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: Ente	rprise Field Ser	vices, LLC	OGRID: 241602										
Contact Nam	ne: Thomas	Long		Contact Telepho	one: 505-5	99-2286								
Contact emai	il:t jlong@e p	orod.com		Incident # (assign	ned by OCD)	nAPP2320734440								
Contact mail 87401	ing address:	614 Reilly Ave,	Farmington, NM	-										
Latitude 36.7	12269					83 in decimal degrees to 5 decimal places)								
Latitude 36.7		-9 #94A		107.646695	_ (NAD									
Site Name S a	ne San Juan 27-9 #94A Site Type Natural G ease Discovered: 07/26/2023 Serial Number (if appli	(NAD	athering Pipeline											
Site Name Sa Date Release	an Juan 27 Discovered:	07/26/2023	Longitude <u>-</u>	Site Type Natur Serial Number ((NAD	athering Pipeline								
Site Name S a	Discovered:	07/26/2023 Township	Longitude <u>-</u> Range	Site Type Nature Serial Number ((NAD	athering Pipeline								

Nature and Volume of Release

Materia	l(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
	Volume Released (bbls): Estimated 5-10 BBLs	Volume Recovered (bbls): None
Natural Gas	Volume Released (Mcf): 3.14 MCF	Volume Recovered (Mcf): None
Other (describe)	Volume/Weight Released (provide units):	Volume/Weight Recovered (provide units)

Cause of Release On July 10, 2023, Enterprise had a release of natural gas and natural gas liquids from the San Juan 27-9 #94A pipeline. The pipeline was isolated, depressurized, locked and tagged out. No fire nor injuries occurred. No liquids were observed on the ground surface. Repairs and remediation began on July 26, 2023, at which time Enterprise determined the release reportable per NMOCD regulation, due to the volume of impacted subsurface soil. Remediation was completed on August 2, 2023. The final excavation dimensions measured approximately 25 feet long by 14.5 feet wide by 14 feet deep. A total of 260 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.

Surface Owner: State Federal Tribal Private (Name: **BLM**

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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.

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.

	•
A scaled site and sampling diagram as described in 19.15.	29.11 NMAC
Photographs of the remediated site prior to backfill or phomust be notified 2 days prior to liner inspection)	otos of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate	ODC 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 comay 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 re	ertain release notifications and perform corrective actions for releases which the of a C-141 report by the OCD does not relieve the operator of liability and remediate contamination that pose a threat to groundwater, surface water, the of a C-141 report does not relieve the operator of responsibility for regulations. The responsible party acknowledges they must substantially the conditions that existed prior to the release or their final land use in the OCD when reclamation and re-vegetation are complete.
Printed Name: Thomas Long	Title: Senior Environmental Scientist
Signature:	Date: <u>11-2-2023</u>
email: tjlong@eprod.com	Telephone: (505) 599-2286
OCD Only	
Received by:	Date:
	arty of liability should their operations have failed to adequately investigate and face water, human health, or the environment nor does not relieve the responsible and/or regulations.
remediate contamination that poses a threat to groundwater, surf party of compliance with any other federal, state, or local laws a	ace water, human health, or the environment nor does not relieve the responsible
remediate contamination that poses a threat to groundwater, surf party of compliance with any other federal, state, or local laws a	and/or regulations.



CLOSURE REPORT

Property:

San Juan 27-9 #94A (07/26/23) Unit Letter F, S19 T29N R7W Rio Arriba County, New Mexico

New Mexico EMNRD OCD Incident ID No. NAPP2320734440

November 2, 2023

Ensolum Project No. 05A1226254

Prepared for:

Enterprise Field Services, LLC

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

Prepared by:

Chad D'Aponti Project Scientist Kyle Summers Senior Managing Geologist

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1.0 INTRODUCTION

1.1 Site Description & Background

Operator:	Enterprise Field Services, LLC / Enterprise Products Operating LLC (Enterprise)
Site Name:	San Juan 27-9 #94A (07/26/23) (Site)
NM EMNRD OCD Incident ID No.	NAPP2320734440
Location:	36.712269° North, 107.616695° West Unit Letter F, Section 19, Township 29 North, Range 7 West Rio Arriba 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)

For clarification, it should be noted that although the Site nomenclature does not match the listed coordinates, the coordinates and Public Land Survey System (PLSS) details are correct for this release.

On June 2, 2023, a release of natural gas from the San Juan 27-9 #94A pipeline was identified by a third party. Enterprise verified the release and subsequently isolated and locked the pipeline out of service. On July 25, 2023, Enterprise initiated activities to repair the pipeline and remediate petroleum hydrocarbon impact. On July 26, 2023, 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 were identified in the same PLSS section as the Site. One POD (SJ-00039) was identified in



an adjacent section. The depth to water for this POD is recorded as 435 feet below grade surface (bgs). This POD is approximately 1.6 miles southeast of the Site and approximately 390 feet lower in elevation than the Site (**Figure A**, **Appendix B**).

- Numerous cathodic protection wells (CPWs) were identified in the NM EMNRD OCD imaging database in the same 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 than 700 feet from the Site. Documentation for the cathodic protection well located near the San Juan 29-7 Unit #94A well location indicates a depth to water between 170 feet and 180 feet bgs. This cathodic protection well is located approximately 620 feet north of the Site and is approximately 11 feet lower in elevation than the Site. Documentation for the cathodic protection well located near the San Juan 29-7 Unit #119 well location indicates a depth to water of approximately 70 feet bgs. This cathodic protection well is located approximately 690 feet south of the Site and is approximately 16 feet lower in elevation than the Site.
- The Site is not 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 Enterprise estimates the depth to water at the Site to be greater than 50 feet bgs, resulting in a Tier II ranking. However, the soil requirements of NMAC 19.15.29.13(D)(1) indicate that a minimum of the upper four feet must contain "uncontaminated" soil and that the soils meet Tier I closure criteria listed in Table 1 of NMAC 19.15.29.12.



Applicable closure criteria for Tier I soils and Tier II soils (below four feet) remaining in place at the Site include:

Tier II Clo	sure Criteria for Soils Impacted by a	Release
Constituent ¹	Method	Limit
Chloride	EPA 300.0 or SM4500 CI B	10,000 mg/kg
TPH (GRO+DRO+MRO) ²	EPA SW-846 Method 8015	2,500 mg/kg
TPH (GRO+DRO)	EPA SW-846 Method 8015	1,000 mg/kg
BTEX ³	EPA SW-846 Method 8021 or 8260	50 mg/kg
Benzene	EPA SW-846 Method 8021 or 8260	10 mg/kg

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

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

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).

3.0 SOIL REMEDIATION ACTIVITIES

On July 25, 2023, Enterprise initiated activities to repair the pipeline and remediate petroleum hydrocarbon impact resulting from the release. During the remediation and corrective action activities, Sunland Construction Inc, provided heavy equipment and labor support, while Ensolum provided environmental consulting support.

The final excavation measured approximately 25 feet long and 14.5 feet wide at the maximum extent. The maximum depth of the excavation measured approximately 14 feet bgs. The lithology encountered during the completion of remediation activities consisted primarily of silty sandy clay underlain by sandstone.

Approximately 260 cubic yards (yd³) of petroleum hydrocarbon-affected soil and 13 barrels (bbls) of hydro-excavation soil cuttings and water were transported to the Envirotech, Inc., (Envirotech) landfarm in San Juan County, NM for disposal/remediation. The executed C-138 solid waste acceptance form is provided in **Appendix C**. Enterprise has not yet determined a permanent repair strategy for the pipeline; therefore, the excavation has not yet been backfilled at the time this document was finalized. Once the permanent pipeline repairs are completed, the pipeline excavation will be backfilled with imported fill and then contoured to the surrounding grade.

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



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

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).

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 18 composite soil samples (S-1 through S-16, S-4a, and S-8a) from the excavation for laboratory analysis. The composite samples were comprised of five aliquots each and represent an estimated 200 square foot (ft²) or less sample area per guidelines outlined in Section D of 19.15.29.12 NMAC. Hand tools or the excavator bucket were utilized to obtain fresh aliquots from each area of the excavation. Regulatory correspondence is provided in **Appendix E**.

First Sampling Event

On July 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 (14') was collected from the floor of the excavation. Composite soil samples S-2 (0' to 4'), S-3 (4' to 14'), S-4 (0' to 4'), S-5 (4' to 14'), S-6 (0' to 4'), S-7 (4' to 14'), S-8 (0' to 4'), and S-9 (4' to 14') were collected from the walls of the excavation. Subsequent soil analytical results identified total BTEX and TPH concentrations that exceeded the applicable NM EMNRD OCD closure criteria for composite soil samples S-2, S-3, S-4, and S-8.

Second Sampling Event

In response to the exceedances of composite samples S-2, S-3, S-4, and S-8 during the first sampling event, additional soil was removed by excavation and transported to the landfarm for disposal/remediation. On August 2, 2023, a second sampling event 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-10 (14') was collected from the floor of the excavation. Composite soil samples S-4a (0' to 4'), S-8a (0' to 4'), S-11 (0' to 4'), S-12 (4' to 14'), S-13 (0' to 4'), S-14 (4' to 14'), S-15 (0' to 4'), and S-16 (4' to 14') were collected from the walls of the excavation.

All soil samples were collected and placed in laboratory-prepared glassware. The containers were labeled and sealed using the laboratory-supplied labels and custody seals and were stored on ice in a cooler. The samples were relinquished to the courier for 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, S-4a, S-5 through S-7, S-8a, and S-9 through S-16) to the applicable NM EMNRD OCD closure criteria. The soils associated with composite soil samples S-2, S-3, S-



4, and S-8 were removed from the Site, and therefore, are not included in the following discussion. The laboratory analytical results are summarized in **Table 1** (**Appendix F**).

- The laboratory analytical results for composite soil samples S-1 and S-5 indicate benzene concentrations of 0.22 mg/kg and 0.13 mg/kg, respectively, which are less than the NM EMNRD OCD closure criteria of 10 mg/kg. The laboratory analytical results for all other composite soil samples associated with soil remaining at the Site indicate benzene is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the NM EMNRD OCD closure criteria of 10 mg/kg.
- The laboratory analytical results for composite soil samples S-1, S-5, S-9, and S-10 indicate total BTEX concentrations ranging from 8.7 mg/kg (S-9) to 46 mg/kg (S-5), which are less than the NM EMNRD OCD closure criteria of 50 mg/kg. The laboratory analytical results for all other composite soil associated with soil remaining at the Site 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 Tier II composite soil samples S-1, S-5, S-9, S-10, S-12, S-14, and S-16 indicate combined TPH GRO/DRO concentrations ranging from 27 mg/kg (S-12) to 850 mg/kg (S-5), which are less than the New Mexico EMNRD OCD closure criteria of 1,000 mg/kg (for soils below 4 feet at a Tier II site). Sample depths are provided in **Table 1** in **Appendix F**. The laboratory analytical results for composite soil sample S-7 indicate combined TPH GRO/DRO is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the applicable New Mexico EMNRD OCD closure criteria.
- The laboratory analytical results for composite soil samples S-1, S-4a, S-5, S-6, S-8a, and S-9 through S-16 indicate combined TPH GRO/DRO/MRO concentrations ranging from 11 mg/kg (S-6) to 850 mg/kg (S-5), which are less than the New Mexico EMNRD OCD closure criteria of 100 mg/kg (Tier I) or 2,500 mg/kg (Tier II) (depending on the depth of the represented soil). The laboratory analytical results for composite soil sample S-7 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 or 2,500 mg/kg (depending on the depth of the represented soil).
- The laboratory analytical results for all composite soil samples associated with soil remaining
 at the Site 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
 or 10,000 mg/kg (depending on the depth of the represented soil).

7.0 RECLAMATION

Enterprise has not yet determined a permanent repair strategy for the pipeline; therefore, the excavation has not yet been backfilled at the time this document was finalized. Once permanent pipeline repairs are completed, Enterprise will backfill the excavation with imported fill and then contour to the surrounding grade.

8.0 FINDINGS AND RECOMMENDATION

 Eighteen composite soil samples were collected from the Site. Based on laboratory analytical results, no benzene, BTEX, chloride, or combined TPH GRO/DRO or total combined TPH GRO/DRO/MRO exceedances were identified in the soils remaining at the Site.



 Approximately 260 yd³ of petroleum hydrocarbon-affected soil and 13 bbls of hydroexcavation soil cuttings and water were transported to the Envirotech landfarm for disposal/remediation.

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

9.0 STANDARDS OF CARE, LIMITATIONS, AND RELIANCE

9.1 Standard of Care

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

9.2 Limitations

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

9.3 Reliance

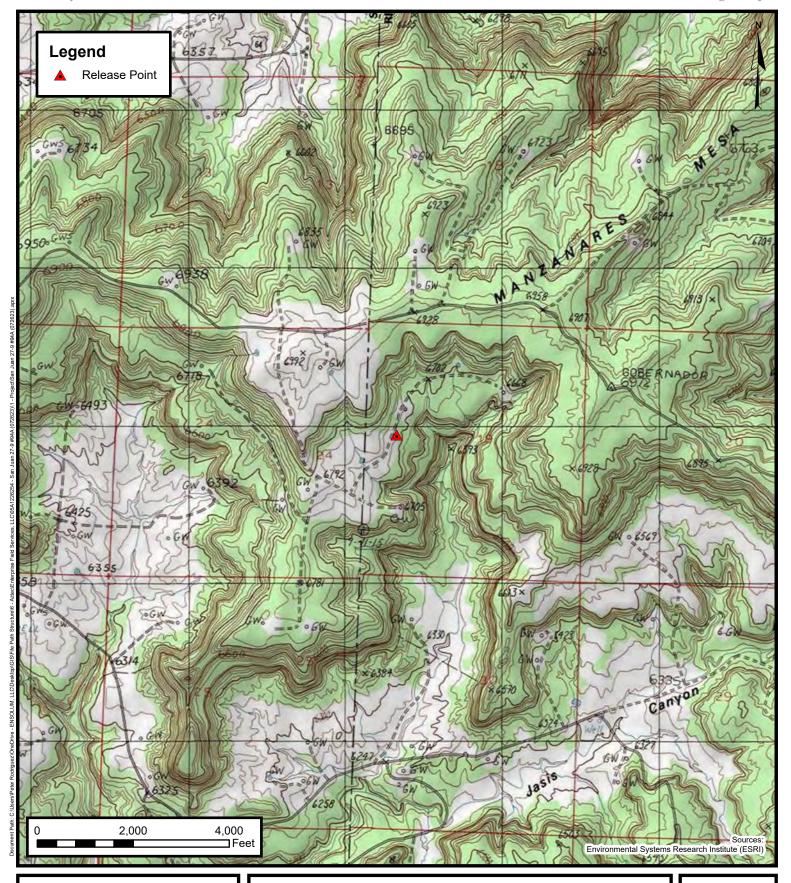
This report has been prepared for the exclusive use of Enterprise, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Site) is prohibited without the express written authorization of Enterprise and Ensolum. Any unauthorized distribution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





APPENDIX A

Figures





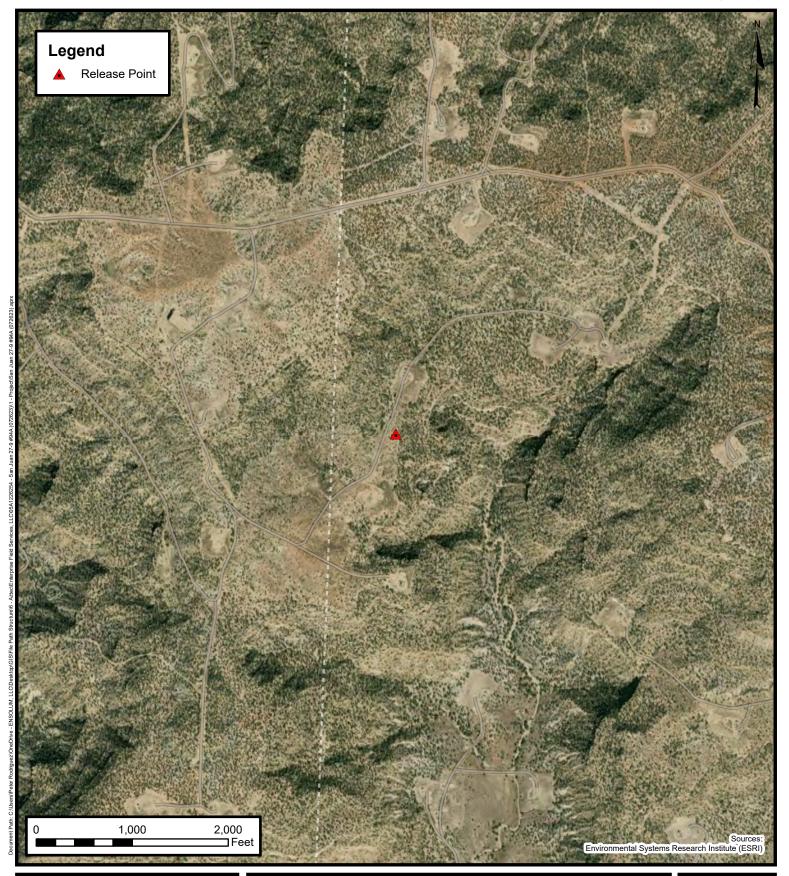
Topographic Map

Enterprise Field Services, LLC San Juan 27-9 #94A (07/26/23) Project Number: 05A1226254

Unit Letter F, S19 T29N R7W, Rio Arriba County, New Mexico 36.712269, -107.616695

FIGURE

1





Site Vicinity Map

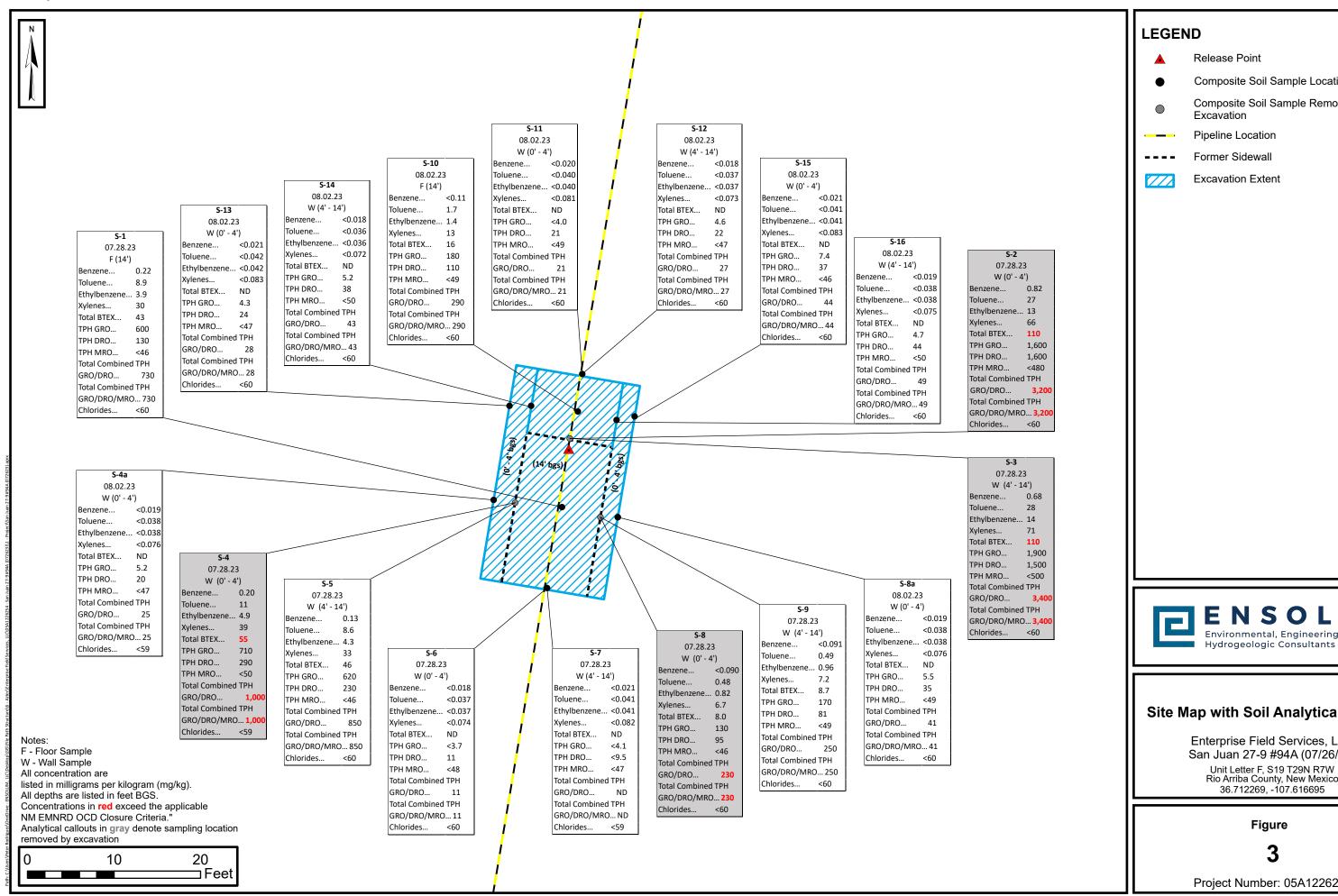
Enterprise Field Services, LLC San Juan 27-9 #94A (07/26/23) Project Number: 05A1226254

Unit Letter F, S19 T29N R7W, Rio Arriba County, New Mexico 36.712269, -107.616695

FIGURE

2

Received by OCD: 11/6/2023 9:44:10 AM Page 14 of 159



- Composite Soil Sample Location
- Composite Soil Sample Removed by
- Pipeline Location
- Former Sidewall

Excavation Extent



Site Map with Soil Analytical Results

Enterprise Field Services, LLC San Juan 27-9 #94A (07/26/23)

Unit Letter F, S19 T29N R7W Rio Arriba County, New Mexico 36.712269, -107.616695

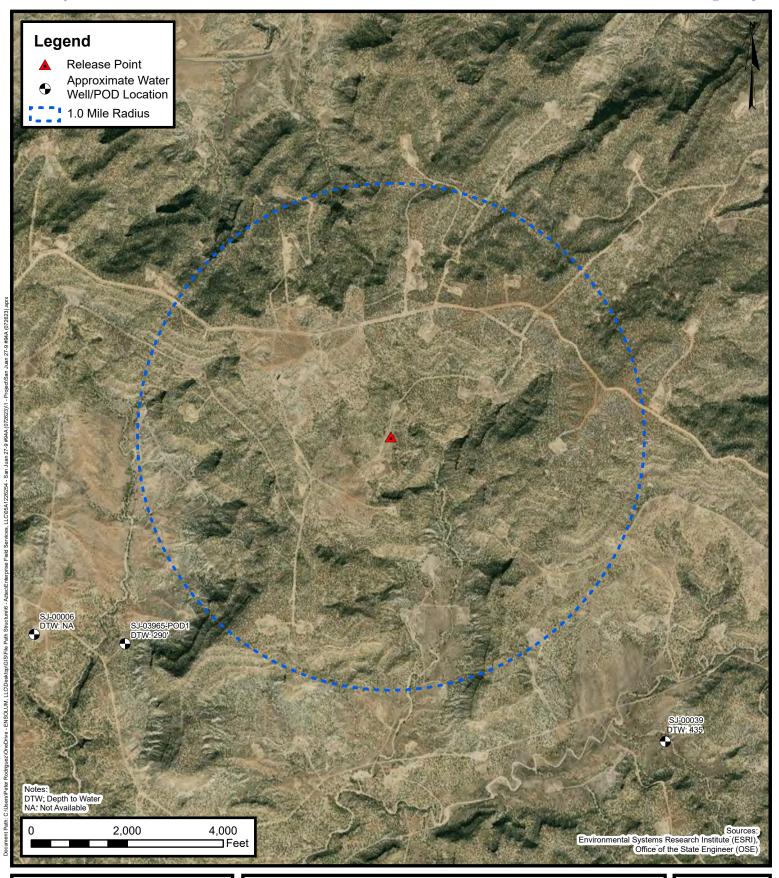
Figure

Project Number: 05A1226254



APPENDIX B

Siting Figures and Documentation





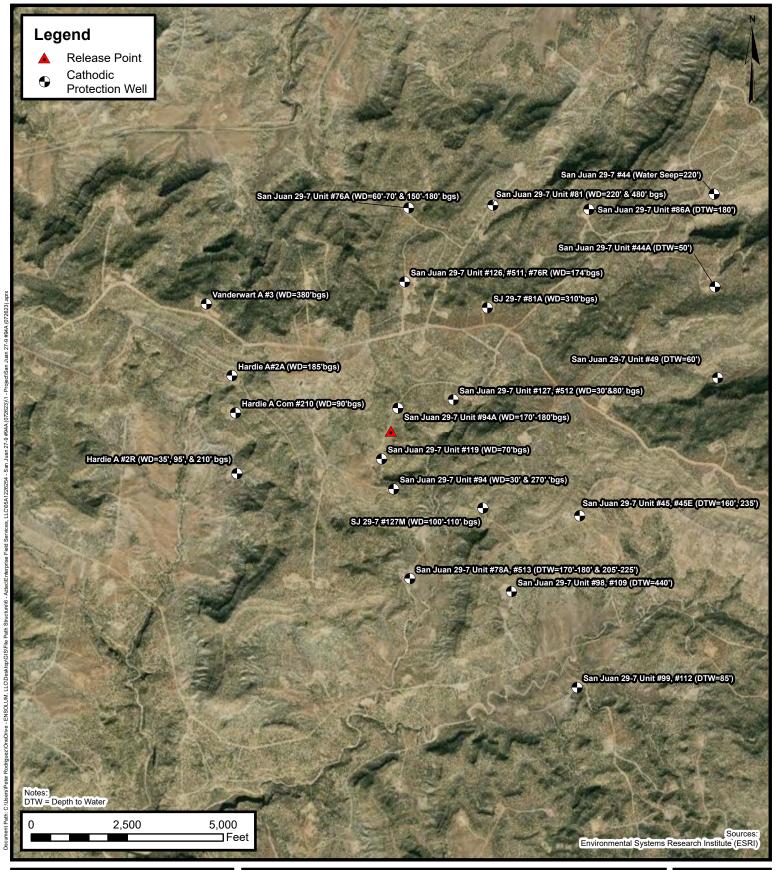
1.0 Mile Radius Water Well/POD Location Map

Enterprise Field Services, LLC San Juan 27-9 #94A (07/26/23) Project Number: 05A1226254

Unit Letter F, S19 T29N R7W, Rio Arriba County, New Mexico 36.712269, -107.616695

FIGURE

A



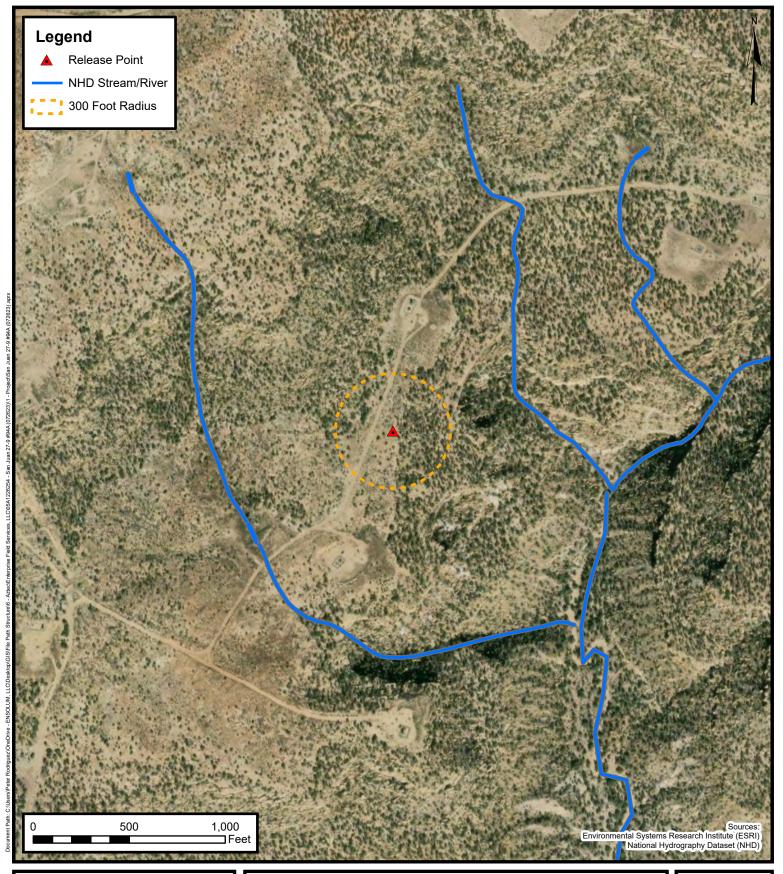


Cathodic Protection Well Recorded Depth to Water

Enterprise Field Services, LLC San Juan 27-9 #94A (07/26/23) Project Number: 05A1226254

Unit Letter F, S19 T29N R7W, Rio Arriba County, New Mexico 36.712269, -107.616695

FIGURE **B**





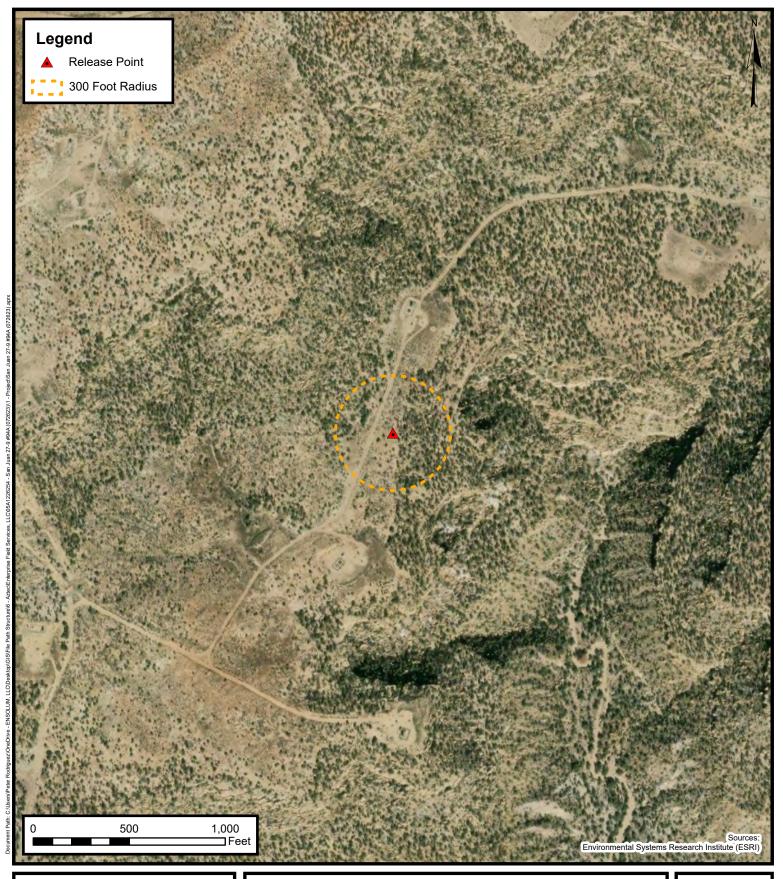
300 Foot Radius Watercourse and Drainage Identification

Enterprise Field Services, LLC San Juan 27-9 #94A (07/26/23) Project Number: 05A1226254

Unit Letter F, S19 T29N R7W, Rio Arriba County, New Mexico 36.712269, -107.616695

FIGURE

C





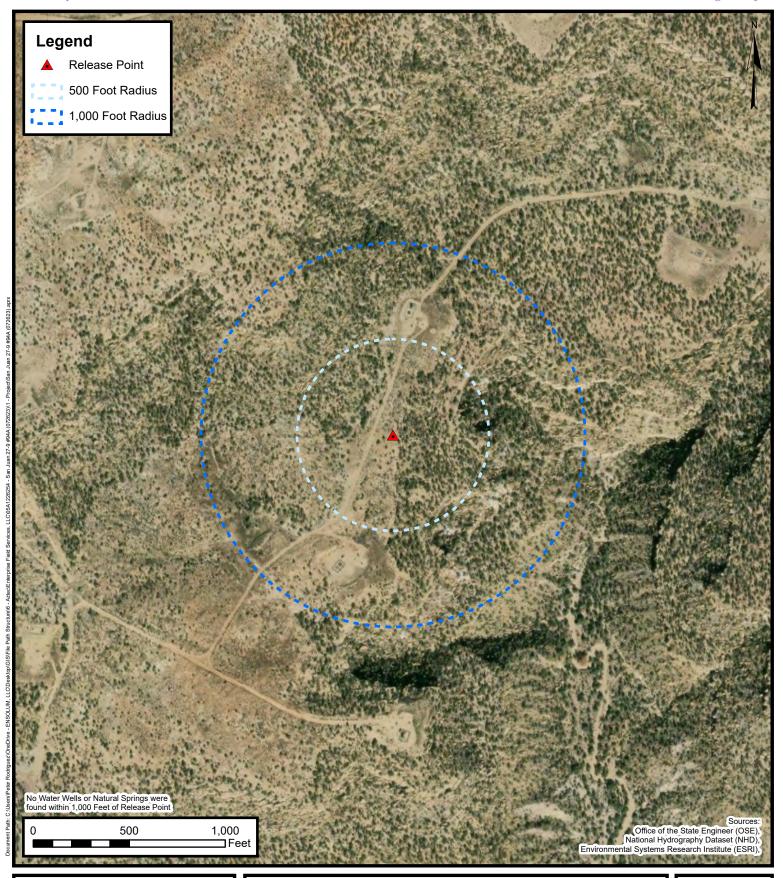
300 Foot Radius Occupied Structure Identification

Enterprise Field Services, LLC San Juan 27-9 #94A (07/26/23) Project Number: 05A1226254

Unit Letter F, S19 T29N R7W, Rio Arriba County, New Mexico 36.712269, -107.616695

FIGURE

D



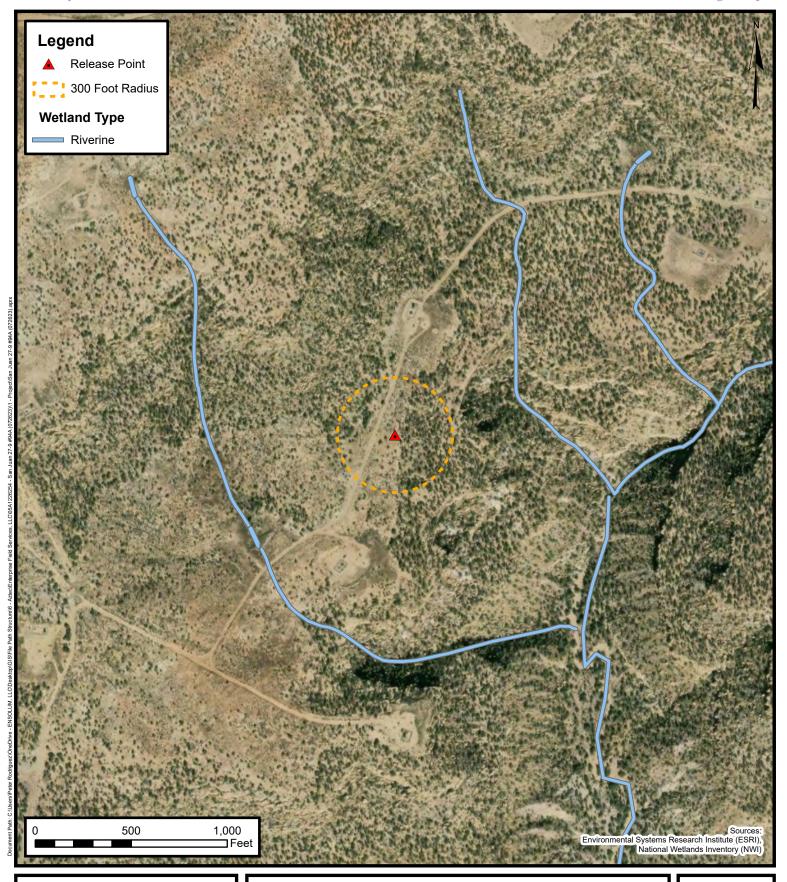


Water Well and Natural Spring Location

Enterprise Field Services, LLC San Juan 27-9 #94A (07/26/23) Project Number: 05A1226254

Unit Letter F, S19 T29N R7W, Rio Arriba County, New Mexico 36.712269, -107.616695

FIGURE





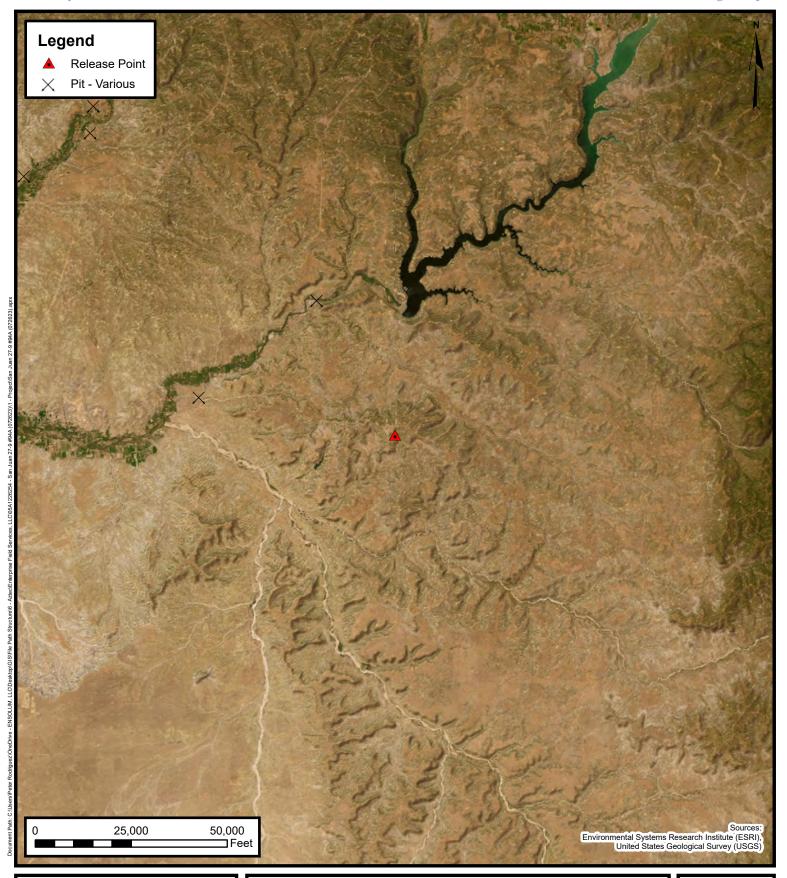
Wetlands

Enterprise Field Services, LLC San Juan 27-9 #94A (07/26/23) Project Number: 05A1226254

Unit Letter F, S19 T29N R7W, Rio Arriba County, New Mexico 36.712269, -107.616695

FIGURE

F



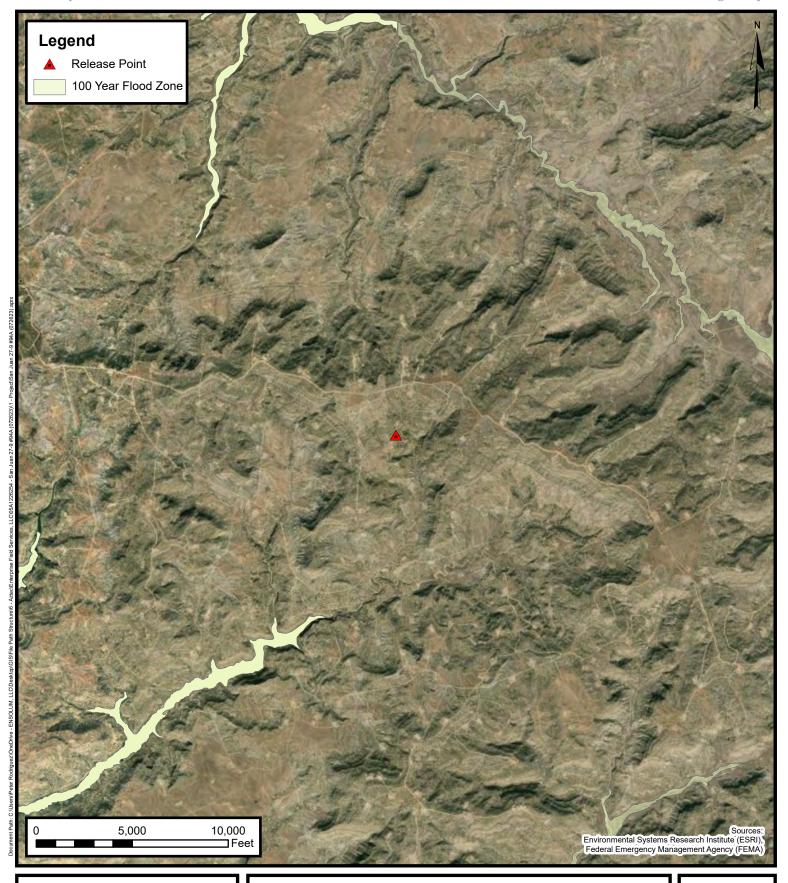


Mines, Mills, and Quarries

Enterprise Field Services, LLC San Juan 27-9 #94A (07/26/23) Project Number: 05A1226254

Unit Letter F, S19 T29N R7W, Rio Arriba County, New Mexico 36.712269, -107.616695

FIGURE





100-Year Flood Plain Map

Enterprise Field Services, LLC San Juan 27-9 #94A (07/26/23) Project Number: 05A1226254

Unit Letter F, S19 T29N R7W, Rio Arriba County, New Mexico 36.712269, -107.616695

FIGURE



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

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

C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

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

 POD

 Sub Q Q Q
 Depth Depth Water

 POD Number
 Code basin County 64 16 4 Sec Tws Rng
 X
 Y
 Well Water Column

 SJ 00039
 SJ RA
 2 3 29 29N 07W
 268022 4064208*
 585 435 150

Average Depth to Water: 435 feet

Minimum Depth: 435 feet

(In feet)

Maximum Depth: 435 feet

DEPTH TO WATER

Record Count: 1

PLSS Search:

Section(s): 19, 17, 18, 20, **Township:** 29N **Range:** 07W

29, 30

*UTM location was derived from PLSS - see Help

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



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

No records found.

PLSS Search:

Section(s): 13, 24, 25 Township: 29N Range: 08W

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

30-039-07569

4621

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

Operator	MERIDIAN OIL	Location: Unit SW Sec. 19 Twp29 Rng 7
Name of Well	/Wells or Pipeline Ser	viced SAN JUAN 29-7 UNIT #94
		cps 91w
Elevation 671	5'Completion Date 6/30/7	72 Total Depth 320' Land Type* N/A
Casing, Size	s, Types & Depths	N/A
If Casing is	cemented, show amount:	s & types used N/A
If Cement or		been placed, show depths & amounts used
		with description of water when possible:
Fresh, Clear	, Salty, Sulphur, Etc.	Wasase
Depths gas e	ncountered: N/A	OIL CON. DIV.
		4200 lbs. DIST. 3
Depths anode	s placed: 280', 270', 260	0', 250', 240', 230', 220', 210', 100', 95'
Depths vent	pipes placed: N/A	
Vent pipe pe	rforations: 260'	
Remarks:	₹gb#2	
If any of the	e above data is unavail	lable, 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.

Form F-238 (Rev. 1-69)

WELL CASING CATHODIC PROTECTION CONSTRUCTION REPORT

Ground Bed #2

Completion Date <u>6-30-72</u>

Drilling Log (Attach Hereto).

San	Jus	معا	29	· _	7 2	79	y	Locat		V	19	_	29	N.	-7W		CPS No.	91 W	
Type & Size E	G 3/4	11				1					•						Work Order . 184 -	No. 522/	7-19-56
Anade Hole D		ſ	Total [Orilli	ng Ric	Time		1 -	1 Lb	_	oke Us	sed	Lost C	rculati	on Mat'l U		No, Sacks N		
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Total Circuit Volts	Resista	nce Am	os	15	1.0	! !	Ohms				~	No.	C.P. C	able U	sed	' ,-		No. 2 C.P. Co	ble Used

Remarks: Hole #1 Drilled TO 320' ATTEMPTED TO LOAL COTE Around YANOdes CONTRACTOR LOT COKE SCTTLE AVOUNL PHMP HOSE Pulled Hose with winch with About 30 from Top 2" pipe Fell of Braking sudes and Danageing wires Rig Moved and prilled Hole 2 Pumped 175 SHOVELS Slurry = 30 SHOVELS

VENT HOSE Perforated 160 Oriller said wet AT 30' STOPPED Drilling 3:30 A.M. Water AT 270' NT 8:30AM

All Construction Completed

Paulet & dorrela

GROUND BED LAYOUT SKETCH

Ende 195' 2554.00 -341,25=

2212,75

2301,26

50' 8 Ground Bed #2

Original & 1 Copy All Reports

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HOLE TO PASO NATURAL GAS COMPANY

DRILLING DEPARTMENT

C.P.S. # 914

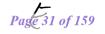
DAILY DRILLING REPORT

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EL PASO NATURAL GAS COMPANY

Received by 990: 11/6/2023 9:44:10.AM - 039-21630



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

Operator MERIDIAN OIL	Location: Unit NW Sec. 19 Twp 29 Rng 7
Name of Well/Wells or Pipeline Servi	ced SAN JUAN 29-7 UNIT #94A
	cps 1414w
Elevation 6717'Completion Date 8/16/79	Total Depth 460' Land Type* N/A
Casing, Sizes, Types & Depths	N/A
If Casing is cemented, show amounts	& types usedN/A
If Cement or Bentonite Plugs have be	en placed, show depths & amounts used
Depths & thickness of water zones wi Fresh, Clear, Salty, Sulphur, Etc.	th description of water when possible: WATER SAND 170' - 180' SAMPLE TAKEN
Depths gas encountered: N/A Type & amount of coke breeze used: Depths anodes placed: 415', 400', 385',	N/A 370'. 355'. 340'. 325' 3100 295€ 270'
Depths vent pipes placed: 460'	DERES D
Vent pipe perforations: 400'	MAY 3 1 1991
Remarks: gb #1	OIL CON. DIV.
	₹

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

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

WELL CASING

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Sype & Size Bit Used	1 9 1	74A		W-19	-29-1	Work Order 1	74/. No.	4 00
	63/4"			STATIC		5		<u>'-21</u>
node Hole Depth 400'	Total Drilling Ri	g Time To	tal Lbs. Coke (Jsed Lost Cii	culation Mat'l Us	sed No. Sacks M	lud Used	
node Depth	00 # 3 385	372	1. 200	- 341) 	310	295	1 10 ラカ
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DISTRIBUTION: · WHITE' — Division (/					N

YELLOW - Area Corrosion Office

STATIC. 80 1414W

SJ. 29-7 #94A

NW-19-29-7

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	Stricker blow water	righ AM (Sample)
MW gals/mol 16 04 C ₁ 6 4 30 07 C ₂ 10 12	Started engerting at 20 Lustinate water at 460' 1' PUCU out perse	1-2 gal per minute.
44.10 C3 10.42 58.12 iC4 12.38 58.12 nC4 11.93 72.15 iC5 13.85		Drieed 460' Leged 46
72.15 nC5 13.71 86.18 lC6 15.50 86.18 C6 15.57 100.21 lC7 17.2 100.21 C7 17.46	200 - William State State Control of the Transferred And State Sta	11.8 V 14.8 A = 79 A
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EL PASO NATURAL GAS COMPANY SAN JUAN DIVISION FARMINGTON, NEW MEXICO PRODUCTION DEPARTMENT WATER ANALYSIS

	Analysis No. 1-9744 Date	10-24-79	-
	Operator ENPG Well Name	San Juan 29-7 # 94 A	Military evapapa
	Location NW 19-29-7 County Rio R	rriba State N.M.	
	Field Formation		· .
	Sampled From 4444WW		
	Date Sampled By		
	Tbg. Press. Csg. Press.	Surface Csg. Press	
	ppm epm	ppm epm	
	Sodium 226 10	Chloride 40 1	-
	Calcium 392 20	Bicarbonate 117 2	 -
	Hagnesium 64 5	Sulfate 1520 32	
	Iron Present	Carbonate 0 0	
	H ₂ S Absent	Hydroxide 0 0	
	cc: D.C.Adams	Total Solids Dissolved 2480	
	R.A.Ullrich E.R.Paulek	рн 8.0	
	J.W.McCarthy	So On at	6C ^O F
	A.M.Smith W.B.Shropshire	Sp. Gr. at	_00 F
ដ	File	Resistivity 333 ohn-cm at 77	o _F
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WT-BIT R.P.M. MUD, ADDITIVES USED AND RECEIVED LENG. LENG. DAILY DRILLING REPORT Total Men In Crew TIME BREAKDOWN SIZE NO. DC SIZE DOWN ON KELLY TOTAL DEPTH SINGLES STANDS FORMATION NO. DC DATE EVENING REPORT NO. MUD RECORD wt. O, Company Supervisor REMARKS -FROM Тіте FROM Driller TYPE MAKE SIZE WT-BIT R.P.M. MUD, ADDITIVES USED AND RECEIVED LENG. LENG. RIG NO. Total Men In Crew TIME BREAKDOWN SIZE NO. DC SIZE DOWN ON KELLY TOTAL DEPTH SINGLES STANDS DRILLING DEP ARTMENT FORMATION NO. DC_ Vis. 10 MUD RECORD 10 REMARKS-SIGNED: Toolpusher CONTRACTOR SERIAL NO. FROM Time FROM BIT NO. Driller TYPE MAKE SIZE WT-BIT R.P.M. MUD, ADDITIVES USED AND RECEIVED LENG. LENG. Total Men In Crew TIME BREAK DOWN SIZE NO. DC SIZE TOTAL DEPTH DOWN ON KELLY SINGLES STANDS FORMATION NO. DC_ MORNING V_{1.5}, 10 MUD RECORD 9 Wt. ~ 09 REMARKS LEASE Š FROM BIT NO. FROM Time Driller TYPE MAKE SIZE SEF

EL PASO NATURAL GAS COMPANY

Form 22-2 (Rev. 1-61)

Received by 0CD; 106/2023 9:44:10 AM
36-039-23602

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

Operator MERIDIAN OIL Location: Unit SW Sec. 19 Twp 29 Rng 7
Name of Well/Wells or Pipeline Serviced SAN JUAN 29-7 UNIT #119
cps 1690w
Elevation 6712 Completion Date 11/19/82 Total Depth 400 Land Type* N/A
Casing, Sizes, Types & Depths N/A
If Casing is cemented, show amounts & types usedN/A
If Cement or Bentonite Plugs have been placed, show depths & amounts used N/A
Depths & thickness of water zones with description of water when possible: Fresh, Clear, Salty, Sulphur, Etc. 70' SAMPLE TAKEN
Depths gas encountered: N/A
Type & amount of coke breeze used: 3500 lbs. :
Depths anodes placed: 380', 370', 360', 350', 340', 290', 280', 270', 260', 235'
Depths vent pipes placed: 400' DEGEIVE
Vent pipe perforations: 330' MAY 31 1991
Remarks: gb #1 ON CON, D. CON,

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

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

FM 07-0238 (Rev. 6-82)

WELL CASING CATHODIC PROTECTION CONSTRUCTION REPORT

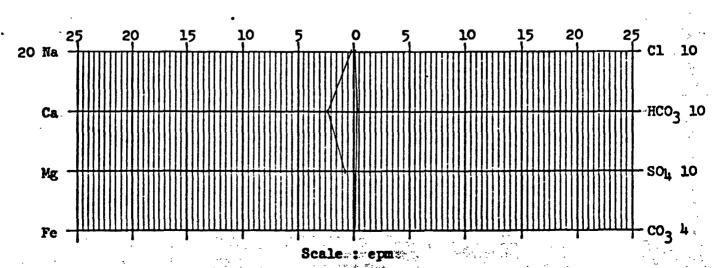
CPS Well Name, Line or Plant	Anode Drilling Rig T 0 # 4 350	Type: UPIFON Total AF	-21-50-20-	Static St	iw = 1.05 carbide	Ins Union Check Good TP Roc No. Sacks Mud Us	☐ Bad
S. J. 29-7 Exercision Anode Size	Anode Drilling Rig T 0 # 4 350	Type: UPIFON Total AF	S Lbs Coke Used	Static St	iw = 1.05 carbide	Ins Union Check	☐ Bad
S. J. 29-7 Exercision Anode Size	Anode Drilling Rig T 0 # 4 350	Type: UPIFON Total AF	S Lbs Coke Used	Size Bit-	arbide.	V G∞d	
Depth Drilled Depth Logged 390'	Drilling Rig T 0 # 4 3.50	urifon Total Af	Lbs Coke Used	Lost Circulation	Carbide Mat'l Used	<u> </u>	
Anode Size Sw-19-29-7 2"x6	Drilling Rig T 0 # 4 3.50	urifon Total Af	Lbs Coke Used	Lost Circulation	Mat'l Used	TIP ROC	KB.
Depth Dolled 400' Anode Depth 1 380	Drilling Rig T	# 5 3 4 0	PROX. 35	Lost Circulation	Mat'l Used	No. Sacks Mud Us	KB.
Depth Dolled 400' Anode Depth 1 380	Drilling Rig T	# 5 3 40	PROX. 35	Lost Circulation	Mat'l Used	No. Sacks Mud Us	ed
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# 1 380 # 2370 # 3360 Anode Output (Amps) # 1 2.91 # 2 3.00 # 3 2.9 Anode Depth # 11 # 12 # 13 Anode Output (Amps) # 11 # 12 # 13 Total Circuit Resistance Volts 12, 43 Amps 12.9 Remarks: St. 95 600' 5- Said Water 70' D Caught Water Sa Addn'l Depth No Depth Credit: 1/0' Extra Cable: 150' Ditch & 1 Cable: 145' Es'Meter Pole: No 10' Meter Pole: No	11 # 4 2.8	Ţ	# 6 290			_	
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EL PASO NATURAL GAS COMPANY SAN JUAN DIVISION FARMINGTON, NEW MEXICO PRODUCTION DEPARTMENT WATER ANALYSIS

Analysis No. 1-10662	Date December 7, 1982	
Operator El Paso Natural Gas	Well Name San Jaun 29-7 #11	7
Location SW 19-29-7	County Rio Arriba State	New Mexico
Field	Formation	
Sampled From CPS 1690W @ 70 Feet		
Date Sampled November 18, 1982	By D.J. Hitt	
Tbg. Press Csg.	Surface Csg. Pres	3S.
ppm epm	ppm	epm ·
Sodium 52 2.3		0.3
Calcium 49 2.4	Bicarbonate 242	4.0
Magnesium 8 0.7	Sulfate 56	1.2
Iron	Carbonate 0	0
H ₂ S·	Hydroxide 0	0
cc: R. A. Ullrich E. R. Paulek	Total Solids Dissolved	294
J: W. McCarthy	pH_ 7.5	-
J. D. Evans		(0.00
W. B. Shropshire	Sp. Gr. 0.9963 At	60°F
D. C. Adams File	Resistivity 1852 ohm-cm	at
•	Joe P. Barnett &	Dennis P. Bird
	Chemist	RZE



Form 22-2 (Rev. 1-61)

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					LING DEPARTMENT	190						,		. •

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4234 Page 41 of 159

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

Operator MERIDIAN OIL INC.	Location: Unit G Sec. 19 Twp 29 Rng 7
Name of Well/Wells or Pipeline Service	ced SAN JUAN 29-7 UNIT #127, #512
	cps 2119w
Elevation 6672 Completion Date 4/19/89	Total Depth 380' Land Type* N/A
Casing, Sizes, Types & Depths	N/A
If Casing is cemented, show amounts &	types used N/A
If Cement or Bentonite Plugs have bee	en placed, show depths & amounts used
N/A	
Depths & thickness of water zones wit	th description of water when possible:
Fresh, Clear, Salty, Sulphur, Etc	30' & 80"
Depths gas encountered: N/A	
Type & amount of coke breeze used:	N/A
Depths anodes placed: 340', 330', 320', 3	310', 300', 290', 280', 270', 230', 220'
Depths vent pipes placed: 365'	- CENVED
Vent pipe perforations: 340'	
Remarks: (gb #1)	AND
·	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.

WELL CASING ... CATHOD. PROTECTION CONSTRUCTION REPORT DAILY LOG

S J 29-7 # 512 34 79 # 60 10 10 10 10 10 10 10	Drilling Log (Attach He	reto) 🔯	4	•		c	omplețion D	te 4-19	-89
2119	केंद्र	Well Name, Line or Plant:	# 127	Work Order #		Static:		Ins. Union Check	
## CAN PLOW AC FROM 102-W 857. 700' ## CAN PLOW		C T 20 C	7 # = 13	3/15	10 1	/ (2.5)	de GO	⊠ Good	
G 9.79-7 2" x 60" Dur 1 000 G3/4 380' Opt tegred 360' Deligne to Tree Treat the office that too General than No. tooks that the other 380' 238' 3390' 24310' 25300' 25200' 27280' 28270' 29230' 210 100000000000000000000000000000000	2119-6	3.1 29-	1 #512	34	17 17	<u> </u>	NW: .88	4	
10 10 10 10 10 10 10 10	ocation:	The second secon	11			Size Bit: / 3/	il	, , , , , , , , , , , , , , , , , , , 	
13 360 360 360 360 360 360 360 360 360 360 37 280 38 270 39 230 30 30 30 30 30 30 3	Depth Drilled			Total Libs.	Geke Used			No. Secks Mind Us	ed
1. 340' = 2 330 330' = 4 310' = 3 300' = 6 340' = 7 280' = 8 270' = 9230' = 10 Incode Original (Ampril) 1. 3 6 = 2 38 = 3 4 2 = 4 4 7 = 5 4 2 = 6 31 = 7 35 = 8 33 = 9 33 = 10 Incode Original (Ampril) 1. 3 12 = 13 = 14 = 15 = 16 = 17 = 18 = 19 = 20 Incode Original (Ampril) 1. 1 12 = 13 = 14 = 15 = 16 = 17 = 18 = 19 = 20 Incode Original (Ampril) 1. 1 12 = 13 = 14 = 15 = 16 = 17 = 18 = 19 = 20 Incode Original (Ampril) 1. 1 12 = 13 = 14 = 15 = 16 = 17 = 18 = 19 = 20 Incode Original (Ampril) 1. 1 12 = 13 = 14 = 15 = 16 = 17 = 18 = 19 = 20 Incode Original (Ampril) 1. 1 12 = 13 = 14 = 15 = 16 = 17 = 18 = 19 = 20 Incode Original (Ampril) 1. 1 12 = 13 = 14 = 15 = 16 = 17 = 18 = 19 = 20 Incode Original (Ampril) 1. 1 12 = 13 = 14 = 15 = 16 = 17 = 18 = 19 = 20 Incode Original (Ampril) 1. 1 12 = 13 = 14 = 15 = 16 = 17 = 18 = 19 = 20 Incode Original (Ampril) 1. 1 12 = 13 = 14 = 15 = 16 = 17 = 18 = 19 = 20 Incode Original (Ampril) 1. 1 12 = 13 = 14 = 15 = 16 = 17 = 18 = 19 = 20 Incode Original (Ampril) 1. 1 12 = 13 = 14 = 15 = 16 = 17 = 18 = 19 = 20 Incode Original (Ampril) 1. 1 12 = 13 = 14 = 15 = 16 = 17 = 18 = 19 = 20 Incode Original (Ampril) 1. 1 12 = 13 = 14 = 15 = 16 = 17 = 18 = 19 = 20 Incode Original (Ampril) 1. 1 12 = 13 = 14 = 15 = 16 = 17 = 18 = 19 = 20 Incode Original (Ampril) 1. 1 12 = 13 = 14 = 15 = 16 = 17 = 18 = 19 = 20 Incode Original (Ampril) 1. 1 12 = 13 = 14 = 15 = 16 = 17 = 18 = 19 = 20 Incode Original (Ampril) 1. 1 12 13 = 14 = 15 = 16 = 17 = 18 = 19 = 20 Incode Original (Ampril) 1. 1 12 13 = 14 = 15 = 16 = 17 = 18 = 19 = 20 Incode Original (Ampril) Incode Original (Ampril) Incode Original (Ampril) Incode Origin		360'						<u> </u>	,
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1		38 #34.2	#447 #5	4.d *	631	#7 3.3	1 8 3 3	#93,3	# 10 2
11	# 12	# 13	#14 #1	5 #	16	# 17	# 18	# 19	# 20
Construction Completed Construction Comple							1	1	
Remarks: DRILLEN 380' LOGGED 360' DRILLER SAID WATER AT 30' + 80' INSTALLEN 365' of 1" PVC NENT PIPE Derforated Bottom 340' # CAN PLOW AC FROM 102-W EST. 700' # CAN PLOW NEGATIVE TO 5 J 29-7 #127 FROM 2119-W cecifier Size: 40 V]	No			J# 16		
# CAN PLOW AC FROM 103-W EST. 700' # CAN PLOW AC FROM 103-W EST. 700' # PLOW NEGATIVE TO S. J. 29-7 #127 PROM 2119-W actifier Size: 40 V 16 A dil Construction Completed bepth Credit: 140' 3. M atta Cable: 380' .72 bitch & 1 Cable: 980' .72 bitch & 1 Cable: 10' breter Pole: 0' Meter Pole: 0' breter Pole: 10' cround BED LAYOUT SKETCH 599.00 599.00 140' 2199. 140' 2199. 144.50' 237.00' 4583.60' 229.18' 329.18'	Volts 12.0	/ Amps 18.8	Ohms 6	39					
# CAN PLOW AC FROM 103-W EST. 700' # CAN PLOW AC FROM 103-W EST. 700' # PLOW NEGATIVE TO S. J. 29-7 #127 PROM 2119-W actifier Size: 40 V 16 A dil Construction Completed bepth Credit: 140' 3. M atta Cable: 380' .72 bitch & 1 Cable: 980' .72 bitch & 1 Cable: 10' breter Pole: 0' Meter Pole: 0' breter Pole: 10' cround BED LAYOUT SKETCH 599.00 599.00 140' 2199. 140' 2199. 144.50' 237.00' 4583.60' 229.18' 329.18'		2007年入 38	m' 1000	co 3/	(n)	1) 10.1.	2 500	2 4 3 4	TT- /
# CAN PLOW AC FROM 102-W EST. 700' # PLOW NEGATIVE TO S. J. 29-7 #127 PROM 2119-W cotifier Size: 40 V 16 A dobred 16 Peth Peth Credit: 140' 3.15 xtra Cable: 380' .72 3 Meter Pole: 0' Meter Pole: 1 Unction Box: 1 3870.00 599.00 62.00 144.50 231.00 4583.60 229.18 7						_			•
# CAN PLOW AC FROM 102-W EST. 700' # PLOW NEGATIVE TO S. J. 29-7 #127 FROM 2119-W ectifier Size: 40 V 16 A addn'l Depth	<u> 47 30</u>	× 80'.	INSTALL	<u>-E1) 3</u>	<u>65 0</u>	<u> </u>	PUC 1/	ENTK	ppe
# CAN PLOW AC FROM 102-W EST. 700' # PLOW NEGATIVE TO S. J. 29-7 #127 FROM 2119-W ectifier Size: 40 V 16 A addn'l Depth	Dector	0750 BA	TT000 3	40'					
3'Meter Pole: 0' Meter Pole: 0' Stub Pole: unction Box: 599.00 599.00 140' 140' 2119. 144.50 237.00 4583.50 229.18' 229.18'	Addn'l Depth Depth Credit: Extra Cable:	140' 3.7 310' .21	5			m	<i>~</i>		d
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	Drill N	0.3
	a T 44	DRILLER'S WELL LOG
		9-7 #5/2 Date 4-19-89
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		if moved from original staked position show dista
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FROM	TO	FORMATION — COLOR — HARDNESS
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<i>55</i>	70	SANdstone
70	80	SAND
80	100	Shale
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		Porvie-Brown
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3354

30-039-25586 F
DATA SHEET FOR DEEP GROUND BED CATHODIC. PROTECTION WELLS
NORTHWESTERN NEW MEXICO

Operator Burling ton Resources Location: Unit Sec. 19 Twpo29 Rng co 7
Name of Well/Wells.or Pipeline Serviced 57 29-7 #/27M
Elevation 6565 Completion Date 4-14-97 Total Depth 160 Land Type SF
Casing Strings, Sizes, Types & Depths 8" PUC X 20"
If Casing Strings are cemented, show amounts & types used 4 Bags Portland
cement
If Cement or Bentonite Plugs have been placed, show depths & amounts used
none
Depths & thickness of water zones with description of water: Fresh, Clear,
Salty, Sulphur, Etc. 100'-110' fresh, Seep
Depths gas encountered: Nowe
Ground bed depth with type & amount of coke breeze used: 160' 1200 1bs
10risio SW Coke Brieze
Depths anodes placed: 151, 145, 139, 133, 127, 111, 105
Depths vent pipes placed: //oo'
Vent pipe perforations: 90' to bottom DECEIVED
Remarks: FEB 2 5 1999
OIL COM. DIV.
DUST. A

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: 11/6/2023 9:44:10 AM API TOSE AS PF 233 Contractors of Cathodic Protection Services Elw. 6568 GE GROUND BED CONSTRUCT! WORKSHEET 9054W Burlington Responses, S.J. 29-7 #127M 19-029-007 4-14-97 Jack Ledboth = CHMS/O Dall 11" hale 20' and set 20' of 2" PUL Casing and rement to Sur face Drill 8" holo from 20'- 160' and set 7 andes and 12001 CNTCDCM TOIRSTO \$ 10 Coke Breeze HaO 4+ 100++ 12 april ANCOE DESTH ANODE DEPTH LOG Lsa ANDDE DEPTH LOG LCE | ANODE ANCEE ANODE ANGDE ANCDE # # 100 295 4=3 685 105 455 690 ভ্ৰত 110 500 695 305 115 EUE 1,10 700 <u>3:0</u> 120 513 ANGDE' DEPTH NO 125 COKE 116 355: 130 523 325 135 4 GEE 525 140 533 535 340 2.0 345 540 545 100 150 <u>550</u> 555 155 36 Ø 170 E:0 36 E 175 E63 370 10 180 570 375 11 185 SEB 12 100 385 Sag 13 95 352 14 390. צימימ 550 15 395 <u> 26'5</u> 595 400 15 21.0 405 17 600 2:5 4:0 505 18 553 5:2 19 ₹<u>5</u> 23 5:5 :33 21 520 :35 438 525 22 より <u>6</u>38 23 :45 -B.L.L. 635 24 <u>6:2:</u> 445 25 540 453 645 25 <u>:50</u> 455 €<u>∃</u>∂ 27 55 6 E E 460 38 <u>70</u> ΞĠ 465 660 565 30 470" <u>6,9</u> <u>670</u> 482 675 Released to Imaging: 1/3/2024 11

4609

30-039-07626

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

Operator	MERIDIAN OIL	Locat	ion: Uni	t NE Sec. 18	Twp 29 Rng 7
Name of Wel	.l/Wells or Pipeline	Serviced	SAN_JUAN_	29-7 UNIT #8	1
					cps 85w
Elevation_6	722'Completion Date_	<u>5/1/74</u> Tota	ıl Depth <u></u>	520' Land	Type*_N/A
Casing, Siz	es, Types & Depths_	N/A			
If Casing i	s cemented, show amo	ounts & type	s used	N/A	
	r Bentonite Plugs ha	-		w depths &	amounts u se d
Depths & th	ickness of water zon	nes with des	cription	of water w	hen possible:
Fresh, Clea	r, Salty, Sulphur, H	Etc. 220	' & 480'	<i>UN</i>	EIVED
Depths gas	encountered:	V/A			31 1997.
	nt of coke breeze us				IST. 3
Depths anod	es placed: 400', 390	380', 370',	360', 350	' <u>. 340'</u> . 330'	320' 300'
Depths vent	pipes placed:	1/A			
Vent pipe p	erforations:	250'			
Remarks:	gb #2				
					

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

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

CONTRACTORS
DIAMOND CORE DRILLING
DIAMOND CORE DRILLING
DIAMOND C

Released to Imagine 1/2/22

SHAFT SINKING WATER WELL DRILLING					
Drill (F.D)	15W			Date <u>5-/-</u>	14
Owner					
Location	_		Macia		
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Helper.					
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*Received by OCD: 11/6/2023 9:44:10 AM

EL PASU NATURAL GAS COMPANT ENGINEERING DEPARTMENT

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

Operator	MERIDIAN OIL	Location: Unit SW Sec. 18 Twp29	Rng 7
Name of Well/W	Nells or Pipeline Servi	ced <u>SAN JUAN 29-7 UNIT #126, #511</u>	. #76R
		cps	84w
Elevation 6910	Completion Date 10/20/71	1_Total Depth <u>620'</u> Land Type*_	N/A
Casing, Sizes,	Types & Depths	N/A	
If Casing is c	emented, show amounts a	& types used <u>N/A</u>	
If Cement or E	entonite Plugs have bee	en placed, show depths & amount	s used
Depths & thick	ness of water zones wit	th description of water when po	ssible:
Fresh, Clear,	Salty, Sulphur, Etc	DEGELVE	
Depths gas enc	ountered: N/A	10 1991	
Type & amount	of coke breeze used:	9600 lbs. OIL CONL DIV	
Depths anodes	placed: 570', 560', 550',	, 540', 530', 520 <u>'</u> , 475', 465', 455',	445'
Depths vent pi	pes placed: 570'		
Vent pipe perf	orations: 423'		
Remarks: <u>[qb #2</u>	2-: LOST HOLE #1 AT 520'. #	#1 ANODE NO RESPONCE TO COKE.	
If any of the	above data is unavailab	ole, please indicate so. Copies	of all

lf 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.

Form-7-238 (Rev. 1-69)

WELL CASING CATHODIC PROTECTION CONSTRUCTION REPORT DAILY LOG

To 190

Drilling Log (Attach Hereto).

Completion Date 10-20-71

Well Name		Loca	tion			CPS No.		2
50N Jua	N29-7	NO.76V	SW/18	-29N	-7W	1 8	4 W	
Type & Size Bit Used	- 	/				Work Order I		
6 3/4						184-	54766-	-50-20
Anode Hole Depth	Total Drilling Ri	g Time To	tal Lbs. Coke Us	ed Lost Circ	ulation Mat'l Us	ed No. Sacks M	fud Used	
620'			9600					3-2
Anode Depth			1/)		T		1	1
#1 570 #2 560	1 # 3 550	# 4 540	# 5 530	# 6 520	# 7 475	= 8 465	# 9 455	# 10 445
Anode Output (Amps)					1	1		1
#1 1.85 #2 2.7	0 # 3 3.7	# 4· 3.5	# 5 3. 1	# 6 3.0	# 7 2.8	#8 3.1	# 9 3.3	# 10 3. >
Anode Depth		1		1	1		1	1 ~~
# 11 # 12	# 13	# 14	# 15	# 16	# 17	# 18	# 19	# 20
Anode Output (Amps)		1		1		1		1
# 11 # 12	# 13	# 14	# 15	# 16	# 17	# 18	# 19	¦# 20
Total Circuit Resistance		1		No. 8 C.P. Cat	ole Used		No. 2 C.P. Cal	ble Used
Volts //, 3 A	mps /3.5	Ohms	0.832					÷ 1.,

Remarks: 10-17-71 Driller Drilled To 500' Longed Hole NOT

ENOUGH ROOM. Driller Switched To Mud Hod LOST CIRCULAT.

Drilled To 520' Lost Drilling Bit in Hole. Moved Rig.

DVER and Drilled Hole #2. Vent Hose Perforated 423' to The

Note: #1 Anode No Response To Coke Breeze. Contractor Hod

Not Marked pumping Hose Correctly Bottom of Pumping Hose

Was 13' Above #1 Anode. Pumped 385 SHove/5=55 Sacks Complete

By Slurry. Driller Blew water out of Hole

At 174'. Note: Positive and Negative Paulih.

& Ground Bed

Cables NOT ENSTAlled GROUND BED LAYOUT SKETCH
TObe ENSTAlled LaTer By DOZEN

261

RecTifier

Original & 1 Copy All Reports

EL PASO NATURAL GAS COMPANY

DRILLING DEPARTMENT

DAILY DRILLING REPORT

										· DAIL! D	MILLING P		
10 miles and 10 mi	NTRACTOR	٦ ع	nons	W RI	G NO.		REPO	ORT N	ο.	DATE	10-20		197
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DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS NORTHWESTERN NEW MEXICO (Submit 3 copies to OCD Aztec Office)

Operator MERIDIAN OIL	Location: Unit NW Sec. 18 Twp 29 Rng 7
Name of Well/Wells or Pipeline Service	ced SAN JUAN 29-7 UNIT #76A
	cps 1408w
Elevation 6836 Completion Date 8/13/79	Total Depth 495' Land Type* N/A
Casing, Sizes, Types & Depths	N/A
If Casing is cemented, show amounts	& types usedN/A
If Cement or Bentonite Plugs have bee	en placed, show depths & amounts used
Depths & thickness of water zones with	th description of water when possible:
	60' - 70' & 150' - 180' TOO MUDDY FOR SAMPLE
Depths gas encountered: N/A	
Type & amount of coke breeze used:	56 SACKS
Depths anodes placed: 465', 450', 435',	420', 405', 390', 975, 360', 345', 310'
Depths anodes placed: 465', 450', 435', Depths vent pipes placed: 500'	₩ E W B 1991
Vent pipe perforations: 450'	MA 31 1931
Remarks: gb #1)IST. 3
	·

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

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

WELL CASING

CATHODIC PROTECTION CONSTRUCTION REPURT DAILY LOG

- 441	C6	NIRI	g C, T _	**	-	-0: "	, 5
Drilling Log (Attach Hereto).	2	Z"x 6	o" Dux	ZIZON	Completion l	Date	75-7
Well Name 57 29-7-	76A LO	cation N	W 18-	79-	7 CPS No.	1408	W.
Type & Size Bit Used 6 3/4"			STATIC	. = . 82	Work Ord	5134	7-21
Anode Hole Depth 75' Total Drillin	ng Rig Time '	Total Lbs. Coke t	Jsed Lost Circ	culation Mat'l	Used No. Sach	ks Mud Used	
	35 # 4 4 2	0 405	5 = 6 390	#737.	× 836	m = 34	S # 103/0
Anode Output (Amps) # 1 2. 9 # 2 2.8 # 3 Z	4 # 4 Z.Z	# 5 3.1	#6 2.9	#-73.7	1 48 3.	6 #9 2.	7 103.8
Anode Depth # 12 # 13	# 14	# 15	# 16	# 17	# 18	# 19	# 20
Anode Output (Amps) # 11 # 12 # 13	i i≉ 14	# 15	# 16	 # 17	# 18	# 19	# 20 Cable Used
Total Circuit Resistance	1. Z Ohms	182	No. 8 C.P. Cal	ole Used		No. 2 C.P.	Caple Used
Remarks: Nille) alii	rsed	Danie	at	60 to	75'	+ 150 -
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GROUND BED LAYOUT SKETCH

ROU

STUB POLE 40/16 RECT DITCHTICABLE 310

DISTRIBUTION:

WHITE - Division Corrosión Office

YELLOW - Area Corrosion Office

- Originator File

ENGINEERING CALCULATION

STATIC=.88)1408W STZ9-7#76A NW18-29-7 2 Head T By: 8-13-1 File: 51

57347-2

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72.15	nC5	13.71
86.18	iC6	15.50
86.18	C ₆	15 57
100.21	ıC7	17.2
100 21	C7	17.46
114.23	C8	19.39
28.05	C2 [±]	9.64

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EL PASO NATURAL GAS COMPANY DRILLING DEPARTMENT

DAILY DRILLING REPORT

			O'V	, ,			0					, , , , , , , , , , , , , , , , , , ,	DAILY DRILLING	REPORT		
LEASE		WELL	NO.	CON	TRACTO	R _	lose	1	RIG NO.	REF	ORT NO		DATE 8-	13:	19 79	
-		MORNING					7	AYLIGHT				E	VENING		" व्हेर्नेह	
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ved by OCD: 11/6/2023 9	:44:10 AM	/			• Page 58 of 15
	(35 ⁵)	Juleedata	660	335	393
4		V =	30-0	039-256	fZ :
C N TATA) [ROUND BED CAT: WESTERN NEW M	HODIC.PROTECI EXICO	ION WELLS	80017
	1 G065W			9: 0079	
Operator Buc	linton	Locatio	n: UnitSec	./8 TwpZ9	Rng Z
Name of Well/W	ر ells or Pipeline	Serviced 5	J, 29-7	#81A) **
٠.					•
Floration	Completion Date /	7-7-97 mate1	Donth 1200 I	and Type	•
Elevacion	completion pace_/	-/_/_IUCAI		C Pur C) ;
Casing Strings	: r, Sizes, Types &	Depths	20 B	100	93/19
If Casing Stri	ngs are cemented,	show amounts	& types used	<u>i yes</u>	
·		-			
If Cement or E	Bentonite Plugs ha	ve been place	d, show depth	hs & amoun	ts used
None		•			
7 0 0 1			·	- Proch	Clear
• •	mess of water zon	,	ription or way	ter: riesn	, Clear,
Salty, Sulphur	c, Etc. 3/0 —	Fresh			
i					
Depths gas end	countered: None				
Ground bed dep	oth with type & an	mount of coke	breeze used:	400	
•	1100/65				
		(17/2 7/2 2	=/ 25D ZUU	228 337 72	1-320-314L
	placed: <u>(D- 360 37</u>		3130	700000	<u> </u>
Depths vent p	ipes placed: <u>>u</u>		400		
Vent pipe per:		n 300 to	1 . /	DEGE	II WIEID
Remarks:	10 995 PALOUA	told Ducio	of Onlling	UN FEB 2	5 1998
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If any of the	above data is una	available, ple	ease indicate	so. Copie	s 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.

		N: PI	8 -2c				COUNT	V).	IO	arri	- UA				
ATE:		7/7	197				TYPE O	COKE:	Lore	SCO	SIN				
EPTH:		400					AMT. OF	COKE B	ACKFILL:	110					
IT SIZI		6-1					VENT PIPE: 400'								
	R NAME:			Verc			PERF. PIPE: Bottom 100								
IZE AN	ID TYPE	OF CASIN	G: 8"	PVC	-201	,	ANODE	AMT. & T	YPE: A	NOT	ec (1	2)			
							BOULDE	R DRILLI	NG:						
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~~	<u> </u>	 	200		<u> </u>	100		ļ	ISOLATIO	ON PLUG	S:				
00	 	+	265		<u> </u>	430									
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45	 		310	0.5	 	475			7	350	0.7	1.8			
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75	,		340	0.7		505			13			<u> </u>			
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Received by OCD: 11/6/2023 9:44:10 AMUH = 30-039 - 07630

3470 V

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

Operator Metidian Oil INC. Location: Unit A Sec. 17 Two 29 Rng 07
Name of Well/Wells.or Pipeline Serviced
SAN JUAN 29-7 # H4
Elevation 666 Completion Date 3/18/96 Total Depth 485 Land Type F
Casing Strings, Sizes, Types & Depths 3/12 Set 99 of 8" Puc CASING.
NO GAS, WATER, OF Boulders Were ENCOUNTERED During CASING.
If Casing Strings are cemented, show amounts & types used CemenTed
WITH 20 SACKS.
If Cement or Bentonite Plugs have been placed, show depths & amounts used
None
Depths & thickness of water zones with description of water: Fresh, Clear,
Salty, Sulphur, Etc. HIT A Fresh WATER Seep AT 220.
Salty, Sulphur, Etc. Hit A Fresh WATer Seep AT 220.
Salty, Sulphur, Etc. Hit A Fresh WATer Seep AT 220. Depths gas encountered: None
Depths gas encountered: None
Depths gas encountered: None Ground bed depth with type 6 amount of coke breeze used: 485 Depth. Used 64 Sacks of Lotesco Sw (6400#)
Depths gas encountered: None Ground bed depth with type 6 amount of coke breeze used: 485 Depth. Used 64 Sacks of Loresco Sw (6400#) Depths anodes placed: 445 426,395,385,366,395,345,336,336,236,236,236,235,235, +215.
Depths gas encountered: None Ground bed depth with type 6 amount of coke breeze used: 485 Depth. Used 64 Sacks of Loresco Sw (6400#) Depths anodes placed: 445 426,395,385,366,395,345,336,336,236,236,236,235,235, +215.
Depths gas encountered: None Ground bed depth with type 6 amount of coke breeze used: 485 Depth. Used 64 SACKS of Loresco SW (6400#) Depths anodes placed: 445, 426,395,385,365,395,345,336,336,236,236,235,235, +215. Depths vent pipes placed: Sutface To 485. Vent pipe perforations: Bottom 360.
Depths gas encountered: None Ground bed depth with type 6 amount of coke breeze used: 485 DepTH. Used 64 Sacks of Lotesco Sw (6400#) Depths anodes placed: 445, 420,395,385,365,355,345,330,320,310,295,235,235,235,235,235. Depths vent pipes placed: Sutface To 485. Vent pipe perforations: Bottom 360.

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

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

CPS GROUND BED CONSTRUCTION WORKSHEET

0087-W	פיע אפ	ME(s), NUMBE	5.J.	29-7 #H	4	
2406	TOTAL	VOLTE/1.23	24.2	- CHME . 464	3/18/96	JOHN L. Moss
REMARKS (D	0000 FO	r canetrust	100 100) J	Driller Rep	ported A	WATER SEED
			485 of	I"PE Ven	T Pipe, a	WITH THE
BOTTOM	360	Perform	red. C	oke Breez	e To US	5.

DEPTH	L-04	ANDDE	DEPTH	4.00	ANODE	DEPTH	L26	ANODE	DEPTH			<u></u>
	ANODE	•••	1	ANGDE	* ***		ANODE	• 2		Lea	ANGRE	
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105			300	1.8		495			685			
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130			325	24	·	520				111100	COME	CBK.
135	5	1Nd 575/2	330	7.3	8	525			 -	445	7.9	4.0
140			_335	2.1		530			<u>2</u> ± 3	420	2.6	5.3
145			340	2.7		535				395	2.2	5.3 5.2
150			345	2.3	7	540			<u>4</u> 5	385	2.1	2.2
155			350	3.1		545	f		6	365' 355'	2.6	5.7
160			355	2.5	=6	550			7		2.5	5.6
165			360	2.3		555	——-	·	8	345	2.2	5.0 55
170			365	2.5	-5	560			9		2.5	25
175			370	2.0		565			10	320	2.6	5.5
180			_375	2.0		570			11	290'	2.2	5./
185	V		380	2.1		575			12	270	2.3	5./ 49
190	.3		385	2.1	#	580	·		13	255	2.0	
195	.4		390	2.2		585			14	235	2.3	4.6
200	7		395	2.1	3	590			15	215	2.5	5.
205	7		400	2.0		595			16		<u> </u>	1-21-
210	.9		405	1.7		600			17		·	i
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225	2.1		420	2.5	2	615			20		1	1
230	1.8		425	1.7		620			21		1	<u> </u>
235	2.4	- 1H	430	1.9		625			22			
240	2.2		435	1.7		630			23			
245	1.7	-	440	1.8		635			24			
250	1.9	77	445	1,9		640			25			
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CISTRIBUTION - original - permenent CPS FILE

Released to Imaging: 1/3/2024 11:14:35 AM - Puntage Corrector Supervised

Received by OCD: 11/6/2023 9:44:19 AM -039-21980

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS

NORTHWESTERN NEW MEXICO

(Submit 3 copies to OCD Aztec Office)

Operator MERIDIAN OIL Locati	on: Unit_SE_Sec17_Twp_29_Rng_7_
Name of Well/Wells or Pipeline Serviced	SAN JUAN 29-7 UNIT #44A
	cps 1550w
Elevation 6668'Completion Date 8/20/80 Total	Depth 400' Land Type* N/A
Casing, Sizes, Types & Depths	N/A
If Casing is cemented, show amounts & types	usedN/A
If Cement or Bentonite Plugs have been plac	ed, show depths & amounts used
Depths & thickness of water zones with desc	
Fresh, Clear, Salty, Sulphur, Etc.	50' SAMPLE TAKEN
Depths gas encountered: N/A	
Type & amount of coke breeze used:	43 SACKS
Depths anodes placed: 340', 330', 302', 310', 300	0', 290', 280', 270', 260', 250'
Depths vent pipes placed: 375' ;	CEIVEM
Vent pipe perforations: 315'	IAY 8 1 1991.
	CON. DIV.
	DET 3

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

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

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

CATHODIC PROTECTION CONSTRUCTION REPORT DAILY LOG

Drilling Log	(Attach Hereto		2	x60	ANOS	ر افع	ompletion Dat	e 8-2	0=80
Well Name	J 29-	7#44		tion	7-29-7		CPS No.	1550-	تنا
Type & Size	Bit Used 6	3/4					Work Order		5.2L
	d 375	Fotal Drilling Ri	q Time To	tal Lbs. Coke U 43 Sac		ulation Mat'l Us	sea No. Sacks M	fud Used	
Anode Depth	# 2 33 8	 # 3 320	# 4 3 1 D	300	= 6 290°	= 7 28d	* 8 276	26°	# 10 25 &
# 1 3.3	(Amps) # 2 2.9	# 3 2,6	# 4 2.9	# 5 2,5.	# 6 2.6	\$ 7 3.0 -	z 8· 27	# 9* 2*3	#103.3
Anode Depth #.11°	# 12	# 13	# 14	± 15	# 16	# 17	≠ 18	# 19	# 20
Anode Output	(Amps) # 12	# 13	: 14	 # 15	# 16	± 17	# 18	# 19 : 5 T	# 20
Total Circuit Volts /	Resistance. Amp	s /3.6	Ohms	.77	No. 8 C.P. Cab	ole Used	· · .	No. 2 C.P. Ca	ole Used
					1. Tag			به ماه در العاد درد .	were transfer to the contract of the contract

Remarks: STATIC 600' NW 1,0 UNION. F/2 NOT land

DRIVER SAID HIT WATER AT 50' NEXT A.M. Blew WATER.

GOT WATER Sample, Making Approx 2 gal, Per minute Installe

375' OF I'VENT P.P. Perforated 315' OF VENT P.P. SET. T. Audi

AT 355', Hole Caved, had To move 21 Anode UP 15'.

1 10' STUB Pole V

Ditch+ 1cable- 336°

EYTRA Cable - 157 GROUND BED LAYOUT SKETCH

HOLE DEPTH - 125'

All Construction Completed

Willis Znight (Signature)

DISTRIBUTION:

WHITE - Division Corrosion Office YELLOW - Area Corrosion Office

PINK - Originator File

weel

209°
Rect G.B

El Paso Natural Gas Company ENGINEERING CALCULATION

S.J 29-7-#44A SE 17-29-7 CPS 1550-W W/0 57695-21

STUB

DITCH + 1 dable 336"

1 40V 16A RECT

EXTRA Cable

Hole Depth

Pole

157.

STATIC 600'NW - 1.0 UNION - F/L NOT Laid Sheet: ____of__ Date: 8-20-8

DRIVER Said hit Water at

50' NexT AM Blew WATER

GOT WATER Sample FASTALLA 375 of I" VENT PIPE, PERLORS

315 OF VENT PIPE STURRY

43 SOCKS OF COKE, SETTI Amode of 355', Hole Caved what To Raise # 1 Anose up 15:

10.5 V 13.6 A 77 2

MW_	ga	is/mol
16 04	C ₁	6.4
30 07	C ₂	10.12
44 10	Сз	10.42
58 12	ıC4	12.38
58.12	nC4	11 93
72.15	iC5	13 85
72.15	nC5	13 71
86.18	ıC6	15 50
86.18	C ₆	15 57
100 21	IC7	172
100 21	C7	17.46
14.23	Св	19 39
28.05	C2 [:]	9.64
42.08	C3 [±]	9 67

gais/mol

O₂ 3 37

N2 4 16

CO2

SO₂

H₂S 5 17

4 19

5 50

3 38

MW 32.00

28.01

44 01

64.06

34 08

28 01

2 02

50	. 6 i	200	.4	50.	1.6.	
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EL PASO NATURAL GAS COMPANY SAN JUAN DIVISION FARMINGTON, NEW MEXICO PRODUCTION DEPARTMENT WATER ANALYSIS

	Analysis No. 1-10020	Date 11-12-80	
	Operator El Paso Natural Gas	Well Name San Juan 29-7 #44A	
	Location SE 17-29-7	County San Juan State New Mexico	
	FieldBlanco	Formation	
	Sampled From CPS 1550 W.@ 50 ft.		
	Date Sampled 8-20-80	By Willis Knight	
	Tbg. Press Csg.	Surface Csg. Press	
		ppm epm Chloride 16 0.5	
	Calcium 48 2.4	Bicarbonate 229 3.8	
	Magnesium 11 0.9	Sulfate 40 0.8	
	Iron No test	Carbonate 0 0	•
	H ₂ S No test	Hydroxide 0 0	
	cc: C.B. O'Nan R.A. Ullrich	Total Solids Dissolved 274	
	E.R. Paulek	pH7.9	
	J.W. McCarthy A.M. Smith	Sp. Gr9964 At 60°F	
	W.B. Shropshire D.C. Adams	Resistivity 2000 ohm-cm at 77°F	
	File	De Banilt	
		Chemist	
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TOTAL DEPTH400' T.D. 375

R.P.M.

Total Men In Crew

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FORMATION

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SIGNED: Toolpusher

Company Supervisor

Received by OCD: 11/6/2023 9:44:10 AM 39-22629

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

Operator MERIDIAN OIL Location: Unit NW Sec. 17 Twp 29 Rng 7
Name of Well/Wells or Pipeline Serviced SAN JUAN 29-7 UNIT #86A
cps 1689w
Elevation 6770' Completion Date 11/23/82 Total Depth 400' Land Type* N/A
Casing, Sizes, Types & Depths N/A
If Casing is cemented, show amounts & types usedN/A
If Cement or Bentonite Plugs have been placed, show depths & amounts used N/A
Depths & thickness of water zones with description of water when possible:
Fresh, Clear, Salty, Sulphur, Etc. 180' SAMPLE TAKEN
Depths gas encountered: N/A
Type & amount of coke breeze used: 3500 lbs.
Depths anodes placed: 360', 350', 340', 330', 320', 310', 300', 290', 270', 260'
Depths vent pipes placed: 380' DEGETYED
Vent pipe perforations: 230' MAY 81 1991
Remarks: /gb #1 OIL CON. DIV.)
DIST. 3

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

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

FM 07-0238 (Rev. 6-82)

WELL CASING CATHODIC PROTECTION CONSTRUCTION REPORT DAILY LOG

Drilling Log (Attach H	lereto).				Co	empletion D	ate 11-2	3-82
CPS #	Well Name, Line or Plant		Work Orde		Static:		Ins. Union Check	
1689-W	S.J. 29-7 #	96-A	5910	- 2 - 50 - 20	-64 600 3 =	. 8/	☑ Good	☐ Bad
Location	Anode Size	Anode Type			Size Bit:	•		
Nw - 17 - 29 - Depth Drilled	7 2"x60"	Drilling Rig Time		Lbs. Gøke Used	Lost Circulation	Arbide]	No Sacks Mud Use	<u>k B.t.</u>
400 '	375'	Drining Kig Time	- 1	PROX.3		mat i Used	No Sacks Mild Os	
# 1 3 6 0 # 2	1	33.		I	1	290	220	J. 30 20 0
Anode Output (Amps	350 #3340			í	1	×8 290	# 9 270	,
# 1 2. (, 2 # 2	3.03 #3302	# 4 2.79 # 5	2.64	#6241	# 7 3.80	1= 8 2.25	# 9 2.94	# 10 2. 8
# 11 # 12	# 13	# 14 # 15		# 16	# 17	! # 18	# 19	# 20
Anode Output (Amps	<u> </u>						1	
# 11 # 12 Total Circuit Resist	ance	# 14 # 15		# 16 No. 8 C.P. Cal	¦# 17 ole Used	# 18	# 19 No. 2 C.P. Cat	# 20 ble Used
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vent PiF	re. 230' Pe	er Firations						
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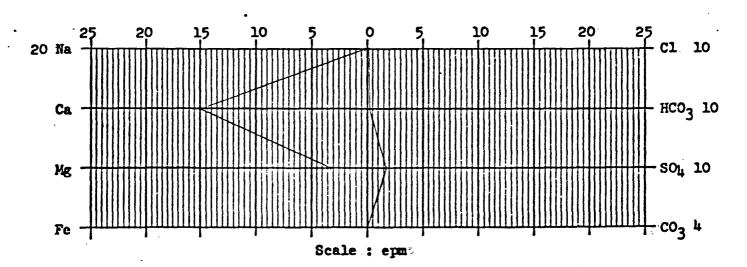
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EL PASO NATURAL GAS COMPANY SAN JUAN DIVISION FARMINGTON, NEW MEXICO PRODUCTION DEPARTMENT WATER ANALYSIS

Analysis No. 1-10663	Date December 7, 1982
Operator El Paso Natural Gas	Well Name San Juan 29-7 #86-A
Location NW 17-29-7	County Rio Arriba State New Mexico
Field	Formation
Sampled From CPS 1689W @ 160 F	eet
Date Sampled November 22, 1982	By D. J. Hitt
Tbg. Press. Csg.	Surface Csg. Press
ррш ерш	ppm epm
Sodium 25 1.1	Chloride 10 0.3
Calcium 300 15.0	Bicarbonate 146 2.4
Magnesium 39 3.2	Sulfate 800 16.6
Iron .	Carbonate 0 0
H ₂ S	Hydroxide 0 0
cc: R. A. Ullrich	Total Solids Dissolved 1292
E. R. Paulek J. W. McCarthy	pH 6.9
J. D. Evans	
W. B. Shropshire	Sp. Gr. 1.0013 At 60°F
D. C. Adams File	Resistivity 656 ohm-cm at 73 °F
	Joe P. Barnett & Dennis P. Bird RZS Chemist



Form 22-2 (Rev. 1-61) CPS-1689-W

EL PASO NATURAL GAS COMPANY

DRILLING DEPARTMENT

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Company Supervisor								REMARKS -						FROM			Time	MUD RECORD	S P X III	TYPE	SIZE	SERIAL NO.	BIT NO.						FROM	Driller		REPORT NO.	The state of the s	
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DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS NORTHWESTERN NEW MEXICO (Submit 3 copies to OCD Aztec Office)

Operator MERIDIAN OIL Location: Unit SW Sec. 20 Twp	29 Rng 7
Name of Well/Wells or Pipeline Serviced SAN JUAN 29-7 UNIT #45, #45	SE
	_cps 119w
Elevation 6575' Completion Date 9/9/83 Total Depth 520' Land Typ	e* <u>N/A</u>
Casing, Sizes, Types & Depths 6' OF 8" CASING	
If Casing is cemented, show amounts & types used N/A	
If Cement or Bentonite Plugs have been placed, show depths & amo	ounts used
Depths & thickness of water zones with description of water when	possible:
Fresh, Clear, Salty, Sulphur, Etc. 160'. 235'	IVE
Depths gas encountered: N/A OIL CON.	
Type & amount of coke breeze used: 5000 lbs. \ DIST.	3
Depths anodes placed: 460', 250', 240', 230', 220', 210', 200', 190', 18	30', 170'
Depths vent pipes placed: 510' OF 1" PVC VENT PIPE	
Vent pipe perforations: 440'	
Remarks:gb.#3	
If any of the above data is unavailable, please indicate so. Cop logs, including Drillers Log, Water Analyses & Well Bore Schemat be submitted when available. Unplugged abandoned wells are to b	ics should

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

If Federal or Indian, add Lease Number.

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

WELL CASING CATHODIC PROTECTION CONSTRUCTION REPORT DAILY LOG

Drilling Log (Attach H	ereto)				c	omplețion D	Date 9-9	-83
CPS #	Well Name, Line or Plant:		Work O	rder #	Static.		Ins. Union Check	
	S.J 29-7 #4	45		56-19-50-2				
119-W							□ Good	☐ Bad
111 W								
Location	7 2" X60	Anode Type			Size Bit. 63/4	,		
SW 20-29-	7 2" X60 Depth Logged		, co u	otal Lbs Goke Used	Lost Circulatio	Mari II.	No Sacks Mud U	1
520	507	Drilling Rig Time	10	5,000	Lost Circulatio	n Mat i Used	No sacks mud c	æu
Anode Depth	1 10/	T-L	,	91220		1 -		
	250 #3240	# 4230	# 5 220	# 6210	#7200	* 8 190	#9180	# 10/70
Anode Output (Amps)	2 2 2 2	11-	۔ سر		, ~ !	1 2 11	27	211
# 1 3.0 # 2 Anode Depth	3.2 # 3 3.3	#44.Z	# 5 5-0	#64.6	#74.5	1=83.4	# 9 3.7	# 103.4
# 11 # 12	# 13	# 14	# 15	! !# 16	 # 17	# 18	# 19	! !# 20
Anode Output (Amps)			1	, , , ,	- 		1	
# 11 # 12		# 14	# 15	# 16	# 17	# 18	# 19	# 20
Total Circuit Resista	1		70	No. 8 C.P. Co	ible Used		No. 2 C.P. Co	ble Used
Volts /	Amps /5.5	Ohms .	<u>/੪</u>					
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EL PASO NATURAL GAS COMPANY

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DAILLING DEP ARTMENT	RIG NO. TOT		Total Men In Crew	FORMATION WT-BIT R.P.M.	SandsSandshare		-		NO. DC. SIZE LENG.	NO. DCSIZELENGB		SINGLES	DOWN ON KELLY	TOTAL DEPTH M	AND RECEIVED			-		TIME BREAKDOWN											-			Compo
5W 20-29-7	1/3	DAYLIGHT	Driller	FROM TO	65 500 8		٠			BIT NO.	SERIAL NO.	1E	១	MAKE	MUD RECORD	Time Wt. Vis.				гвом то						REMARKS -								Toolpusher
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30-039-07598

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

Operator_	MERIDIAN OIL	Location: UnitNE Sec.20 Twp 29 Rng 7
Name of We	ell/Wells or Pipeline	Serviced SAN JUAN 29-7 UNIT #49
		cps 293w
Elevation_	6390 Completion Date 5/2	29/74 Total Depth 580' Land Type* N/A
Casing, Si	zes, Types & Depths	N/A
If Casing	is cemented, show amou	unts & types used N/A
If Cement	or Bentonite Plugs hav	ve been placed, show depths & amounts used
	chickness of water zone	es with description of water when possible: 10. 60' DECENTED MAY 3 1 1991
Depths gas	encountered: N/A	HIL CON. DIV
	ount of coke breeze use	DICT
Depths ano	odes placed: 500', 490',	450', 440', 415', 395', 385', 370', 325', 315'
Depths ven	t pipes placed: N/A	
Vent pipe	perforations: 460	1
Remarks:	gb #2	

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

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

WELL CASING

CATHODIC PROTECTION CONSTRUCTION REPORT

Drilling Log (Attach Hereto).	Completion Date	5-29-74
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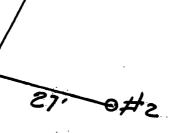
Well Name	29.7 #	#49	1	cation NE 20 - 2	29-7	7	CPS No.	2930	
Type & Size	Bit Used	03/4					Work Order 400	No. 20.01 -	50-20
Anode Hole	⊃epth O	Total Drilling R	ig Time	Total Lbs. Coke U	sed Lost Cire	culation Mat'l U	sed No. Sacks	Mud Used	
Anode Depth	# 2 490	1 450	# 4 440	# 5 415	# 6 3 95	_{# 7} 385	# 8 370	# 9 32 5	_{# 10} 3/5
Anode Outpu # 1 3. 6	t (Amps) # 2 2. 6	#32.1	~1		# 6 /- 8	# 7 /. 9	#8 1.6	# 9 Z.6	# 10 Z. 7
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# 11	# 12	# 13	# 14	!# 15	# 16	‡ 17	# 18	# 19	# 20
Total Circui Volts	! مر ا	mps / 6 · 6	ı	1.15	No. 8 C.P. Ca	32'		No. 2 C.P. Ca	ble Used

Remarks: Driller Soid Water at 60'- Old GNO BED Top anode at 66' Bottom anode at 92'- Helped to Water old GNOBED DIDN'T think Enough Water, Told to Go Deeper Vent Perforated 460 - Pumped 2 Loads Water anodes Covered, Went after onother hood of water Coatr Boid Would Pump to 60 of Surface Left Location to make avodes

\$3,409.00 3,421.20 187.50 X DEPTH

GROUND BED LAYOUT SKETCH

\$3,609.30 144.37 TAX \$3,753.67 TOTAL



STORM WATER WELL DRILLING INC.

DIAMOND CORE DRILLING DIAMOND DRILLING EQUI GROUTING	PMENT	CONTRACTORS 14991 W. 44TH AVE	NUE		GENERAL OFFICE
MINING QUARRYING SHAFT SINKING	South of Berling 1994 and Story Bern Berlin	PHONE (303) 278-95	505	and the state of t	CALL 1-838-4821
Drill Porta	dri11	29. CP.	3 W S.	Date 5	Tue = 28-74
Owner _ C.P.	2, ***			•	Andrew Company Company
Location Čity		State	(M.	County	
From	To	Formation	Color		Härdness
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20	5°0	SAND	BTAX		Firm
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60	100	Shale	GirAY		med
100	130	SAND	Gray		Med
130	170	SANdy ShAle	GIRAY		Mod
170	255	SAND	Gray	11.5	Med
255	310	SANCE	Gras		h prol
310	320	Shale SANO	dy GirA	Y, Green	med
320	430	SAND.	Gray		Med
930	9 10	Shale	GIRAY		Med
990	510	SANdstone	Gray		Firm
510	540	Shale	Giray G	recas	Med
		//	VATER @	60 f	7
590	580	SANStone W	coal stk.	GIRAY	Med
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eleased to Unaging: 1/3/2023

EL PASO NATURAL GAS COMPANY

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ENGINEERING DEPARTMENT

Sheet Page 79 of 159

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

Operator	MERIDIAN OIL	Location:	Unit_SW_Sec29_T	wp 29 Rng 7
Name of Wel	.l/Wells or Pipeline Se	rviced SAM	JUAN 29-7 UNIT #	99. #112
				cps 122w
Elevation_6	347 Completion Date 6/3	<u>80/70 </u>	th <u> 720'</u> Land T	ype* <u>N/A</u>
Casing, Siz	es, Types & Depths	N/A		
If Casing i	s cemented, show amoun	ts & types use	d <u>N/A</u>	
	or Bentonite Plugs have	been placed,	show depths & a	mounts used
Depths & th	nickness of water zones	with descript	ion of water wh	en possible:
Fresh, Clea	ar, Salty, Sulphur, Etc	. WET AT 85	DEC	EIVEM
Depths gas	encountered: N//	1	UU	1 1991
	unt of coke breeze used			N. DIV.
Depths anod	les placed: 605', 580', 57	70', 555', 545',	145', 435', 380 ['] ,	270 ¹ , 260 ¹
Depths vent	pipes placed: N/I	Α		
Vent pipe p	perforations: N/	Α		
Remarks:	gb_#2 ANODES #1 &	#8 ARE SINGLE, AL	L OTHERS DUAL.	
If any of t	he above đata is unava	ilable, please	indicate so. C	opies of all

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:

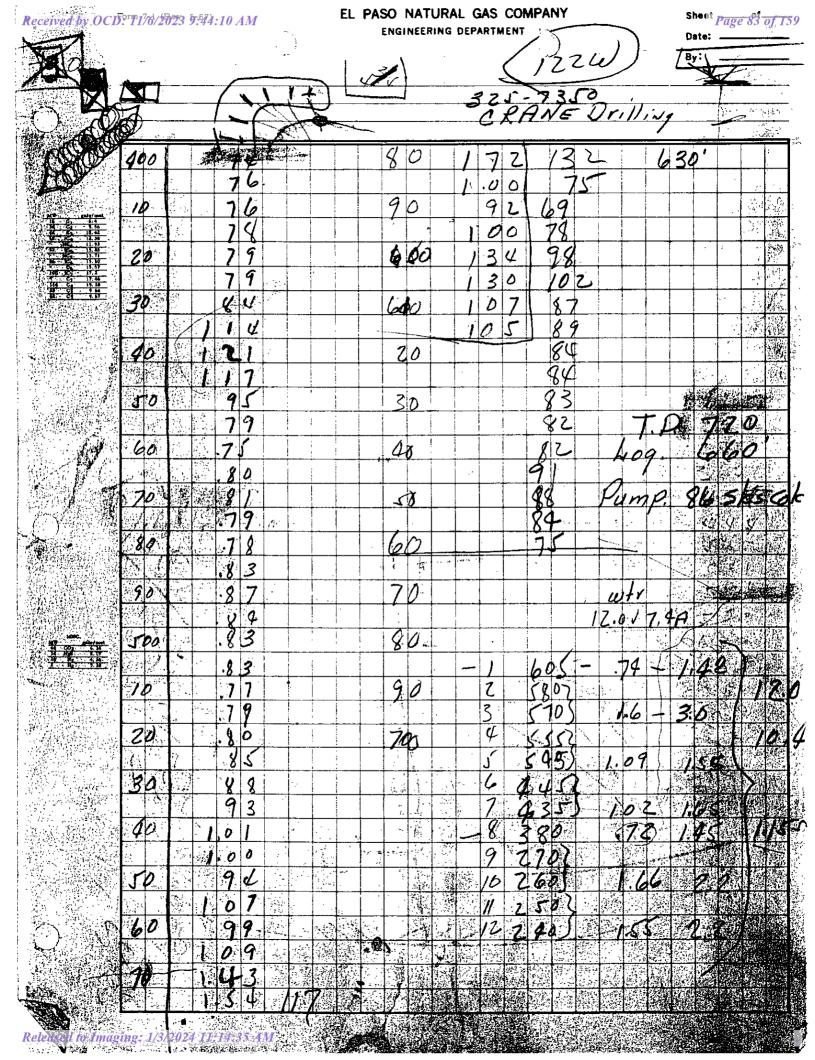
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Completion Date Completion	And the second s	_	/ /		
CPS No. 12 Lacation SW 29-29-7 CPS No. 12 LW Type 6 Size Bit Uspd 3/4 Anode Hols Depth Total Drilling Rig Time Total Lbs. Coke Used Lost Circulation Mart Used No. Sacks Mod No. Sacks Mod Used No. Sacks Mod No. Sacks Mod No. Sacks Mod No. Sacks Mod No. Sacks Mod No. Sacks Mod No. Sacks Mod No. Sacks Mod No. Sacks Mod No.	·	, .		Completion Date	6-30-10
Ander Hote Damith Ander Depth	イノクターフ 世99	Location	-		?ZW
Anote Depth (605) 1 (580 13570) 14 (555 1545) 16 (445 17435) 18 (380) 16 (270 1060) Anote Output (Amps) 18 1 / 8 12 3.3 13 3.3 14 1.8 15 1.8 16 17 18 18 19 19 10 20 Anote Output (Amps) 12 (40) 13 13 14 15 16 17 18 18 19 19 10 20 Anote Output (Amps) 12 (40) 13 14 15 16 17 18 18 19 19 10 20 Anote Output (Amps) 12 4.0 113 14 15 15 16 17 18 18 19 19 10 20 Volts: 12.0 Amps 12.4 Ohms 0.96 No. 8 C.P. Cable Used No. 2	Type & Size Bit Used 3/4			Work Order No.	= 2374-50-20
# (605) # (580 #3570) # 4 (555 #545) # (445 #7 435) # (380) # (270 #1026) Another Output (Ampe) # 1 / 8 # 23.3 #3 3.3 #4 1.8 #5 1.8 #6 / 8 #7 / 8 #8 / 4 #9 4.2 #10 4.6 Another Output (Ampe) # (1250 # 12 240) # 13 # 14 # 15 # 16 # 17 # 18 # 19 # 20 Another Output (Ampe) # 11 4.0 # 12 4.0 # 13 # 14 # 15 # 16 # 17 # 18 # 19 # 20 Total Circuit Resistance Volts / 2.0 Amps / 2.4 Ohms 0. 9.6 No. 8 C.P. Cable Used Volts / 2.0 Amps / 2.4 Ohms 0. 9.6 No. 8 C.P. Cable Used Pumped 86 Sacks Coke — S/urry 24 - Total 110 Hogged 660' of Hole - Couldn't Get any Deeper All Construction Completed All Construction Completed All Construction Completed All Construction Completed All Construction Completed All Construction Completed All Construction Completed All Construction Completed	720'	Rig Time Total Lbs. Coke	Used Lost Circulation Mat'l	Used No. Sacks Mu	d Used
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EL PASO NATURAL GAS COMPANY
ENGINEERING DEPARTMENT

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. 90 - 30-039-07535 109 - 30-039-21330

4562

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

Operator	MERIDIAN_OIL	_ Location:	Unit <u>NE</u> Sec.	30 Twp 29 Rng 7
Name of Well	/Wells or Pipeline Serv	iced <u>SAN J</u>	UAN 29-7 UNIT	#98, #109
				cps 118w
Elevation 640	<u>)4'</u> Completion Date <u>5/6/7</u>	4 Total De	pth <u>660'</u> La	and Type* N/A
Casing, Size	s, Types & Depths	N/A		
If Casing is	cemented, show amounts	& types us	ed <u>N/A</u>	
If Cement or	Bentonite Plugs have b	een placed,	show depths	s & amounts used
Depths & thi	ckness of water zones w	ith descrip	tion of wate	er when possible:
	, Salty, Sulphur, Etc	_	R	ECEIVEM
Depths gas e	ncountered: N/A		01	MAY 3 1 1991
	t of coke breeze used:_			V DIST. 2
Depths anode	s placed: <u>620', 610', 595</u>	', 585', 575'.	<u>, 565', 555', </u>	520', 510', 495
Depths vent	pipes placed: N/A			
Vent pipe pe	rforations: 200'			
Remarks: 🕟	gb #2			

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

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

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

CATHODIC PROTECTION CONSTRUCTION REPORT

1 10G5 & O

Drilling Log (Attach Hereto).

Completion Date <u>5-6-74</u>

Wels Yam	29-	7#9		NE 30	-29-	7	CPS No.	118	W
Type & Sız	e Bit Used	63/4					Work Orde		1-50-20
Anode Hale	60	Total Drilling	Rig Time	Total Lbs. Coke		irculation Mat'l	Used No. Sacks	Mud Used	
Anode Dept	:h								
# 1 62	0 # 2 61	10 # 3 5 9	5:44 58	15 = 5 5 7	5 4 6 56	1 # 755	5 + 8 520	0 = 9 <i>51</i>	0 # 10 4/95
Anode Outp	out (Amps)								
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Anode Dep	th						•		
* 11	# 12	# 13	# 14	# 15	# 16	# 17	# 18	# 19	# 20
Anode Outp	out (Amps)			1					
# 11	# 12	# 13	# 14	!# 15	# 16	# 17	# 18	# 19	# 20
Total Circi	ut Resistance	1	1		No. 8 C.P. 0	Cable Used		No. 2 C.P.	Cable Used
Volts	11.4	Amps 6.	O hms	1.90	•				

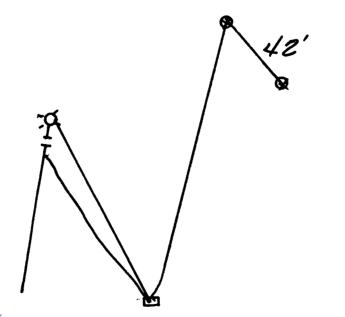
Remarks: Water STENDING @ 415 After 124xs
Driller said Lots of Water @ 440'

VENT Hose Perforated 200'. Pumped to
Above water zone, complete by slurry

3,409.03 1,087.50 EXTRA DEPTH 4,496.50 18.80 CADIE 4,515.30 180.61 TAX All Construction Completed

(Signature)

GROUND BED LAYOUT SKETCH



Released to Imaging: 1/3/2024 11:14:35 AM

STORM WATER WELL DRILLING INC.

DIAMOND CORE DRILLING DIAMOND DRILLING EQUIPMENT GROUTING FOUNDATION TESTING

CONTRACTORS 14991 W. 44TH AVENUE GOLDEN, COLORADO 80401... PHONE (303) 278-9505

GENERAL OFFICE 14991 W. 44TH AVENUE

BAILEY, OFFICE, 🚕 🛶 CALL 1-838-4821

MINING QUARRYING SHAFT SINKING WATER WELL DRILLING

	-			
Drill G.D.	15W		Date 4	-6-74
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EL PASO NATURAL GAS COMPANY ENGINEERING DEPARTMENT

Sheet Page 87 of 159
Date: 27 of 159

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

Operator MERIDIAN OIL	Location: Unit_NN Sec30 Twp_29 Rng_7
Name of Well/Wells or Pipeline Servi	ced SAN JUAN 29-7 UNIT #78A, #513
	cps 1409w
Elevation 6349 Completion Date 8/10/79	Total Depth 495' Land Type* N/A
Casing, Sizes, Types & Depths	N/A
If Casing is cemented, show amounts	& types used N/A
If Cement or Bentonite Plugs have be	en placed, show depths & amounts used
Depths & thickness of water zones wi	th description of water when possible:
Fresh, Clear, Salty, Sulphur, Etc	WATER SAND 710' - 180' & 205' - 225'
SAMPLE TAKEN	
Depths gas encountered: N/A	
Type & amount of coke breeze used:	51 SACKS
Depths anodes placed: 455', 415', 395',	385', 375', 365', 355', 345', 310', 240'
Depths vent pipes placed: 500'	DECEIVED
Vent pipe perforations: 400'	DECE 1
Remarks: gb #1 7	ON CON. DIV.)
	On COM.

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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Form 7-238 (Rev. 11-71)) CATHODIC PRO	WELL CASING OTECTION CONST!	RUCTION REPUR) T-	31hs 6	タナ
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ype & Size Bit Used 63/	14	STAT	10=.85	Work Order No	7353	3 - Z
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	GRO	OUND BED LAYOUT	SKETCH	STU. 4011 Dirent	B POLES LREET LOARIES	265
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Water sand 170 to 180 v 205' to 225' drilled

STATIC: 85 1409 W STZ9-7#78A NW30-79-7

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44.10	Сз	10 42
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72.15	ıC5	13.85
72.15	nC5	13.71
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EL PASO NATURAL GAS COMPANY SAN JUAN DIVISION FARMINGTON, NEW MEXICO PRODUCTION DEPARTMENT WATER ANALYSIS

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EL PASO NATURAL GAS COMPANY DRILLING DEPARTMENT

DAILY DRILLING REPORT

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4295

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

Operator MERIDIAN OIL CO.	Location: Unit K Sec. 24 Twp29 Rng 8
Name of Well/Wells or Pipeline	Serviced HARDIE A # 2 R
	cps 871w
Elevation_6387 Completion Date8/	28/90 Total Depth 500 Land Type N/A
Casing Strings, Sizes, Types &	Depths 20 ft. 8" PVC Casing
If Casing Strings are cemented,	show amounts & types used N/A
If Cement or Bentonite Plugs ha	we been placed, show depths & amounts used
Depths & thickness of water zon Salty, Sulphur, Etc. Wet at 35 ft	nes with description of water: Fresh, Clear
Depths gas encountered: N/A	
Ground bed depth with type & am	nount of coke breeze used:
7700 lbs of Ashbury petroleum col	«e
Depths anodes placed: 470, 463, 45	
Depths vent pipes placed: 500 ft	1111
Vent pipe perforations: N/A	in U
Remarks:#5	OU CON DIV.
- , , , , , , , , , , , , , , , , , , ,	DIST. 3

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

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

:

20

WELL CASING CATHODIC PROTECTION CONSTRUCTION REPORT DAILY LOG

Drilling Log (Attach He	reto)			-	· C	omplețion D)ate_8 - 2.8	3-90
CPS #	Well Name, Line or Plant:		Work Orde		Static:		Ins Union Check	
		12R	T GIGG		Static:			
871-W	(TOTAL STE)						Good	☐ Bad
Location:	Anode Size	Anode Type:			Size Bit:			
K-24-29-8	2 * X 60 *	ANO TO Drilling Rig Time	<u>_</u>		63/4			
Depth Drilled	Depth Logged 490	Drilling Rig Time	Total	Lbs. Goke Used 77.00 #	Lost Circulatio	n Mat'l Used	No. Sacks Mud U	sed
Anode Depth	1			1 ,	1 , , ,		1	1
#1 470 #2	463 43 456	#4 445 1#5	435	#6428	J#7 421	#8 417	3 o7'	# 10 300
Anode Output (Amps)		1		ì	1	1	1	T
	2.6 #3 2.6	#4 2,2 #5	2.0	#62.1	#7 2.0	1=82.2	#92.4	# 10 2,3
Anode Depth	1,21			1	i	1		
# 11 2 4 0 # 12 Anode Output (Amps)	<i>∠13</i> # 13	# 14 # 15		# 16	# 17	# 18	# 19	# 20
\ _	,	# 14		1	1	1	1	1
# 11 / # 12	nce	# 14 # 15		# 16 No. 8 C.P. Co	# 17 ble Used	# 18	# 19 No. 2 C.P. Co	# 20 ible Used
Volts / 2, 4	_	Ohms / 4						
	o' of 8" PVC					,		
•	T 260', Ran				-		·	
	IN 2 exTR							
	ROSISTANCE							
Rectifier Size: Addn'l Depth Depth Credit: Extra Cable: Ditch & 1 Cable: 25 'Meter Pole: 10 ' Stub Pole: Junction Box:	57'	- - - -	D BED L	-AYOUT SKE		All Constru	exition Complete	ed De

57' OG. B.#2 Rect.

HARDIE ATTZR

BURGE CORROSION SYSTEMS, INC.

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

COMPANY ME	RIDIAN O.L	DAIL	Y DRILLING REPORT	8-28	1980
WELL NAME:		WELL NUMBER:	SECTION:	TOWNSHIP:*	RANGE:
HARDIE		A 2-R			
	WATER AT:	FEET:	HOLE MADE:		
			500'		
	·	DESCRIPTION OF			
FROM	то		FORMATION IS		COLOR
0	18'	8"PVC CASIA	16 -CEMENTEL	-clay/sh	ale
18'	35'	Sandstone	- MOISTURE		
35'	90'	shake			
90'	100'	SAND- MOI	STURE - WET		
100,	160.	BENTONITE	SAND MX		
160'	170'	COAL			
יסרו '	180	SANDSTONE			
180:	a10'	BENTONITE	SMD MIX		
210'	220'	Monistree	4		
220'	260'	i	TONITE MIX		
240'	500	i .	SAND-SHALE	MIX	
			·		
•					
			•		
		1	· · · · · · · · · · · · · · · · · · ·		
				.11 /	
REMARKS: -	SET 70 8" PV	C CASING -C	EMENTED D	PRIVED to 2	60 on 27
HAD TO GO	SET 70' 8" PV	UEDOT AM. HA	s monsture c	27 35', 100	F-210-20
	-		<u>/</u>		
		Driller	Juan &	Smer	Tool Dresser
					•

neridan Oil

CPS #: 871-W WELL NAME: HORDIE ATA LOCATION: K24-29-8 DATE: 8-28-90

TOTAL VOLIS: /2.4 TOTAL AMPS: 8. 8. OIINS RESISTANCE: -1.40.

					•										
	LOG	ANODE		LOG	ANODE		TOC	ANODE		100	VIODE	VI	IODE IN	NDT NGS NO	WITH
DEEP		NO.	DEEP		NO.	DEEP	VNODI		DEEL	ANODE		NO.	DEPTH	COKE	COKE
5			185	iTO		365	.60		5115			ī	470	.80	2.4
10			190	140		370	,50		550			2	463	190	2.6
15			195	140		375	,50		555			3	456	1.2	2.6
20			200	,40		380	۱40		560		·	4	445	1.2	2,2
25	·		205	140		385	ەك،		565			5	435	90	5.0
30			210	160			160		570			6	428	180	2.1
35			215	.90	112	395	160		575			7	421	180	2.0
40			220	170		1100	170		580			8	417	1111	2.2
45			225	160			70	<u> </u>	585			5	307	1.2	2.4
50			230	,60			70		590			10	300	1.	2.3
55			235	150		415	1.0	8	595	 		11	240	120	11/
60			240	180	11	1150		-	600			1/2	215	1.0	2.0
65			245	140		425		ļ.,	605	ļ		ļ	 		<u> </u>
70			250	,30		430	180	6	610			 	<u> ` </u>		<u> </u>
75			255	130		435	180	5	615	 		\ <u></u>	 	ļ	
80			260	.30	 	440	1.0	,	620		<u> </u>	ļ			<u> </u>
85			265	130		445	Let	4	625	:	<u> </u>	<u> </u>	.)	
90			270	130		1150	1.0	· `	630			.		<u> </u>	
95			275	30	<u> </u>	1155	11.1	3	635			.		·	-
100	,50		280	140		460	1.0	2	640	<u> </u>	ļ		3	.	<u> </u>
105			285	140		1165	180		645		<u> </u>	_ _	<u> </u>	ļ	
110	<u>,30</u>		290	140		1,70	180		650	<u> </u>	l	-	.	.	-
115	140		295	160		-1	170		655	<u> </u>	<u> </u>	_	ļ	<u> </u>	_
120	150		300	1.0	10	480	180		660	<u> </u>	<u> </u>	_			
125			305	1.3		485	170	1	665	<u> </u>	<u> </u>	_	_		_
130	170		310	190	9	490		TD	670	 	N/4-	<u>- -</u>	-	_	_
135	,40		315	160	<u> </u>	495	i	<u> </u>	675	<u> </u>	-	_ _	J	. 	
140			320	,70	<u> </u>	500			680	,		-		-	_
145	:20		325	180		505		-	. 685		-	-			-
	160		330	1		510		<u> </u>	690		-	_ _	-	-	-
	,70	I	335		 	519		 	695	1	-	- -	-	-	-
1	,60	1	1	150		520		-	700		_	- -	_	-	-
ı	140	1	345	T _		525		 	705	-	 ;	3 (a) (b) (5		-	-
	ומס	2.	350		-	530		 	710	4	- 2,5	7		<u> </u>	
1	140	·	355	170	 	539		 	715	-		-	-	_	-
180	140	<u> </u>	360	,70		540	<u> </u>	<u> </u>	720	4	<u> </u>	- -			

REMARKS: SET 20' of 8" PVC COSING DRIVER Soid WET OF 35, 75 and 210' DRIVED 240", SET OVERNIGHT NEXT AM. COUld NOT Blow Water, No water Sample. Started INJECTING OT 260!

5014

30-045-21766

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

Operator MERIDIAN OIL	Location: Unit NW Sec. 24 Twp 29 Rng 8
Name of Well/Wells or Pipeline Servi	ced HARDIE A #2A
	cps 1303w
Elevation 6706 Completion Date 10/28/7	8 Total Depth 380' Land Type* N/A
Casing, Sizes, Types & Depths	N/A
If Casing is cemented, show amounts	& types usedN/A
If Cement or Bentonite Plugs have be	een placed, show depths & amounts used
Depths & thickness of water zones wi	th description of water when possible:
Fresh, Clear, Salty, Sulphur, Etc	185' SAMPLE TAKEN
Depths gas encountered: N/A	
Type & amount of coke breeze used:	34 SACKS
Depths anodes placed: 345', 335', 325',	315', 305', 295', 285', 275', 265', 245'
Depths vent pipes placed: 360'	DECEIAELL
Vent pipe perforations: 200'	MAY 3 1 1991
Remarks: / gb #1	OIL CON
	Dic

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.

Form 7-238 (Rev. 11-71)

P 44

WELL, CASING-CATHODIC PROTECTION CONSTRUCTION REPORT DAILY LOG

Drilling Log (Attach Hereto).		Completion Date	10-28-78
Hardie A 2 A	Location NW 24-29-8	CPS No.	3 Was
Type & Size Bit Used		Work Order No	
Anode Hole Depth Total Drilling Rig Time	Total Lbs. Coke Used Lost Circulation		
380 - 3 7 3 Anode Depth	34 BAgS	a distribution and area	- All Francisco
# 1 345 # 2 335 # 3 325 # 4 31 Anode Output (Amps)) land	رع شوره المراجع المراج
# 1 2.7° # 2 3.3° # 3 4° 4° # 4 4°. Anode Depth	9 # 5 4 . 0 # 6 3 . 8 - # - 7	3.4 # 8 3.6	# 9 3.7 # 10 3.4
# 11 # 12 # 13 # 14 Anode Output (Amps)	# 15 # 16 # 17	7 # 18 #	# 19 # 20 # 20 # E
# 11 # 12 # 13 # 14	# 15 # 16 # 1		# 19 # 20
Total Circuit Resistance Volts Amps 6.6. Ohms	s . 6 9	sed	No. 2 C.P. Cable Used
Remarks: STATIC % 600 W =	86		4.) 1.37 % -1
WET AT 88 PT WATER	_	ROX 12 6P.1	n
DRILLED 380 with A			。
OF VENT Pipe PER			
of coke	PORM*(ED LOO		
Hole dept h=-127' CAble + ditch= 235'	STUB POLE	Service of the	"GRAPKITE AND
CXTRA CAble=145'		All Constructi	on Completed
		Kel HBd	nik.
	CPOUND REDU AVOUT SKETCH	(Signa	uture)
	basied Aff		
age and	1		
Rection Students			
	HAROIE		N
90 / K	-145 ² ->		
Y			
(A 6 b)			
DISTRIBUTION: WHITE - Division Corrosion Office			
YELLOW — Area Corrosion Office PINK — Originator File			

El Paso Natural Gas Company ENGINEERING CALCULATION

Page, 99 of, 159

1303W NW24-29-8 HARDIE A=2A 57050.21 ST600'W=.86 U=0K

	A CONTRACTOR OF THE CONTRACTOR		7.2.42
MW gals/moi 16.04 C1 6.4 30.07 C2 10.12 44.10 C3 10.42 58.12 IC4 12.38 58.12 nC4 11.93 72.15 IC5 13.85 72.15 nC5 13.71 86.18 C6 15.57 100.21 IC7 17.2 100.21 C7 17.46 114.23 C8 19.39 28.05 C2 9.64 42.08 C3 9.67	190 2.3 390 2.6 200 2.6 400 2.0 210 20 1.9 220 2.1		WET AT 88 FT WATER AT 185' WATER= 126PM Drilled 380' WITH AIR Logged 373' INSTALLED 360' OF VENT P.P.E. PERFORATED 200' SLURRIED 34 BAGS OF COKE
	230 2.1		
	240 2.4 2.3-60 250 2.0 1.9 260 2.2		Holedepth = -127 Ditch+eAble = 235 extracable = 145' 40016A Rect Stub Pole
	2.5-9 270 2.2	un este de companyo de calcular partir de companyo de calcular de companyo de companyo de companyo de companyo Partir de calcular de calcu	2×2×48 graphite
MW 9als/mol 32.00 O2 3.37 28.01 CO 4.19 44.01 CO2 6.38 64.06 SO2 5.50 34.08 H2S 5.17 28.01 N2 4.16 2.02 H2 3.38	2.2-8 280 2.2 2.5-9 290 2.4 2.2-0 300 2.5 26-8 310 2.8 31-9 320 3.0 26-3 330 2.2 20-0 340 1.9 1.9 1.9 360 1.8 1.5 370 1.4 + 0 373		① 345-1.9-2.7 ② 335-2.2-3.3 ③ 325-2.8-4.9 ④ 315-3.0-4.9 ⑤ 305-2.6-4.0 ⑥ 295-2.3-3.8 ⑦ 285-2.2-3.4 ② 275-2.4-3.6 ② 245-2.4-3.6 ① 245-2.4-3.4
\$ 1	380 PRILLED		

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

Analysis No. 1-9417	_ Date_	12-12-78	 .
Operator	Well_Name_	HARDIE A #2A	1303 W
Location NW24-29-8	County	State	NM
Field		4.	
Sampled From 1303W			
Date Sampled	Ву		
	ress	Surface Cs	g. Press
PPm epm		ppm	epm -
Sodium 242 11		Chloride 16	.5
Calcium 176 9	· 	Bicarbonate 239	4
Magnesium 22 2	nameda 1 w - g	Sulfate 825	17
Iron PRESENT		Carbonate 0	0
II ₂ S ABSENT		Hydroxide0	0
cc: D.C.Adams		Total Solids Dissol	red_1386
R.A.Ullrich E.R.Paulek	,	рн 7.6	
J.W.McCarthy A.M.Smith		Sp. Gr. 1.0025 a	60°F
W.B.Shropshire File	,	Resistivity 560 oh	•
57050.21		Barnett 6	•
		Chemis	te in a growing the second
25 20 15 10	5 07	5 10 15	20 25 C1 10
Ca			H:CO ₃ 10
			*
Mg			S04 10
	Scale:	anne.	
	ocare.	ch.	

DAILY DRILLING REPORT

		03 M	ORNING						D	A Drilling					EVE	NING		3.	15 Mg
riller				Total Men In	Crew		Driller			f Total Me	In Crew		Driller			Total 1	Men In Cr	ew ; , ,	i jaga y
FROM	т	0	FORM	IATION	WT-BIT	R.P.M.	FROM		то	FORMATION	WT-BIT	R.P.M.	FROM	то		FORMATION		WT-BIT	R.P.
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<u> </u>			NO. E	CSIZE	LE	NG	BIT NO.			NO. DCSI	E LE1	۱G،	BIT NO.			NO. DC	_ SI ŽE	LEN	G
RI NO.				STANDS			SERIAL N),		STANDS			SERIAL NO.			STAN	NDS		
ZE				SINGLES			SIZE			SINGLE			SIZE			SING	LES		
PE			DOWN	ON KELLY			TYPE			DOWN ON KELL	Υ		TYPE			DOWN ON K	ELLY	• •	
AKE			то	TAL DEPTH			MAKE			TOTAL DEP	н		MAKE			TOTAL DEPTH :			
	RECORD		MUD, ADD	ITIVES USED	AND REC	EIVED		RECORD		MUD, ADDITIVES US	D AND RECE	VED		REÇORD		MUD, ADDITIVES	USED AN	DRECEIV	ED,
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235	235 250		sauce	Shale				380		Sandstone							- (
250	-		sanory.	MAN	<u> </u>		3/0		 	Marway									
		L	MACC				REMAR						REMARKS					,	
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										th Benoil			L			*			

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

Operator MERIDIAN OIL INC.	Location: Unit F Sec. 24 Twp 29 Rng8
Name of Well/Wells or Pipeline Service	ed HARDIE A COM #210
	cps 2118w
Elevation 6610'Completion Date 4/18/89	Total Depth 300' Land Type* N/A
Casing, Sizes, Types & Depths	N/A
If Casing is cemented, show amounts &	types usedN/A
If Cement or Bentonite Plugs have been	n placed, show depths & amounts used
Depths & thickness of water zones with	
Fresh, Clear, Salty, Sulphur, Etc	901
Depths gas encountered: N/A	
Type & amount of coke breeze used:	N/A
Depths anodes placed: 250', 240', 230',22	0',210', 200', 190', 130', 120', 105'
Depths vent pipes placed: 305'	THE CEIVE U
Vent pipe perforations: 240'	TDI .acani:
Remarks: gb #1	CON• -
	OIL DIST. 3

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

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

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

### WELL CASING . CATHOL._ PROTECTION CONSTRUCTION REPORT DAILY LOG

					UNILT	500				1 10	~~~
Drilling Log (Attach	Hereso)	ĭ <b>∀</b>				-	C	omplețion I	Date	4-18	-87
ers r	Well N	ame, Line or Plant:			Work Order	, <u>.</u>	Static:		Ins. L	inion Check	· •
2118-6	,   <u>H</u>	ACDIE A	com #	210	34	58A	600' 5	ε·.944		⊠ Good	☐ Bad -
Location: F24-2	 o e	Anode Size:	Anod	е Туре:	1	· · · · · · · · · · · · · · · · · · ·	Size Bit: 3/4	1		· · · · · · · · · · · · · · · · · · ·	
Depth Drilled		ch Logged	Drilling Rig	Pur 11		ss. Goke Used	Lost Circulation		No.	Sacks Mud U	red
300°		300'				·					<del></del>
Anode Depth	2240	· #3 230	 			# 6 200 ·	1, 190	#8 130		120	1 · · /C
Anode Output (Am	ps)		!	:	i	1			1		
	2 42	#3 4.3	#44.	7 # 5	3.9	#637	#736	1.8.33	# 9	4.3	# 10 4.
Anode Depth	12	# 13	# 14	<b>#</b> 15	į	, # 16	# 17	# 18	# 19		i !# 20
Anode Output (Am		- <del>  13</del>	<del> </del>	+ 13		* 10	- <del> " • /</del>	<del> </del>	+		<del> " 20</del>
	12	# 13	# 14	# 15		# 16	# 17	# 18	# 19		# 20
Total Circuit Res Volts 12 42	1	10 2	Ohms	,		No. 8 C.P. Co	ible Used		No. 1	C.P. Ca	ble Used
· · · · · · · · · · · · · · · · · · ·		mps 1.9.3					1				
Remarks:	RILL	ED 30	00' L	0666	ED 3	00'.	1) RILL	ER SA	(O	WAT	ER
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<u> 41 90</u>		NSTAL	LED	.30 <u>5</u>	07		UC VER	<i>y y y</i>	<i>i</i> = -	, pe	MONATO
17		2101								·	
BOTTO	5 ( N C	ナケし									
* CA	01	PLOW 1	4C,	FROM	n 13	303-4	J 857	1800	) '		
Rectifier Size:	40							All Constr		Complete	d
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Ditch & 1 Cable:		360, 10		_			<u></u>		ignoture	·)	
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10' Stub Pole:		/	<del></del>		` -	_				•	7 .
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ased to Imaging	? 1/3/202	24 11:14:35 AN	М	<u></u>							

	Davi	ell CrAS	<u>s</u> Drill	ING CO. $\mathcal{Z}^{VS}$
		o. <u>3</u>		
			S WELL LOG	
				1-18-89
				State New Mex.
If`hole is o	redrill or	if moved from	original stake	d position show distance
and direct	tion moved	l:		
FROM	то	FORMA	LION — COP	OR — HARDNESS
0	80	SANds	tore	
		Shake		
100	150	Shale		
		SANdy		
		Shale		
170	180	SANds	tone	
		Shale		
250	265	SANdy	Shale	, Yan, 19 ⁵ .
		SANds	., .	
Mud		Brom		Lime
	4			
Remarks:	WAT	er e	90'	<del> </del>
				• •

458C

30-045-08202

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

Operator	TENNECO	Location:	Unit SW Sec. 13 Twp 29 Rng
Name of	Well/Wells or Pipeline Servi	ced	VANDERWART A #3
<del></del>			cps_75w_
Elevatio	on 6981 Completion Date 4/30/74	Total De	pth 620' Land Type* N/A
Casing,	Sizes, Types & Depths	N/A	
If Casir	ng is cemented, show amounts	& types us	ed <u>N/A</u>
If Cemer	nt or Bentonite Plugs have be	en placed,	show depths & amounts use
Depths 8	thickness of water zones wi	th descrip	tion of water when possib
Fresh, (	Clear, Salty, Sulphur, Etc	380'	RECEIVED MAY3 1 1991
Depths o	gas encountered: N/A		MATOL 1991,
	amount of coke breeze used:		
Depths a	nodes placed: 530', 520', 510'	, 500', 490'	. 480', 470', 460', 450', 440'
Depths v	vent pipes placed: N/A		
Vent pip	pe perforations: 300'	·	
Remarks:	gb #2 not a MERIDIAN	l well.	
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		

If any of the above data is unavailable, please indicate so. Copies of allogs, including Drillers Log, Water Analyses & Well Bore Schematics shoul

be submitted when available. Unplugged abandoned wells are to be include

^{*}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

N REPORT

Drilling Log (Attach Hereto).

Completion Date <u>4/30/74</u>

Well Name	derw	ALT A	#3 L-	sation SW /	3-29x	-84	CPS No. 7	5 W	
Type & Size B	Sit Used	411					Work Order I	- 5226	1.19-50
Anode Hole De		Total Drilling	Rig Time	Total Lbs. Coke U		ulation Mat'l U	sed No. Sacks N	fud Used	
Anode Depth # 1	# 2 5 2	20 4 3 5/	0 # 4 50	0 = 5 490	1	# 7 470	= 8 460	= 9 450	# 10 446
Anode Output 3.6		:		± 5 3.2	1	1		1	!
Anode Depth				1	1	1		1	
# 11	# 12	# 13	# 14	# 15	# 16	# 17	# 18	# 19	# 20
Anode Output	(Amps)		1				1		l l
# 1 1	# 12	# 13	# 14	# 15	# 16	# 17	# 18	# 19	# 20
the state of the s					No. 8 C.P. Cable Used		No. 2 C.P. Cable Used		
Volts /	1.0	Amps /0,	U Ohms	1.10		00'			

Remarks: Driller Said Water @ 380' Hole caved, Moved
vig Back Drilled To 620' Loaded Hole Vent Hese
ferforated 300'

Could Hale 4/25/74 - Andel Cups 50/6 Could not use Hole Course, Contained 950 mes back Until 4/30/74 - drilled to 620 to All Construction Completed Man Long Kinning,

Pauls (Si

3409,00 412.50 Depth 38,00 Outle

3859.50

154,38 Tax

40 < 3.88

GROUND BED LAYOUT SKETCH

90'

ld bed # 2

SheePage 107 of 159

Date: _____

सम्बद्धाः स्टब्स्

75 W

70 3 140V BOTTON

STORM WATER WELL DRILLING INC.—

DIAMOND CORE DRILLING
DIAMOND DRILLING EQUIPMENT
GROUTING
FOUNDATION TESTING
MINING
QUARRYING
SHAFT SINKING

WATER WELL DRILLING

CONTRACTORS
14991 W. 44TH AVENUE
GOLDEN, COLORADO 80401
PHONE (303) 278-9505

GENERAL OFFICE 14991 W. 44TH AVENUE Bailey, Office Call 1-838-4821

Drill (7, D.	15 W							
Owner) <u></u>							
Location City ZA	Rmington	State	State County					
From	То	Formation	Color	Hardness				
		Ho/2 #						
0	4	SNRFACE.						
4	90	SANdstone	s Be	M. Soft				
90	175	ShAE	Blus	M. HARd				
175	250	SANdStonE	TREM	HARD				
250	263	SANd	BR'	Soft				
- 263	315	ShAR	Blue	Mr. HARC				
315	380	Spridstone	Be	M. HAR				
38 o	560	Shale	Blue + RED.	STREAKS				
				M. HARD				
				,				
		WATER Z	soniss At	250 + 380				
			<u>-</u>					
		·		,				
Total Hours			C.P.S. Time					
	Time		S.W.W.D.I. Time					
Hours Drilling.	11.10	*- <u> </u>	Total Footage					
Driller Driller	# Olling							
Helper	y accord		Approval of C.P.S. Engineer					
Holper			O.F.S. Engineer					

DIAMOND CORE DRILLING DIAMOND DRILLING EQUIPMENT GROUTING CONTROL OF THE STATE O MINING QUARRYING SHAFT SINKING WATER WELL DRILLING

CONTRACTORS 14991 W. 44TH AVENUE

GOLDEN, COLORADO 80401

PHONE (303) 278-9505

GERRACTORS

14991 W. 44TH AVENUE

BAILEY OFFICE

CALL 1-838-4821 PHONE (303) 278-9505

						* ,
Drill (F.).	1-5W			[Date 4-	30-14
Owner <u>CP</u>			-	•		a mangan dan dan dan menanggan dan dan sebagai sebagai sebagai sebagai sebagai sebagai sebagai sebagai sebagai Bangan sebagai sebagai sebagai sebagai sebagai sebagai sebagai sebagai sebagai sebagai sebagai sebagai sebagai
Location 29/		Sta	te <u>//</u> ,	MEX	_ County	
From	То		rmation	Color	- Mark Control -	Hardness
		1 / /s /5. I	75	W)	:	THE PARTY OF THE PARTY.
56c	62c	5h	14/8	B/48		HARd
				- 14-74-751		1.
-			- 49-4			
*** (**********************************				PART -		
					·····	
			·, ,			
			Waras are an			***
Total Hours		·····	4	C.P.S. Time		
Equipment Down Ti	ime			S.W.W.D.I. T	ime	
Hours Drilling	+ / 10 //			Total Foot ag	je	
Driller	1 Well and			Approval of		
Helper	V - C			C.P.S. Engin	eer	
Helper						



APPENDIX C

Executed C-138 Solid Waste Acceptance Form

Received by OCD: 11/6/2023 9:44:10 AM 1025 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

Page 111 of 159 Form C-138 Revised 08/01/11

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

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

	oterprise Field Services, LLC, 614 Reilly Ave, Farmington NM 87401	PayKey:RB21200 PM: Maron O'Brien AFE: N66844
2.	Originating Site: SJ 297 #94A	
3.	Location of Material (Street Address, City, State or ULSTR): UL F Section 19 T29N R7W; 36.712269, -107.616695	July/August 2023
So De	Source and Description of Waste: ource: Remediation activities associated with a natural gas pipeline leak. escription: Hydrocarbon/Condensate impacted soil associated natural gas pipeline release. timated Volume _10 yd³ / bbls Known Volume (to be entered by the operator at the end	7
5.	GENERATOR CERTIFICATION STATEMENT OF WAS	TE STATUS
ce	Thomas Long , representative or authorized agent for Enterprise Products Operating Generator Signature rtify that according to the Resource Conservation and Recovery Act (RCRA) and the US Engulatory determination, the above described waste is: (Check the appropriate classification)	
	RCRA Exempt: Oil field wastes generated from oil and gas exploration and production exempt waste. **Operator Use Only: Waste Acceptance Frequency Monthly 1	
	RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardo subpart D, as amended. The following documentation is attached to demonstrate the above the appropriate items)	us waste as defined in 40 CFR, part 261,
	MSDS Information RCRA Hazardous Waste Analysis Process Knowledge	Other (Provide description in Box 4)
	GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEME	ENT FOR LANDFARMS
	Thomas Long 7-24-2023, representative for Enterprise Products Operating autho Generator Signature e required testing/sign the Generator Waste Testing Certification.	rizes Envirotech, Inc. to complete
ha of 19	Greg Crabboa , representative for Envirotech, Inc. presentative samples of the oil field waste have been subjected to the paint filter test and test we been found to conform to the specific requirements applicable to landfarms pursuant to S the representative samples are attached to demonstrate the above-described waste conform to 15.36 NMAC.	ection 15 of 19.15.36 NMAC. The results
_	Transporter: Riley Industrial/ Enterprise and Subcontractors	
U	CD Permitted Surface Waste Management Facility Name and Facility Permit #: Envirotech Inc. Soil Remediation Facility * Permit #: NM Address of Facility: Hilltop, NM Method of Treatment and/or Disposal: Evaporation Injection Treating Plant Landfarm La	01-0011 andfill
W	aste Acceptance Status: ☐ APPROVED ☐ DENIED (Must Be Maintained As Permanent Record)
	RINT NAME: Gray Cra bree TITLE: Ewolvo Man TITLE: Ewolvo Man TELEPHONE NO.: 505-63	9



APPENDIX D

Photographic Documentation

Closure Report Enterprise Field Services, LLC San Juan 27-9 #94A (07/26/23) Ensolum Project No. 05A1226254



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 excavation (first sampling event).



SITE PHOTOGRAPHS

Closure Report Enterprise Field Services, LLC San Juan 27-9 #94A (07/26/23) Ensolum Project No. 05A1226254



Photograph 4

Photograph Description: View of the excavation (second sampling event).





APPENDIX E

Regulatory Correspondence

From: Kyle Summers

To: Ranee Deechilly; Landon Daniell; Chad D"Aponti

Subject: FW: [EXTERNAL] SJ 27-9 #94A - UL F Section 19 T29N R7W; 36.712269, -107.616695; NMOCD Incident #

nAPP2320734440

Date: Thursday, July 27, 2023 10:35:13 AM

Attachments: Outlook-rsokrncd.png

image003.png image004.png image005.png



Kyle Summers Principal

903-821-5603

Ensolum, LLC

From: Velez, Nelson, EMNRD < Nelson. Velez@emnrd.nm.gov>

Sent: Thursday, July 27, 2023 9:24 AM

Subject: Re: [EXTERNAL] SJ 27-9 #94A - UL F Section 19 T29N R7W; 36.712269, -107.616695;

NMOCD Incident # nAPP2320734440

[**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 or from an OCD pre-approved sampling plan. 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.

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@emnrd.nm.gov</u>

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



From: Long, Thomas <tilong@eprod.com>
Sent: Thursday, July 27, 2023 9:07 AM

To: Velez, Nelson, EMNRD < Nelson. Velez@emnrd.nm.gov >; 'aadeloye@blm.gov'

<aadelove@blm.gov>

Cc: Stone, Brian < bmstone@eprod.com>; Kyle Summers < ksummers@ensolum.com>

Subject: [EXTERNAL] SJ 27-9 #94A - UL F Section 19 T29N R7W; 36.712269, -107.616695; NMOCD

Incident # nAPP2320734440

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

Nelson/Emanuel,

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 July 28, 2023 at 10:00 a.m. at the SJ 27-9 #94A excavation. 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)
tilong@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.

From: <u>Kyle Summers</u>
To: <u>Ranee Deechilly</u>

Subject: FW: [EXTERNAL] SJ 29-7 #94A - UL F Section 19 T29N R7W; 36.712269, -107.616695; NMOCD Incident #

nAPP2320734440

Date: Tuesday, August 1, 2023 10:54:58 AM

Attachments: image002.png

image003.png image004.png



Kyle Summers

Principal 903-821-5603 Ensolum, LLC

From: Kyle Summers

Sent: Tuesday, August 1, 2023 10:52 AM

To: 'Adeloye, Abiodun A' <aadeloye@blm.gov>; Velez, Nelson, EMNRD

<Nelson.Velez@emnrd.nm.gov>

Cc: 'Stone, Brian'

'Stone@eprod.com>; 'Thomas Long' <tjlong@eprod.com>

Subject: RE: [EXTERNAL] SJ 29-7 #94A - UL F Section 19 T29N R7W; 36.712269, -107.616695;

NMOCD Incident # nAPP2320734440

Just a quick note to correct the site name. I believe it is the SJ-29-7 #94A rather than the SJ 27-9 #94A. I have corrected it in the subject header. Plus, I apparently deleted Mr. Long from the cc list. He is now added back. Thanks gentlemen.



Kyle Summers

Principal 903-821-5603 Ensolum, LLC

in f 💆

From: Adeloye, Abiodun A <<u>aadeloye@blm.gov</u>>

Sent: Tuesday, August 1, 2023 10:46 AM

To: Kyle Summers < ksummers@ensolum.com>; Velez, Nelson, EMNRD

<<u>Nelson.Velez@emnrd.nm.gov</u>>

Cc: 'Stone, Brian' < bmstone@eprod.com>

Subject: RE: [EXTERNAL] SJ 27-9 #94A - UL F Section 19 T29N R7W; 36.712269, -107.616695;

NMOCD Incident # nAPP2320734440

[**EXTERNAL EMAIL**]

Hi, Kyle, BLM FFO approves the requested variance.

Please proceed with the sampling if the BLM representative is not present at the time of the sampling.

Thank you.

Abiodun Adeloye (Emmanuel) Natural Resources Specialist (NRS) 6251 College Blvd., Suite A Farmington, NM 87402

Office: 505-564-7665 Mobile: 505-635-0984

From: Kyle Summers < ksummers@ensolum.com>

Sent: Tuesday, August 1, 2023 10:18 AM

To: Velez, Nelson, EMNRD < <u>Nelson.Velez@emnrd.nm.gov</u>>; Adeloye, Abiodun A

<aadeloye@blm.gov>

Cc: 'Stone, Brian' < bmstone@eprod.com>

Subject: [EXTERNAL] SJ 27-9 #94A - UL F Section 19 T29N R7W; 36.712269, -107.616695; NMOCD

Incident # nAPP2320734440

This email has been received from outside of DOI - Use caution before clicking on links, opening attachments, or responding.

Nelson/Emanuel,

On behalf of Thomas Long (Enterprise), this email is a notification and a variance request. Enterprise is requesting a variance for the required 48 hour notification per 19.15.29.12D (1a) NMAC. Enterprise would like to collect soil samples for laboratory analysis tomorrow August 2, 2023 at 10:00 a.m. at the SJ 27-9 #94A excavation. Please acknowledge acceptance of this variance request. If you have any questions, please call or email.



Kyle Summers Principal 903-821-5603 Ensolum, LLC



APPENDIX F

Table 1 – Soil Analytical Summary

ENSOLUM

							TABI							
								#94A (07/26/23))					
		_						CAL SUMMARY		_				
Sample I.D.	Date	Sample Type	Sample Depth	Benzene	Toluene	Ethylbenzene	Xylenes	Total BTEX1	TPH GRO	TPH DRO	TPH MRO	Total Combined TPH	Total Combined TPH	Chloride
									GNO	DRO	IVINO	(GRO/DRO) ¹	(GRO/DRO/MRO) ¹	
		C- Composite G - Grab	(feet)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
New Mexi		eral & Natural F	Resources											
Oil Co	onservation Div	rtment vision Closure C nd Tier II)	Criteria	10	NE	NE	NE	50	NE	NE	NE	Tier II - 1,000	Tier I (<4 feet) - 100 Tier II - 2,500	Tier I (<4 feet) - 600 Tier II - 10,000
	Composite Soil Samples Removed by Excavation and Transported to the Landfarm for Disposal/Remediation													
S-2	07.28.23	С	0 to 4	0.82	27	13	66	110	1,600	1,600	<480	N/A	3,200	<60
S-3	07.28.23	С	4 to 14	0.68	28	14	71	110	1,900	1,500	<500	3,400	3,400	<60
S-4	07.28.23	С	0 to 4	0.20	11	4.9	39	55	710	290	<50	N/A	1,000	<59
S-8	07.28.23	С	0 to 4	<0.090	0.48	0.82	6.7	8.0	130	95	<46	N/A	230	<60
						Exca	avation Compo	osite Soil Sampl	es					
S-1	07.28.23	С	14	0.22	8.9	3.9	30	43	600	130	<46	730	730	<60
S-4a	08.02.23	С	0 to 4	<0.019	<0.038	<0.038	<0.076	ND	5.2	20	<47	N/A	25	<59
S-5	07.28.23	С	4 to 14	0.13	8.6	4.3	33	46	620	230	<46	850	850	<60
S-6	07.28.23	С	0 to 4	<0.018	<0.037	<0.037	<0.074	ND	<3.7	11	<48	N/A	11	<60
S-7	07.28.23	С	4 to 14	<0.021	<0.041	<0.041	<0.082	ND	<4.1	<9.5	<47	ND	ND	<59
S-8a	08.02.23	С	0 to 4	<0.019	<0.038	<0.038	<0.076	ND	5.5	35	<49	N/A	41	<60
S-9	07.28.23	С	4 to 14	<0.091	0.49	0.96	7.2	8.7	170	81	<49	250	250	<60
S-10	08.02.23	С	14	<0.11	1.7	1.4	13	16	180	110	<49	290	290	<60
S-11	08.02.23	С	0 to 4	<0.020	<0.040	<0.040	<0.081	ND	<4.0	21	<49	N/A	21	<60
S-12	08.02.23	С	4 to 14	<0.018	<0.037	<0.037	<0.073	ND	4.6	22	<47	27	27	<60
S-13	08.02.23	С	0 to 4	<0.021	<0.042	<0.042	<0.083	ND	4.3	24	<47	N/A	28	<60
S-14	08.02.23	С	4 to 14	<0.018	<0.036	<0.036	<0.072	ND	5.2	38	<50	43	43	<60
S-15	08.02.23	С	0 to 4	<0.021	<0.041	<0.041	<0.083	ND	7.4	37	<46	N/A	44	<60
S-16	08.02.23	С	4 to 14	<0.019	<0.038	<0.038	<0.075	ND	4.7	44	<50	49	49	<60

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

N/A = Not Applicable

NE = Not established

mg/kg = milligrams per kilogram

BTEX = Benzene, Toluene, Ethylbenzene, and Xylenes

TPH = Total Petroleum Hydrocarbons

GRO = Gasoline Range Organics

DRO = Diesel Range Organics

MRO = Motor Oil/Lube Oil Range Organics

^{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)



APPENDIX G

Laboratory Data Sheets & Chain of Custody Documentation



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

August 04, 2023

Kyle Summers

ENSOLUM

606 S. Rio Grande Suite A

Aztec, NM 87410

TEL: (903) 821-5603

FAX:

RE: SJ 27 9 94 A OrderNo.: 2307E44

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 9 sample(s) on 7/29/2023 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 Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 8/4/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-1

 Project:
 SJ 27 9 94 A
 Collection Date: 7/28/2023 10:00:00 AM

 Lab ID:
 2307E44-001
 Matrix: SOIL
 Received Date: 7/29/2023 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	SNS
Chloride	ND	60		mg/Kg	20	7/31/2023 11:15:17 AM	76564
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	: DGH
Diesel Range Organics (DRO)	130	9.2		mg/Kg	1	7/29/2023 12:31:01 PM	76555
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/29/2023 12:31:01 PM	76555
Surr: DNOP	99.0	69-147		%Rec	1	7/29/2023 12:31:01 PM	76555
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: KMN
Gasoline Range Organics (GRO)	600	20		mg/Kg	5	7/31/2023 10:58:00 AM	R98600
Surr: BFB	261	15-244	S	%Rec	5	7/31/2023 10:58:00 AM	R98600
EPA METHOD 8021B: VOLATILES						Analyst	: KMN
Benzene	0.22	0.099		mg/Kg	5	7/31/2023 10:58:00 AM	BS98600
Toluene	8.9	0.20		mg/Kg	5	7/31/2023 10:58:00 AM	BS98600
Ethylbenzene	3.9	0.20		mg/Kg	5	7/31/2023 10:58:00 AM	BS98600
Xylenes, Total	30	0.39		mg/Kg	5	7/31/2023 10:58:00 AM	BS98600
Surr: 4-Bromofluorobenzene	177	39.1-146	S	%Rec	5	7/31/2023 10:58:00 AM	BS98600

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

Qualifiers:

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

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Date Reported: 8/4/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-2

 Project:
 SJ 27 9 94 A
 Collection Date: 7/28/2023 10:05:00 AM

 Lab ID:
 2307E44-002
 Matrix: SOIL
 Received Date: 7/29/2023 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: SNS
Chloride	ND	60		mg/Kg	20	7/31/2023 11:27:42 AM	76564
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	: DGH
Diesel Range Organics (DRO)	1600	96		mg/Kg	10	7/31/2023 11:27:29 AM	76555
Motor Oil Range Organics (MRO)	ND	480		mg/Kg	10	7/31/2023 11:27:29 AM	76555
Surr: DNOP	0	69-147	S	%Rec	10	7/31/2023 11:27:29 AM	76555
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: KMN
Gasoline Range Organics (GRO)	1600	21		mg/Kg	5	7/31/2023 11:20:00 AM	R98600
Surr: BFB	361	15-244	S	%Rec	5	7/31/2023 11:20:00 AM	R98600
EPA METHOD 8021B: VOLATILES						Analyst	: KMN
Benzene	0.82	0.10		mg/Kg	5	7/31/2023 11:20:00 AM	BS98600
Toluene	27	2.1		mg/Kg	50	7/31/2023 2:14:00 PM	BS98600
Ethylbenzene	13	0.21		mg/Kg	5	7/31/2023 11:20:00 AM	BS98600
Xylenes, Total	66	4.2		mg/Kg	50	7/31/2023 2:14:00 PM	BS98600
Surr: 4-Bromofluorobenzene	152	39.1-146	S	%Rec	5	7/31/2023 11:20:00 AM	BS98600

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

Qualifiers:

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

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Date Reported: 8/4/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-3

SJ 27 9 94 A **Project:** Collection Date: 7/28/2023 10:10:00 AM Lab ID: 2307E44-003 Matrix: SOIL Received Date: 7/29/2023 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	SNS
Chloride	ND	60		mg/Kg	20	7/31/2023 11:40:06 AM	76564
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst	: DGH
Diesel Range Organics (DRO)	1500	100		mg/Kg	10	7/31/2023 11:38:02 AM	76555
Motor Oil Range Organics (MRO)	ND	500		mg/Kg	10	7/31/2023 11:38:02 AM	76555
Surr: DNOP	0	69-147	S	%Rec	10	7/31/2023 11:38:02 AM	76555
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: KMN
Gasoline Range Organics (GRO)	1900	200		mg/Kg	50	7/31/2023 2:57:00 PM	R98600
Surr: BFB	204	15-244		%Rec	50	7/31/2023 2:57:00 PM	R98600
EPA METHOD 8021B: VOLATILES						Analyst	: KMN
Benzene	0.68	0.099		mg/Kg	5	7/31/2023 11:42:00 AM	BS98600
Toluene	28	2.0		mg/Kg	50	7/31/2023 2:57:00 PM	BS98600
Ethylbenzene	14	0.20		mg/Kg	5	7/31/2023 11:42:00 AM	BS98600
Xylenes, Total	71	4.0		mg/Kg	50	7/31/2023 2:57:00 PM	BS98600
Surr: 4-Bromofluorobenzene	161	39.1-146	S	%Rec	5	7/31/2023 11:42:00 AM	BS98600

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

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Date Reported: 8/4/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-4

SJ 27 9 94 A **Project:** Collection Date: 7/28/2023 10:15:00 AM Lab ID: 2307E44-004 Matrix: SOIL Received Date: 7/29/2023 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: SNS
Chloride	ND	59		mg/Kg	20	7/31/2023 11:52:31 AM	76564
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analyst	: DGH
Diesel Range Organics (DRO)	290	9.9		mg/Kg	1	7/29/2023 1:03:13 PM	76555
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/29/2023 1:03:13 PM	76555
Surr: DNOP	98.8	69-147		%Rec	1	7/29/2023 1:03:13 PM	76555
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: KMN
Gasoline Range Organics (GRO)	710	20		mg/Kg	5	7/31/2023 12:03:00 PM	R98600
Surr: BFB	323	15-244	S	%Rec	5	7/31/2023 12:03:00 PM	R98600
EPA METHOD 8021B: VOLATILES						Analyst	: KMN
Benzene	0.20	0.098		mg/Kg	5	7/31/2023 12:03:00 PM	BS98600
Toluene	11	0.20		mg/Kg	5	7/31/2023 12:03:00 PM	BS98600
Ethylbenzene	4.9	0.20		mg/Kg	5	7/31/2023 12:03:00 PM	BS98600
Xylenes, Total	39	0.39		mg/Kg	5	7/31/2023 12:03:00 PM	BS98600
Surr: 4-Bromofluorobenzene	133	39.1-146		%Rec	5	7/31/2023 12:03:00 PM	BS98600

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

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Date Reported: 8/4/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-5

 Project:
 SJ 27 9 94 A
 Collection Date: 7/28/2023 10:20:00 AM

 Lab ID:
 2307E44-005
 Matrix: SOIL
 Received Date: 7/29/2023 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	SNS
Chloride	ND	60		mg/Kg	20	7/31/2023 12:04:56 PM	76564
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analyst	: DGH
Diesel Range Organics (DRO)	230	9.1		mg/Kg	1	7/29/2023 1:13:58 PM	76555
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/29/2023 1:13:58 PM	76555
Surr: DNOP	95.8	69-147		%Rec	1	7/29/2023 1:13:58 PM	76555
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: KMN
Gasoline Range Organics (GRO)	620	26		mg/Kg	5	7/31/2023 12:25:00 PM	R98600
Surr: BFB	284	15-244	S	%Rec	5	7/31/2023 12:25:00 PM	R98600
EPA METHOD 8021B: VOLATILES						Analyst	: KMN
Benzene	0.13	0.10		mg/Kg	5	7/31/2023 12:25:00 PM	BS98600
Toluene	8.6	0.26		mg/Kg	5	7/31/2023 12:25:00 PM	BS98600
Ethylbenzene	4.3	0.26		mg/Kg	5	7/31/2023 12:25:00 PM	BS98600
Xylenes, Total	33	0.52		mg/Kg	5	7/31/2023 12:25:00 PM	BS98600
Surr: 4-Bromofluorobenzene	180	39.1-146	S	%Rec	5	7/31/2023 12:25:00 PM	BS98600

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

Qualifiers:

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

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Date Reported: 8/4/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-6

 Project:
 SJ 27 9 94 A
 Collection Date: 7/28/2023 10:25:00 AM

 Lab ID:
 2307E44-006
 Matrix: SOIL
 Received Date: 7/29/2023 7:05:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	SNS
Chloride	ND	60	mg/Kg	20	7/31/2023 12:17:20 PM	76564
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst	: DGH
Diesel Range Organics (DRO)	11	9.6	mg/Kg	1	7/29/2023 1:24:43 PM	76555
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	7/29/2023 1:24:43 PM	76555
Surr: DNOP	125	69-147	%Rec	1	7/29/2023 1:24:43 PM	76555
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: KMN
Gasoline Range Organics (GRO)	ND	3.7	mg/Kg	1	7/31/2023 12:47:00 PM	R98600
Surr: BFB	89.5	15-244	%Rec	1	7/31/2023 12:47:00 PM	R98600
EPA METHOD 8021B: VOLATILES					Analyst	: KMN
Benzene	ND	0.018	mg/Kg	1	7/31/2023 12:47:00 PM	BS98600
Toluene	ND	0.037	mg/Kg	1	7/31/2023 12:47:00 PM	BS98600
Ethylbenzene	ND	0.037	mg/Kg	1	7/31/2023 12:47:00 PM	BS98600
Xylenes, Total	ND	0.074	mg/Kg	1	7/31/2023 12:47:00 PM	BS98600
Surr: 4-Bromofluorobenzene	77.8	39.1-146	%Rec	1	7/31/2023 12:47:00 PM	BS98600

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

Qualifiers:

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

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Date Reported: 8/4/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-7

 Project:
 SJ 27 9 94 A
 Collection Date: 7/28/2023 10:30:00 AM

 Lab ID:
 2307E44-007
 Matrix: SOIL
 Received Date: 7/29/2023 7:05:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: SNS
Chloride	ND	59	mg/Kg	20	7/31/2023 12:29:45 PM	76564
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst	: DGH
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	7/29/2023 1:35:29 PM	76555
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	7/29/2023 1:35:29 PM	76555
Surr: DNOP	98.2	69-147	%Rec	1	7/29/2023 1:35:29 PM	76555
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: KMN
Gasoline Range Organics (GRO)	ND	4.1	mg/Kg	1	7/31/2023 1:08:00 PM	R98600
Surr: BFB	82.6	15-244	%Rec	1	7/31/2023 1:08:00 PM	R98600
EPA METHOD 8021B: VOLATILES					Analyst	: KMN
Benzene	ND	0.021	mg/Kg	1	7/31/2023 1:08:00 PM	BS98600
Toluene	ND	0.041	mg/Kg	1	7/31/2023 1:08:00 PM	BS98600
Ethylbenzene	ND	0.041	mg/Kg	1	7/31/2023 1:08:00 PM	BS98600
Xylenes, Total	ND	0.082	mg/Kg	1	7/31/2023 1:08:00 PM	BS98600
Surr: 4-Bromofluorobenzene	77.2	39.1-146	%Rec	1	7/31/2023 1:08:00 PM	BS98600

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

Qualifiers:

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

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Date Reported: 8/4/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-8

 Project:
 SJ 27 9 94 A
 Collection Date: 7/28/2023 10:35:00 AM

 Lab ID:
 2307E44-008
 Matrix: SOIL
 Received Date: 7/29/2023 7:05:00 AM

Analyses	Result	RL (Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	SNS
Chloride	ND	60	mg/Kg	20	7/31/2023 12:42:09 PM	76564
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst	: DGH
Diesel Range Organics (DRO)	95	9.1	mg/Kg	1	7/29/2023 1:57:04 PM	76555
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	7/29/2023 1:57:04 PM	76555
Surr: DNOP	124	69-147	%Rec	1	7/29/2023 1:57:04 PM	76555
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: KMN
Gasoline Range Organics (GRO)	130	18	mg/Kg	5	7/31/2023 1:30:00 PM	R98600
Surr: BFB	227	15-244	%Rec	5	7/31/2023 1:30:00 PM	R98600
EPA METHOD 8021B: VOLATILES					Analyst	: KMN
Benzene	ND	0.090	mg/Kg	5	7/31/2023 1:30:00 PM	BS98600
Toluene	0.48	0.18	mg/Kg	5	7/31/2023 1:30:00 PM	BS98600
Ethylbenzene	0.82	0.18	mg/Kg	5	7/31/2023 1:30:00 PM	BS98600
Xylenes, Total	6.7	0.36	mg/Kg	5	7/31/2023 1:30:00 PM	BS98600
Surr: 4-Bromofluorobenzene	108	39.1-146	%Rec	5	7/31/2023 1:30:00 PM	BS98600

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

Qualifiers:

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

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Date Reported: 8/4/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-9

SJ 27 9 94 A **Project: Collection Date:** 7/28/2023 10:40:00 AM Lab ID: 2307E44-009 Matrix: SOIL Received Date: 7/29/2023 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analys	: SNS
Chloride	ND	60		mg/Kg	20	7/31/2023 1:19:23 PM	76564
EPA METHOD 8015M/D: DIESEL RANGE OR	RGANICS					Analys	t: DGH
Diesel Range Organics (DRO)	81	9.8		mg/Kg	1	7/29/2023 2:07:53 PM	76555
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/29/2023 2:07:53 PM	76555
Surr: DNOP	98.8	69-147		%Rec	1	7/29/2023 2:07:53 PM	76555
EPA METHOD 8015D: GASOLINE RANGE						Analys	t: KMN
Gasoline Range Organics (GRO)	170	18		mg/Kg	5	7/31/2023 1:52:00 PM	R98600
Surr: BFB	252	15-244	S	%Rec	5	7/31/2023 1:52:00 PM	R98600
EPA METHOD 8021B: VOLATILES						Analys	t: KMN
Benzene	ND	0.091		mg/Kg	5	7/31/2023 1:52:00 PM	BS98600
Toluene	0.49	0.18		mg/Kg	5	7/31/2023 1:52:00 PM	BS98600
Ethylbenzene	0.96	0.18		mg/Kg	5	7/31/2023 1:52:00 PM	BS98600
Xylenes, Total	7.2	0.36		mg/Kg	5	7/31/2023 1:52:00 PM	BS98600
Surr: 4-Bromofluorobenzene	113	39.1-146		%Rec	5	7/31/2023 1:52:00 PM	BS98600

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2307E44**

04-Aug-23

Client: ENSOLUM Project: SJ 27 9 94 A

Sample ID: MB-76564 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 76564 RunNo: 98608

Prep Date: 7/31/2023 Analysis Date: 7/31/2023 SeqNo: 3592134 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-76564 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 76564 RunNo: 98608

Prep Date: 7/31/2023 Analysis Date: 7/31/2023 SeqNo: 3592135 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 91.1 90 110

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

2307E44 04-Aug-23

WO#:

Client: ENSOLUM Project: SJ 27 9 94 A

Sample ID: LCS-76555 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 76555 RunNo: 98594 Units: mg/Kg Prep Date: 7/29/2023 Analysis Date: 7/29/2023 SeqNo: 3590225 PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result LowLimit Qual Diesel Range Organics (DRO) 53 10 50.00 n 107 61.9 130 Surr: DNOP 5.1 5.000 103 69 147

Sample ID: MB-76555 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: Batch ID: 76555 PBS RunNo: 98594 Prep Date: Analysis Date: 7/29/2023 SeqNo: 3590227 7/29/2023 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) ND 10

Motor Oil Range Organics (MRO) ND 50 Surr: DNOP 11 10.00 111 69 147

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
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

Batch ID: **R98600**

PQL

20

SPK value

98.74

3950

Analysis Date: 7/31/2023

660

15000

WO#: **2307E44** *04-Aug-23*

Client: ENSOLUM Project: SJ 27 9 94 A

Sample ID: 2.5UG GRO LCS	SampT	ype: LC	:S	Tes	tCode: FF	PA Method	8015D: Gaso	line Range	ı	
Client ID: LCSS		ID: R9		RunNo: 98600						
Prep Date:	Analysis D				SeqNo: 3		Units: mg/k	(a		
Trep Date.	Allalysis D				·		Office. Hig/r	•		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	5.0	25.00	0	85.1	70	130			
Surr: BFB	1900		1000		192	15	244			
Sample ID: mb	SampT	ype: ME	BLK	TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch	ID: R9	8600	F	RunNo: 98	3600				
Prep Date:	Analysis D	ate: 7/	31/2023	5	SeqNo: 3	590779	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	810		1000		81.5	15	244			
Sample ID: 2307E44-001ams	SampT	ype: MS	3	Tes	tCode: EF	PA Method	8015D: Gaso	line Range		
Client ID: S-1	Batch	ID: R9	8600	F	RunNo: 98	3600				
Prep Date:	Analysis D	ate: 7/	31/2023	5	SeqNo: 3	591531	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	700	20	98.74	601.2	102	70	130			
Surr: BFB	15000		3950		386	15	244			S
Sample ID: 2307E44-001amsd	SampT	SampType: MSD TestCode: EPA Method 8015D: Gasoline Range								

SPK Ref Val

601.2

Qualifiers:

Client ID:

Prep Date:

Surr: BFB

S-1

Gasoline Range Organics (GRO)

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

RunNo: 98600

%REC

59.8

380

SeqNo: 3591532

LowLimit

70

15

Units: mg/Kg

130

244

%RPD

6.17

0

RPDLimit

20

0

Qual S

S

HighLimit

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

Page 12 of 13

Hall Environmental Analysis Laboratory, Inc.

WO#: **2307E44**

04-Aug-23

Client: ENSOLUM Project: SJ 27 9 94 A

Sample ID: 100ng btex lcs	Samp ⁻	Гуре: LC	s	TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: BS98600			F	RunNo: 98						
Prep Date:	Analysis [Date: 7/ 3	31/2023	5	SeqNo: 3	590786	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.94	0.025	1.000	0	94.3	70	130				
Toluene	0.96	0.050	1.000	0	95.7	70	130				
Ethylbenzene	0.97	0.050	1.000	0	96.6	70	130				
Xylenes, Total	2.9	0.10	3.000	0	96.9	70	130				
Surr: 4-Bromofluorobenzene	0.82		1.000		82.3	39.1	146				

Sample ID: mb	Samp	SampType: MBLK TestCode: EPA Method 8						l 8021B: Volatiles					
Client ID: PBS	Batcl	n ID: BS	98600	F	RunNo: 98600								
Prep Date:	Analysis [Date: 7/3	31/2023	9	SeqNo: 3	590787	Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Benzene	ND	0.025											
Toluene	ND	0.050											
Ethylbenzene	ND	0.050											
Xylenes, Total	ND	0.10											
Surr: 4-Bromofluorobenzene	0.81		1.000		80.7	39.1	146						

Sample ID: 2307E44-001ams	Samp	Гуре: МЅ	3	Tes	tCode: Ef	PA Method	8021B: Volati	les					
Client ID: S-1	Batc	h ID: BS	98600	F	RunNo: 98	nNo: 98640							
Prep Date:	Analysis [Date: 8/ 2	2/2023	5	SeqNo: 3	592955	Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Benzene	4.0	0.099	3.950	0.2174	95.1	70	130						
Toluene	13	0.20	3.950	8.851	93.3	70	130						
Ethylbenzene	7.5	0.20	3.950	3.924	91.5	70	130						
Xylenes, Total	41	0.39	11.85	30.09	90.7	70	130						
Surr: 4-Bromofluorobenzene	7.5		3.950		189	39.1	146			S			

Sample ID: 2307E44-001amsd	Samp1	ype: MS	SD .	TestCode: EPA Method 8021B: Volatiles							
Client ID: S-1	Batch	Batch ID: BS98600 RunNo: 98640									
Prep Date:	Analysis D	Date: 8/2	2/2023	5	SeqNo: 3	592956	56 Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	3.8	0.099	3.950	0.2174	90.1	70	130	5.05	20		
Toluene	12	0.20	3.950	8.851	77.8	70	130	5.02	20		
Ethylbenzene	7.2	0.20	3.950	3.924	82.8	70	130	4.62	20		
Xylenes, Total	39	0.39	11.85	30.09	75.0	70	130	4.65	20		
Surr: 4-Bromofluorobenzene	7.3		3.950		184	39.1	146	0	0	S	

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
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

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

Sample Log-In Check List

Released to Imaging: 1/3/2024 11:14:35 AM

Client Name:	ENSOLUM		Work	Order Numbe	er: 2307E44		RcptNo:	1
Received By:	luan Dain	_	7/20/20	23 7:05:00 A		Hunsay		
-	Juan Rojas					Glaveny		
Completed By:	Juan Roja	5		23 8:11:41 A	IVI	- Juni - 25		
Reviewed By:	TMC		7/29/2	3				
Chain of Cust	ody							
1. Is Chain of Cus	stody compl	ete?			Yes 🗹	No 🗆	Not Present	
2. How was the s	ample delive	ered?			Courier			
<u>Log In</u>								
3. Was an attemp	ot made to c	ool the sample	es?		Yes 🗹	No 🗌	na 🗌	
4. Were all sampl	es received	at a temperat	ure of >0° C t	o 6.0°C	Yes 🗹	No 🗆	NA \square	
5. Sample(s) in p	roper contai	ner(s)?			Yes 🗹	No 🗌		
6. Sufficient samp	ole volume fo	or indicated te	st(s)?		Yes 🗹	No 🗌		
7. Are samples (e	xcept VOA a	and ONG) pro	perly preserve	ed?	Yes 🗸	No 🗌		
8. Was preservati	ve added to	bottles?			Yes 🗌	No 🗹	NA \square	
9. Received at lea	ıst 1 vial witl	n headspace <	<1/4" for AQ V	OA?	Yes 🗌	No 🗌	NA 🗹	
10. Were any sam	ple containe	rs received bi	oken?		Yes	No 🗹	# of preserved	
11. Does paperwor (Note discrepal					Yes 🗹	No 🗆	bottles checked for pH:	12 unless note
12. Are matrices co		-			Yes 🗸	No 🗌	Adjusted?	
13. Is it clear what					Yes 🗸	No 🗌		
14. Were all holdin (If no, notify cu	g times able	to be met?			Yes 🗹	No 🗆	Checked by:	N7/29/
Special Handli		59						
15. Was client not	ified of all di	screpancies v	vith this order?	•	Yes 🗌	No 🗌	NA 🗹	
Person i	Notified:			Date				
By Who	m:			Via:	eMail	☐ Phone ☐ Fax	In Person	
Regardin	ng:							
Client In	structions:							
16. Additional ren	narks:							
Client m	issing phone	number and	email address	on COC, JR	7/29/23			
17. Cooler Inform			I	}			I	
Cooler No	Temp ⁰C	Condition	Seal Intact	Seal No	Seal Date	Signed By		
1	1.8	Good	Yes	Morty				

Chain-of-Custody Record	Time: Now	HALL ENVIRONMENTAL
Chem. Ensow CLC	□ Standard ゆRush アージピーン	ANALYSIS LABORATORY
	Project Name:	www.hallenvironmental.com
Mailing Address: 606 Ship Bank	SJ 27-9 #94 A	4901 Hawkins NE - Albuquerque, NM 87109
SU14 & 874/10	Project #:	Tel. 505-345-3975 Fax 505-345-4107
		Analysis Request
email or Fax#:	Project Manager:	(O)
QA/QC Package:	•	e'8: e'8:
☐ Standard ☐ Level 4 (Full Validation)	K Summers	\ OS PC SO
	r. OD Apons	728 ₇ <u>5</u> QN
□ NELAC □ Other	On Ice: A Yes D No	(O) (O) (O) (E) (O) (O)
□ EDD (Type)	WATE OF	D(Celaidicidididididididididididididididididi
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755 1005 5 5-2	1 (20) -002	
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Date: Time: Relinquished by:	Ē	Remarks: 70m long scal-takent to +/20/
-	N & 128/23	A September 1
Date: Time: Relinquished by:		
200	1 (DUSING + 101/157.03)	" " " " " " " " " " " " " " " " " " "

If necessary, samples submitted to Hall Environmental may be subcontracted to defer accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the Released to Imaging: 1/3/2024 11:14:35 AM



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

August 07, 2023

Kyle Summers

ENSOLUM

606 S. Rio Grande Suite A

Aztec, NM 87410

TEL: (903) 821-5603

FAX:

RE: SJ 29 7 94 A OrderNo.: 2308185

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 9 sample(s) on 8/3/2023 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 Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 8/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-4a

 Project:
 SJ 29 7 94 A
 Collection Date: 8/2/2023 10:00:00 AM

 Lab ID:
 2308185-001
 Matrix: MEOH (SOIL)
 Received Date: 8/3/2023 6:20:00 AM

Result **RL Oual Units DF** Date Analyzed Batch Analyses **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride ND 59 mg/Kg 20 8/3/2023 9:15:51 AM 76643 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: DGH Diesel Range Organics (DRO) 9.3 mg/Kg 8/3/2023 9:05:42 AM 76642 Motor Oil Range Organics (MRO) ND mg/Kg 1 8/3/2023 9:05:42 AM 76642 47 Surr: DNOP 97.8 69-147 %Rec 8/3/2023 9:05:42 AM 76642 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: KMN Gasoline Range Organics (GRO) 5.2 8/3/2023 11:18:00 AM R98690 3.8 mg/Kg 1 Surr: BFB 123 %Rec 8/3/2023 11:18:00 AM R98690 15-244 **EPA METHOD 8021B: VOLATILES** Analyst: KMN ND 0.019 8/3/2023 11:18:00 AM R98690 Benzene mg/Kg Toluene ND 0.038 mg/Kg 8/3/2023 11:18:00 AM R98690 Ethylbenzene ND 0.038 mg/Kg 1 8/3/2023 11:18:00 AM R98690 Xylenes, Total ND 0.076 mg/Kg 8/3/2023 11:18:00 AM R98690 Surr: 4-Bromofluorobenzene R98690 98.9 39.1-146 %Rec 8/3/2023 11:18:00 AM

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

Page 1 of 16

Date Reported: 8/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-8a

 Project:
 SJ 29 7 94 A
 Collection Date: 8/2/2023 10:05:00 AM

 Lab ID:
 2308185-002
 Matrix: MEOH (SOIL)
 Received Date: 8/3/2023 6:20:00 AM

Result **RL Oual Units DF** Date Analyzed Batch Analyses **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride ND 60 mg/Kg 20 8/3/2023 9:28:12 AM 76643 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: DGH Diesel Range Organics (DRO) 9.7 mg/Kg 8/3/2023 9:16:11 AM 76642 Motor Oil Range Organics (MRO) ND mg/Kg 1 8/3/2023 9:16:11 AM 76642 49 Surr: DNOP 97.6 69-147 %Rec 8/3/2023 9:16:11 AM 76642 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: KMN Gasoline Range Organics (GRO) 5.5 8/3/2023 11:40:00 AM R98690 3.8 mg/Kg Surr: BFB 126 %Rec 8/3/2023 11:40:00 AM R98690 15-244 **EPA METHOD 8021B: VOLATILES** Analyst: KMN ND 0.019 8/3/2023 11:40:00 AM R98690 Benzene mg/Kg Toluene ND 0.038 mg/Kg 8/3/2023 11:40:00 AM R98690 Ethylbenzene ND 0.038 mg/Kg 1 8/3/2023 11:40:00 AM R98690 Xylenes, Total ND 0.076 mg/Kg 8/3/2023 11:40:00 AM R98690 Surr: 4-Bromofluorobenzene 99.5 39.1-146 %Rec 8/3/2023 11:40:00 AM R98690

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

Qualifiers:

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

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Date Reported: 8/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-10

 Project:
 SJ 29 7 94 A
 Collection Date: 8/2/2023 10:10:00 AM

 Lab ID:
 2308185-003
 Matrix: MEOH (SOIL)
 Received Date: 8/3/2023 6:20:00 AM

Result **RL Oual Units DF** Date Analyzed Batch Analyses **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride ND 60 mg/Kg 20 8/3/2023 9:40:32 AM 76643 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: DGH Diesel Range Organics (DRO) 9.8 mg/Kg 8/3/2023 9:44:10 AM 76642 Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 8/3/2023 9:44:10 AM 76642 Surr: DNOP 97.3 69-147 %Rec 1 8/3/2023 9:44:10 AM 76642 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: KMN Gasoline Range Organics (GRO) 180 5 8/3/2023 10:56:00 AM R98690 21 mg/Kg Surr: BFB 252 15-244 S %Rec 8/3/2023 10:56:00 AM R98690 **EPA METHOD 8021B: VOLATILES** Analyst: KMN ND mg/Kg 8/3/2023 10:56:00 AM R98690 Benzene 0.11 5 Toluene 1.7 0.21 mg/Kg 8/3/2023 10:56:00 AM R98690 Ethylbenzene 1.4 0.21 mg/Kg 5 8/3/2023 10:56:00 AM R98690 Xylenes, Total 13 0.43 mg/Kg 5 8/3/2023 10:56:00 AM R98690 Surr: 4-Bromofluorobenzene 131 39.1-146 %Rec 8/3/2023 10:56:00 AM R98690

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

Page 3 of 16

Date Reported: 8/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-11

Project: SJ 29 7 94 A **Collection Date:** 8/2/2023 10:15:00 AM

Lab ID: 2308185-004 **Matrix:** MEOH (SOIL) **Received Date:** 8/3/2023 6:20:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: JMT
Chloride	ND	60	mg/Kg	20	8/3/2023 9:52:51 AM	76643
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analys	t: DGH
Diesel Range Organics (DRO)	21	9.9	mg/Kg	1	8/3/2023 9:54:39 AM	76642
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/3/2023 9:54:39 AM	76642
Surr: DNOP	97.4	69-147	%Rec	1	8/3/2023 9:54:39 AM	76642
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: KMN
Gasoline Range Organics (GRO)	ND	4.0	mg/Kg	1	8/3/2023 12:02:00 PM	R98690
Surr: BFB	109	15-244	%Rec	1	8/3/2023 12:02:00 PM	R98690
EPA METHOD 8021B: VOLATILES					Analys	t: KMN
Benzene	ND	0.020	mg/Kg	1	8/3/2023 12:02:00 PM	R98690
Toluene	ND	0.040	mg/Kg	1	8/3/2023 12:02:00 PM	R98690
Ethylbenzene	ND	0.040	mg/Kg	1	8/3/2023 12:02:00 PM	R98690
Xylenes, Total	ND	0.081	mg/Kg	1	8/3/2023 12:02:00 PM	R98690
Surr: 4-Bromofluorobenzene	96.2	39.1-146	%Rec	1	8/3/2023 12:02:00 PM	R98690

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

Qualifiers:

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

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Surr: 4-Bromofluorobenzene

Analytical Report Lab Order 2308185

Date Reported: 8/7/2023

8/3/2023 12:23:00 PM

R98690

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-12

 Project:
 SJ 29 7 94 A
 Collection Date: 8/2/2023 10:20:00 AM

 Lab ID:
 2308185-005
 Matrix: MEOH (SOIL)
 Received Date: 8/3/2023 6:20:00 AM

Result **RL Qual Units DF** Date Analyzed Batch Analyses **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride ND 60 mg/Kg 20 8/3/2023 10:05:12 AM 76643 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: DGH Diesel Range Organics (DRO) 9.4 mg/Kg 8/3/2023 10:05:11 AM 76642 Motor Oil Range Organics (MRO) ND mg/Kg 1 8/3/2023 10:05:11 AM 76642 47 Surr: DNOP 105 8/3/2023 10:05:11 AM 69-147 %Rec 76642 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: KMN Gasoline Range Organics (GRO) 8/3/2023 12:23:00 PM R98690 4.6 3.7 mg/Kg 1 Surr: BFB 125 %Rec 8/3/2023 12:23:00 PM R98690 15-244 **EPA METHOD 8021B: VOLATILES** Analyst: KMN ND 0.018 8/3/2023 12:23:00 PM R98690 Benzene mg/Kg Toluene ND 0.037 mg/Kg 8/3/2023 12:23:00 PM R98690 Ethylbenzene ND 0.037 mg/Kg 1 8/3/2023 12:23:00 PM R98690 Xylenes, Total ND 0.073 mg/Kg 8/3/2023 12:23:00 PM R98690

97.8

39.1-146

%Rec

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

Qualifiers:

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

rting Limit Page 5 of 16

Date Reported: 8/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-13

 Project:
 SJ 29 7 94 A
 Collection Date: 8/2/2023 10:25:00 AM

 Lab ID:
 2308185-006
 Matrix: MEOH (SOIL)
 Received Date: 8/3/2023 6:20:00 AM

Result **RL Qual Units DF** Date Analyzed Batch Analyses **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride ND 60 mg/Kg 20 8/3/2023 10:42:13 AM 76643 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: DGH Diesel Range Organics (DRO) 9.5 mg/Kg 8/3/2023 10:15:44 AM 76642 Motor Oil Range Organics (MRO) ND mg/Kg 1 8/3/2023 10:15:44 AM 76642 47 Surr: DNOP 94.4 69-147 %Rec 8/3/2023 10:15:44 AM 76642 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: KMN Gasoline Range Organics (GRO) 4.3 8/3/2023 12:45:00 PM R98690 4.2 mg/Kg 1 Surr: BFB 117 %Rec 8/3/2023 12:45:00 PM R98690 15-244 **EPA METHOD 8021B: VOLATILES** Analyst: KMN ND 0.021 8/3/2023 12:45:00 PM R98690 Benzene mg/Kg Toluene ND 0.042 mg/Kg 8/3/2023 12:45:00 PM R98690 Ethylbenzene ND 0.042 mg/Kg 1 8/3/2023 12:45:00 PM R98690 Xylenes, Total ND 0.083 mg/Kg 8/3/2023 12:45:00 PM R98690 Surr: 4-Bromofluorobenzene 96.4 39.1-146 %Rec 8/3/2023 12:45:00 PM R98690

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

Page 6 of 16

Date Reported: 8/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-14

 Project:
 SJ 29 7 94 A
 Collection Date: 8/2/2023 10:30:00 AM

 Lab ID:
 2308185-007
 Matrix: MEOH (SOIL)
 Received Date: 8/3/2023 6:20:00 AM

Result **RL Oual Units DF** Date Analyzed Batch Analyses **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride ND 60 mg/Kg 20 8/3/2023 10:54:34 AM 76643 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: DGH Diesel Range Organics (DRO) 9.9 mg/Kg 8/3/2023 10:26:19 AM 76642 Motor Oil Range Organics (MRO) ND mg/Kg 1 8/3/2023 10:26:19 AM 76642 50 Surr: DNOP 92.8 69-147 %Rec 8/3/2023 10:26:19 AM 76642 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: KMN Gasoline Range Organics (GRO) 5.2 8/3/2023 1:07:00 PM R98690 3.6 mg/Kg 1 Surr: BFB 128 %Rec 8/3/2023 1:07:00 PM R98690 15-244 **EPA METHOD 8021B: VOLATILES** Analyst: KMN ND 0.018 8/3/2023 1:07:00 PM R98690 Benzene mg/Kg Toluene ND 0.036 mg/Kg 8/3/2023 1:07:00 PM R98690 Ethylbenzene ND 0.036 mg/Kg 1 8/3/2023 1:07:00 PM R98690 Xylenes, Total ND 0.072 mg/Kg 8/3/2023 1:07:00 PM R98690 R98690 Surr: 4-Bromofluorobenzene 98.3 39.1-146 %Rec 8/3/2023 1:07:00 PM

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

Qualifiers:

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

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Date Reported: 8/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-15

Project: SJ 29 7 94 A **Collection Date:** 8/2/2023 10:35:00 AM

Lab ID: 2308185-008 **Matrix:** MEOH (SOIL) **Received Date:** 8/3/2023 6:20:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	60	mg/Kg	20	8/3/2023 11:06:55 AM	76643
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: DGH
Diesel Range Organics (DRO)	37	9.1	mg/Kg	1	8/3/2023 10:36:56 AM	76642
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	8/3/2023 10:36:56 AM	76642
Surr: DNOP	89.3	69-147	%Rec	1	8/3/2023 10:36:56 AM	76642
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: KMN
Gasoline Range Organics (GRO)	7.4	4.1	mg/Kg	1	8/3/2023 1:29:00 PM	R98690
Surr: BFB	126	15-244	%Rec	1	8/3/2023 1:29:00 PM	R98690
EPA METHOD 8021B: VOLATILES					Analyst	: KMN
Benzene	ND	0.021	mg/Kg	1	8/3/2023 1:29:00 PM	R98690
Toluene	ND	0.041	mg/Kg	1	8/3/2023 1:29:00 PM	R98690
Ethylbenzene	ND	0.041	mg/Kg	1	8/3/2023 1:29:00 PM	R98690
Xylenes, Total	ND	0.083	mg/Kg	1	8/3/2023 1:29:00 PM	R98690
Surr: 4-Bromofluorobenzene	102	39.1-146	%Rec	1	8/3/2023 1:29:00 PM	R98690

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

Paparting Limit

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Date Reported: 8/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-16

 Project:
 SJ 29 7 94 A
 Collection Date: 8/2/2023 10:40:00 AM

 Lab ID:
 2308185-009
 Matrix: MEOH (SOIL)
 Received Date: 8/3/2023 6:20:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analysi	: JMT
Chloride	ND	60	mg/Kg	20	8/3/2023 11:19:16 AM	76643
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: DGH
Diesel Range Organics (DRO)	44	9.9	mg/Kg	1	8/3/2023 10:47:32 AM	76642
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	8/3/2023 10:47:32 AM	76642
Surr: DNOP	102	69-147	%Rec	1	8/3/2023 10:47:32 AM	76642
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: KMN
Gasoline Range Organics (GRO)	4.7	3.8	mg/Kg	1	8/3/2023 1:51:00 PM	R98690
Surr: BFB	121	15-244	%Rec	1	8/3/2023 1:51:00 PM	R98690
EPA METHOD 8021B: VOLATILES					Analyst	: KMN
Benzene	ND	0.019	mg/Kg	1	8/3/2023 1:51:00 PM	R98690
Toluene	ND	0.038	mg/Kg	1	8/3/2023 1:51:00 PM	R98690
Ethylbenzene	ND	0.038	mg/Kg	1	8/3/2023 1:51:00 PM	R98690
Xylenes, Total	ND	0.075	mg/Kg	1	8/3/2023 1:51:00 PM	R98690
Surr: 4-Bromofluorobenzene	96.9	39.1-146	%Rec	1	8/3/2023 1:51:00 PM	R98690

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

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2308185**

07-Aug-23

Client: ENSOLUM Project: SJ 29 7 94 A

Sample ID: MB-76643 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: **76643** RunNo: **98696**

Prep Date: **8/3/2023** Analysis Date: **8/3/2023** SeqNo: **3596185** Units: **mg/Kg**

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

Chloride ND 1.5

Sample ID: LCS-76643 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 76643 RunNo: 98696

Prep Date: 8/3/2023 Analysis Date: 8/3/2023 SeqNo: 3596186 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 92.6 90 110

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: 2308185

07-Aug-23

Client:	ENSOLUM
Project:	SJ 29 7 94 A

Sample ID:	2308185-009AMS	SampT	ype: MS	3	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID:	S-16	Batch	1D: 76 6	642	F	RunNo: 98	8705				
Prep Date:	8/3/2023	Analysis D	ate: 8/ 3	3/2023	S	SeqNo: 3	595302	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
=	Organics (DRO)	66	9.4	46.82	44.20	46.4	54.2	135			S
Surr: DNOP		4.2		4.682		89.0	69	147			
Sample ID:	2308185-009AMSD	SampT	ype: MS	SD	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID:	S-16	Batch ID: 76642			RunNo: 98705						
Prep Date:	8/3/2023	Analysis D	ate: 8/ 3	3/2023	8	SeqNo: 3	595303	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
=	Organics (DRO)	74	9.4	47.04	44.20	63.7	54.2	135	11.7	29.2	
Surr: DNOP		4.7		4.704		99.1	69	147	0	0	
Sample ID:	LCS-76642	SampT	ype: LC	s	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID:	LCSS	Batch	ID: 76 6	642	F	RunNo: 98705					
Prep Date:	8/3/2023	Analysis D	ate: 8/ 3	3/2023	S	SeqNo: 3	595309	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Organics (DRO)	48	10	50.00	0	95.1	61.9	130			
Surr: DNOP		4.3		5.000		86.2	69	147			
Sample ID:	LCS-76646	SampT	ype: LC	s	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID:	LCSS	Batch	1D: 76 6	646	RunNo: 98705						
Prep Date:	8/3/2023	Analysis D	ate: 8/ 3	3/2023	S	SeqNo: 3	595310	Units: %Rec	;		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		4.9		5.000		97.3	69	147			
Sample ID:	MB-76642	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID:	PBS	Batch	ID: 76 6	642	F	RunNo: 98	8705		-		
Prep Date:	8/3/2023	Analysis D	ate: 8/ 3	3/2023	S	SeqNo: 3	595311	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	Organics (DRO)	ND	10					-			
Motor Oil Rang	e Organics (MRO)	ND	50								
Surr: DNOP		8.5		10.00		85.4	69	147			
Sample ID:	MB-76646	SampT	ype: ME	BLK	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID:	PBS	Batch ID: 76646			RunNo: 98705						
Prep Date:	8/3/2023	Analysis D	ate: 8/ 3	3/2023	5	SeqNo: 3	596177	Units: %Rec	;		
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
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

9.7

WO#: **2308185** *07-Aug-23*

Client: ENSOLUM Project: SJ 29 7 94 A

Surr: DNOP

Sample ID: MB-76646 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 76646 RunNo: 98705

Prep Date: 8/3/2023 Analysis Date: 8/3/2023 SeqNo: 3596177 Units: %Rec

10.00

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

97.1

69

147

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

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: 2308185

07-Aug-23

Client:	ENSOLUM
Project:	SJ 29 7 94 A

Project:	SJ 29 7 94	∔ A									
Sample ID:	100ug gro lcs	SampT	ype: LC	s	Tes	tCode: EF	PA Method	8015D: Gaso	line Range		
Client ID:	LCSS	Batch	ID: R9	8690	F	RunNo: 98	3690				
Prep Date:		Analysis D	ate: 8/ 3	3/2023	8	SeqNo: 35	594928	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
_	e Organics (GRO)	22	5.0	25.00	0	87.4	70	130			
Surr: BFB		2200		1000		215	15	244			
Sample ID:	mb	SampT	уре: МЕ	BLK	Tes	tCode: EF	PA Method	8015D: Gaso	line Range		
Client ID:	PBS	Batch	ID: R9	8690	RunNo: 98690						
Prep Date:		Analysis D	ate: 8/ 3	3/2023	\$	SeqNo: 3	594929	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
_	e Organics (GRO)	ND	5.0								
Surr: BFB		1000		1000		105	15	244			
Sample ID:	2308185-001ams	SampT	ype: MS	3	TestCode: EPA Method 8015D: Gasoline Range						
Client ID:	S-4a	Batch	Batch ID: R98690			RunNo: 98690					
Prep Date:		Analysis D	ate: 8/ 3	3/2023	\$	SeqNo: 3	595289	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	e Organics (GRO)	22	3.8	19.03	5.160	86.9	70	130			
Surr: BFB		1800		761.0		237	15	244			
Sample ID:	2308185-001amsd	SampT	уре: МЅ	SD	TestCode: EPA Method 8015D: Gasoline Range						
Client ID:	S-4a	Batch	ID: R9	8690	RunNo: 98690						
Prep Date:		Analysis D	ate: 8/ 3	3/2023	\$	SeqNo: 3	595437	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
_	e Organics (GRO)	21	3.8	19.03	5.160	81.8	70	130	4.59	20	
Surr: BFB		1700		761.0		229	15	244	0	0	
Sample ID:	2.5ug gro lcs	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8015D: Gaso	line Range		
Client ID:	LCSS	Batch	ID: R9	8690	F	RunNo: 98	3690				
Prep Date:		Analysis D	ate: 8/ 3	3/2023	5	SeqNo: 3	596291	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
_	e Organics (GRO)	21	5.0	25.00	0	83.6	70	130			
Surr: BFB		2100		1000		207	15	244			
Sample ID:	mb	SampT	уре: МЕ	BLK	TestCode: EPA Method 8015D: Gasoline Range						
Client ID:	PBS	Batch ID: R98690		RunNo: 98690							
Prep Date:		Analysis D	ate: 8/ 3	3/2023	S	SeqNo: 3	596292	Units: mg/K	(g		
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
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2308185**

07-Aug-23

Client: ENSOLUM Project: SJ 29 7 94 A

Sample ID: mb SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: R98690 RunNo: 98690

Prep Date: Analysis Date: 8/3/2023 SeqNo: 3596292 Units: mg/Kg

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

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 950 1000 95.0 15 244

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2308185**

07-Aug-23

Client: ENSOLUM Project: SJ 29 7 94 A

Sample ID: 100ng btex lcs	Samp ⁻	Гуре: LC :	S	TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: R98690			RunNo: 98690						
Prep Date:	Analysis Date: 8/3/2023			5	SeqNo: 3	594931	Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	94.8	70	130			
Toluene	0.96	0.050	1.000	0	96.2	70	130			
Ethylbenzene	0.97	0.050	1.000	0	96.7	70	130			
Xylenes, Total	2.9	0.10	3.000	0	96.5	70	130			
Surr: 4-Bromofluorobenzene	0.97		1.000		96.7	39.1	146			

Sample ID: mb	SampT	ype: MB	BLK	Tes	tCode: EF					
Client ID: PBS	Batch ID: R98690			F	RunNo: 98690					
Prep Date:	Analysis Date: 8/3/2023			SeqNo: 3594932 Units: mg/Kg				g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.95		1.000		95.2	39.1	146			

Sample ID: 2308185-002ams	Samp	Гуре: МЅ	;	Tes						
Client ID: S-8a	Batc	Batch ID: R98690			RunNo: 98690					
Prep Date:	Analysis [Analysis Date: 8/3/2023			SeqNo: 3595438 U			Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.70	0.019	0.7570	0	93.0	70	130			
Toluene	0.72	0.038	0.7570	0.01350	93.5	70	130			
Ethylbenzene	0.72	0.038	0.7570	0	95.2	70	130			
Xylenes, Total	2.1	0.076	2.271	0.01885	93.7	70	130			
Surr: 4-Bromofluorobenzene	0.77		0.7570		102	39.1	146			

Sample ID: 2308185-002amsd	SampT	SampType: MSD			tCode: EF						
Client ID: S-8a	Batch	Batch ID: R98690			RunNo: 98690						
Prep Date:	Analysis D	Analysis Date: 8/3/2023			SeqNo: 3596202 Units			nits: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.65	0.019	0.7570	0	85.6	70	130	8.30	20		
Toluene	0.67	0.038	0.7570	0.01350	86.2	70	130	7.95	20		
Ethylbenzene	0.66	0.038	0.7570	0	87.1	70	130	8.89	20		
Xylenes, Total	2.0	0.076	2.271	0.01885	86.7	70	130	7.75	20		
Surr: 4-Bromofluorobenzene	0.75		0.7570		99.3	39.1	146	0	0		

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2308185**

07-Aug-23

Client: ENSOLUM Project: SJ 29 7 94 A

Sample ID: 100ng btex lcs	Samp ¹	SampType: LCS			TestCode: EPA Method 8021B: Volatiles					
Client ID: LCSS	Batch ID: R98690			F	RunNo: 98690					
Prep Date:	Analysis [Date: 8/ 3	3/2023	SeqNo: 35963			3596324 Units: mg/Kg			
Analyte	Result	Result PQL SPK value		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	1.000	0	94.3	70	130			
Toluene	0.96	0.050	1.000	0	96.3	70	130			
Ethylbenzene	0.97	0.050	1.000	0	97.2	70	130			
Xylenes, Total	2.9	2.9 0.10 3.000		0	97.2	70	130			
Surr: 4-Bromofluorobenzene	0.95		1.000		95.4	39.1	146			

Sample ID: mb	BLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: R98690			F	RunNo: 98					
Prep Date:	Analysis Date: 8/3/2023			SeqNo: 3596325			Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.95		1.000		95.2	39.1	146			

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
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com Sample Log-In Check List

Released to Imaging: 1/3/2024 11:14:35 AM

Client Name: ENSOLUM	Work Order Numbe	r: 2308185		RcptNo: 1	
Received By: Tracy Casarrubias	8/3/2023 6:20:00 AM				
Completed By: Tracy Casarrubias	8/3/2023 6:50:25 AM				
Reviewed By: SCM 08/03/73	3				
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 sample	rac ?	Yes 🗹	No 🗌	NA 🗌	
o. Was all attempt made to coor the sample	: 5 :	163 🖭	110		
4. Were all samples received at a temperatu	ure of >0° C to 6.0°C	Yes 🗹	No 🗌	NA 🗆	
5. Sample(s) in proper container(s)?		Yes 🗹	No 🗌		
6. Sufficient sample volume for indicated tes	st(s)?	Yes 🗹	No 🗌		
$7_{\scriptscriptstyle \perp}$ Are samples (except VOA and ONG) prop	perly 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 bro	oken?	Yes \square	No 🗹	# of preserved	
11. 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 🗌		1 - 1
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗹	No 🗌	enecked by: JN	813/2
Special Handling (if applicable)					
15. Was client notified of all discrepancies w	ith this order?	Yes 🗌	No 🗌	NA 🗹	
Person Notified:	Date:				
By Whom:	Via:	eMail I	Phone Fax	☐ In Person	
Regarding:	TO THE SECRET WHEN THE SECRET PRODUCTION OF THE SECRET PRODUCT P			to the block on a subtract the be-	
Client Instructions: Phone number	er is missing on COC - TMC	8/3/23		AND THE RESERVE OF THE PERSON	
16. Additional remarks:					

17. Cooler Information

Cooler No		Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.0	Good	Yes	Yogi		_

Chain-of-C	Chain-of-Gustody Record	Turn-Around Time:	Time: //// %	-						
	dated hecold			,				VIE	ENVIDONMENTAL	ENTAI
Client: EMSOLUM	777	☐ Standard	Rush 8-3	1201		ANA	. 1	V	ABOB	AROBATORY
		Project Name:	100						אסמא	201
Mailing Address: 60%	S Aio Grande	⟨\`\	7 29-7	944	4901 H	www.n 4901 Hawkins NE	, g	onmen	environmental.com Albuquerque, NM 87109	σ
Svit A &		Project #:			Tel. 50	Tel. 505-345-3975	10	Fax 505	505-345-4107	
Phone #:							Ana	is Req	uest	
email or Fax#: Colan	adaportia ansolum. com	Project Manager:	ger:			F	†Q		(tr	
QA/QC Package:	\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\		X 6.7.3		/ MR	SWI	S O	- 3	ıəsdA	
	☐ Level 4 (Full Validation)		10mme/	14	O5	S0.	4		⁄дu	
	☐ Az Compliance	Jr.	Apon		\DI		ZON	(
☐ FDD (Type)	er.	On Ice:	y Yes 🗆 No	[क्य]	оъ	10 O	1 00	ΑΟ	ıд) u	
		Cooler Temphanian cm. L	A COAR LINES	(Je)	D(C	158	M		orn	
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Date Time Matrix	Sample Name	Container Type and #	Preservative HEAI	HEAL No.	X3TE 8:H9T 1 1808) ad= sHAc	SÇRA 3CRA) 0928) 0728) lsto]	
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8/2 1005 5	5-82				7					
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8/2 LOIS 5	11-5				7		, ,			
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	5-13		Jour note	N I I I I I	. \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \					
8/2 20,30 5	11-5		Cool how		. 3		7			
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8/2 1040 5	8-16	→			7		1			
				2-1						
-									100	
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~	hed by:	Received by:	Via: Date	Time / 12/9	Remarks:	Min	long			7
Date: Time: Relinquished by:	hed by:	Received by:	Via: Course Date	Time (2.20)						Or Marie Contraction of the Cont
Released to Imaging, 1/3,	1 E	intracted to other ac	Credited laboratories. This serves	as notice of this p	ossibility. Any sub	-contracted da	ata will be clo	arly potat	ed on the analytic	sal renort

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

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

Action 282875

CONDITIONS

Operator:	OGRID:
Enterprise Field Services, LLC	241602
PO Box 4324	Action Number:
Houston, TX 77210	282875
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By		Condition Date
nvelez	None	1/3/2024