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) nAPP2307927327
Contact mailing address: 614 Reilly Ave, Farmington, NM 87401	

Location of Release Source

Latitude 36.557716

Longitude -107.892107

(NAD 83 in decimal degrees to 5 decimal places)

)

Site Name Lateral 2A-2	Site Type Natural Gas Gathering Pipeline
Date Release Discovered: 03/20/2023	Serial Number (<i>if applicable</i>): N/A

Unit Letter	Section	Township	Range	County
Ι	21	27N	10W	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 BBLs	Volume Recovered (bbls): None
Natural Gas	Volume Released (Mcf): 8.23 MCF	Volume Recovered (Mcf): None
Other (describe)	Volume/Weight Released (provide units):	Volume/Weight Recovered (provide units)

Cause of Release: On March 20, 2023, Enterprise had a release of natural gas and natural gas liquids from the Lateral 2A-2 pipeline. The pipeline was isolated, depressurized, locked and tagged out. No fire nor injuries occurred. Release liquids flowed approximately 50 feet to the southwest entering an ephemeral wash. Repairs and remediation were completed on January 30, 2023. The final excavation dimensions measured approximately 12 feet long by seven feet wide by 4.5 feet deep. A total of 24 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.

Page 2

Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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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 items mu	ist be included in the closure report.
A scaled site and sampling diagram as described in 19.15.29.11 NMA	С
Photographs of the remediated site prior to backfill or photos of the limust be notified 2 days prior to liner inspection)	ner integrity if applicable (Note: appropriate OCD District office
Laboratory analyses of final sampling (Note: appropriate ODC Distric	t office must be notified 2 days prior to final sampling)
Description of remediation activities	
I hereby certify that the information given above is true and complete to the and regulations all operators are required to report and/or file certain release may endanger public health or the environment. The acceptance of a C-141 should their operations have failed to adequately investigate and remediate human health or the environment. In addition, OCD acceptance of a C-141 compliance with any other federal, state, or local laws and/or regulations. The restore, reclaim, and re-vegetate the impacted surface area to the conditions accordance with 19.15.29.13 NMAC including notification to the OCD who	e notifications and perform corrective actions for releases which report by the OCD does not relieve the operator of liability contamination that pose a threat to groundwater, surface water, report does not relieve the operator of responsibility for The responsible party acknowledges they must substantially that existed prior to the release or their final land use in
Printed Name: Thomas Long Title: See	nior Environmental Scientist
Signature:	Date: <u>06-12-2023</u>
	(505) 599-2286
OCD Only	
Received by:	Date:
Closure approval by the OCD does not relieve the responsible party of liabil remediate contamination that poses a threat to groundwater, surface water, he party of compliance with any other federal, state, or local laws and/or regula	uman health, or the environment nor does not relieve the responsible
Closure Approved by: <u>Nelson Velez</u> Printed Name: Nelson Velez	Date:06/13/2023
Printed Name: Velson Velez	Title: _ Environmental Specialist – Adv





CLOSURE REPORT

Property:

Lateral 2A-2 (03/20/23) Unit Letter I, S21 T27N R10W San Juan County, New Mexico

New Mexico EMNRD OCD Incident ID No. NAPP2307927327

June 8, 2023

Ensolum Project No. 05A1226232

Prepared for:

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

Prepared by:

Chad D'Aponti Project Scientist

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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4.0	SOIL SAMPLING PROGRAM
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	Figure 2: Site Vicinity Map
	Figure 3: Site Map with Soil Analytical Results

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- Appendix C Executed C-138 Solid Waste Acceptance Form
- Appendix D Photographic Documentation
- Appendix E Regulatory Correspondence
- Appendix F Table 1 Soil Analytical Summary
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1.0 INTRODUCTION

1.1 Site Description & Background

Operator:	Enterprise Field Services, LLC / Enterprise Products Operating LLC (Enterprise)
Site Name:	Lateral 2A-2 (03/20/23) (Site)
NM EMNRD OCD Incident ID No.	NAPP2307927327
Location:	36.557716° North, 107.892107° West Unit Letter I, Section 21, Township 27 North, Range 10 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 March 19, 2023, Enterprise identified a potential release of natural gas from the Lateral 2A-2 pipeline. Enterprise subsequently isolated and locked the pipeline out of service. On March 20, 2023, Enterprise determined the release was "reportable" due to the estimated volume of impacted soil. The NM EMNRD OCD was subsequently notified. On March 27, 2023, Enterprise initiated activities to repair the pipeline and remediate petroleum hydrocarbon impact.

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 were identified in the same Public Land Survey System (PLSS) section as the Site or in the adjacent PLSS sections (Figure A, Appendix B).
- Eleven cathodic protection wells (CPWs) were identified in the NM EMNRD OCD imaging database in the same PLSS section as the Site and in the adjacent PLSS sections. These CPWs are depicted on **Figure B** (Appendix B). Two of the closest CPWs are located less

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than 0.25 miles from the Site. Documentation for the cathodic protection well located near the Johnson #2 well location indicates a depth to water of approximately 120 feet below grade surface (bgs). This cathodic protection well is located approximately 0.18 miles southwest of the Site and is approximately 20 feet lower in elevation than the Site. Documentation for the cathodic protection well located near the Gordon #5 well location indicates a depth to water of approximately 115 feet bgs. This cathodic protection well is located approximately 0.24 miles southeast of the Site and is approximately 10 feet higher in elevation than the Site.

- The Site is located within 300 feet of a NM EMNRD OCD-defined continuously flowing watercourse or significant watercourse (**Figure C**, **Appendix B**).
- The Site is not located within 200 feet of a lakebed, sinkhole, or playa lake.
- The Site is not located within 300 feet of a permanent residence, school, hospital, institution, or church (Figure D, Appendix B).
- No springs, or private domestic freshwater wells used by less than five households for domestic or stock watering purposes were identified within 500 feet of the Site (Figure E, Appendix B).
- No freshwater wells or springs were identified within 1,000 feet of the Site (Figure E, Appendix B).
- The Site is not located within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to New Mexico Statutes Annotated (NMSA) 1978, Section 3-27-3.
- Based on information identified in the U.S. Fish & Wildlife Service National Wetlands Inventory Wetlands Mapper, the Site is not within 300 feet of a wetland (**Figure F**, **Appendix B**).
- Based on information identified in the NM Mining and Minerals Division's Geographic Information System (GIS) Maps and Mine Data database, the Site is not within an area overlying a subsurface mine (**Figure G**, **Appendix B**).
- The Site is not located within an unstable area per Paragraph (6) of Subsection U of 19.15.2.7 NMAC.
- Based on information provided by the Federal Emergency Management Agency (FEMA) National Flood Hazard Layer (NFHL) geospatial database, the Site is not within a 100-year floodplain (**Figure H**, **Appendix B**).

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

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

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

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 March 27, 2023, Enterprise initiated activities to repair the pipeline and remediate petroleum hydrocarbon impact resulting from the release. During the remediation and corrective action activities, Industrial Mechanical Inc (IMI), provided heavy equipment and labor support, while Ensolum provided environmental consulting support.

The final excavation measured approximately 12 feet long and 7 feet wide at the maximum extent. The maximum depth of the excavation measured approximately 4.5 feet bgs. The flow path measured approximately 100 feet long and 1 foot wide. The lithology encountered during the completion of remediation activities consisted primarily of silty sandy clay.

Approximately 24 cubic yards (yd³) of petroleum hydrocarbon-affected soils 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**. After acceptable analytical results were obtained, 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 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 and two flow path composite soil samples (FP-1 and FP-2) for laboratory analysis. The composite samples were comprised of five aliquots each and represent an estimated 200 square foot (ft²) or less sample area per guidelines outlined in Section D of 19.15.29.12 NMAC. Hand tools were utilized to obtain fresh aliquots from each area of the excavation. Regulatory correspondence is provided in **Appendix E**.

Sampling Event

On March 28, 2023, sampling was performed at the Site. The NM EMNRD OCD was notified of the sampling event although no representative was present during sampling activities. Composite soil sample S-1 (4.5') was collected from the floor of the excavation. Composite soil samples S-2 (0'-4.5'), S-3 (0'-4.5'), S-4 (0'-4.5'), and S-5 (0'-4.5'), were collected from the walls of the excavation. Two composite soil samples (FP-1 (0.25') and FP-2 (0.25')) were collected from the flow path to confirm the soil did not exhibit petroleum hydrocarbon impact.

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



5.0 SOIL LABORATORY ANALYTICAL METHODS

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

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

6.0 SOIL DATA EVALUATION

Ensolum compared the benzene, BTEX, TPH, and chloride laboratory analytical results or laboratory practical quantitation limits (PQLs) / reporting limits (RLs) associated with the composite soil samples (S-1 through S-5, FP-1, and FP-2) to the applicable NM EMNRD OCD closure criteria. The laboratory analytical results are summarized in **Table 1** (**Appendix F**).

- The laboratory analytical results for the composite soil samples indicate benzene is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the applicable NM EMNRD OCD criteria of 10 mg/kg.
- The laboratory analytical results for the composite soil samples indicate that total BTEX is not present in concentrations greater than the laboratory PQLs/RLs, which are less than the applicable NM EMNRD OCD closure criteria of 50 mg/kg.
- The laboratory analytical results for the composite soil samples indicate total combined TPH GRO/DRO/MRO is not present in concentrations greater than the laboratory PQLs/RLs, which are less than the applicable NM EMNRD OCD closure criteria of 100 mg/kg.
- The laboratory analytical results for the composite soil samples indicate chloride is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the applicable NM EMNRD OCD criteria of 600 mg/kg.

7.0 RECLAMATION AND REVEGETATION

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

8.0 FINDINGS AND RECOMMENDATION

- Seven composite soil samples were collected from the Site. Based on laboratory analytical results, no benzene, total BTEX, chloride, or combined TPH GRO/DRO/MRO exceedances were identified in the soils remaining at the Site.
- Approximately 24 yd³ of petroleum hydrocarbon-affected soils 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.

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9.0 STANDARDS OF CARE, LIMITATIONS, AND RELIANCE

9.1 Standard of Care

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

9.2 Limitations

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

9.3 Reliance

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





APPENDIX A

Figures

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APPENDIX B

Siting Figures and Documentation

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

No records found.

PLSS Search:

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

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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DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS NORTHWESTERN NEW MEXICO	
perator Meridian Oil Co Location: Unit K Sec. 17 Twp 27	Rng <u>/ 0</u>
ame of Well/Wells or Pipeline Serviced	
Rowley # 155 And # 5	، ب
levationCompletion Date 2-17-93 Total Depth 412 Land Type /	
Casing Strings, Sizes, Types & Depths 2/6 SET 99 OF 3" PVC CAS	
NO GAS, WATER, OF BOULders Where ENCOUNTERED DURING CA	、 •
If Casing Strings are cemented, show amounts & types used <u>Cemen</u>	Ted
WITH 22 SACKS.	
If Cement or Bentonite Plugs have been placed, show depths & amount	ts used
No plags	
Depths & thickness of water zones with description of water: Fresh	
Salty, Sulphur, Etc. 160'and 260' bo th zones were	<u>د</u>
clear.	
Depths gas encountered: No gas	
Ground bed depth with type & amount of coke breeze used: $\frac{4}{3}$.46
60 (10016) sacks of Loresco S W.	
Depths anodes placed: $\frac{\#/a+380'an0}{15a+180'}$	
Depths vent pipes placed: Bottom to Surface	
Vent pipe perforations: $d_p \neq 180'$ DEGENE	
Remarks:	
OIL CON. OV.	
ols: ?	

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

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

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			:	TECH, In
	LA	BORATORY REPORT		333 East Ma
	01L-F	IELD WATER ANALY	YSIS	Farmingto New Moxic 8/40 505/327-33
Client:	25930315-01 Meridian Oil Rowley #155 K17-27-10	2447W Broundbed	Date Sampled: Date Received: Date Analyzed: Date Reported:	02-17-93 03-15-93 03-15-93
DISSOLVED SO	DLIDS:	me/L.	mg/∟ Լ	Detection _imit; mg/L
Calcium, Ca	L.T.	4.7		1.0
Magnesium, la		0.2	2	1.0
Sodium, Na+		ND	ND	10.0
Chloride, C		Ó ,4	13	2.0
Sulfate, SO		1.4	68	5.0
Bicarbonate		1.0	51	5.0
Carbonate,C		2.0	60	1.0
Hydroxide, (ND	ND	1.Q
Total Disso	lved Solids (o	alculated):	295	10.0
OTHER PROPE	RTIES:			
	y (ohm-meters) avity at 60F:			
room temper	ature (F):	72		
ND = Not De	tected at the	atated dectecti	on limit	
Commentar	Fruitland Co San Juan Cou Sampled by R	ty, New Mexico		
Methods:			, "Recommended P ters;" 2nd aditi	

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LABORATORY REPORT

OIL-FIELD WATER ANALYSIS

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

Lab Number: 25930315 Client: Meridian Sample ID: Rowley # Location: K17-27-1	0il ²⁴⁴⁷ 155 Groundbed	Date Sampled: Date Received Date Analyzed Date Reported	1: 03-15-93 1: 03-15-93
DISSOLVED SOLIDS;	me/L	mg/L	Detection Limit, mg/L
Calcium, Ca++ Magnesium, Mg++ Sodium, Na+ (calc)	4.7 0.2 ND	95 2 ND	1.0 1.0 10.0
Chloride, Cl- Sulfate, SO4 Bicarbonate, HCO3- Carbonate,CO3 Hydroxide, OH-	0.4 1.4 1.0 2.0 ND	13 68 61 60 ND	2.0 5.0 5.0 1.0 1.0
Total Dissolved Sol: OTHER PROPERTIES:	ids (calculated):	295	10.0
pH (units): reisistivity (ohm-me specific gravity at			
room temperature (F): 72		
ND = Not Detected a	t the stated dectectio	on limit	
	nd Coal n County, New Mexico by R. Smith		
	n Petroleum Institute. lysis of Oil-Field Wat		

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Received by OCD: 6/12/2023 1:29:34 PM Page 29 of 83 -045-13472 DATA SHEET FOR DEEP GROUND BED CATHODIC. PROTECTION WELLS NORTHWESTERN NEW MEXICO Operator Meridian Oil INC. Location: Unit I Sec. 17 Two 27 Ray 10 Name of Well/Wells.or Pipeline Serviced iOKin #7 Elevation 5965 Completion Date 9/23/93 Total Depth 436 Land Type F Casing Strings, Sizes, Types & Depths 6/29 Set 60 078" PUC CASING. No GAS. WATER OF Boulders Were ENCOUNTERed During CASING. If Casing Strings are cemented, show amounts & types used Cemented WITH 19 SACKS. If Cement or Bentonite Plugs have been placed, show depths & amounts used NONE Depths & thickness of water zones with description of water: Fresh. Clear, Salty, Sulphur, Etc. HIT FLESH WATER AT 65 A WATER SAMPLE WAS TAKEN. Depths gas encountered: NON e Ground bed depth with type & amount of coke breeze used: 436 DenTH Used 123 SACKS OF ASbury 218R (6150*) Depths anodes placed: 405, 373, 363, 355, 348, 341, 333, 326, 205, 195, 183, 175, 165, 155 +14 Depths vent pipes placed: Surface To 436. Vent pipe perforations: Bottom 320. JAN 31 1994 Remarks: OIL CON. DIV. DIST.

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

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

Received by OCD: 6/12/2023 1:29:34 PM Page 30 of 83 37/7 ri : -?, DATA SHEET FOR DEEP GROUND BED CATHODIC. PROTECTION WELLS NORTHWESTERN NEW MEXICO 30-045-06368 Operator Meridian Oil Co Location: Unit I Sec. 20 Twp 27 Rng/0 Name of Well/Wells or Pipeline Serviced Mc Adams #4 Elevation 6242 Completion Date 2-8-93 Total Depth 395 Land Type F Casing Strings, Sizes, Types & Depths 2/6 Set 100 OF 8" PVC (Asing NO GAS, WATER, Or Boulders Were ENCOUNTERED DURING CASING If Casing Strings are cemented, show amounts & types used ComenTea WITH 21 SACKS If Cement or Bentonite Plugs have been placed, show depths & amounts used No plugs . Depths & thickness of water zones with description of water: Fresh, Clear, Salty, Sulphur, Etc. 180 and 275' bath zones clear Depths gas encountered: $\frac{No}{2} = 5$ Ground bed depth with type & amount of coke breeze used: $395' \omega i + 6$ 57 (10016) sacks of Loresco S.W. Depths anodes placed: #/ at 375'and #15 at 305 Depths vent pipes placed: Bottom to surface BERINE Vent pipe perforations: $\frac{\omega_{p}}{10}$ fo 160'. TAN 3 1 1994 Remarks: OIL CUIN. DIV.T DIST. 3

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

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

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Page 31 of 83

	TECH, Inc. 333 East Main Farmington New Mexico 87401
	505/327-3311
pled: eived: lyzed: orted:	02-18-93 03-15-93 03-15-93 03-18-93

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LABORATORY REPORT

DIL-FIELD WATER ANALYSIS

Client:		J461W groundbed	Date Sampl Date Recei Date Analy Date Repor	ved: zed:	03~15-93
DISSOLVED S	GLIDS:	me/L	mg/1	Li	etection mit, mg/L
Calcium. Ca	1 .1	5.8	116		1.0
Magnesium.		0.2	2		1.0
Sodium, Na+	_	15.7	.360		5.0
Chloride, C	1 ~~	. 4	14		2.0
Sulfate, SC		18.0	866		5.0
Bicarbonate		2.8	171		5.0
Carbonate,C		0.4	12		1.0
Hydroxide,		0.0	Ò		1.0
Total Diese	lved Snlide (c	alculated):	1.540		10.0
, –	ature (F);	72			
ND = Not De Comments:	Fruitland Coa	ity, New Mexico	ion limit		
Methods #		oleum Institut of Dil-Field W			
Sel. Let	la	num:rs dat 5 (84) P1			

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LABORATORY REPORT

OIL-FIELD WATER ANALYSIS

TECH, Inc. 333 East Main Farmington New Mexico 87401

505/327-3311

10.0

Lab Number:	25930315-03 Meridian Oil 2461 W	Date Sampled:	
Client:	Meridian Oil 2961	Date Received:	03-15-93
Sample ID:	McAdams #4 groundbed	Date Analyzed:	03-15-93
Location:	F20-27-10	Date Reported:	03-18-93
,		,	

DISSOLVED SOLIDS:			Detection
	me/L	mg∕L	Limit, mg/L
Calcium, Ca++	5.8	116	1.0
Magnesium, Mg++	0.2		1.0
Sodium, Na+ (calc)	15.7	360	5.0
Chloride, Cl-	0.4	1.4	2.0
Sulfate, SO4	18.0	866	5.0
Bicarbonate, HCO3-	2.8	171	5.0
Carbonate,CO3	O,4	12	1.0
Hydroxide, OH-	0.0	0	1.0

Total Dissolved Solids (calculated): 1,540

OTHER PROPERTIES:

pH (units):	8.2
reisistivity (ohm-meters):	4.8
specific gravity at 60F:	1.0059

room temperature (F): 72

ND = Not Detected at the stated dectection limit

Comments: Fruitland Coal San Juan County, New Mexico Sampled by R. Smith

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

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yed by OCD: 6/12/2023 1:29:34 PM	Page.
5 - ²⁴ -	#501 30-045-28518
	EP GROUND BED CATHODIC.PROTECTION WELLS ORTHWESTERN NEW MEXICO
Operator Meridian ()il	<u>CE</u> Location: Unit <u>N</u> Sec. <u>20</u> Twp <u>27</u> Rng <u>10</u>
Name of Well/Wells or Pipel	ine Serviced
Rowley #501	
ElevationCompletion Da	te <u>2-18.93</u> Total Depth <u>373</u> Land Type
Casing Strings, Sizes, Type	es & Depths 2/5 Set 99 Of 8" PUC CASING.
NO GRS, WATER, OF Bould	lers Were ENCOUNTERED DULTING CASING.
	nted, show amounts & types used Cemented
WITH 21 SACKS.	
If Cement or Bentonite Plug	gs have been placed, show depths & amounts used
. (0	
/	r zones with description of water: Fresh, Clea
Salty, Sulphur, Etc. 130	fresh
Salty, Sulphur, Etc. <u>130</u>	fresh
۰	
Depths gas encountered:	NONC
Depths gas encountered:	
Depths gas encountered: Ground bed depth with type 	NONC & amount of coke breeze used: <u>373' 5154cks</u> 3 343 (3) 335 (4) 327 (5) 320 (6) 314 (1) 305 (8) 275 (9) 180
Depths gas encountered: Ground bed depth with type DS LoceSco Depths anodes placed:	NONC & amount of coke breeze used: <u>373'</u> <u>51 Sacks</u> (2) 343 (3) 335 (4) 327 (5) 320 (2) 314 (7) 305 (8) 275 (9) 180 170 (1) 150 (2) 140 (3) 133 (4) 125 (5) 118
Depths gas encountered: Ground bed depth with type <u>OS</u> Depths anodes placed: Depths vent pipes placed:	NONC & amount of coke breeze used: $373' 5154cKS$ (a) 343 ((a) 335 ((j) 327 ((c) 329 ((b) 314 ((b) 305 ((b) 275 ((c) 180 170 ((b) 150 ((c) 140 ((c) 133 ((f) 125 ((c) 118 373'
Depths gas encountered: Ground bed depth with type <u>of locesco</u> Depths anodes placed: Depths vent pipes placed: Vent pipe perforations:B	NONC 6 amount of coke breeze used: $373' 5154cKS$ 3343 (3) 335 (4) 327 (5) 320 (6) 314 (1) 305 (8) 275 (4) 180 170 (1) 150 (2) 140 (13) 133 (4) 125 (15) 118 373' 373' BEFEIVED IAN 37 1994
Depths gas encountered: Ground bed depth with type 	NONC 6 amount of coke breeze used: $373' 5154cKS$ 3343 (3) 335 (4) 327 (5) 320 (6) 314 (1) 305 (8) 275 (4) 180 170 (1) 150 (2) 140 (13) 133 (4) 125 (15) 118 373' 373' BEFEIVED IAN 37 1994

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

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



LABORATORY REPORT

OIL-FIELD WATER ANALYSIS

me∕L

2.2

0.2

86.2

0.2

87.8

0,8

0.4

ND

mg/L

43.3

2.0

7.8

2,000

4,220

48.8

12.0

6,330

ND

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

02-18-93

02-20-93

02-20-93

02-21-93

Detection

Limit, mg/L

1.0

1.0

5.0

2.0

5.0

5.0

1.0

1.0

10.0

Lab Number:930220-4Date Sampled:Client:Meridian OilDate Received:Sample ID:Rowley #501Date Analysed:Location:N20-27-10Date Reported:

DISSOLVED SOLIDS:

Calcium, Ca++ Magnesium, Mg++ Sodium, Na+ (calc)

Chioride, Cl-Sulfate, 504--Bicarbonate, HCO3-Carbonate,CO3--Hydroxide, OH-

Total Dissolved Solids (calculated):

OTHER PROPERTIES:

pH (units): 8.7 reisistivity (ohm-meters): 6.2 specific gravity at 60F: 1.0039

room temperature (F): 72

ND = Not Detected at the stated dectection limit

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

Comments: DK, DK, PC: SJ, NM; Groundbed Sampled by K. Bishop

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			5725	
DATA SHEE	T FOR DEEP GROUND I NORTHWESTER	BED CATHODIC.PRO N NEW MEXICO	TECTION WELLS	
Operator Meridia				Rng 10
Name of Well/Wells. Mc AdAms #500				
Elevation Compl				······································
Casing Strings, Si				
NO GAS, WATER, O	1	•		
If Casing Strings a	1 · · · · · · · · · · · · · · · · · · ·			
WITH 14 SACKS	-			
If Cement or Bento	nite Plugs have bee	en placed, show	depths & amount	s used
Salty, Sulphur, Et	- 1	t	f water: Fresh	, Clear,
Depths gas encount	ered:NÙ			
Ground bed depth w with 530	o lbs Asbury 21		sed: <u>362' d</u>	<u>e e p</u>
Depths anodes plac	· · · · · · · · · · · · · · · · · · ·		24, 200, 191, 182,1	73,115
Depths vent pipes	placed: 362	· · · · · · · · · · · · · · · · · · ·		
Vent pipe perforat	,	m 28U	DECENT	^b U
Remarks:	······································		UN JAN 31 1994	
			OIL CON. D	NA ·
	,		DIST: S	

If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should e 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 36 of 83 .Received by OCD: 6/12/2023 1:29:34 PM 105-30-045-06210 Ξ DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS NORTHWESTERN NEW MEXICO (Submit 3 copies to OCD Aztec Office) Operator MERIDIAN OIL Location: Unit SE Sec. 29 Twp 27 Rng 10 Name of Well/Wells or Pipeline Serviced HUERFANO UNIT #105 cps 1736w Elevation 6054'Completion Date 11/14/84 Total Depth 200' Land Type* N/A Casing, Sizes, Types & Depths_____N/A If Casing is cemented, show amounts & types used N/A If Cement or Bentonite Plugs have been placed, show depths & amounts used N/A Depths & thickness of water zones with description of water when possible: Fresh, Clear, Salty, Sulphur, Etc. 40' SAMPLE TAKEN Depths gas encountered: N/A Type & amount of coke breeze used: 1970 lbs. Depths anodes placed: 185', 170', 155', 140', 125', 110', 100', 90', 80', 58' 200' Depths vent pipes placed:

 Vent pipe perforations:
 180'
 MAY 31 1991

 Remarks:
 /gb #1
 Oil CON. DiV.j

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

*Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee. If Federal or Indian, add Lease Number.
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FM-07-0238 (Rev.: 10-82)

و الاستخدار المحمولية في المحمولية المراجع	WELL CASING	
CATHODIC PROT	ECTION CONSTRUCTION RE	PORT
	DAILY LOG	

Page 37 of 83

Drilling Log (Attach F	lereto)				-	C	omplețion I	Date //-/	4
CPS #	Well Name	, Line or Plant:		Worl	c Order #	Statuc		Ins. Union Che	ck
	11:0	rfano # /	205	52	3658-19-50-	20 Rr= s	2 1.00' N.		d Bad
1736-W								528 m	at
Location: SE:29-27-		anode Size	·· Anode Typ	c.		Size Bit:			
Depth Drilled	Depth I	ogged	Drilling Rig Time		Total Lbs. Goke Used		n Mat'l Used	No. Sacks Muc	I Used
Anode Depth		<u>97^{°.} </u>	- <u></u>	I	1,970				
# 1/85 # 2 Anode Output (Amps	170	# 3 155	# 4 140	# 5/2	# 6/10	# 7 100	# 8 90	# 9 80	# 10 S S
	493	# 34.75	# 44.95	¦∗ 5.15	5 # 65.06	4 7 5.4 2	5.00	#944	5 1 104.80
Anode Depth #11 #12	, ,	# 13	¦# 14	# 15	# 16	# 17	# 18	# 19	# 20
Anode Output (Amps		1	+		1		+ * 10 	- ^{# 15}	#, 20
# 11 # 12 Total Circuit Resist		# 13	# 14	# 15	# 16 No. 8 C.P. Co	# 17 Ible Used	# 18	# 19 /. No. 2 C.P.	# 20 Cable Used
Volts 12.1	1	»s`2 <u>0.0</u>	Ohms	60					n in a start and a start a and a start and a start and and a start and
	ght i	where s	mple.		Reg Time		All Constru	ection Comple	eted
Extra Cable: Ditch & 1 Cable:_ 5'Meter Pole:_ 0' Meter Pole:_ 0' Stub Pole:	/93 324 		s and s an	ROUND BE	ED LAYOUT SKE		u: Norisi	gnature)	
	J.	3418	Б ⁴ -			Ð	ł	۵۰ ۱۹۰۱ ۱۹۰۱ ۱۹۰۱ ۱۹۰۱ ۱۹۰۱ ۱۹۰۱ ۱۹۰۱ ۱۹	
					4- 	6054			

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•			O NATURAL GA		
•			AN JUAN DIVIS AINGTON, NEW I		
		PRODUCTION DE	EPARTMENT WAT	ER ANALYSES	
	ANALYSIS NO.: 1-1150 CPERATOR: AL PASO NA LOCATION: 19-27-10		DATE: DECE WELL NAME: 1 CCUNTY SAN 4	HUERFAND #105 C	PSICE NEW MEXICO
	FILLD: PIGEL PEAR SanPled From: 40 FEE		FORMATION:		
	OATE SAMPLED: NOVEME TUBING PRESSURE: SURFACE CASING PRESS	MBER 14,1984	SECURED BY: CASING PRES		
		SAMPLE SIZE	mi. TIF	:AS CaCOJ	AS ION
	TOTAL ALPALINITY	·	10.5		
	PHALMALINITY Sillar Bond Fe	2.0 3.0	.8 .4	40 445	1 21 21 21 21 21 21 21 21 21 21 21 21 21
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	HAGNESIUN LAGNESIUN	:215	O	. O	Θ
	REDIUM (CALCULATED) - RES		-		426 18.
	HYDR JCARBONS				
	JUTAL DISSOLVED SOLI	D'3			1694
	SFECIFIC GRAVITY			AT 60F	
	HELISIIVIIV CONDUCTIVITV			OHN-CM AT 7: MICROMHOS @	
	ALL RESULTS E	verseen in pa		ON-TRACE IS LES	
	CC: R. A. ULLMICH		17°, 1992, 1998, 1998, 1998, 1998, 1998, 1998, 1998, 1998, 1998, 1998, 1998, 1998, 1998, 1998, 1998, 1998, 1998	LUD9))))PPLotes 3.00 Lotes	55 HHAN OTI pp
	J. D. EVANG				
	J. C. ÁDAMS E. R. PAULEM				
	W. B. SHROPSH	LFE		R2 -	\mathcal{D} · \mathcal{I}
	the first term			Lennis	DADA
	۰.			CHEMIS	₅⊺GCK
	25 20 15	10 5	0 · · · 5 · ·	10: 15: 20	
•	20 Na				
					HCO2 10
					Son 10
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CONSTRUCTION: LOGGING READINGS

CPS #: 1736- w WELL NAME: Huerfano# 105 LOCATION: 5E29.27-10DATE: //-14-84

TOTAL VOLTS: 12.1 TOTAL AMPS: 20.0 Readings 109900 Thru 2,400' Spool

OHMS RESISTANCE: . 60

+ --- Base 39 a

المان المراجع المراجع

	ANODE											NODE RI	EADINGS	
	P 110-	1	LOG ANODE	ANODE NO.		LOG ANODE	ANODE No.		LOG ANODE	ANODE No.	NO.	DEPTH	NO COKE	WITH COKE
		185	2.08	0	365			545		,	\bigcirc	185	2.90	4.44
			1.92		370			550			9	170	2.95	4.93
		190 1 97 195	τD		375			555			3	155	3.03	4.75
		200			380			, 560			A	140	3.12	4.95
		205			385			565			3	125	3.20	5.15
											~			5.06
														5.42
2 00									· · · · · · · · · · · · · · · · · · ·					
														5.00
											<u> </u>			4.45
											6	28	3.2.7	4.80
	D													
1.96		245												
1.7 0		250			430			610						
1.82		255			435			615				,		
209	0	260			440			620						
227		265			445			625						
2.28	8	270			450			630						
2.13		275			455			635						
2.21	$\widehat{\mathbf{O}}$	280			460			640						
2 22		285			465			645						
					470			650						
1	-	295			475			655						
					480			660					· · · · · · · · · · · · · · · · · · ·	
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														1.13
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208	1	340			520			700					<u> </u>	<u> </u>
コット	0	345			525			705						
	0	350			530			710						
2.12	, ⁻ 1	355			535			715						
		360			540		1	720					T :	in the state of the state of the
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	DATA SHEE	ET FOR DEEP GI NORTHV (Submit 3 cop	WESTERN NEW	MEXICO		S
Opera	tor <u>MERIDIA</u>	MOIL	Loca	tion: Unit <u>NE</u>	_Sec.29_Twp	
Name	of Well/Wells	s or Pipeline	Serviced	HUERFANO UNI	r #217	
						cps 174
Eleva	tion <u>6014'</u> Comp	pletion Date 1	1/16/84	al Depth <u>240'</u>	Land Typ	e*_ <u>N/A</u>
Casin	g, Sizes, Typ	pes & Depths_		N/A		
If Ca	sing is cemer	nted, show amo	unte f tun		Δ	
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If Ce Depth	nent or Bento N/A s & thickness	onite Plugs ha	ave been pl nes with de	aced, show d	epths & amo	
If Ce Depth Fresh	nent or Bento N/A 5 & thickness , Clear, Salt	onite Plugs ha s of water zor zy, Sulphur, E	ave been pl nes with de Stc. <u>45</u> '	aced, show d	epths & amo	
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If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included.

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*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

Drilling Log (Assach Hereto)

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

Completion - Date 11-16-84

of 83

PS /	Well Name, Line or Plant:		Work Order #	Static: -	-	Ins. Union Cherk
· · · · · · · · · · · · · · · · · · ·				an Alexan		
1743-W	Huertanot 211	7	54860-19-50	-20 K/C 94	600'N	1.670mps+
ation.	Anode Size:	Anode Type: -		Size Bit:	·	
1= 29-27-10	2 ×60	Durin		63/4		
pin Drilled	Depth Logged	Drilling Rig Time	Total Lbs. Goke Used		Mar'l Used-g	No. Sacks Mud Used
240	238		2,38016		1	
	05 #3 190	#4/80 #5	150 4612	5 7 115	# 8705	* 9 95 !* 10
node Output (Amps)			. · · · ·	-	!	and the second
14.40 #24	1.65 # 34.50	# 44.62 # 5	4.40 + 64.5	6 1 74.67	1= 8 4.60	1#94.72 # 10
node Depth	# 13	# 14 # 1	5 # 16	i	i # 18	# 19
node Output (Amps)	1	· · ·	1	1	+	
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otal Circuit Resistan	Amps / 8.3	Ohms .6		Cable Used	- 	No: 2 C.P. Cable Us
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ectifier Size: 40		A Reg. Time:	8hrs	الله الله معرف المراقع المراقع 		ction Completed
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	2V/6 262: 128:	0. T. =	8hrs Ohrs	сетсн 108 — — — — — — — — — — — — — — — — — — —	All Constru	ohuei

Released to Imaging: 6/13/2023 8:51:44 AM

CONSTRUCTION LOGGING READINGS

A second
CPS #: 1743-W WELL NAME: Huer lano # 217

LOCATION: NE 29-2710 ATE: 11-16-84

TOTAL VOLTS: 12.0 TOTAL AMPS: 18.3 Readings logged thru 2.300's pool

OHMS RESISTANCE: , 65

		LOG	ANODE	ſ	LOG	ANODE		LOG	ANODE	1	LOG	ANODE		NODE RI	NO	WITH
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1	0			190	1.81	3	370			550			2	205	2.71	4.65
1	5			195	1.77		375			555			3	190	2.71	4.50
2	0			200	1.84		380			560			4	180	2.72	4.62
2	5			205	1.84	2	385			565			5	150	2.69	4.40
3	0		:	210	2.07		390			570			6	125	2.76	4.54
3	5			215	1.90	-1	395			575			7	115	2.77	4.67
4	0			220	1.66		400			580			8	105	2.77	4.61
4	5	.79		225	1.44		405			585			9	95	2.77	4.72
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8	5	1.97		265			445			625						
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AC.	<u>·//</u>	ing	tind	ting	2.54	ales	t sa	nd	y_sl	hale	10	Deti	om	of	hole	Distal

LEASE	11. Not and Man It have been	Huerfano 2 WELLINO ORNING	10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	27464	Mich St.	AYLIGHT	and a state of the state of the state				DATE			<u>198</u>
		Total Men In Crew				Total Mensin C			1 1. Charles Br	it wall taken 35 1	To	Sidden 15	WAR STONE & WELVERSON	
FROM	行う	FORMATION ; WT-BIT R.P.N			<u>то</u>	FORMATION				то		ON STATE		
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30-045-26373

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

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

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

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CPS 1825W

API WATER ANALYSIS REPORT FORM

Company MERIDIA.	NOIL. CO.	Sample No.	Date Sampled, 9/29/87
Field Angel Peak	Legal Description	County or Pa Sam Th	rish State
Lease or Unit HuevFubp	Well # 105 E	Depth Formation	Water, B/D
Type of Water (Produc	ced, Supply, etc.) Sampling		Sampled By
Ground A	red 5		ma
DISSOLVED SOLIDS		OTHER PROPERTIES pH	8.17
CATIONS Sodium, Na (calc.) Calcium, Ca Magnesium, Mg Barium, Ba	mg/l me/l <u>7860</u> <u>342</u> <u>573</u> <u>7.8.6</u> <u>77.9</u> <u>6.0</u>	Specific Gravity, 60/60 F. Resistivity (olim-meters) <u>12</u> <u>CRM ductivity</u>	2-F. <u>61-0-19-8</u> <u>1-0-19-8</u> <u>-61-0-19-8</u> <u>-60-0-11-140-5</u>
		Total Dissolve	d Solids (calc.) <u>26600</u>
ANIONS Chloride, Cl Sulfate, SO4 Carbonate, CO3	<u>78</u> <u>2.0</u> <u>17600</u> <u>367</u>	Iron, Fe (total Sulfide, as H ₂ S	
Bicarbonate, HCO3	<u> 408 </u>	REMARKS &	RECOMMENDATIONS:
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(543) 20 Ma			
			HCO3 10
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BURGE CORROSION SYSTEMS, INC.

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

CPS 18252

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100	110	Sav	dstone		It Grey
110	140	S,	d stone		CK Grey
140	150				Md Grey
150	200	Shak	e a Salldy s	hale	dk Grey
200	260	Wat	er Sand		Md Grey
		7.0. 28	0 ++.		
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REMARKS:	water sa	mpte a	F 40	FY.	
	0				
2 /lan T	3-lon	Driller			Tool Dress

	2/2023 1:29:34 PM				Page 50
• • • د _{ـ ـ}	30-0	045-0633Z	366	Ô i	••
.*	DATA SHEET FO	OR DEEP GROUND BE NORTHWESTERN		PROTECTION WELLS	
Operator_	Meridian C	Dil Co. Lo	cation: Uni	t <u> </u>	10
Name of W <u>Cordo</u>		Pipeline Serviced	<u> </u>		
Elevation	6/31 Completio	on Date 2/21/93 T	otal Depth	<u>171'</u> Land Type F	
Casing St	rings, Sizes,	Types & Depths a	1/12 SET 9	S' OF 8" PUC CAS	7,209
NO GAS	WATER, Or	Boulders Were	ENCOUNTErec	During CASING.	
	Strings are a	cemented, show an	nounts & typ	es used <u>Comentre</u>	· 0/
If Cement	or Bentonite	Plugs have been	placed, sho	w depths & amounts	used
	NA				
	NA		·	of water: Fresh, C	
Salty, Su	$\mathcal{N} \mid \mathcal{A}$ thickness of	115' fresh	·	of water: Fresh, C	
Salty, Su Depths ga Ground be	N A thickness of alphur, Etc as encountered as depth with	115' fresh I: Nowe type & amount of	description	• of water: Fresh, C	:lear
Salty, Su Depths ga Ground be	NA thickness of lphur, Etc s encountered ed depth with esco type su	115' fresh l: <u>Nowe</u> type & amount of	description coke breeze		lear
Salty, Su Depths ga Ground be <u>of Lur</u> Depths ar	NA thickness of lphur, Etc s encountered ed depth with esco type su	115' fresh : <u>Nowe</u> type & amount of Stars, 345, 335, 325, 315	description coke breeze	e used: <u>374</u> , <u>575</u>	lear
Salty, Su Depths ga Ground be <u>of Lur</u> Depths ar Depths ve	NA thickness of lphur, Etc s encountered ed depth with esco type su nodes placed:3 ent pipes place	115' fresh : <u>Nowe</u> type & amount of Stars, 345, 335, 325, 315	description	e used: <u>374'</u> <u>515</u> 245, 235, 225, 217, 210, 2 DECEIVED	lear,
Salty, Su Depths ga Ground be <u>of Lur</u> Depths ar Depths ve	NA thickness of lphur, Etc s encountered ed depth with esco type su nodes placed: <u>3</u> ent pipes place e perforations	115' fresh :- Nowe type & amount of ass, 345, 335, 325, 315 ed: 374'	description	e used: <u>374</u> , <u>575</u>	lear,

2.1

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.

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Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee. If Federal or Indian, add Lease Number. Received by OCD: 6/12/2023 1:29:34 PM

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		:	
L.e	BORATORY REPOR	Ť	TECH, Inc
	IELD WATER ANAL		333 East Mail Farmingto
· · · ·			New Mexico 8740
	,		505/327-331
Lab Number: 28930315-05 Client: Meridian Oil	2389W	Date Sampled: Date Received:	
	roundbed	Date Analyzed: Date Reported:	
DISSOLVED SOLIDS:)etection
	me/L		imit, mg/L
Calcium, Ca++	0.8	16	1.0
Magnesium, Mg++ Sodium, Na+ (calc)	0.1 25.7	2 591	1.0 5,0
Chlarida, Cl-	0.4	13	2.0
Bulfate, SO4 Bicarbonate, HCO3-	17.1 6.8	916	5,0
Carbonate, CO3	0.4	415 12	5.0 1.0
lydroxide, DH-	ND	ND	1.0
Cotal Dissolved Solids (c	alculated):	1,960	10.0
THER PROPERTIES			
pH (units);	8,5		
reisistivity (ohm-meters)	1 5.0		
specific gravity at 60F:	1.0057		
noom temperature (デ);	72		
ND = Not Detected at the	stated dectect	ion limit	
Comments: San Juan Coun Sampled by Ke	ty, New Mexico ith Bishop		
		aters;" Ind edition	
Set Pelle-			

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1EC Nº 202322331

BRIDNES LAW FIRM

Received by OCD: 6/12/2023 1:29:34 PM



LABORATORY REPORT

OIL-FIELD WATER ANALYSIS

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

10.0

Sample ID:	25930315-05 Meridian Oil 2389 W Gordon #5 groundbed	Date Sampled: Date Received: Date Analyzed:	03-15-93 03-15-93
Location:	M22-27-10	Date Reported:	03-18-93

DISSOLVED SOLIDS:	me/L	mg/L	Detection Limit, mg/L
Calcium, Ca++	0 .8	16	1.0
Magnesium, Mg++	O . 1	2	1.0
Sodium, Na+ (calc)	25.7	591	5.0
Chloride, Cl-	0.4	13	2.0
Sulfate, SO4-~	19.1	916	5.0
Bicarbonate, HCD3-	6.8	415	5.0
Carbonate,CO3	O . 4	12	1.0
Hydroxide, OH~	ND	ND	1.0

Total Dissolved Solids (calculated): 1,960

OTHER PROPERTIES:

pH (units): 8.5 reisistivity (ohm-meters): 5.0 specific gravity at 60F: 1.0057

room temperature (F): 72

ND = Not Detected at the stated dectection limit

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- Comments: San Juan County, New Mexico Sampled by Keith Bishop
- Methods: American Petroleum Institute, "Recommended Practice for Analysis of Oil-Field Waters;" 2nd edition.

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a by OCD: 6/12/2023 1:29:34 PM	366 (
30-045-27512	
DATA SHEET FOR DEEP GROUND E NORTHWESTERN	SED CATHODIC. PROTECTION WELLS
Operator Meridian Cil Co I	Location: Unit <u>G</u> Sec. <u>27</u> Twp <u>27</u> Rn
Name of Well/Wells or Pipeline Service	ed
Gotdon #500	
ElevationCompletion Date 2/22/93	Total Depth <u>389'</u> Land Type <u>F</u>
Casing Strings, Sizes, Types & Depths	
NO GAS, WRTER, OF Boulders 6	
If Casing Strings are cemented, show a	· ·
WITH 22 SACKS.	amounts a types used <u>Crementer</u>
If Cement or Bentonite Plugs have been w/A	n placed, show depths & amounts
Depths & thickness of water zones with	h description of water: Fresh, (
Salty, Sulphur, Etc. 120' Srest	
Depths gas encountered: NONC	
	f
Ground bed depth with type & amount o	I COKE Dreeze used: <u>589</u>
	······································
Depths anodes placed: 350, 340, 325, 318, 310,	· · · · · · · · · · · · · · · · · · ·
Depths vent pipes placed: <u>387</u>	
Vent pipe perforations: Bottom 280	JAN 31 1994
	Attil a to .
Remarks:	OIL CON. DIV.

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

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

Received by OCD: 6/12/2023 1:29:34 PM

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LABORATORY REPORT

DIL-FIELD WATER ANALYSIS

TECH, Inc. 333 East Main Farmington New Mexico 87401

505/327-3311

Client	25930315-07 Meridian Oil Gordon # 500 G22-27-10	2142W Groundbed	Date Analy:	ed: 02-22-93 /ed: 03-15-93 zed: 03-17-93 ted: 03-18-93
DISSOLVED S	DL 109 :		mg/L	Datection Limit, mg/L
		me/L	mg/L	
Calcium, Ca	* *	0.5	1.1	1.0
Magnesium,		0.1	2	1.0
Sodium, Na+	=-	22.4	514	5.0
Chloride, C	1 ***	0.4	13	2.0
Sulfate, SO		16.9	810	5.0
Bicarbonate		5.0	305	5.0
Carbonate,C	03	0.8	24	1.0
Hydroxide,	0H-	ND	ND	1.0
Total Disso	lved Solids (ca	(culated):	1,480	10.0
OTHER PROPE	RTIES:			
pH (units):		8.7		
	y (ohm-meters):			
	avity at 60F:			
room temper	ature (F):	72		
ND = Not De	tected at the s	tated dectecti	on limit	
	San Juan Count Sampled by Kei			

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

interpretation analysť

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		RATORY REPORT LD WATER ANAL		TECH, Inc. 333 East Main Farmington New Mexico 87401 505/327-3311
Lab Number: 25930 Client: Merid Sample ID: Gordo Location: G22-2	lian Dil <i>24</i> on # 500		Date Sampled Date Receive Date Analyze Date Reporte	d: 03-15-93 d: 03-17-93
DISSOLVED SOLIDS:		me/L	mg∕L	Detection Limit, mg/L
Calcium, Ca++ Magnesium, Mg++ Sodium, Na+ (calc	:)	0.5 0.1 22.4	11 2 514	1.0 1.0 5.0
Chloride, Cl- Sulfate, SO4 Bicarbonate, HCO3 Carbonate,CO3 Hydroxide, OH	-	0.4 14.9 5.0 0.8 ND	13 810 305 24 ND	2.0 5.0 5.0 1.0 1.0
Total Dissolved S	Golids (cal	culated):	1,680	10.0
OTHER PROPERTIES:				
pH (units): reisistivity (ohm specific gravity		8.7 6.2 1.0044		
room temperature	(F):	72		
ND = Not Detected	l at the st	ated dectect:	ion limit	··
	'uan County ed by Keit	, New Mexico h Bishop		
			e, "Recommended aters;" 2nd edit	

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Released to Antigenty: 6/13/2023 8:51:44 AM



APPENDIX C

Executed C-138 Solid Waste Acceptance Form Received by OCD: 6/12/2023 1:29:34 PM

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

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

Form C-138 Revised 08/01/11

*Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection. 97057 - 1/25

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address: Enterprise Field Services, LLC, 614 Reilly Ave, Farmington N	NM 87401
2. Originating Site: Lateral 2A-2	AFE: N65562 PM: ME Eddleman Pay Key: AM14058
2. Location of Material (Street Address, City, State or ULST UL I Section 21 T27N R10W; 36.557716, -107.892107	March 2023
4. Source and Description of Waste: Source: Hydrocarbon contaminated soil associated with rem Description: Hydrocarbon contaminated soil associated with Estimated Volume <u>50</u> yd ³ / bbls Known Volume (to be enter	ediation activities from a natural gas pipeline release. remediation activities from a natural gas pipeline release.
5. GENERATOR CERTIFICATIO	ON STATEMENT OF WASTE STATUS
I, Thomas Long ^{them} Log [*] , representative or authorized agent for Generator Signature certify that according to the Resource Conservation and Recovery regulatory determination, the above described waste is: (Check th	Act (RCRA) and the US Environmental Protection Agency's July 1988
	gas exploration and production operations and are not mixed with non- <i>requency Monthly Weekly Per Load</i>
characteristics established in RCRA regulations, 40 CFR 261	dous that does not exceed the minimum standards for waste hazardous by .21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, ched to demonstrate the above-described waste is non-hazardous. (Check
□ MSDS Information □ RCRA Hazardous Waste Analysis	□ Process Knowledge □ Other (Provide description in Box 4)
GENERATOR 19.15.36.15 WASTE TESTING CE	ERTIFICATION STATEMENT FOR LANDFARMS
I, Thomas Long Joy 3-24-2023, representative for Enterpris Generator Signature the required testing/sign the Generator Waste Testing Certificatio	
	Envirotech, Inc. do hereby certify that to the paint filter test and tested for chloride content and that the samples ole to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results we-described waste conform to the requirements of Section 15 of
5. Transporter: IMI or Subcontractors	
OCD Permitted Surface Waste Management Facility Name and Facility Permit #: Envirotech, Inc. Soil Remediation Facility * F Address of Facility: Hill Top, NM Method of Treatment and/or Disposal: Evaporation Injection Treating I Waste Acceptance Status: APPROVED	
PRINT NAME: Gweg Crabbuer	TITLE: <u>Envivo Manager</u> DATE: 3/28/23
SIGNATURE: Sufface Waste Management Facility Authorized Agent	TELEPHONE NO.: 505-632-0615



APPENDIX D

Photographic Documentation

Released to Imaging: 6/13/2023 8:51:44 AM

SITE PHOTOGRAPHS

Closure Report Enterprise Field Services, LLC Lateral 2A-2 (03/20/23) Ensolum Project No. 05A1226232

E N S O L U M

Photograph 1

Photograph Description: View of the inprocess excavation activities.



and FP-1 and FP-2 sample locations.

Photograph 2

Photograph 3

Photograph Description: View of the final excavation.

Photograph Description: View of the wash

Closure Report Enterprise Field Services, LLC Lateral 2A-2 (03/20/23) Ensolum Project No. 05A1226232



Photograph 4

Photograph Description: View of the site after initial restoration.





APPENDIX E

Regulatory Correspondence

Released to Imaging: 6/13/2023 8:51:44 AM

From:	Kyle Summers
To:	Chad D"Aponti; Ranee Deechilly
Subject:	FW: [EXTERNAL] Lateral 2A-2 - UL I Section 21 T27N R10W; 36.557716, -107.892107; NMOCD Incident # nAPP2307927327
Date:	Monday, March 27, 2023 12:26:03 PM
Attachments:	image003.png image004.png image005.png

100	8

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

From: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Sent: Monday, March 27, 2023 10:48 AM
To: Long, Thomas <tjlong@eprod.com>; slandon@blm.gov
Cc: Stone, Brian <bmstone@eprod.com>; Kyle Summers <ksummers@ensolum.com>
Subject: Re: [EXTERNAL] Lateral 2A-2 - UL I Section 21 T27N R10W; 36.557716, -107.892107; NMOCD Incident # nAPP2307927327

[**EXTERNAL EMAIL**]

Tom,

Thank you for the notice. Your variance request specifically addressing 19.15.29.12D (1a) NMAC is approved.

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

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

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

Regards,

Nelson Velez • Environmental Specialist - Adv

Environmental Bureau | EMNRD - Oil Conservation Division

1000 Rio Brazos Road | Aztec, NM 87410

(505) 469-6146 | nelson.velez@emnrd.nm.gov

http://www.emnrd.state.nm.us/OCD/



From: Long, Thomas <tjlong@eprod.com>
Sent: Monday, March 27, 2023 9:27 AM
To: Velez, Nelson, EMNRD <<u>Nelson.Velez@emnrd.nm.gov</u>>; slandon@blm.gov <<u>slandon@blm.gov</u>>
Cc: Stone, Brian <<u>bmstone@eprod.com</u>>; Kyle Summers <<u>ksummers@ensolum.com</u>>
Subject: [EXTERNAL] Lateral 2A-2 - UL I Section 21 T27N R10W; 36.557716, -107.892107; NMOCD
Incident # nAPP2307927327

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

Nelson/Sherrie,

This email is a notification and a variance request. Enterprise is requesting a variance for required 48 hour notification per 19.15.29.12D (1a) NMAC. Enterprise would like to collect soil samples for laboratory analysis tomorrow March 28, 2023 at 10:00 a.m. Please acknowledge acceptance of this variance request. If you have any questions, please call or email.

Thank you,

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



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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: 6/13/2023 8:51:44 AM

ENSOLUM

	TABLE 1 Lateral 2A-2 (03/20/23) SOIL ANALYTICAL SUMMARY												
Sample I.D.	Date	Sample Type C- Composite G - Grab	Sample Depth (feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX ¹ (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total Combined TPH (GRO/DRO/MRO) ¹ (mg/kg)	Chloride (mg/kg)
		Natural Resource n Closure Criter		10	NE	NE	NE	50	NE	NE	NE	100	600
						Flowpath Comp	osite Soil Samp	oles					
FP-1	3.28.23	С	0.25	<0.017	<0.035	<0.035	<0.070	ND	<3.5	<9.6	<48	ND	<60
FP-2	3.28.23	С	0.25	<0.018	<0.035	<0.035	<0.071	ND	<3.5	<9.9	<50	ND	<60
						Excavation Com	oosite Soil Sam	ples					
S-1	3.28.23	С	4.5	<0.017	<0.035	<0.035	<0.069	ND	<3.5	<9.6	<48	ND	<60
S-2	3.28.23	С	0 to 4.5	<0.018	<0.036	<0.036	<0.072	ND	<3.6	<9.6	<48	ND	<60
S-3	3.28.23	С	0 to 4.5	<0.017	<0.033	<0.033	<0.067	ND	<3.3	<9.8	<49	ND	<60
S-4	3.28.23	С	0 to 4.5	<0.017	<0.034	<0.034	<0.069	ND	<3.4	<10	<50	ND	<60
S-5	3.28.23	С	0 to 4.5	<0.017	<0.035	<0.035	<0.069	ND	<3.5	<9.7	<48	ND	<60

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

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

NE = Not established

mg/kg = milligram per kilogram

BTEX = Benzene, Toluene, Ethylbenzene, and Xylenes

TPH = Total Petroleum Hydrocarbon

GRO = Gasoline Range Organics

DRO = Diesel Range Organics

MRO = Motor Oil/Lube Oil Range Organics



APPENDIX G

Laboratory Data Sheets & Chain of Custody Documentation

Released to Imaging: 6/13/2023 8:51:44 AM



March 31, 2023

Kyle Summers ENSOLUM 606 S. Rio Grande Suite A Aztec, NM 87410 TEL: (903) 821-5603 FAX Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

RE: Lateral 2a 2

OrderNo.: 2303D99

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 7 sample(s) on 3/29/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2303D99

Date Reported: 3/31/2023

CLIENT	ENSOLUM	Client Sample ID: S-1
Project:	Lateral 2a 2	Collection Date: 3/28/2023 10:00:00 AM
Lab ID:	2303D99-001	Matrix: MEOH (SOIL) Received Date: 3/29/2023 7:35:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	SNS
Chloride	ND	60	mg/Kg	20	3/29/2023 11:41:22 AM	74000
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst:	PRD
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	3/29/2023 10:33:27 AM	73997
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	3/29/2023 10:33:27 AM	73997
Surr: DNOP	90.1	69-147	%Rec	1	3/29/2023 10:33:27 AM	73997
EPA METHOD 8015D: GASOLINE RANGE					Analyst:	ССМ
Gasoline Range Organics (GRO)	ND	3.5	mg/Kg	1	3/29/2023 11:21:00 AM	GS9563§
Surr: BFB	95.5	37.7-212	%Rec	1	3/29/2023 11:21:00 AM	GS9563§
EPA METHOD 8021B: VOLATILES					Analyst:	ССМ
Benzene	ND	0.017	mg/Kg	1	3/29/2023 11:21:00 AM	BS5639
Toluene	ND	0.035	mg/Kg	1	3/29/2023 11:21:00 AM	BS5639
Ethylbenzene	ND	0.035	mg/Kg	1	3/29/2023 11:21:00 AM	BS5639
Xylenes, Total	ND	0.069	mg/Kg	1	3/29/2023 11:21:00 AM	BS5639
Surr: 4-Bromofluorobenzene	93.3	70-130	%Rec	1	3/29/2023 11:21:00 AM	BS5639

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 standard limits. If undiluted results may be estimated. S
- В Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range Reporting Limit
- RL

Page 1 of 12

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2303D99

Date Reported: 3/31/2023

CLIENT	ENSOLUM	Client Sample ID: S-2
Project:	Lateral 2a 2	Collection Date: 3/28/2023 10:05:00 AM
Lab ID:	2303D99-002	Matrix: MEOH (SOIL) Received Date: 3/29/2023 7:35:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	SNS
Chloride	ND	60	mg/Kg	20	3/29/2023 11:53:46 AM	74000
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst:	PRD
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	3/29/2023 11:04:54 AM	73997
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	3/29/2023 11:04:54 AM	73997
Surr: DNOP	87.4	69-147	%Rec	1	3/29/2023 11:04:54 AM	73997
EPA METHOD 8015D: GASOLINE RANGE					Analyst	ССМ
Gasoline Range Organics (GRO)	ND	3.6	mg/Kg	1	3/29/2023 11:43:00 AM	GS9563§
Surr: BFB	91.2	37.7-212	%Rec	1	3/29/2023 11:43:00 AM	GS9563§
EPA METHOD 8021B: VOLATILES					Analyst	ССМ
Benzene	ND	0.018	mg/Kg	1	3/29/2023 11:43:00 AM	BS5639
Toluene	ND	0.036	mg/Kg	1	3/29/2023 11:43:00 AM	BS5639
Ethylbenzene	ND	0.036	mg/Kg	1	3/29/2023 11:43:00 AM	BS5639
Xylenes, Total	ND	0.072	mg/Kg	1	3/29/2023 11:43:00 AM	BS5639
Surr: 4-Bromofluorobenzene	92.0	70-130	%Rec	1	3/29/2023 11:43:00 AM	BS5639

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 standard limits. If undiluted results may be estimated. S
- В Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range Reporting Limit
- RL

Page 2 of 12

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2303D99

Date Reported: 3/31/2023

CLIENT	ENSOLUM	Client Sample ID: S-3
Project:	Lateral 2a 2	Collection Date: 3/28/2023 10:10:00 AM
Lab ID:	2303D99-003	Matrix: MEOH (SOIL) Received Date: 3/29/2023 7:35:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	SNS
Chloride	ND	60	mg/Kg	20	3/29/2023 12:06:11 PM	74000
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst:	PRD
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	3/29/2023 11:15:25 AM	73997
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	3/29/2023 11:15:25 AM	73997
Surr: DNOP	88.5	69-147	%Rec	1	3/29/2023 11:15:25 AM	73997
EPA METHOD 8015D: GASOLINE RANGE					Analyst	ССМ
Gasoline Range Organics (GRO)	ND	3.3	mg/Kg	1	3/29/2023 12:05:00 PM	GS9563§
Surr: BFB	94.0	37.7-212	%Rec	1	3/29/2023 12:05:00 PM	GS9563{
EPA METHOD 8021B: VOLATILES					Analyst:	ССМ
Benzene	ND	0.017	mg/Kg	1	3/29/2023 12:05:00 PM	BS5639
Toluene	ND	0.033	mg/Kg	1	3/29/2023 12:05:00 PM	BS5639
Ethylbenzene	ND	0.033	mg/Kg	1	3/29/2023 12:05:00 PM	BS5639
Xylenes, Total	ND	0.067	mg/Kg	1	3/29/2023 12:05:00 PM	BS5639
Surr: 4-Bromofluorobenzene	93.8	70-130	%Rec	1	3/29/2023 12:05:00 PM	BS5639

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 standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank В
- Е Above Quantitation Range/Estimated Value J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2303D99

Date Reported: 3/31/2023

CLIENT	ENSOLUM	Client Sample ID: S-4
Project:	Lateral 2a 2	Collection Date: 3/28/2023 10:15:00 AM
Lab ID:	2303D99-004	Matrix: MEOH (SOIL) Received Date: 3/29/2023 7:35:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	SNS
Chloride	ND	60	mg/Kg	20	3/29/2023 12:18:35 PM	74000
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst:	PRD
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	3/29/2023 11:25:59 AM	73997
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	3/29/2023 11:25:59 AM	73997
Surr: DNOP	87.6	69-147	%Rec	1	3/29/2023 11:25:59 AM	73997
EPA METHOD 8015D: GASOLINE RANGE					Analyst:	ССМ
Gasoline Range Organics (GRO)	ND	3.4	mg/Kg	1	3/29/2023 12:27:00 PM	GS9563§
Surr: BFB	94.9	37.7-212	%Rec	1	3/29/2023 12:27:00 PM	GS9563§
EPA METHOD 8021B: VOLATILES					Analyst	ССМ
Benzene	ND	0.017	mg/Kg	1	3/29/2023 12:27:00 PM	BS5639
Toluene	ND	0.034	mg/Kg	1	3/29/2023 12:27:00 PM	BS5639
Ethylbenzene	ND	0.034	mg/Kg	1	3/29/2023 12:27:00 PM	BS5639
Xylenes, Total	ND	0.069	mg/Kg	1	3/29/2023 12:27:00 PM	BS5639
Surr: 4-Bromofluorobenzene	95.3	70-130	%Rec	1	3/29/2023 12:27:00 PM	BS5639

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

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2303D99

Date Reported: 3/31/2023

CLIENT	ENSOLUM	Client Sample ID: S-5
Project:	Lateral 2a 2	Collection Date: 3/28/2023 10:20:00 AM
Lab ID:	2303D99-005	Matrix: MEOH (SOIL) Received Date: 3/29/2023 7:35:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	SNS
Chloride	ND	60	mg/Kg	20	3/29/2023 12:30:59 PM	74000
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst	PRD
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	3/29/2023 11:36:37 AM	73997
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	3/29/2023 11:36:37 AM	73997
Surr: DNOP	87.9	69-147	%Rec	1	3/29/2023 11:36:37 AM	73997
EPA METHOD 8015D: GASOLINE RANGE					Analyst	ССМ
Gasoline Range Organics (GRO)	ND	3.5	mg/Kg	1	3/29/2023 12:49:00 PM	GS9563§
Surr: BFB	86.8	37.7-212	%Rec	1	3/29/2023 12:49:00 PM	GS9563§
EPA METHOD 8021B: VOLATILES					Analyst	ССМ
Benzene	ND	0.017	mg/Kg	1	3/29/2023 12:49:00 PM	BS5639
Toluene	ND	0.035	mg/Kg	1	3/29/2023 12:49:00 PM	BS5639
Ethylbenzene	ND	0.035	mg/Kg	1	3/29/2023 12:49:00 PM	BS5639
Xylenes, Total	ND	0.069	mg/Kg	1	3/29/2023 12:49:00 PM	BS5639
Surr: 4-Bromofluorobenzene	85.3	70-130	%Rec	1	3/29/2023 12:49:00 PM	BS5639

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

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2303D99

Date Reported: 3/31/2023

CLIENT	ENSOLUM	Client Sample ID: FP-1
Project:	Lateral 2a 2	Collection Date: 3/28/2023 10:25:00 AM
Lab ID:	2303D99-006	Matrix: MEOH (SOIL) Received Date: 3/29/2023 7:35:00 AM

Analyses	Result	RL (Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	SNS
Chloride	ND	60	mg/Kg	20	3/29/2023 1:08:13 PM	74000
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst	PRD
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	3/29/2023 11:47:10 AM	73997
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	3/29/2023 11:47:10 AM	73997
Surr: DNOP	88.7	69-147	%Rec	1	3/29/2023 11:47:10 AM	73997
EPA METHOD 8015D: GASOLINE RANGE					Analyst	ССМ
Gasoline Range Organics (GRO)	ND	3.5	mg/Kg	1	3/29/2023 1:10:00 PM	GS9563§
Surr: BFB	80.7	37.7-212	%Rec	1	3/29/2023 1:10:00 PM	GS9563§
EPA METHOD 8021B: VOLATILES					Analyst	ССМ
Benzene	ND	0.017	mg/Kg	1	3/29/2023 1:10:00 PM	BS5639
Toluene	ND	0.035	mg/Kg	1	3/29/2023 1:10:00 PM	BS5639
Ethylbenzene	ND	0.035	mg/Kg	1	3/29/2023 1:10:00 PM	BS5639
Xylenes, Total	ND	0.070	mg/Kg	1	3/29/2023 1:10:00 PM	BS5639
Surr: 4-Bromofluorobenzene	81.5	70-130	%Rec	1	3/29/2023 1:10:00 PM	BS5639

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

Qualifiers:

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

ing Limit

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2303D99

Date Reported: 3/31/2023

CLIENT	ENSOLUM	Client Sample ID: FP-2
Project:	Lateral 2a 2	Collection Date: 3/28/2023 10:30:00 AM
Lab ID:	2303D99-007	Matrix: MEOH (SOIL) Received Date: 3/29/2023 7:35:00 AM

Analyses	Result	RL (Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	SNS
Chloride	ND	60	mg/Kg	20	3/29/2023 1:20:38 PM	74000
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst:	PRD
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	3/29/2023 11:57:45 AM	73997
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	3/29/2023 11:57:45 AM	73997
Surr: DNOP	91.9	69-147	%Rec	1	3/29/2023 11:57:45 AM	73997
EPA METHOD 8015D: GASOLINE RANGE					Analyst:	ССМ
Gasoline Range Organics (GRO)	ND	3.5	mg/Kg	1	3/29/2023 1:32:00 PM	GS9563§
Surr: BFB	89.3	37.7-212	%Rec	1	3/29/2023 1:32:00 PM	GS9563{
EPA METHOD 8021B: VOLATILES					Analyst:	ССМ
Benzene	ND	0.018	mg/Kg	1	3/29/2023 1:32:00 PM	BS5639
Toluene	ND	0.035	mg/Kg	1	3/29/2023 1:32:00 PM	BS5639
Ethylbenzene	ND	0.035	mg/Kg	1	3/29/2023 1:32:00 PM	BS5639
Xylenes, Total	ND	0.071	mg/Kg	1	3/29/2023 1:32:00 PM	BS5639
Surr: 4-Bromofluorobenzene	84.9	70-130	%Rec	1	3/29/2023 1:32:00 PM	BS5639

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

Qualifiers:

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

RL Re

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	WO#:	2303D99
Environmental Analysis Laboratory, Inc.		31-Mar-23

Client: Project:	ENSOLU Lateral 2a										
Sample ID: MB-	74000	Samp	Гуре: МЕ	BLK	Tes	tCode: EF	S				
Client ID: PBS	5	Batc	h ID: 74	000	RunNo: 95644						
Prep Date: 3/2	9/2023	Analysis [Date: 3/	29/2023	S	SeqNo: 34	461932	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID: LCS	-74000	Samp	Гуре: LC	S	Tes	tCode: EF	PA Method	300.0: Anion	S		
Client ID: LCS	S	Batc	h ID: 74	000	F	RunNo: 95	5644				
Prep Date: 3/2	9/2023	Analysis [Date: 3/	29/2023	S	SeqNo: 34	461933	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5	15.00	0	94.9	90	110			

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 standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank В
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#:	2303	D99

31-Mar-23

Client:	ENSOLU	M									
Project:	Lateral 2a	n 2									
Sample ID:	MB-73997	SampT	ype: MB	I K	Test	Code: F	PA Method	8015M/D: Die	sel Rang	Organics	
Client ID:			ID: 73 9			unNo: 9		oo ronnib. Br	Joer Rung	organios	
Prep Date:	-	Analysis D				eqNo: 34		Units: mg/K	a		
	0/20/2020	-				·		•	•		Qual
Analyte Diesel Range C	proantics (DRO)	Result ND	PQL 10	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
-	e Organics (MRO)	ND	50								
Surr: DNOP		8.8		10.00		87.7	69	147			
Sample ID:	LCS-73997	SampT	ype: LC	s	Test	Code: EF	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID:	LCSS	Batch	ID: 739	997	R	unNo: 9	5646				
Prep Date:	3/29/2023	Analysis D	ate: 3/2	29/2023	S	eqNo: 34	461214	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range C	Organics (DRO)	45	10	50.00	0	90.7	61.9	130			
Surr: DNOP		4.5		5.000		90.5	69	147			
Sample ID:	2303D99-001AMS	SampT	ype: MS	;	Test	Code: EF	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID:	S-1	Batch	ID: 739	997	RunNo: 95646						
Prep Date:	3/29/2023	Analysis D	ate: 3/2	29/2023	S	eqNo: 34	461247	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range C	Organics (DRO)	39	9.2	46.00	0	83.9	54.2	135			
Surr: DNOP		4.3		4.600		92.6	69	147			
Sample ID:	2303D99-001AMS	D SampT	ype: MS	D	Test	Code: EF	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID:	S-1	Batch	ID: 739	997	R	RunNo: 95646					
Prep Date:	3/29/2023	Analysis D	ate: 3/2	29/2023	S	eqNo: 34	461248	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range C	Organics (DRO)	45	9.9	49.41	0	90.4	54.2	135	14.6	29.2	
Surr: DNOP		4.6		4.941		92.9	69	147	0	0	
Sample ID:	MB-73987	SampT	ype: MB	LK	Test	Code: EF	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID:	PBS	Batch	ID: 739	987	R	unNo: 9	5646				
Prep Date:	3/28/2023	Analysis D	ate: 3/2	29/2023	S	eqNo: 34	461648	Units: %Red	;		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		9.2		10.00		91.6	69	147			
Sample ID:	LCS-73987	SampT	ype: LC	s	Test	Code: EF	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID:	LCSS	Batch	ID: 739	987	R	unNo: 9	5646				
Prep Date:	3/28/2023	Analysis D	ate: 3/2	29/2023	S	eqNo: 34	461649	Units: %Red	;		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

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

RL Reporting Limit

Prep Date: 3/28/2023

C		al Analysis Laborato	wo#:	2303D99 31-Mar-23
Client: Project:	ENSOL Lateral 2	-		
Sample ID: LC	S-73987	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics	
Client ID: LC	SS	Batch ID: 73987	RunNo: 95646	

SeqNo: 3461649

Units: %Rec

%RPD

RPDLimit

Qual

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit
Surr: DNOP	4.4		5.000		87.3	69	147

Analysis Date: 3/29/2023

Qualifiers:

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

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ENSOLUM

Lateral 2a 2

Client:

Project:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Sample ID: 2.5ug gro Ics	SampT	ype: LC	S	TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch	n ID: GS	695639	F	RunNo: 9	5639				
Prep Date:	Analysis D)ate: 3/	29/2023	S	SeqNo: 34	461029	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	96.9	70	130			
Surr: BFB	2300		1000		227	37.7	212			S
Sample ID: mb	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID: PBS	Batch	n ID: GS	695639	F	RunNo: 9	5639				
Prep Date:	Analysis D	ate: 3/	29/2023	S	SeqNo: 34	461030	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								
Surr: BFB	1100		1000		107	37.7	212			
Sample ID: 2303D99-001ams SampType: MS										
Sample ID: 2303D99-001ams	SampT	уре: М	6	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Sample ID: 2303D99-001ams Client ID: S-1	•	ype: M 1D: G			tCode: El		8015D: Gaso	oline Rang	e	
	•	n ID: GS	\$95639	F		5639	8015D: Gaso Units: mg/K	Ū	e	
Client ID: S-1	Batch	n ID: GS	895639 29/2023	F	RunNo: 9	5639		Ū	e RPDLimit	Qual
Client ID: S-1 Prep Date:	Batch Analysis D	n ID: GS Date: 3/	895639 29/2023	א פ	RunNo: 9 SeqNo: 3	5639 461201	Units: mg/K	g		Qual
Client ID: S-1 Prep Date: Analyte	Batch Analysis D Result	n ID: GS Date: 3/	395639 29/2023 SPK value	F S SPK Ref Val	RunNo: 9 SeqNo: 3 %REC	5639 461201 LowLimit	Units: mg/K HighLimit	g		Qual
Client ID: S-1 Prep Date: Analyte Gasoline Range Organics (GRO)	Batch Analysis D Result 18 1500	n ID: GS Date: 3/	595639 29/2023 SPK value 17.30 692.0	F S SPK Ref Val 0	RunNo: 9 SeqNo: 3 %REC 103 221	5639 461201 LowLimit 70 37.7	Units: mg/K HighLimit 130	íg %RPD	RPDLimit	
Client ID: S-1 Prep Date: Analyte Gasoline Range Organics (GRO) Surr: BFB	Batch Analysis D Result 18 1500 SampT	Date: 3/ PQL 3.5	395639 29/2023 SPK value 17.30 692.0 SD	F S SPK Ref Val 0 Tes	RunNo: 9 SeqNo: 3 %REC 103 221	5639 461201 LowLimit 70 37.7 PA Method	Units: mg/K HighLimit 130 212	íg %RPD	RPDLimit	
Client ID: S-1 Prep Date: Analyte Gasoline Range Organics (GRO) Surr: BFB Sample ID: 2303D99-001amso	Batch Analysis D Result 18 1500 SampT	Date: 3/ PQL 3.5	595639 29/2023 SPK value 17.30 692.0 SD 595639	F S SPK Ref Val 0 Tes F	RunNo: 99 SeqNo: 34 %REC 103 221 tCode: El	5639 461201 LowLimit 70 37.7 PA Method 5639	Units: mg/K HighLimit 130 212	Sg %RPD	RPDLimit	
Client ID: S-1 Prep Date: Analyte Gasoline Range Organics (GRO) Surr: BFB Sample ID: 2303D99-001amso Client ID: S-1	Batch Analysis D Result 18 1500 SampT Batch	Date: 3/ PQL 3.5	S95639 29/2023 SPK value 17.30 692.0 SD S95639 29/2023	F S SPK Ref Val 0 Tes F	RunNo: 9 SeqNo: 3 %REC 103 221 tCode: EI	5639 461201 LowLimit 70 37.7 PA Method 5639	Units: mg/K HighLimit 130 212 8015D: Gaso	Sg %RPD	RPDLimit	

Qualifiers:

Surr: BFB

- 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 standard limits. If undiluted results may be estimated. S

1400

692.0

в Analyte detected in the associated Method Blank

197

37.7

212

0

0

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

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WO#: 2303D99

ENSOLUM

Lateral 2a 2

Client:

Project:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client ID: LCSS Batch ID: BS5639 RunNo: 95639 Units: mg/rg Analysis Date: 3/29/2023 SeqNo: 3/461036 Units: mg/rg Analysis Result POL SPK value SPK value SPK value SeqNo: 3/461036 Units: mg/rg Analysis 0.95 0.005 1.000 0 95.2 80 120 oluene 0.97 0.050 1.000 0 96.8 80 120 ylems, Total 2.9 0.10 3.000 0 96.8 80 120 ylems, Total 2.9 0.10 3.000 0 96.8 80 120 ylems, Total 2.9 0.10 3.000 0 96.8 80 120 semptrype: MB 1005 TestCode: EPA Method 8021B: Volutiles Client ID: PBS Batch ID: BS5539 RunNo: 95639 Volutile Mg/rg <th></th> <th>_</th> <th>_</th> <th>-</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>		_	_	-								
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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 standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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WO#: 2303D99

31-Mar-23

Received By: T	NSOLUM Tracy Casa Tracy Casa	rrubias		Order Num	ber: 230	3D99			RcptNo	
Completed By: T	racy Casa	rrubias	3/29/20						ropino	: 1
				23 7:35:00	АМ					
Reviewed By: Sc	13		3/29/20	23 7:54:46	AM					
		2923								
Chain of Custor	dy									
1. Is Chain of Custo	ody comple	ete?			Yes	;		No 🗹	Not Present	
2. How was the sam	nple delive	red?			<u>Co</u>	<u>irier</u>				
Log In 3. Was an attempt r	made to co	ool the sampl	es?		Yes			No 🗌	na 🗌	
4. Were all samples	received a	at a temperat	ure of >0° C	to 6.0°C	Yes			No 🗌	NA 🗋	
5. Sample(s) in prop	per contain	er(s)?			Yes			No 🗌		
6. Sufficient sample	volume for	r indicated te	st(s)?		Yes	\checkmark		No 🗌		
7. Are samples (exc	ept VOA a	nd ONG) pro	perly preserve	ed?	Yes			No 🗌		
8. Was preservative	added to I	oottles?			Yes			No 🗹	NA 🗌	
9. Received at least	1 vial with	headspace <	<1/4" for AQ V	OA?	Yes			No 🗌		
10. Were any sample					Yes			No 🗹	# of preserved	
11. Does paperwork n (Note discrepancie					Yes			No 🗌	bottles checked for pH: (<2 or	>12 unlese noted)
12. Are matrices corre	ectly identi	fied on Chain	of Custody?		Yes	\checkmark		No 🗌	Adjusted?	329/23
13. Is it clear what and			>		Yes			No 🗌		
14. Were all holding ti (If no, notify custo					Yes			No 🛄	Checked by:	51-616
Special Handling	ı (if appl	icable)								Ju 3/29/23
15. Was client notifie	ed of all dis	crepancies w	ith this order?		Yes		-	No 🗌	NA 🗹	-
Person Not By Whom: Regarding: Client Instr	in the second seco			Date: Via:	eM	lail 🗌] Phone	e 🗌 Fax	In Person	
Client Instru										
16. Additional remark	KS:									
7	Temp °C	Condition	Seal Intact	Seal No	Seal D	ate	Sigr	ned By		
1 2.	.8	Good	Yes	Morty						

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	ANALYSIS LABORATORY	www.hallenvironmental.com	4901 Hawkins NE - Albuquerque, NM 87109	Tel. 505-345-3975 Fax 505-345-4107	Analysis Request	(O)	111 (802 111 (111 (111 (111 (111 (111 (111 (111	2808/2 504.1) 01827 5 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	10)(GF icide 3310 16tal 16tal 16tal 16tal 16tal 16tal	80156 Pest Mett Br (VO) (VO)	8220 8260 8260 8260 8260 8081 8081 8081 8081						2			Remarks: 701 2018	Pay Ley AM 14/058 Der SNO	¹ If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as nott ce of this po ssibility. Any sub-contracted data will be clearly notated on the analytical report. Released to Imaging: 8(13/2023 8:51:44 AM
Turn-Around Time:) CRush		Lateral 22-2	Project #:	0541321232	Project Manager:	k Sumeis	Sampler: 2 12/400.41; On Ice: 2 Yes DNo Monda		Cooler Temp(Including CF): 2.0 - 0.2 - 2.8 (-U)	Container Preservative HEAL No. Type and # Type 7303 D99	100%	<u> </u>	(est 003	Led DOY	10 1 005	1 cc/ 0010	foo/ 007		Received by: Via: Date Time 7338	Received by: Via: Court Date / Time 3/29/23	ontracted to other accredited laboratories. This serves as notroe-ot-thus
Chain of Custody Docord			Mailing Address: 106 S Rio Purch		Phone #:	email or Fax#:	QA/QC Package:	□ Az Compliance □ Other			Date Time Matrix Sample Name	1000 5 5-1	- 1005 S S-2			1020	$\overline{\mathbf{x}}$	1030		Date: Time: Relinquished by:	Date: Time: Reinquished by: Black I's Reinquished by: Black I's Much Worthwe	Released to Imaging: 6(13/2023 8:51:44 AM)

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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	226479
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By		Condition Date
nvelez	None	6/13/2023

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