental Analysis Laboratory, Inc.							
Client: Project:	ENSO Federa	LUM al 31 11 28 3						
Sample ID:	MB-69658	SampType: mblk	Те	stCode: EPA Method	300.0: Anions			
Client ID:	PBS	Batch ID: 69658		RunNo: 90467				
Prep Date:	8/22/2022	Analysis Date: 8/22/2	022	SeqNo: 3230756	Units: mg/Kg	J		
Analyte		Result PQL SF	PK value SPK Ref Val	%REC LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND 1.5						
Sample ID:	LCS-69658	SampType: Ics	Те	stCode: EPA Method	300.0: Anions			
Client ID:	LCSS	Batch ID: 69658		RunNo: 90467				

SPK value SPK Ref Val %REC

0

15.00

SeqNo: 3230757

92.6

LowLimit

90

Units: mg/Kg

110

HighLimit

RPDLimit

Qual

%RPD

Qualifiers:

Prep Date:

Analyte Chloride

8/22/2022

- 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
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- Analyte detected in the associated Method Blank В
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 6 of 9

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Qualifiers:

Value exceeds Maximum Contaminant Level.

Holding times for preparation or analysis exceeded

% Recovery outside of range due to dilution or matrix interference

Sample Diluted Due to Matrix

PQL Practical Quanitative Limit

Not Detected at the Reporting Limit

*

D

Н

ND

S

в	Analyte	detecte

- Estimated value

- ted in the associated Method Blank
- Р Sample pH Not In Range
- RL Reporting Limit

Page 7 of 9

- - Е

 - J Analyte detected below quantitation limits

•	•				•		U	•			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	ND	15									
Notor Oil Range Organics (MRO)	ND	50									
Surr: DNOP	8.5		10.00		84.7	21	129				
Sample ID: LCS-69654	SampT	ype: LC	s	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics		_
Client ID: LCSS	Batch	n ID: 696	54	F	RunNo: 9(0468					
Prep Date: 8/22/2022	Analysis D)ate: 8/2	22/2022	5	SeqNo: 32	228968	Units: mg/K	g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	44	15	50.00	0	87.3	64.4	127				
Surr: DNOP	4.0		5.000		80.7	21	129				

Client:ENSOLProject:Federal	UM 31 11 28 3									
Sample ID: MB-69654	Samp	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: PBS	Batc	h ID: 69	654	F	RunNo: 9	0468				
Prep Date: 8/22/2022	Analysis [Date: 8/	22/2022	:	SeqNo: 3	228967	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.5		10.00		84.7	21	129			
Sample ID: LCS-69654	Samp	Гуре: LC	S	Tes	tCode: El	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: LCSS	Batc	h ID: 69	654	F	RunNo: 9	0468				
Prep Date: 8/22/2022	Analysis [Date: 8/	22/2022	\$	SeqNo: 3	228968	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	15	50.00	0	87.3	64.4	127			
Surr: DNOP	40		5 000		80.7	21	129			

WO#: 2208C59 31-Aug-22

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

1000

1000

WO#:	2208C59

31-Aug-22

Client: ENSOI	LUM									
	31 11 28 3									
Sample ID: 2208c59-001ams	s SampT	ype: MS	6	Tes	tCode: EF	PA Method	8015D: Gaso	line Range	•	
Client ID: S-1	Batch	n ID: A9	0464	F	RunNo: 9	0464				
Prep Date:	Analysis D	ate: 8/ 2	22/2022	S	SeqNo: 3	229631	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	100	70	130	JOIN D		Quu
Surr: BFB	2100	0.0	1000	Ū	214	37.7	212			S
Sample ID: 2208c59-001ams	sd SampT	ype: MS	SD	Tes	tCode: EF	PA Method	8015D: Gaso	line Range	•	
Client ID: S-1	Batch	n ID: A9	0464	F	RunNo: 9	0464				
Prep Date:	Analysis D	ate: 8/ 2	22/2022	S	SeqNo: 32	229632	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	98.2	70	130	2.06	20	
Surr: BFB	2100		1000		206	37.7	212	0	0	
Sample ID: 2.5ug gro Ics	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8015D: Gaso	line Range		
Client ID: LCSS	•	n ID: A9			RunNo: 9			J		
Prep Date:	Analysis D	-			SeqNo: 3		Units: mg/K	ζα.		
Fiep Date.	Analysis L				·		Units. Ing/r	0		
Analyte	Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	101	72.3	137			
Surr: BFB	2100		1000		215	37.7	212			S
Sample ID: mb	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8015D: Gaso	line Range)	
Client ID: PBS	Batch	n ID: A9	0464	F	RunNo: 9	0464				
Prep Date:	Analysis D	ate: 8/ 2	22/2022	S	SeqNo: 32	230297	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0	2	2				, D		~~

Qualifiers:

Surr: BFB

- * 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 range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank

99.8

37.7

212

- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#: 2208C59

31-Aug-22

1 11 28 3									
SampT	ype: MS	;	Tes	TestCode: EPA Method 8021B: Volatiles					
Batch	n ID: B9	0464	F	RunNo: 9(0464				
Analysis E	Date: 8/2	22/2022	S	SeqNo: 32	229665	Units: mg/K	g		
Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
0.83	0.025	1.000	0.01958	81.0	68.8	120			
0.98	0.050	1.000	0.1296	85.0	73.6	124			
0.86	0.050	1.000	0.01614	84.6	72.7	129			
2.7	0.10	3.000	0.1145	84.7	75.7	126			
0.95		1.000		95.2	70	130			
SampT	vpe: MS	D	Tes	tCode: EF	PA Method	8021B: Volati	les		
			F	RunNo: 9(0464				
Analysis E	Date: 8/2	22/2022	Ś	SeqNo: 32	229666	Units: mg/K	g		
Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
0.80	0.025	1.000	0.01958	77.8	68.8	120	3.92	20	
0.94	0.050	1.000	0.1296	80.5	73.6	124	4.64	20	
0.83	0.050	1.000	0.01614	80.9	72.7	129	4.39	20	
2.5	0.10	3.000	0.1145	81.0	75.7	126	4.21	20	
0.90		1.000		89.6	70	130	0	0	
SampT	ype: LC	S	Tes	tCode: EF	PA Method	8021B: Volati	les		
Batch	n ID: B9	0464	F	RunNo: 9(0464				
Analysis D	Date: 8/2	22/2022	S	SeqNo: 32	230303	Units: mg/K	g		
Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
0.82	0.025	1.000	0	81.9	80	120			
0.84	0.050	1.000	0	84.0	80	120			
0.86	0.050	1.000	0	85.6	80	120			
2.6	0.10	3.000	0	85.5	80	120			
0.96		1.000		95.8	70	130			
SampT	уре: МВ	BLK	Tes	tCode: EF	PA Method	8021B: Volati	les		
Batch	n ID: B9	0464	F	RunNo: 9(0464				
Analysis D	Date: 8/2	22/2022	S	SeqNo: 32	230304	Units: mg/K	g		
Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
ND	0.025								
ND	0.050								
ND	0.050								
ND	0.10								
0.94		1.000		94.5	70	130			
	Analysis I Result 0.83 0.98 0.86 2.7 0.95 SampT Batcl 0.80 0.94 0.83 2.5 0.90 SampT Batcl Analysis I Result 0.82 0.94 0.83 2.5 0.90 SampT Batcl Analysis I Result 0.82 0.96 SampT Batcl 0.82 0.96 SampT Batcl 0.82 0.96 SampT Batcl 0.82 0.96 SampT Batcl 0.82 0.90 SampT Batcl 0.82 0.84 0.82 0.84 0.85 0.90 SampT Batcl 0.82 0.84 0.85 0.96 SampT Batcl 0.82 0.84 0.85 0.96 SampT 0.82 0.84 0.86 0.96 SampT Batcl 0.82 0.84 0.82 0.84 0.86 0.96 0.82 0.84 0.86 0.96 0.82 0.84 0.86 0.96 SampT Batcl 0.82 0.84 0.82 0.84 0.85 0.96 0.84 0.85 0.96 0.84 0.85 0.96 0.84 0.86 0.96 0.86 0.86 0.86 0.96 0.96 0.	Analysis Date: 8/2 Result PQL 0.83 0.025 0.98 0.050 0.86 0.050 2.7 0.10 0.95	0.83 0.025 1.000 0.98 0.050 1.000 0.86 0.050 1.000 2.7 0.10 3.000 0.95 ' 1.000 2.7 0.10 3.000 0.95 ' 1.000 SampType: Batch ID: B9U Analysis Date: 8/2/2022 Result PQL SPK value 0.80 0.025 1.000 0.94 0.050 1.000 0.93 0.050 1.000 0.83 0.050 1.000 0.83 0.050 1.000 0.90 . 3.000 0.90 . 1.000 0.83 0.050 1.000 0.84 0.050 1.000 0.84 0.050 1.000 0.84 0.050 1.000 0.86 0.050 1.000 0.86 0.050 1.000 0.86 0.050	Analysis D:: BZL SPK value SPK Ref Val Result PQL SPK value SPK Ref Val 0.83 0.025 1.000 0.01958 0.98 0.050 1.000 0.1296 0.86 0.050 1.000 0.01614 2.7 0.10 3.000 0.1145 0.95 I 0 0.01614 2.7 0.10 3.000 0.1145 0.95 I 0 0.1145 0.95 I 0 0.1145 0.95 I 0 0.1145 Analysis D:: BY SPK value SPK Ref Val 0.80 0.025 1.000 0.1296 0.80 0.025 1.000 0.1296 0.83 0.050 1.000 0.1145 0.90 I 3.000 0.1145 0.91 I I I SampType: EV I I Analysis D: I I I 0.82 0.025 I.000 I	Analysis Date: B/2L/2022 SeqNo:: 32 Result PQL SPK value SPK Ref Val %REC 0.83 0.025 1.000 0.01958 81.0 0.98 0.050 1.000 0.01958 85.0 0.86 0.050 1.000 0.01614 84.6 2.7 0.10 3.000 0.1145 84.7 0.95 I.000 0.01614 84.6 2.7 0.10 3.000 0.1145 84.7 0.95 I.000 0.1145 84.7 0.95 I.000 0.1145 84.7 Analysis Date: 8/2/2022 SeqNo:: 32 Result PQL SPK value SPK Ref Val %REC 0.80 0.025 1.000 0.01614 80.9 2.5 0.10 3.000 0.1145 81.0 0.83 0.050 1.000 0.01614 80.9 2.5 0.10 3.000 0.1145 81.0 0.84 0.050 1.000 81.9 0.84 0.05	Analysis Date: BYZZ022 SeqNo: 32Z9665 Result PQL SPK value SPK Ref Val %REC LowLimit 0.83 0.025 1.000 0.01958 81.0 68.8 0.98 0.050 1.000 0.1296 85.0 73.6 0.86 0.050 1.000 0.01614 84.6 72.7 2.7 0.10 3.000 0.1145 84.7 75.7 0.95 1.000 0.01614 84.6 72.7 0.95 1.000 0.1145 84.7 75.7 0.95 1.000 0.1145 84.7 75.7 0.95 I.000 N01958 73.6 8.68.8 Analysis Date: 8/22/2022 SeqNo: 3229666 73.6 0.83 0.050 1.000 0.1145 80.5 73.6 0.84 0.050 1.000 0.1145 80.5 73.6 0.83 0.050 1.000 0.1145 81.0 75.7 0.93 1.000 0.11614 80.9 72.7 <t< td=""><td>Analysis Date: 8/22/2022 SeqNo: 3229665 Units: mg/K Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit 0.83 0.025 1.000 0.01958 81.0 68.8 120 0.88 0.050 1.000 0.1296 85.0 73.6 124 0.86 0.050 1.000 0.01614 84.6 72.7 126 0.95 0.100 0.01145 84.7 75.7 126 0.95 1.000 0.1145 84.7 75.7 126 0.95 1.000 0.1145 84.7 75.7 126 0.95 1.000 0.11958 73.6 Units: mg/K Analysis Date: 8/2/2/2022 SeqNo: 322966 Units: mg/K Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit 0.80 0.025 1.000 0.01614 80.9 72.7 129 2.5 0.10 3.000 0.1145 81.0 75.7<td>Analysis Date: 8/22/2022 SeqNo: 3229665 Units: mg/Kg Result PQL SPK value SPK Ref Val %REC LowLinit HighLinit %RPD 0.83 0.050 1.000 0.01958 81.0 68.8 120 0.86 0.050 1.000 0.01614 84.6 72.7 129 - 0.86 0.050 1.000 0.01145 84.7 75.7 126 - 0.95 1.000 0.01145 84.7 75.7 126 - - 0.95 1.000 0.01145 84.7 75.7 126 - - SampType: MSEV2/2022 SeqNo: 3229665 Units: mg/Kg Analysis Date: 8/22/2022 SeqNo: 3229665 Units: mg/Kg 0.80 0.025 1.000 0.01958 77.8 68.8 120 3.92 0.84 0.050 1.000 0.01614 80.9 72.7 129 4.39 2.5 0.10 3.000 0.1145 81.0<td>Analysis Date: B/2Z/2022 SeqNo: 3229665 Units: mg/Kg Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit 0.98 0.050 1.000 0.01958 81.0 68.8 120 124 124 124 124 124 124 124 124 124 125 120 1</td></td></td></t<>	Analysis Date: 8/22/2022 SeqNo: 3229665 Units: mg/K Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit 0.83 0.025 1.000 0.01958 81.0 68.8 120 0.88 0.050 1.000 0.1296 85.0 73.6 124 0.86 0.050 1.000 0.01614 84.6 72.7 126 0.95 0.100 0.01145 84.7 75.7 126 0.95 1.000 0.1145 84.7 75.7 126 0.95 1.000 0.1145 84.7 75.7 126 0.95 1.000 0.11958 73.6 Units: mg/K Analysis Date: 8/2/2/2022 SeqNo: 322966 Units: mg/K Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit 0.80 0.025 1.000 0.01614 80.9 72.7 129 2.5 0.10 3.000 0.1145 81.0 75.7 <td>Analysis Date: 8/22/2022 SeqNo: 3229665 Units: mg/Kg Result PQL SPK value SPK Ref Val %REC LowLinit HighLinit %RPD 0.83 0.050 1.000 0.01958 81.0 68.8 120 0.86 0.050 1.000 0.01614 84.6 72.7 129 - 0.86 0.050 1.000 0.01145 84.7 75.7 126 - 0.95 1.000 0.01145 84.7 75.7 126 - - 0.95 1.000 0.01145 84.7 75.7 126 - - SampType: MSEV2/2022 SeqNo: 3229665 Units: mg/Kg Analysis Date: 8/22/2022 SeqNo: 3229665 Units: mg/Kg 0.80 0.025 1.000 0.01958 77.8 68.8 120 3.92 0.84 0.050 1.000 0.01614 80.9 72.7 129 4.39 2.5 0.10 3.000 0.1145 81.0<td>Analysis Date: B/2Z/2022 SeqNo: 3229665 Units: mg/Kg Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit 0.98 0.050 1.000 0.01958 81.0 68.8 120 124 124 124 124 124 124 124 124 124 125 120 1</td></td>	Analysis Date: 8/22/2022 SeqNo: 3229665 Units: mg/Kg Result PQL SPK value SPK Ref Val %REC LowLinit HighLinit %RPD 0.83 0.050 1.000 0.01958 81.0 68.8 120 0.86 0.050 1.000 0.01614 84.6 72.7 129 - 0.86 0.050 1.000 0.01145 84.7 75.7 126 - 0.95 1.000 0.01145 84.7 75.7 126 - - 0.95 1.000 0.01145 84.7 75.7 126 - - SampType: MSEV2/2022 SeqNo: 3229665 Units: mg/Kg Analysis Date: 8/22/2022 SeqNo: 3229665 Units: mg/Kg 0.80 0.025 1.000 0.01958 77.8 68.8 120 3.92 0.84 0.050 1.000 0.01614 80.9 72.7 129 4.39 2.5 0.10 3.000 0.1145 81.0 <td>Analysis Date: B/2Z/2022 SeqNo: 3229665 Units: mg/Kg Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit 0.98 0.050 1.000 0.01958 81.0 68.8 120 124 124 124 124 124 124 124 124 124 125 120 1</td>	Analysis Date: B/2Z/2022 SeqNo: 3229665 Units: mg/Kg Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit 0.98 0.050 1.000 0.01958 81.0 68.8 120 124 124 124 124 124 124 124 124 124 125 120 1

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 range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Page	70	of	72
		~ <i>J</i>	· -

ANALYSIS LABORATORY TEL: 50	wironmental Analysis Labora 4901 Hawkin: Albuquerque, NM 87 05-345-3975 FAX: 505-345-4 site: www.hallenvironmental.	s NE 7109 San 7107 .	nple Log-In Check List
Client Name: ENSOLUM Work Ord	ler Number: 2208C59		RcptNo: 1
Received By: Tracy Casarrubias 8/20/2022 8	3:45:00 AM		
Completed By: Tracy Casarrubias 8/20/2022 8	3:59:36 AM		
Reviewed By: See 8/20/22			
Chain of Custody			
1. Is Chain of Custody complete?	Yes 🗹	No 🗌	Not Present
2. How was the sample delivered?	Courier		
Log In 3. Was an attempt made to cool the samples?	Yes 🔽	No 🗌	
4. Were all samples received at a temperature of $>0^{\circ}$ C to 6.	0°C Yes ✔	No 🗌	
5. Sample(s) in proper container(s)?	Yes 🔽	No 🗌	
6. Sufficient sample volume for indicated test(s)?	Yes 🔽	No 🗌	
7. Are samples (except VOA and ONG) properly preserved?	Yes 🔽	No 🗌	
8. Was preservative added to bottles?	Yes 🗌	No 🔽	NA 🗌
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes 🗌	No 🗌	NA 🔽
10. Were any sample containers received broken?	Yes 🗆	No 🗹	# of preserved
 Does paperwork match bottle labels? (Note discrepancies on chain of custody) 	Yes 🔽	No 🗌	bottles checked for pH: (<2 or >12 unless noted)
12. Are matrices correctly identified on Chain of Custody?	Yes 🔽	No 🗌	Adjusted?
13. Is it clear what analyses were requested?	Yes 🔽	No 🗌	
 Were all holding times able to be met? (If no, notify customer for authorization.) 	Yes 🗹	No 🗆	Checked by: TVLC 8/20
Special Handling (if applicable)			_
15. Was client notified of all discrepancies with this order?	Yes	No 🗌	NA 🗹
Person Notified:	Date:		
By Whom:	Via: 🗌 eMail 🗌 Ph	ione 🗌 Fax	In Person
Regarding: Client Instructions:			
16. Additional remarks:			
17. <u>Cooler Information</u> Cooler No Temp °C Condition Seal Intact Sea	al No Seal Date	Signed By	
1 0.5 Good Yes		J	

Client: Ensalum, LLC Mailing Address: 606 S. C. Grande, Sullet Arther, M. & 7410	Turn-Around Time: Standard KRush 1004. Dry Project Name: Federal 3-11-28 #3 Project #:	HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107
Phone #:	Project Manager: K. Sinnumers	Analysis Request O / MRO) O / MRO) O / MRO) O / MRO) SIMS PO4, SO4, SO4, SO4, SO4, SO4, SO4, SO4, S
Accreditation: Az Compliance DEDD (Type)	Sampler: On Ice: Yes INO # of Coolers: Cooler Temp(including CF): 0.6-0.120.5 (°C)	BE / TMB (GRO / DR ides/8082 bd 504.1) 10 or 827(10 or 827(.10 o
Date Time Matrix Sample Name	Container Type and #Preservative TypeHEAL No. 2208C591477 artCool	 BTEX / MF TPH:8015D 8081 Pestic 8260 (VOA) 8270 (Semi-
8/19/2410:05 5 5-2	1 222) ar (201 001 002	
5/19/22-10:101 5 5-3 5/19/22-10:15 5 5-4	003	
8/19/22-10:20 5 5-5	005	
Date: Time: Relinquished by: Date: Time: Relinquished by: Date: Time: Relinquished by: 19/22 19/22 Min the Watter	Received by: Via: CO Date Time Bizolar 8:45	Remarks: PM Tom Long Paykey RBZ1200 Non AFE # N60572

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

U

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

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

District III

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

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

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

CONDITIONS

Operator:		OGRID:
	Enterprise Field Services, LLC	241602
	PO Box 4324	Action Number:
	Houston, TX 77210	161903
		Action Type:
		[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By		Condition Date
nvelez	None	12/9/2022

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Action 161903