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 | |

Volume/Weight Recovered (provide units)

Release Notification

Responsible Party

| | | | - I | | | | | | |
|---------------------------|--------------------------------------|------------------|--------------------|--------------------------|--|--|--|--|--|
| Responsible | Party: Ente | rprise Field Ser | vices, LLC | OGRID: 2 | 41602 | | | | |
| Contact Nam | ne: Thomas | Long | | Contact Te | elephone: 505- | 599-2286 | | | |
| Contact ema | Contact email:tjlong@eprod.com Incid | | | | (assigned by OCE | nAPP2319233055 | | | |
| Contact mail 87401 | ing address: | 614 Reilly Ave, | Farmington, NM | М | | | | | |
| | | | Location | of Release So | ource | | | | |
| Latitude 36.6 | 55679 | | Longitude <u>-</u> | 107.36470 | (NAD | 83 in decimal degrees to 5 decimal places) | | | |
| Site Name Sa | an Juan 28 | -5 #14 | | Site Type N | latural Gas (| Gathering Pipeline | | | |
| Date Release | Discovered: | 07/10/2023 | | Serial Num | Serial Number (if applicable): N/A | | | | |
| Unit Letter | Section | Township | Range | Coun | ty | | | | |
| N | 16 | 28N | 5W | San J | uan | | | | |
| Surface Owne | | | Nature and | Volume of I | Release | | | | |
| Crude Oil | | Volume Release | | calculations of specific | tions or specific justification for the volumes provided below) Volume Recovered (bbls) | | | | |
| Produced | Water | Volume Release | d (bbls) | | Volume Recovered (bbls) | | | | |
| | | produced water | | | Yes N | | | | |
| Condensa | | | d (bbls): Estimat | | | overed (bbls): None | | | |
| Natural G | ias | Volume Release | d (Mcf): 2.45 MC | F | Volume Recovered (Mcf): None | | | | |

Cause of On April 20, 2023, Enterprise had a release of natural gas and natural gas liquids from the San Juan 28-5 #14 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 10, 2023, at which time Enterprise determined the release reportable per NMOCD regulation, due to the volume of impacted subsurface soil. Repairs and remediation were completed on August 9, 2023. The final excavation dimensions measured approximately 20 feet long by 20 feet wide by 7.5 feet deep. A total of 292 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.

Volume/Weight Released (provide units):

Other (describe)

Page 2 of 181

| 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 NMA | C |
|---|---|
| Photographs of the remediated site prior to backfill or photos of the limust be notified 2 days prior to liner inspection) | iner integrity if applicable (Note: appropriate OCD District office |
| ☐ Laboratory analyses of final sampling (Note: appropriate ODC Distric | t office must be notified 2 days prior to final sampling) |
| Description of remediation activities | |
| | |
| I hereby certify that the information given above is true and complete to the and regulations all operators are required to report and/or file certain release may endanger public health or the environment. The acceptance of a C-141 should their operations have failed to adequately investigate and remediate human health or the environment. In addition, OCD acceptance of a C-141 compliance with any other federal, state, or local laws and/or regulations. Trestore, reclaim, and re-vegetate the impacted surface area to the conditions accordance with 19.15.29.13 NMAC including notification to the OCD who Printed Name: Thomas Long Title: See | e notifications and perform corrective actions for releases which report by the OCD does not relieve the operator of liability contamination that pose a threat to groundwater, surface water, report does not relieve the operator of responsibility for the responsible party acknowledges they must substantially that existed prior to the release or their final land use in |
| Printed Name: Inomas Long 11tle: Se | nior Environmental Scientist |
| Signature: | Date: <u>09-20-2023</u> |
| email: tjlong@eprod.com Telephone | (505) 599-2286 |
| | |
| OCD Only | |
| Received by: | Date: |
| Closure approval by the OCD does not relieve the responsible party of liabil remediate contamination that poses a threat to groundwater, surface water, he party of compliance with any other federal, state, or local laws and/or regular | uman health, or the environment nor does not relieve the responsible |
| Closure Approved by: Nelson Velez | Date: 01/19/2024 |
| Printed Name: Nelson Velez | Title:Environmental Specialist – Adv |
| _ | |



CLOSURE REPORT

Property:

San Juan 28-5 #14 (07/10/23) Unit Letter N, S16 T28N R5W Rio Arriba County, New Mexico

New Mexico EMNRD OCD Incident ID No. NAPP231923355 & NAPP2320628649

September 18, 2023

Ensolum Project No. 05A1226239

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 28-5 #14 (07/10/23) (Site) |
| NM EMNRD OCD Incident ID No. | NAPP2319233055 & NAPP2320628649 |
| Location: | 36.65679° North, 107.36471° West Unit Letter N, Section 16, Township 28 North, Range 5 West Rio Arriba County, New Mexico |
| Property: | Private |
| Regulatory: | New Mexico (NM) Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD) |

On April 20, 2023, a release of natural gas from the San Juan 28-5 #14 pipeline was identified by a third party. Enterprise verified the release and subsequently isolated and locked the pipeline out of service. On July 10, 2023, Enterprise initiated activities to repair the pipeline and remediate petroleum hydrocarbon impact. In addition, Enterprise determined the release was "reportable" due to the estimated volume of impacted soil. The NM EMNRD OCD was subsequently notified. On July 24, 2023, during the excavation of petroleum hydrocarbon-affected sandstone, a small flash fire occurred in the excavation. The fire was immediately extinguished by Site personnel with no injuries or property damage. Enterprise subsequently reported the fire incident to the NM EMNRD OCD.

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

1.2 Project Objective

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

2.0 CLOSURE CRITERIA

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

 The NM Office of the State Engineer (OSE) tracks the usage and assignment of water rights and water well installations and records this information in the Water Rights Reporting System (WRRS) database. Water wells and other points of diversion (PODs) are each assigned POD numbers in the database (which is searchable and includes an interactive map). No PODs were identified in the same Public Land Survey System (PLSS) section as the Site or in the adjacent sections (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 0.25 miles from the Site. Documentation for the cathodic protection well located near the San Juan 28-5 Unit #6 and #83 well locations indicates a depth to water between 85 feet and 94 feet below grade surface (bgs). This cathodic protection well is located approximately 0.20 miles northwest of the Site and is approximately 63 feet higher in elevation than the Site. Documentation for the cathodic protection well located near the San Juan 28-5 Unit #84E well location indicates a depth to water of approximately 70 feet bgs. This cathodic protection well is located approximately 0.24 miles east of the Site and is approximately 3 feet lower in elevation than the Site.
- The Site is located within 300 feet of a NM EMNRD OCD-defined continuously flowing watercourse or significant watercourse (Figure C, Appendix B).
- The Site is not located within 200 feet of a lakebed, sinkhole, or playa lake.
- The Site is not located within 300 feet of a permanent residence, school, hospital, institution, or church (Figure D, Appendix B).
- No springs, or private domestic freshwater wells used by less than five households for domestic or stock watering purposes were identified within 500 feet of the Site, but the high water mark for a stock pond is located approximately 500 feet from 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 within a 100-year
 floodplain (Figure H, Appendix B).

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



| Tier I Closure Criteria for Soils Impacted by a Release | | | | | | | |
|---|--------------------------------|-----------|--|--|--|--|--|
| Constituent ¹ | 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 10, 2023, Enterprise initiated activities to repair the pipeline and remediate petroleum hydrocarbon impact resulting from the release. During the remediation and corrective action activities, OFT Construction Inc, provided heavy equipment and labor support, while Ensolum provided environmental consulting support. Because two additional pipelines were present in the vicinity of the release, a significant amount of the impacted soil was removed by hydro-excavation.

The final excavation measured approximately 20 feet long and 20 feet wide at the maximum extents. The maximum depth of the excavation measured approximately 7.5 feet bgs. The lithology encountered during the completion of remediation activities consisted primarily of silty sand and silty clay underlain by sandstone.

Approximately 292 cubic yards (yd³) of petroleum hydrocarbon-affected soil and 545 barrels (bbls) of hydro-excavation soil cuttings and water were transported to the Envirotech, Inc., (Envirotech) landfarm near Hilltop, NM for disposal/remediation. The executed C-138 solid waste acceptance forms are provided in **Appendix C**. The excavation was backfilled with imported fill and then contoured to the surrounding topography.

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

4.0 SOIL SAMPLING PROGRAM

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

Ensolum's soil sampling program included the collection of seven composite soil samples (S-1 through S-5, S-1a, and S-5a) from the excavation for laboratory analysis. The composite samples were comprised of five aliquots each. 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 17, 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 (7') was collected from the floor of the excavation. Composite soil samples S-2 (0' to 7'), S-3 (0' to 7'), S-4 (0' to 7'), and S-5 (0' to 7') were collected from the walls of the excavation.



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

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

Subsequent soil analytical results identified total BTEX and TPH concentrations that exceeded the NM EMNRD OCD closure criteria for composite soil samples S-1 and S-5.

Second Sampling Event

In response to the exceedances of composite samples S-1 and S-5 during the first sampling event, the impacted soils were removed by excavation and transported to the landfarm for disposal/remediation. 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-1a (7.5') was collected from the floor of the excavation.

Third Sampling Event

On August 9, 2023, a third 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-5a (0' to 7.5') was collected from a wall of the excavation.

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

5.0 SOIL LABORATORY ANALYTICAL METHODS

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

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

6.0 SOIL DATA EVALUATION

Ensolum compared the benzene, BTEX, TPH, and chloride laboratory analytical results or laboratory practical quantitation limits (PQLs) / reporting limits (RLs) associated with the composite soil samples (S-1a, S-2 through S-4, and S-5a) to the applicable NM EMNRD OCD closure criteria. The soils associated with composite soil samples S-1 and S-5 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 all 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 all composite soil samples 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 all composite soil samples associated with soil remaining at the Site indicate combined TPH GRO/DRO/MRO is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the New Mexico EMNRD OCD closure criteria of 100 mg/kg.



 The laboratory analytical result for composite soil sample S-4 indicates a chloride concentration of 94 mg/kg, which is less than the New Mexico EMNRD OCD closure criteria of 600 mg/kg. The laboratory analytical results for all other 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.

7.0 RECLAMATION AND REVEGETATION

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

8.0 FINDINGS AND RECOMMENDATION

- Seven composite soil samples were collected from the Site. Based on laboratory analytical results, no benzene, BTEX, chloride, or total combined TPH GRO/DRO/MRO exceedances were identified in the soils remaining at the Site.
- Approximately 292 yd³ of petroleum hydrocarbon-affected soil and 545 bbls of hydroexcavation soil cuttings and water were transported to the Envirotech landfarm for disposal/remediation. The excavation was backfilled with imported fill and then contoured to the surrounding topography.
- The flash fire that occurred during the sandstone excavation was extiguised by Site personnel without further incident.

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.



Closure Report Enterprise Field Services, LLC San Juan 28-5 #14 (07/10/23)

Page 6

9.3 Reliance

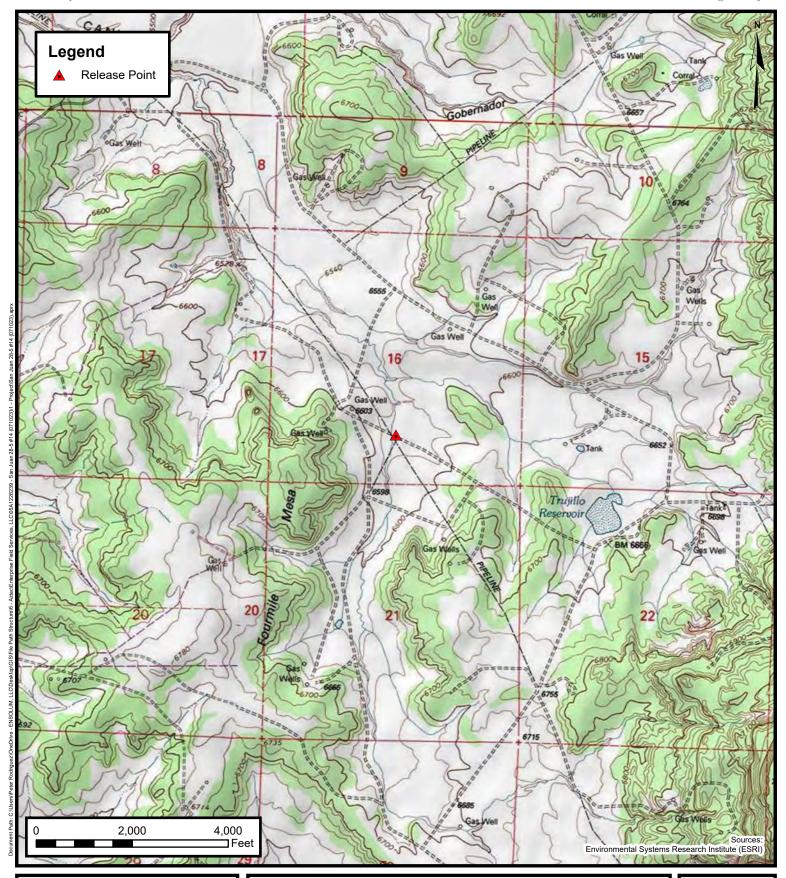
This report has been prepared for the exclusive use of Enterprise, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Site) is prohibited without the express written authorization of Enterprise and Ensolum. Any unauthorized distribution 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 28-5 #14 (07/10/23) Project Number: 05A1226239

Unit Letter N, S16 T28N R5W, Rio Arriba County, New Mexico 36.65679, -107.36471

FIGURE

1





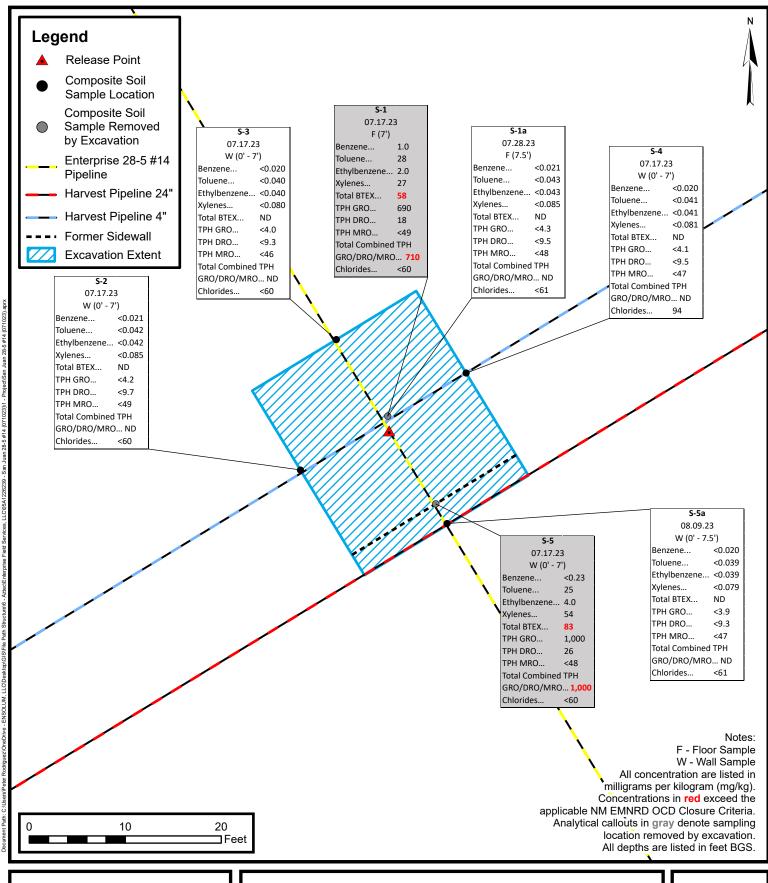
Site Vicinity Map

Enterprise Field Services, LLC San Juan 28-5 #14 (07/10/23) Project Number: 05A1226239

Unit Letter N, S16 T28N R5W, Rio Arriba County, New Mexico 36.65679, -107.36471

FIGURE 2

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Site Map with Soil Analytical Results

Enterprise Field Services, LLC San Juan 28-5 #14 (07/10/23) Project Number: 05A1226239

Unit Letter N, S16 T28N R5W, Rio Arriba County, New Mexico 36.65679, -107.36471

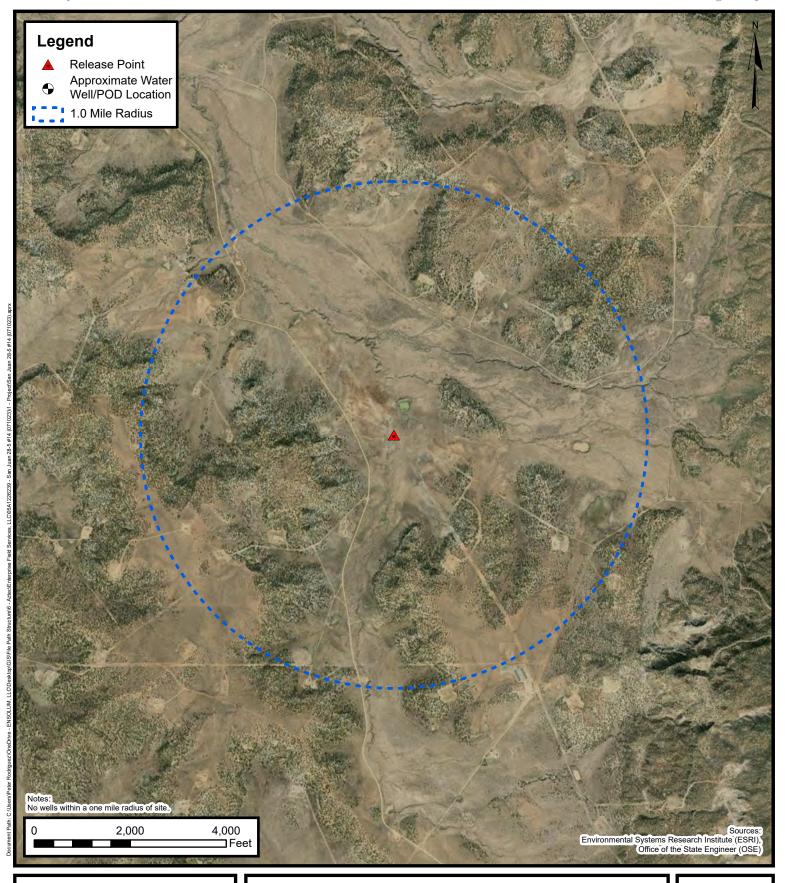
FIGURE 2

Released to Imaging: 1/19/2024 7:30:45 AM



APPENDIX B

Siting Figures and Documentation





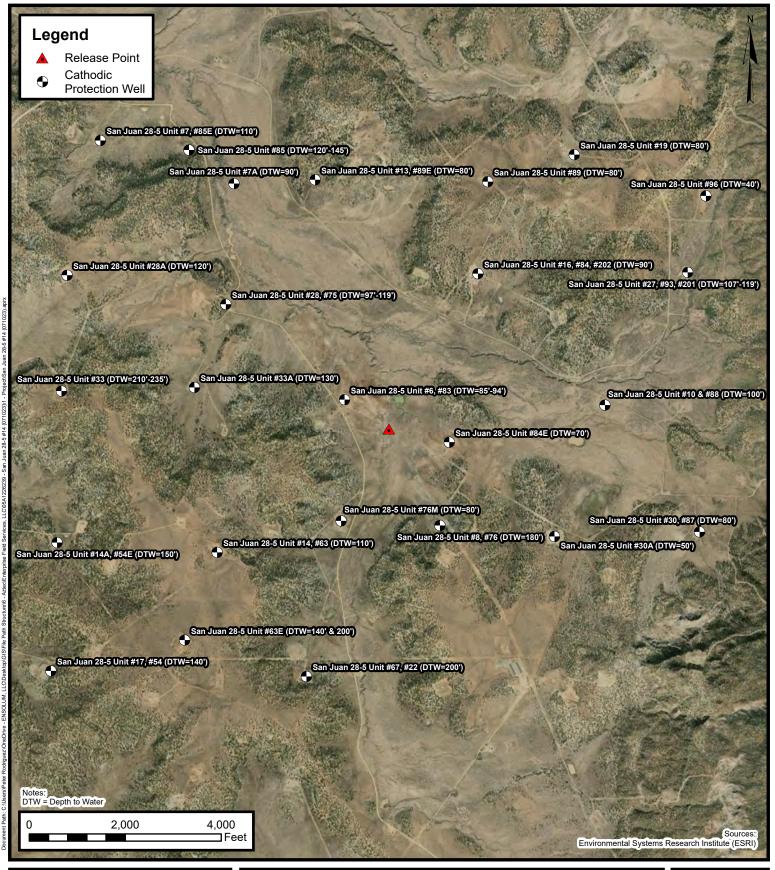
1.0 Mile Radius Water Well/POD Location Map

Enterprise Field Services, LLC San Juan 28-5 #14 (07/10/23) Project Number: 05A1226239

Unit Letter N, S16 T28N R5W, Rio Arriba County, New Mexico 36.65679, -107.36471

FIGURE

Α





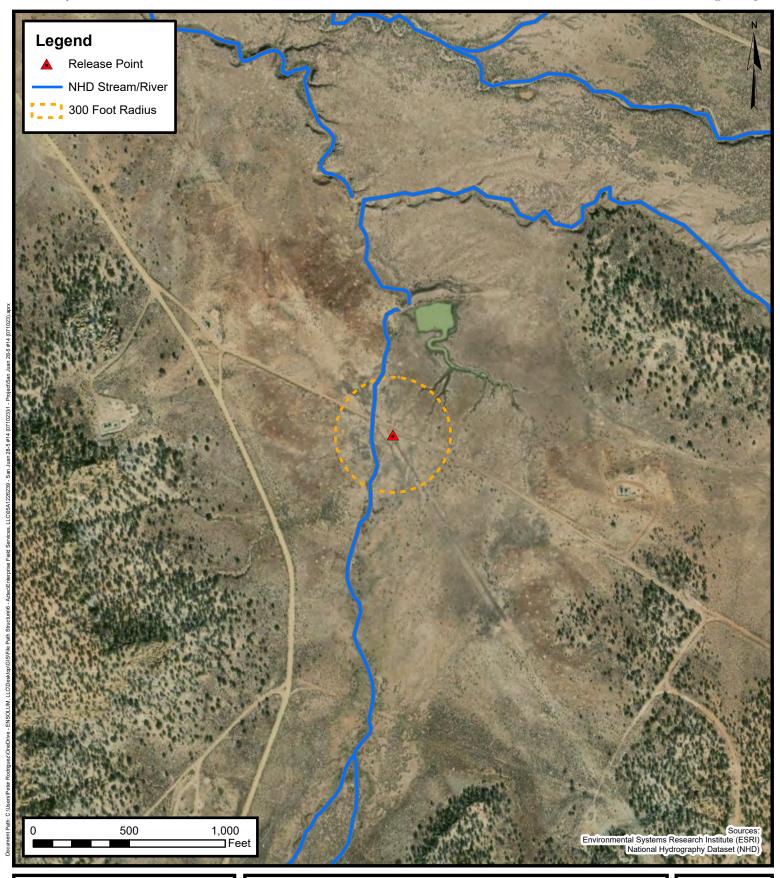
Cathodic Protection Well Recorded Depth to Water

Enterprise Field Services, LLC San Juan 28-5 #14 (07/10/23) Project Number: 05A1226239

Unit Letter N, S16 T28N R5W, Rio Arriba County, New Mexico 36.65679, -107.36471

FIGURE

В



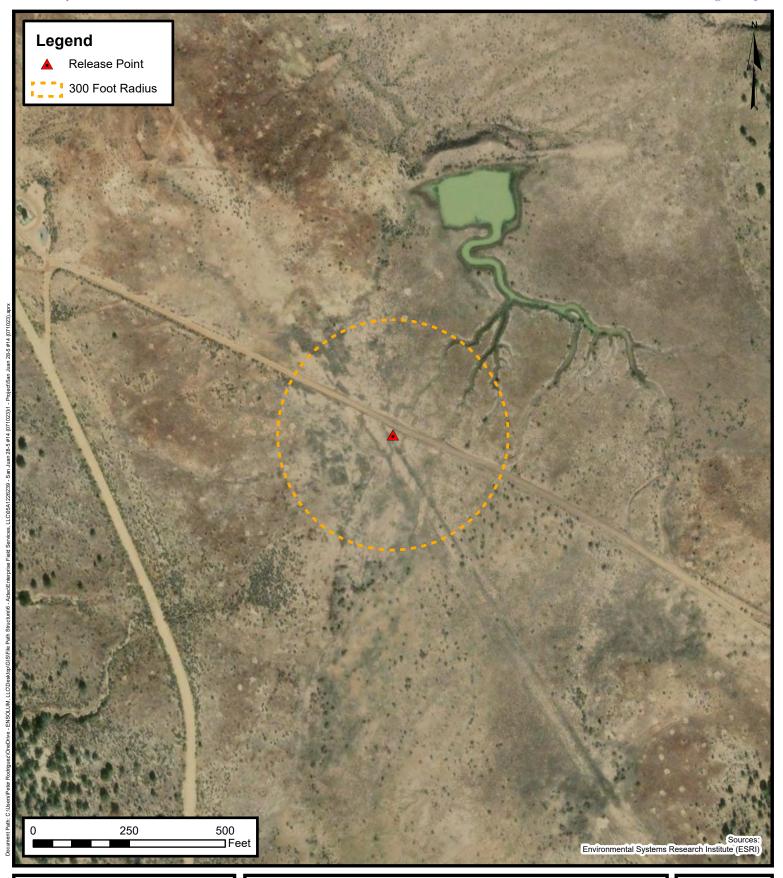


300 Foot Radius Watercourse and Drainage Identification

Enterprise Field Services, LLC San Juan 28-5 #14 (07/10/23) Project Number: 05A1226239

Unit Letter N, S16 T28N R5W, Rio Arriba County, New Mexico 36.65679, -107.36471

FIGURE





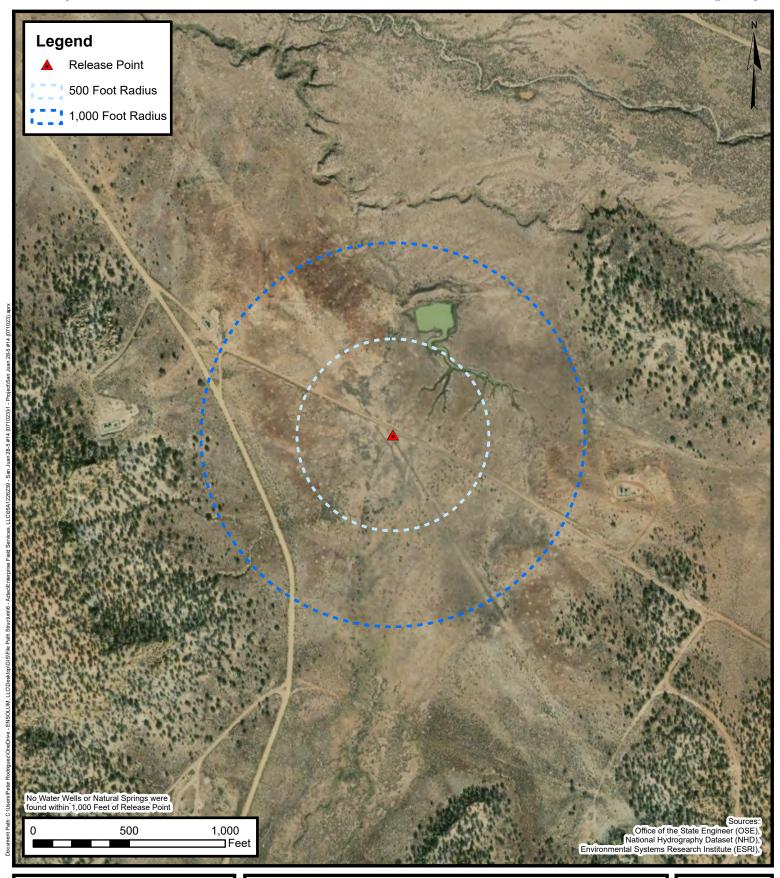
300 Foot Radius Occupied Structure Identification

Enterprise Field Services, LLC San Juan 28-5 #14 (07/10/23) Project Number: 05A1226239

Unit Letter N, S16 T28N R5W, Rio Arriba County, New Mexico 36.65679, -107.36471

FIGURE

D



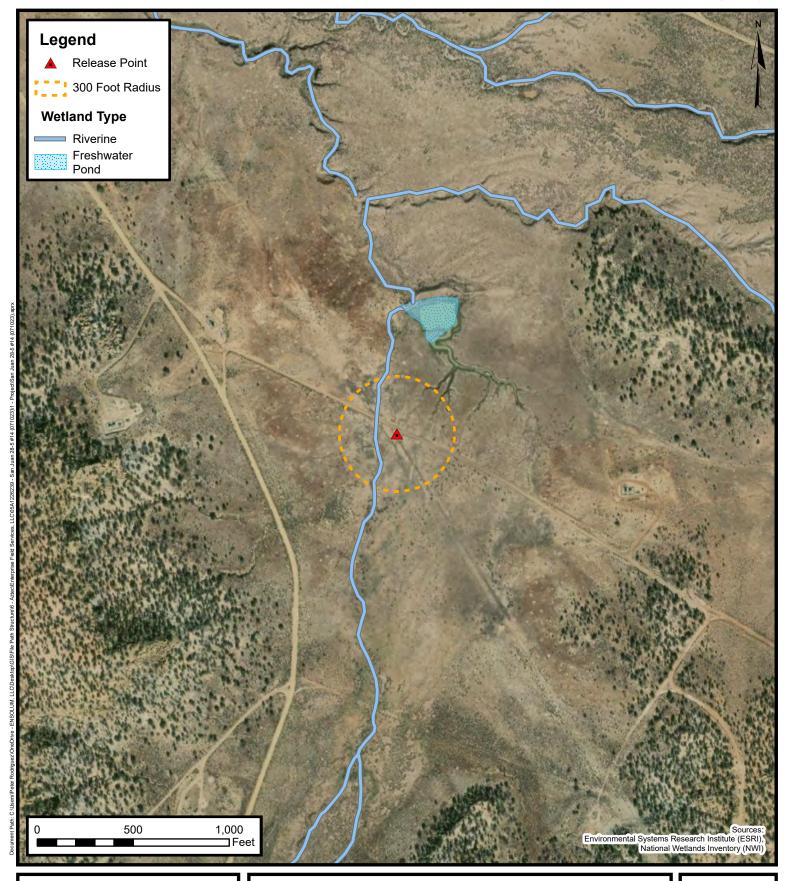


Water Well and Natural Spring Location

Enterprise Field Services, LLC San Juan 28-5 #14 (07/10/23) Project Number: 05A1226239

Unit Letter N, S16 T28N R5W, Rio Arriba County, New Mexico 36.65679, -107.36471

FIGURE





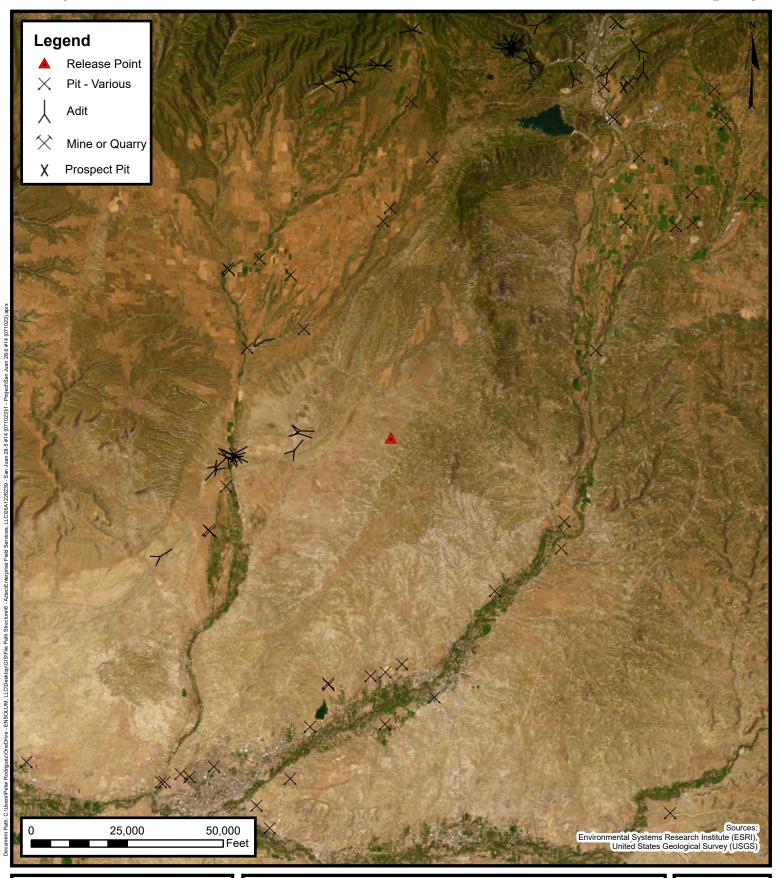
Wetlands

Enterprise Field Services, LLC San Juan 28-5 #14 (07/10/23) Project Number: 05A1226239

Unit Letter N, S16 T28N R5W, Rio Arriba County, New Mexico 36.65679, -107.36471

FIGURE

F





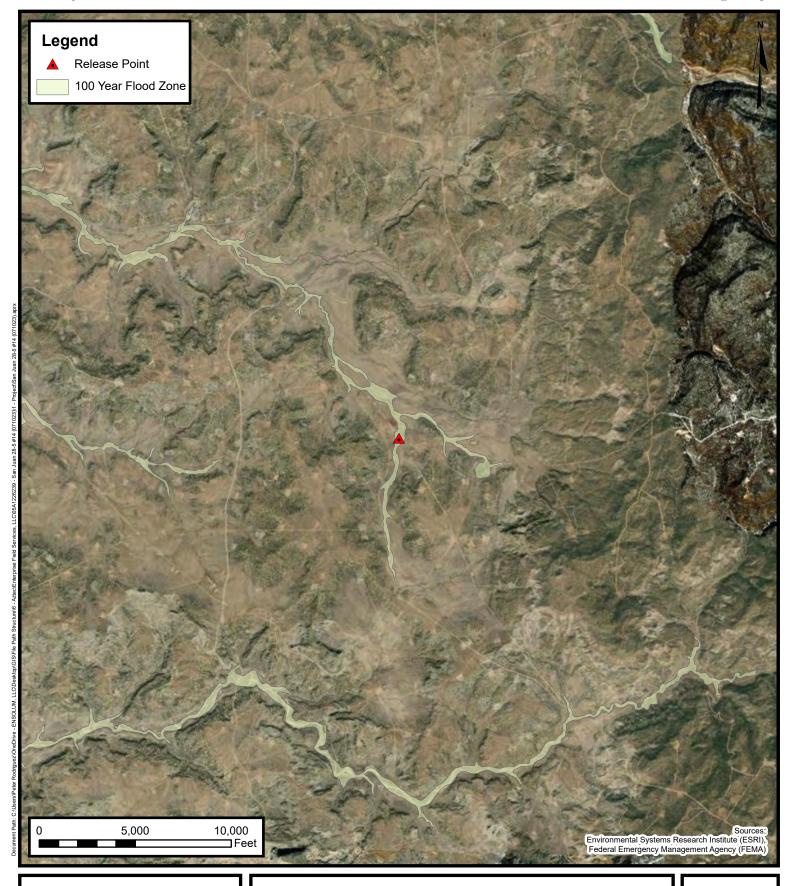
Mines, Mills, and Quarries

Enterprise Field Services, LLC J.E. Decker #2 (07/20/23) Project Number: 05A1226252

Unit Letter K, S12 T32N R12W, San Juan County, New Mexico 36.99671, -108.049583

FIGURE

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100-Year Flood Plain Map

Enterprise Field Services, LLC San Juan 28-5 #14 (07/10/23) Project Number: 05A1226239

Unit Letter N, S16 T28N R5W, Rio Arriba County, New Mexico 36.65679, -107.36471

FIGURE

Н



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

No records found.

PLSS Search:

Section(s): 16, 8, 9, 10, 15, **Township:** 28N **Range:** 05W

17, 20, 21, 22

Received by OCD: 9/20/2013 12:25:173M - 039 - 07416 920 #83 30 - 039 - 20242

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

Location: Unit $^{
m SW}$ Sec. $^{
m 16}$ Twp $^{
m 28}$ Rng $^{
m 5}$ Operator MERIDIAN OIL Name of Well/Wells or Pipeline Serviced SAN JUAN 28-5 UNIT #6, #83 cps 1118w Elevation6641' Completion Date 9/12/77 Total Depth 400' Land Type* N/A Casing, Sizes, Types & Depths N/A If Casing is cemented, show amounts & types used N/A If Cement or Bentonite Plugs have been placed, show depths & amounts used Depths & thickness of water zones with description of water when possible: Fresh, Clear, Salty, Sulphur, Etc. 85' - 94', 110' - 118', 180' Depths gas encountered: N/A Type & amount of coke breeze used: 43 SACKS N', 200' Depths anodes placed: 360', 350', 340', 330', 285', 275', 265' Depths vent pipes placed: 365' OF 1" PVC VENT_PIRE (Vent pipe perforations: 240' Remarks: __gb #1

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

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

WELL CASING

CATHODIC PROTECTION CONSTRUCTION REPORT DAILY LOG

Drilling Log (Attach Hereto).

Form 7-238 (Rev. 11-71)

Completion Date <u>9-12-77</u> *

| Well Name | TUAN 28- | 5 NWi+ 6 | | SW 16 - 28 | 7-5 | | | 18W | |
|-------------------------------|-------------------|------------------|----------------|------------------------|----------------|-------------------|----------------|--|------------------|
| Type & Siz | e Bit Used 6 | 3/4 | | | | | Work Orde | ^{r No} 46 : 52 4 83 : 54 | 521.19 702.19 |
| 4 | Depth 400 | Total Drilling R | ıg Tıme ' | Total Lbs. Coke Us 43 | sed Lost Circ | culation Mat'i Us | | | |
| Anode Dep | h | # 3 340 | # 4 330 | # 5 285 | # 6 275 | # 7 265 | # 8 220 | ≈ 9 2/0 . | # 10 200 |
| Anode Outr # 1 3. 0 | 1 | # 3 3.5 | # 4 3.4 | | #6 4.1 | | * 8 4.2 | # 9 5. / | # 10 4.6 |
| Anode Dep # 11 | # 12 | # 13 | # 14 | ; ≉ 15 | # 16 | # 17 | # 18 | # 19 | # 20 |
| Anode Outr | ut (Amps) # 12 | # 13 | ; ; 14 | # 15 | # 16 | # 17 | ‡ 18 | ! !# 19 | # 20 |
| Total Circu | nit Resistance | mps 16.4 | Ohms | 0.68 | No. 8 C.P. Cal | ole Used | | No. 2 C.P. C | able Used |

Remarks: StAtic *6 600'SW=0.73, StAtic #83 600'SE - 0.81. DRillen SAI'D MAKING WATER BETWEEN 85' \$ 94'. MAKING MORE WATER BETWEEN 110'\$ 118 DRilled to 120. Next AM WATER STANDING @190: STARTED INJ. @ 120. PERSERATE 240 of 1" Puc vent Pipe. Installed 365' of 1" Puc vent Pipe. Sluppyed 43 SACKS OF COKE. #83 MARKED I NOTCH #6 MARKED 3 NOTCHES INSTAlled GOV 30A RectifiER. MAKING MARC WATER @ 180

All Construction Completed GROUND BED LAPOUT SKETCH 458 4" Flow Line

DISTRIBUTION:

WHITE - Division Corrosion Office

YELLOW - Area Corrosion-Office

Originator File

| P | Page 27 of 181 |
|--------|----------------|
| Sheet: | of |
| Date: | |
| By: | |
| File: | 77. 3 |

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|---|----------------------|--|--|--|--|----------|
| - ** ± ₀ } | SAN JUAN S | 28-5" NN, 4 # 6 | 6, 41/ 60/ - | | 52521.19 | |
| | SAN JUAN ; | 28-5 NN; + # 83 | SW16-28-5 | 1118W | 54702.19 | |
| MW gais/moi 16.04 C ₁ 6.4 | Static #83 | 600' SW = 0.73 600' SE = 0.81 | | Between 85 Between 110's Next AM M | MAKINS WAYER. 1941 MORE WAYER 186. DRIVED to 1851 LER STANDING B 96" | |
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| 44.10 C3 10.42 58.12 iC4 12.38 58.12 nC4 11.93 72.15 iC5 13.85 72.15 nC5 13.71 86.18 iC6 15.50 86.18 C6 15.50 | | | | Inctalled 3 | 240 051"PUCVENT 65" 051"PUCVENT 13 SAUKES 0500 | 191,00 |
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Form 22-2 (Rev. 1-61)

EL PASO NATURAL GAS COMPANY

DAILY DRILLING REPORT

| | | | | WELL 115 | 1110 | . 7 | | <u>. ().</u> | |). AA | · ^ | 516 | | | | | | | | | |
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Received by OCD: 9/20/2023 17/25/17PM 30-039-07439 # 84 30-039-20360 # 202 30-039-24517

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

| Operator_ | MERIDIAN OIL | Locatio | on: Unit NE Sec 16 | Twp 28 Rng 5 |
|--------------------|-------------------------|------------------|--------------------|----------------|
| Name of We | ell/Wells or Pipeline | ServicedS | SAN JUAN 28-5 UNIT | #16, #84, #202 |
| | | | cp | os 1119w |
| Elevation <u>6</u> | 582' Completion Date_ | 9/28/77 Total | Depth 320' Lan | nd Type* N/A |
| Casing, Si | zes, Types & Depths_ | 1 | 1/A | |
| If Casing | is cemented, show am | ounts & types | usedN/A | |
| | or Bentonite Plugs h | ave been place | ed, show depths | & amounts used |
| | chickness of water zo | | • | when possible: |
| Depths gas | encountered: | N/A | | |
| Type & amo | ount of coke breeze u | sed: | 40 SACKS | |
| | des placed: 275', 260', | | | |
| Depths ven | t pipes placed: | 280' OF 1" PVC V | ENT PIPE ECE | A & M |
| | perforations: | | 181 | 4 1991 |
| Remarks: | gb #1. | | ON CO | ON' B |
| | | | On ' D | ist. 3 |

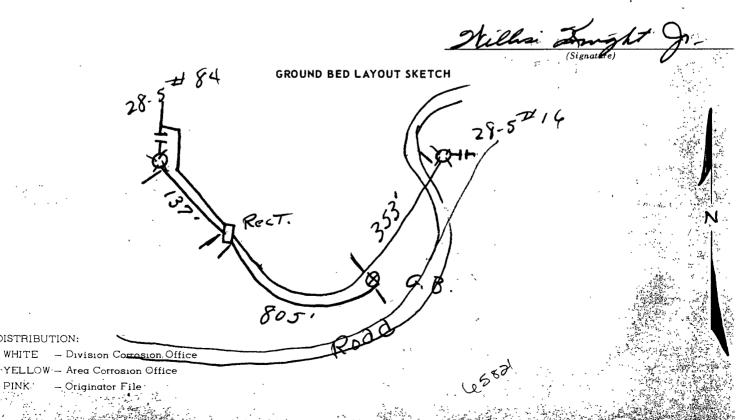
If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included.

^{*}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 REPORT DAILY LOG

Completion Date 9-28-7 Drilling Log (Attach Hereto). Well Name CPS No. NE16-28-5 1119 W. JOHN JUZN Work Order No. 53264.19-50-20 Type & Size Bit Used 184- 54811.19-50-20 Anode Hole Depth 320 Total Drilling Rig Time Lost Circulation Mat'l Used 1099ed 309 40 Sacks Anode Depth <u>| 260</u> | # 3 225 | # 4 215 | # 5 205 | # 6 185 | # 7 175 | # 8 150 | # 9 135 | # 10 125 #1 **275** Anode Output (Amps) # 3 **2.** 9 # 4 3.6 # 5 3.8 # 6 4.4 #-7- **3. 2** lz 8 3.1 # 9 4.1 # 10 3.3 Anode Depth !# 17 # 15 # 16 Anode Output (Amps) # 12 # 13 # 15 No. 8 C.P. Cable Used .87 14.2 Ohms Amps 28.5 84 600'NE = 75 600 NW= 74 Said WaTER aT INSTAlled 280' of 1" VENT Pipe, PERFORATED 200' OF VENT Pipe 10 GRAPHITE ANODES Slurryed 40 Sacks COKe 60 V 30 A Rect 1 NOTCh = 28.5#84 vorches = 28-5 STUB Pole

All Construction Completed



DISTRIBUTION:

PINK.

Page 31 of 181

OF COKE

Water BAT 90'

SAN JUAN 28.5# 8U W/0 184-54811.19-50-20

NE16 28 5 CPS-1119 W

| MW | ga | ls/mol |
|--------|-----------------|--------|
| 16.04 | C1 | 6.4 |
| 30.07 | C ₂ | 10 12 |
| 44.10 | Сз | 10.42 |
| 58.12 | iC4 | 12.38 |
| 58.12 | nC4 | 11 93 |
| 72.15 | iC5 | 13.85 |
| 72.15 | nC5 | 13.71 |
| 86.18 | iC6 | 15.50 |
| 86.18 | C ₆ | 15.57 |
| 100.21 | iC7 | 17.2 |
| 100.21 | C7 | 17.46 |
| 114.23 | C ₈ | 19.39 |
| 28.05 | C2 [:] | 9.64 |
| 42 08 | C3 ² | 9 67 |

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DAILY DRILLING REPORT

| LEASE | | | WELL NO. | 1119 4 | V CON | TRACTOR | Tosey i | 201 | ling Go. | RIG NO. | | REP | ORT NO | | DATE SEPT | <u> 28</u> | 197 |
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| FROM | т | 0 | FORMATION | WT-BIT | R.P.M. | FROM | то | - | FORMATION | WT-BIT | R.P.M. | FROM | | ro | FORMATION | WT-BIT | R.P.M |
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| Time | Wt. | Vis. | | | | Time | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | s. | | | | Time | Wt. | V ₁ s. | | | ** |
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| ر . ا | 60 | | NOY SHALE | | | 160 | | | DO WET | <u> </u> | | 280 | 300 | | | | |
| 60 | 80 | 5H1 | 9LE | | | 180 | 200 | SAI | NOY SHALE | | | 300 | 320 | 13 A | NOY SHALE | | |
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30-039-23836

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

| Operator_ | MERIDIAN OIL | Location: Unit 0 Sec. 16 Twp28 Rng 5 |
|--------------------|---------------------|---|
| Name of We | ell/Wells or Pipel | line Serviced SAN JUAN 28-5 UNIT #84E |
| | | cps 1889w |
| Elevation <u>6</u> | 5575' Completion Da | ate 6/22/87 Total Depth 400' Land Type* N/A |
| Casing, Si | zes, Types & Dept | thsN/A |
| If Casing | is cemented, show | w amounts & types usedN/A |
| | or Bentonite Plug | gs have been placed, show depths & amounts used |
| _ | | ur, Etc. 70' SAMPLE THE FORM FOR SAMPLE THE |
| | encountered: | N/A OIL CONSOLV. |
| Depths ano | | 360', 350', 340',325', 315', 305', 295', 270', 260', 250', |
| Vent pipe | perforations: | 32 0' |
| | | E DID NOT GET COKE AROUND THEM. #11 & #12 INSTALLED. |

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

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

Released to Emagange (1972)26-74-0245-429

| Drilling Ling (Atlanta Horato) (2) | | ONICONSTRUCTION RES | Completion: Date: | |
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HIRGRESONKOCION CYCE EMCERCIE

P.O. BOX (25%, PHONE 3246)46 AXAEC, NEW MEXICO 97210 DEEP WELL GROUNDSED LOG

BURGE CORROSION SYSTEMS, INC.

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

CPS 1889 W

| MPANY Merid | lian Oil | DAIL | Y DRILLING REPO | RT Julie 22 | .1 9 |
|-------------|-----------|----------------|-----------------|-------------|--------------|
| WELL NAME: | | WELL NUMBER: | SECTION: | TOWNSHIP: | RANGE: |
| San Juan 28 | 3–5 | #84E | 16 | 28 | 5 |
| | WATER AT: | FEET: | HOLE MADE: | | |
| | 70¹· | | 400' TD | 384 | |
| | | DESCRIPTION OF | | | |
| FROM | ТО | | FORMATION I | S | COLOR |
| 0 | 60 | shale/clay | | | |
| 60 | 70 | sand-water | | | |
| 70 | 140 | shale | | | |
| 140 | 160 | sand | | | |
| 160 | 260 | shale | | | |
| 260 | 300 | sanle/sand | | | |
| 300 | 400 | shale stream | mers-sand | | |
| | | | | | |
| | | | 70.00 | | |
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| | | | | 497 | |
| | <u> </u> | | | | |
| REMARKS: | | | | | |
| | | | | | |
| Briand | . Burya | Driller | | | Tool Dresser |
| | - July | Dringt | | | |

Sample had a considerable amount d'a difficulté filtarible suspended clay.

| | • | | | | | | | | |
|---|---|--------------------------|---|--------------|---|--|--|----------------------|--------------------------------|
| REMARKS & RECOM | Iron, Fe (total) Sulfide, as H ₁ S | Total Dissolved Solids (| ANIONS Chloride, Cl Sulfate, SO ₄ Carbonate, CO ₃ Bicarbonate, HCO ₃ | Barium, Ba | DISSOLVED SOLIDS CATIONS Sodium, Na (calc.) Calcium, Ca | Type of Water (Produced, Supply, etc.) | Lease or Unit | Eveld Merchan | ess (1884W) |
| RECOMMENDATIONS: | 00 | (calc.) 610 | 27.7 47.300 | | mg/l | uced, Supply, etc.) | Well 28-5 | ou C | ABW |
| • · · · · · · · · · · · · · · · · · · · | | | | | me)1 | Sampling Point | 1/響: | D. Legal Description | API WATER ANALYSIS REPORT FORM |
| 10000 | P | C 2 7 | C. No. 20 | WA | pH Specific Gr Resistivity | G. B. | Depth 70 | | SREPORT |
| 104 | | | 5 | TER PAT | pH Specific Gravity 60/60 F. 14 Resistivity (dim-meters) 14 | G.B. | Formulion Danotz | Sample No. | T FORM |
| 10 | F \$ | | 0 | TERNS — me/l | | Zampi | Water, B/D | Parish States | |
| 1000 | Co. | Trillin 1003 | | | 8.85 1.3×10 | Evans | D/D | | 19 1 F 20 |
| | : | | | 8 | | 9.0(5)k | The state of the s | t diskal Original | |

Received by OCD: 9/20/2023 12:25:17 PM 30-059-07-(65

Page 38 of 181

#-8S E -30-039-23834

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

| Operator MERIDIAN OIL | Location: Unit SW Sec. 8 Twp28 Rng 5 |
|---|--|
| Name of Well/Wells or Pipeline Servi | .ced SAN JUAN 28-5 UNIT #7, #85E |
| | cps 1107w_ |
| Elevation6549' Completion Date 9/7/77 | Total Depth 320' Land Type* N/A |
| Casing, Sizes, Types & Depths | N/A |
| If Casing is cemented, show amounts | & types used N/A |
| If Cement or Bentonite Plugs have be | een placed, show depths & amounts used |
| Depths & thickness of water zones wi | th description of water when possible: |
| Fresh, Clear, Salty, Sulphur, Etc | 110' |
| Depths gas encountered: N/A | |
| Type & amount of coke breeze used: | 57 SACKS |
| Depths anodes placed: 265', 255', 245', | 235', 225', 215', 160', 150', 140', 130' |
| Depths vent pipes placed: 280' OF | 1" PVC VENT PIPE |
| Vent pipe perforations: 200' | RESERVE U |
| Remarks: gb #1 | MAY 31 1991 |
| | OIL CON. DIV. |

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

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

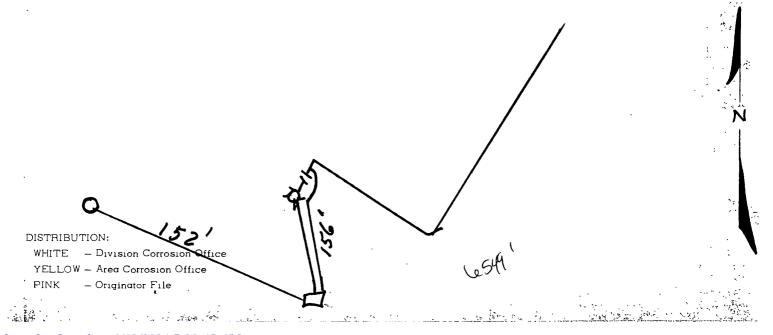
Form 7-238 (Rev. 11-71)

WELL CASING CATHODIC PROTECTION CONSTRUCTION REPORT DAILY LOG

| SAN JU | IAN 28- | | 7 5 | w 8-28- | 5 | | CPS No. | 7 W | |
|----------------------------|------------------|-------------------|-----------------|-----------------|---------------|------------------|---------------------|---------------|-------------------|
| Ype & Size | Bit Used 6 | 3/4" | | | | | | 577.19 | 7 |
| | | Total Drilling Ri | g Time To | tal Lbs. Coke U | sed Lost Cir | culation Mat'l U | | | |
| | # 2 255 | # 3 245 | # 4 235 | # 5225 | # 6215 | # 7 160 | # 8 150 | #9 140 | # 10 / 3 C |
| | # 2 3.2 | # 3 2. 9 | # 4 2.9 | # 5 2.8 | # 6 3.6 | #-7- 3.8 | # 8 4.6 | # 9 3.5 | # 10 3. 2 |
| Inode Depth | # 12 | # 13 | # 14 | # 15 | # 16 | ⇒ 17 | # 18 | # 19 | # 20 |
| node Output | (Amps) | # 13 | : # 14 | # 15 | # 16 | # 17 | # 18 | # 19 | # 20 |
| Total Circuit Volts //. | Resistance Am | ps /# | Ohms 💋 | | No. 8 C.P. Ca | | | No. 2 C.P. Co | ble Used |
| | tatic 6 | | | | | | water led 280 'e | | s vent |
| ee se | RAted2 ved57. | | | te, | | | | | |

GROUND BED LAYOUT SKETCH

2.2. Louis



| - / | Page 40 of 181 |
|--------|--|
| Sheet: | O 7 128 - 5 491 |
| Date: | 200 TO 100 TO 10 |
| By: | Mr. Care |
| File: | |

| · · · · · · · · · · · · · · · · · · · | SAN JUAN | 28-5 | Unit | #7 | Sw. | 9-28-5 | | 1107W | | 52577 | 1.19 | * · D |
|--|--|---|---------------------------------------|--|--|--|---------------------------------------|--|-------------|-------------------------------|------------|----------|
| | StAtic 600 | 15 = 0. | 75 | - 44 | | | · · · · · · · · · · · · · · · · · · · | DRiller Si DRilled to 1 | and M | Aking | water | 0110 |
| | 40 V 16 A RC | 1. | | | | | - 5 | urilled to 12 reaserate | 20 N | ex+4m | Blew & | water |
| MW gals/mol | Stub Pole | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | | | | two talled | | | | |
| 16.04 C ₁ 6.4 30.07 C ₂ 10 12 | | | | | | , | | Sluppyed | | | | |
| 44.10 C ₃ 10.42 58.12 iC ₄ 12.38 | | | | | 🖠 | · · · · · · · · · · · · · · · · · · · | | | - | | • | |
| 58.12 nC4 11.93 72.15 iC5 13.85 | | | | | | | | | | | <u> </u> | |
| 72,15 nC5 13.71 86.18 iC6 15.50 | , ! | | | | | | - · | 1 : | | *** | | + + - |
| 86.18 C ₆ 15.57 100.21 iC ₇ 17.2 | | | | | | | | | | | | |
| 100.21 C ₇ 17.46 114.23 C ₈ 19.39 | 120.5 | ·i | 80 | 3 | | ! | | | | 1 | | |
| 28.05 C2 ⁻ 9.64 42.08 C3 ⁻ 9.67 | 30 1.0 | (10) | 90 | -18 7 | | | | | | | | , |
| | 1.8 | | 70 | . 6 | | *** * **** ** *** | | and the second come with second of sides | | | | - |
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| | 2.0 | | 1 | 8 | | - | | | | even - modernoom on anaessa n | | |
| | 502.2- | (8) | 315 | ×130 | | | 1 | | + | | | 1-1-1 |
| | 601.9 | 9 | 20 | <i>.</i> | | | | | | | | |
| | 1.3 | | | | | | | | | | : ! | |
| | 70 .8 | <u> </u> | | | | | | | | | | |
| | 80 . b | | · · · · · · · · · · · · · · · · · · · | | | | | | | 1 | | |
| | | | 7 | | | | | more annual of a man as separat | | 1 1 | | 1. |
| MISC. | 90,4 | | | | | | | | | | | |
| MW gals/mol 32.00 O2 3.37 | 902:4 | | | | ~ | | | D 265 D 255 | 1.6 | | 2.5 3.2 | |
| 28.01 CO 4.19 14.01 CO ₂ 6.38 14.06 SO ₂ 5.50 | 200.4 | | | | | | | 3)245 | 2.6 | | 2.9 | |
| 4 08 H ₂ S 5.17 | 10 -8 | | | | - Section 2 | | | D 235 | 1.7 | 1 | 2.9 | . 11 |
| 28.01 N2 4 16 2.02 H2 3 38 | 1.5 - | @ | | | | | | 5235 | 1.7 | i i | 2.8 | |
| | 9016 | (5) | | | | <u> </u> | !(| 6) 215 D 160 | 1.9 | 1 | 3.6 | |
| | 301.0 | | | | The state of the s | | 5(| 8) 150 | 2.5 | , | 4.6 | |
| | 1.2 - | \mathscr{G} | | | j | | į(| D 140 | 1.9 | | 3.5 | , |
| | 401.1 | <u>.</u> | | and the second s | | , ************************************ | | D 130 | 1.7 | | 3. 2 | |
| | 501.2 | j9. : | | · · · · · · · · · · · · · · · · · · · | ' o | | | - : | | 1 | | |
| X | 1.5 | ② | | | | | | 14,0 | HMP | ا ک | | |
| - 14. Na | 601.6 | | · | , ! | | _ · <u>.</u> | | 14,0 11.6 0.83 | V0/7 | ل کی | <u> </u> | <u> </u> |
| | 70.1.0 | 0 | | MATERIAL STATES | | | - | 0.83 | OHm | · S | | |
| A STATE OF THE STA | -4 | | | | | | | | | , | | + + |
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| 記憶は不なした。と | | A . | . 8 | 1 | i i | t 1 | <u>i L</u> | <u> </u> | | 1 1 1 | <u> </u> | 1 1 |

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n í

SIGNED: Toolpusher

Form 22-2 (Rev. 1-61)

EL PASO NATURAL GAS COMPANY DRILLING DEP ARTMENT

| | | | スロダムスフロー | 100:180 | 001 | 00 00 00 00 00 00 00 00 00 00 00 00 00 | X | FROM | | Time Wt. | MUD RECORD | MAKE | TYPE | | SERI, NO. | BIT NO | | | | FROM | Culler | | LEASE | |
|-------|-------------|-----------|----------|--------------------|-------------------------|--|----------|----------------|---|----------|----------------------------------|-------------|---------------|----------|------------|-------------|------------|-----------|------|---------------|-------------------------|----------|------------------|-----------|
| | Mayer | makin | | 3 80% | \ \ \ \ | | | | | V15. | ۵ | | | | | | | | | 10 | | OW | | - |
| | 13 المحادثة | ing Water | | rd Wet (m | andstone | oille (NOT & | Sims are | TIME BREAKDOWN | | | MUD, ADDITIVES USED AND | TOTAL DEPTH | DOWN ON KELLY | SINGLES | STANDS | NO. DCSIZE | NO. DCSIZE | | | FORMATION | Total Man in Crew | MORNING | WELL NO. 1 | |
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| Taxal | Logestor | Dr. Wed | 7 | 1 2657 2 2000 2 | رف دور دور دور | | 3 | FROM | | Time | MUD RECORD | MAKE | TYPE (VC) | SIZE 6-3 | SERIAL NO. | BIT NO. | | | | FROM | Priller | | HOZ CONTRACTOR & | |
| dup | d 315 | 320 | | 2007 | 250 | 25 | 20 | 10 | - | Wt. Vis. | CORD | | B | 1/4 | | | | | | 0.1 | XXX (| OA | A FINANCE | > |
| 2 317 | 4 | O # | | hale sand | and stone | andy sk | Ada Co | TIME BREAKDOWN | | | MUD, ADDITIVES USED AND RECEIVED | TOTAL DEPTH | DOWN ON KELLY | SINGLES | STANDS | NO. DCSIZE_ | NO. DCSIZE | , / . / . | | FORMATION | Posty Total Men in Crew | YLIGHT & | р С | 1 |
| | | | | dig | • | ale | | VZ | | | ND RECEIVED | | | | | LENG. | LENG. | | A 11 | WT-BIT R.P.M. | Q) | | O RIG NO. | |
| | | | | D III MADKA | | | 2/2 | FROM | | Гъте | MUD R | MAKE | TYPE | SIZE | SERIAL NO. | BIT NO. | | | | . FROM | D ₁ | | REPO | |
| | | | | | | | | 0 01 | | WI. VIS. | RECORD | | | | | | | | | 0.1 | | | REPORT NO. | |
| | ű, | | | p. | | | ALAR | TIME BREAKDOWN | | | MUD, ADDITIVES USED AND RECEIVED | TOTAL DEPTH | DOWN ON KELLY | SINGLES | STANDS | NO. DCSIZE | NO. DCSIZE | | | FORMATION | Total Men in Crew | EVENING | DATE 4/00 | ว เ |
| | | | | | | | | | | | ND RECEIVED | | | | | LENG. | LENG. | | | WT-BIT R.P | | | J7 19 | ן יכ ג |

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30-039-20358

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

| cation: UnitSE Sec. 8 Twp 28 Rng 5 |
|--------------------------------------|
| |
| SAN JUAN 28-5 UNIT #85 |
| cps 1106w |
| otal Depth 470' Land Type* N/A |
| N/A |
| |
| ypes used N/A |
| |
| placed, show depths & amounts used |
| |
| description of water when possible: |
| 120'-145', 175'-190' |
| |
| |
| 50 SACKS |
| , 270', 260', 250', 240', 230', 220' |
| PVC VIDERELVE |
| MAY 3 1 1991 |
| OIL CON. DIV. |
| DIST. 3 |
| |

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

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

Received by OCD: 9/20/2023 127-25

CAT DIC PROTECTION CONSTRUCTION REPORT

| NOTECTION CONSTR | UCTION REPORT |
|--|--|
| DAILY LOG. | OCTION REPORT |
| Drilling Log (Attach Hereto). | |
| Log (Attach Hereto) | The state of the s |
| Well No | The state of the s |
| The state of the s | |
| SAN JUAN 28-5 UNIT # Location | Completion Date 10-12-77 |
| Type & Size Bit Used Location S. F. V. 28-5 | Date 1637 |
| 1 ype & Size Bit Used 6 3/11 85 SE 8-28-5 | CPS No. |
| 6 14 | |
| Anode Hole Depth 470 | 1106W |
| Logs of H51 Total Drilling Rig Time Total Miss | Work Order No. |
| Anodolo | 54012 10 |
| | irculation Matri Used No. Sacks No. 19 |
| | No. Sacks Mud Used |
| (Amps) | The same of the sa |
| Anode Output (Amps) #3350 #4340 #5270 #6260 | The state of the s |
| Anode Device | #7250 #8240 #9220 |
| | 149/00 |
| # 11 /50 # 12 /35 # 13 # 14 | #7-2-9 |
| June Output (Amps) # 14 | 3.0 #93.1 #10 2 |
| # 11 5.5 # 12 7 4 # 15 # 16 | # 17 |
| # 11 5.5 # 12 3.4 # 13 # 14 | # 18 |
| 11 17 14 15 | # 19 |
| Among III | # 17 |
| Ohms 82 | Op# 18 |
| Remarks: Static 600 W = 0.67 Installed Platinum An | THE TINUM! 1 20 |
| 5/ATIC 600 W 2 2 1 | AMPS / |
| Barles 1 -0.67 Full 1 | OHM C 102 |
| HORSE KORESCO COM | O Diap |
| Andes Leresco Coke Around Platinum An Provent Pipe to stalled 425' of "Provent Pipe Of Coke, Note: Platinum Anodes taped to vent Anodes Connected + 10 to 1 | DURKONS 2 PLAN |
| TVC VEST PO | ATINUM |
| Tastalled 11201 | odos. Produced 1 |
| 14 MAYOU OF PURCHER | JUNATED 220 ns. 1) |
| Li Coke, Note Phili | 00 51 |
| MININUM ANDRES IN | WARRIED 50 CA |
| ANOJES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 370 |
| Of Coke. Note: Platinum Anodes taped to vent Pig Anodes Connected In Tunction Box. Durinon And 60 V 30 A Rectifier & Stub Pole | Pe Nate |
| GOVI 3 ROX DISTANCE | ONLY Platie |
| SO A RECE TION OF THE PURINON AND | udes + 1 |
| Stub Pala | moide tweeting |
| TOPE . | AND BOX BAX |
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| | All Construction Completed |
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EL PASO NATURAL GAS COMPANY DRILLING DEPARTMENT

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|--|----------------------------------|---------------------|--|------------|-------------------------|--------------|
| Form 22-2 (Rev. 1-61) | | Ē | EL PASO NATURAL GAS COMPANY DRILLING DEPARTMENT | | | |
| 1 7 1 | |) | | | DAILY DRILLING REPORT | |
| LEASE | WELL NO. //06 CON | CONTRACTOR (| Co. RIG NO. | REPORT NO | DATE > 15 | 1977 |
| 競売・MO | MORNING | | DAYLIGHT | | EVENING | |
| Driller. | Total Man In Crew | Driller (1) b. e.t. | Total Men In Crew | Driller | Total Men In Crew | |
| FROM TO | FORMATION WT-BIT R.P.M. | FROM TO | ØRM. | FROM | TO FORMATION | T-BIT R.P.M. |
| | | | | | | - |
| | | | | | | |
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| である。 | NO. DCSIZELENG. | | NO. DC SIZE LENG. | | | |
| BIT, NO. | | BIT NO. | SI ZE | BIT NO. | | - r z |
| SERIAL NO. | STANDS | SERIAL NO. | STANDS | SERIAL NO. | 2 | רחמכי |
| SIZE | SINGLES | SIZE T | SINGLES | SIZE | SINGLES | |
| TYPE | DOWN ON KELLY | TYPE , | DOWN ON KELLY | TYPE | DOWN ON KELLY | |
| MAXE | TOTAL DEPTH | MAKE 1 | TOTAL DEPTH | MAKE | TOTAL DEPTH | |
| MUD RECORD | MUD, ADDITIVES USED AND RECEIVED | MUD RECORD | MUD, ADDITIVES USED AND RECEIVED | MUD RECORD | MUD, ADDITIVES USED AND | RECEIVED |
| Time Wt. Vis. | | Time Wi. V | Vis. | Time Wt. | | |
| | | | | | | |
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| 35 | , | | | | | - |
| | | | | | | |
| FROM TO . | TIME BREAKDOWN | FROM TO | TIME BREAKDOWN | FROM TO | TIME BREAKDOWN | |
| Οω | whase | 175 190 | Sand Wat my | 355 380 | 200 L. S. C. | |
| 3 15 2 | ole . | 190 250 | Shale | 380 415 | Qid oskali | |
| 15 50 Se | and Stone | 250 270 | Sandy shalo | 58H SIH | Sandatana | |
| 50 130 Sp | hale | 270 305 | Shale & | 12th 8th | 2000 | |
| 20 145 50 | a with-mw | 305 335 | Sandy Shall | 3777 18h | Sandy Shall | |
| 45 175 S | hale | 335 355 | Shalk | 440 470 | 36018 | |
| MEMARKS | | REMARKS - | | REMARKS - | | |
| | | الهمالك | 470 H | | | |
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SIGNED: Toolpusher _

Company Supervisor

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1164 #7A

30-039-23845

Page 46 of 181

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 P Sec. 8 Twp28 Rng 5 |
|--|
| Name of Well/Wells or Pipeline Serviced SAN JUAN 28-5 UNIT #7A |
| cps 1881w |
| Elevation6507' Completion Date 7/28/87 Total Depth 280' Land Type* N/A |
| Casing, Sizes, Types & Depths 80' OF 7" PVC CASING |
| If Casing is cemented, show amounts & types used N/A |
| If Cement or Bentonite Plugs have been placed, show depths & amounts used N/A |
| Depths & thickness of water zones with description of water when possible: Fresh, Clear, Salty, Sulphur, Etc. 90' |
| Depths gas encountered: N/A |
| Type & amount of coke breeze used: N/A |
| Depths anodes placed: 230', 220', 210', 200', 175', 160', 150', 140', 135', 125' |
| Depths vent pipes placed: 245' |
| Vent pipe perforations: 165' |
| Remarks: gb #1 \ MAY 3 1/1991 |
| OIL CON. DIV. |

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

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

FM-07-0238 (Rev. 19-82)

WELL CASING CATHODIC PROTECTION CONSTRUCTION REPORT DAILY LOG

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| C | | | | | ILY LOG | | | , a para de la composición de la compo La composición de la composición de la La composición de la | many of the same section of the same of |
|-------------------------------|--------------------|-----------------------|-------------------|----------------|-----------------------|-----------------|--------------|--|---|
| Drilling Log (A | ttach Hereto) | | | M. 41 | 1. 95-5 | 56001 C | omplețion D |)ate 7/28 | 1/87 |
| CPS # | Well Name | e, Line or Plant | | | Order # | Static | | Ins. Union Check | |
| 1881- | W SAN | JUAN | 28-5 # | 7-A | | • | 82 N | ∑ Good | Bad St |
| Location | | Anode Size " 2 × 6 | O Anode Typ | ».)ur 1+0. | n | Size Bit | 3/4" | | مهر در مهر در این در در این در |
| Depth Drilled 280 | Depth I | 245 ' | Drilling Rig Time | | otal Lbs Goke Used | Lost Circulatio | n Mat'l Used | No Sacks Mud I | Used - |
| # 1 230 | | # 3 210 | # 4 200 | # 5 /75 | #6 160 | # 7 150 | = 8 140 | # 9 135 | # 10/25 |
| | (Amps) # 2 3.2 | # 3 4.4 | # 4 4.8 | # 5 2.3 | # 6 3.3 | # 7 4.9 | = 8 3.9 | #93.1 | # 10 3.6 |
| Anode Depth # 11 Anode Output | # 12 | # 13 | # 14 | # 15 | # 16 | # 17 | # 18 | # 19 | # 20 |
| # 11 Total Circuit | # 12 | # 13 | # 14 | # 15 | # 16 No. 8 C.P. Co | # 17 | # 18 | # 19 No. 2 C.P. C | # 20 |
| 1 | 7./2. Amp | ps 16.5 | Ohms , | 734 | 140. 8 C.P. CC | ible Osed | | 140. 2 C.F. C | |
| Remarks: | 7/27/8 | 7 D | rilled | To 3 | 00' | RAN " | 1 ANOB | e wa | outed mo |
| | go pas | T 50' | | Redrill | ed 1/2 | 8/87 | To 28 | o' s | Se T |
| | ~1 | f 1 | PVC | CAS | SING | Logge | 1. 24 | 15' | e - Jephan |
| | 245 1 | of 1 | " P.V. | C. 1 | Perfora Tec | | / | | , , , , , , , , , , , , , , , , , , , |
| • | WATER | NAS | STAN | DINC | @ 90' | ' | No Se | 3 mple | .) |

| | | 117 - 80 | |
|---------------------------------|----------|-------------------------------|------------------|
| Rectifier Size: 40 Addn'l Depth | 0 V 16 A | 750.00 | All Construction |
| Depth Credit: | 2551 | - 1020.°° | |
| Extra Cable: | 30' | 7.50 | mel mel |
| Ditch & 1 Cable: | /55' | 7.50 V 60 45 V 305.00 V | May M Face |
| 25 'Meter Pole: | 🄀 | 305.00 | (Signati |
| 20' Meter Pole: | | GROUND BED LAYOUT SKETC | н |
| 10' Stub Pole: | | 75.40V | GB. |
| Ditch - 2 Cable | 145' | | GD. |
| Junction Box | X | 40.00V | |
| PUC CASING | 80' | 1.760.00 | |
| | | 6278.35 | 155' |

TAX 313.92

TOTAL 6592.27×

1881-W

P:O:BOX1359# PHONE:334-6141# AZTEC, NEW-MEXICO:87410# DEEP WELL-GROUNDBED LOG

Date 1:28:87

The same of the sa

BURGE CORROSION SYSTEMS, INC.

| | F.O. BOX 1337 - PROME 334-014 |
|----------|-------------------------------|
| 1// | AZTEC, NEW MEXICO 87410 |
| MERIDANC | 11 |

| COMPANY | . 28-5 | /-/t DAIL | Y DRILLING REPORT | Mon 27 | 1987 |
|--|--------------|--------------------|-------------------|---------------------------------------|---|
| WELL NAME: | | WELL NUMBER: | SECTION: | TOWNSHIP: | RANGE: |
| | | | P08 | 28 | 05 |
| . r | WATER AT: | FEET: | HOLE MADE: | , | |
| <u> 60'</u> | | | .300 | | |
| | | DESCRIPTION OF | FORMATION | | |
| FROM | то | | FORMATION IS | | COLOR ATTACK |
| 0 | 80' | saved/cle | ry -8" C | dung | \$ 50 At 16 A |
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| hemanks: - | to set co | seria 8" | to 80' | set = | South |
| Car | The state of | | | | 45-174 (35 |
| Brian | - 8. Bur | ge Driller | | | Tool Dresser |
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Received by OCD: 9/20/2023 12:25:47-PM 30-039-07-457 #89E 30-039-23857

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

| Operator MERIDIAN OIL Lo | cation: Unit SW Sec. 9 Twp 28 Rng 5 |
|--|---|
| Name of Well/Wells or Pipeline Serviced | SAN JUAN 28-5 UNIT #13, #89E |
| | cps 1108w |
| Elevation 6642' Completion Date 9/27/77 To | otal Depth 320' Land Type* N/A |
| Casing, Sizes, Types & Depths | N/A |
| If Casing is cemented, show amounts & ty | ypes usedN/A |
| If Cement or Bentonite Plugs have been p | placed, show depths & amounts used |
| Depths & thickness of water zones with of Fresh, Clear, Salty, Sulphur, Etc. | 001 |
| Depths gas encountered: N/A | |
| Type & amount of coke breeze used: | 40 SACKS |
| Depths anodes placed: 275', 265', 205', 195' | , 180', 145', 135', 125', 115', 105' |
| Depths vent pipes placed: 280' OF 1" | PVC VENT PAPER FAMILE |
| Vent pipe perforations: 200' | MANY BE WANTED TO THE PARTY OF |
| Remarks: gb #1 | WILD TOWN |
| | West 's |

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

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

CATHODIC PROTECTION CONSTRUCTION REPORT

Drilling Log (Attach Hereto).

Completion Date 9-2277

| _, | | Control of the contro | Comments of the Comment of the | | 一、一、一、一、一、一、一、一、一、一、一、一、一、一、一、一、一、一、一、 | 12 452 Sec. 17-17. 18-45. | the state with the state with | in the same is a second of the second his | La principal de la companya del la companya de la c | Carrockes. |
|-------|------------------------|--|--------------------------------|-------------------|--|---------------------------|---------------------------------------|---|--|-----------------|
| 504 | Well Name *** | I JUAN 2 | 28-5 | 3 Loca | | -28-5 | , , , , , , , , , , , , , , , , , , , | CPS No. | 11084 | |
| | Type & Size B | it Used | 3/4" | | | Į | | Work Order No. 184 - 5 | 2964.19-50 | -20 |
| | Anode Hole De | | Total Drilling Ric | Time To | tal Lbs. Coke Us 40: 5.2CA | | ulation Mat'i Used | No. Sacks Mu | d Used | er eric Sare |
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| | Anode Depth # 11 | # 12 | # 13 - Live | # 14 | # 15 | #16 | # 17-2 # | 18 | # 19 # 20 | |
| | Anode Output (| (Amps) | #/13 | #14 3 J. R | # 15 | #.16 | #17 经基本基本 | 18 | # 19 16 + 20 | |
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Remarks: DRIVER SOID HIT WOTER ST. 80

STATIC- 600 5= .72

INSTAlled 280' OF I'VENT PIPE, PERFORATED 200' OF VENT PIPE Slurryed 32 Sacks of Coke

40V 16A ROCT

All Construction Completed

Willes

(Signature)

GROUND BED LAYOUT SKETCH

Same

G.B

G.B

Rect.

28-5-7/3

DISTRIBUTION:

WHITE - Division Corrosion Office

YELLOW - Area Corrosion Office

PINK - Originator File

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Sheet: Page 52 of 181

SON JUON 28-5#13 W/0-184-5296419-50-22 Sw9-28-5 CPS 1108W

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DAILY DRILLING REPORT

| LEASE | | | WELL NO. | 11084 | J CON | TRACTO | 7 F/05 | EY J | DITLLING CO | RIG NO. | | REF | ORT NO | • | DATE 5 | ept s | 9 7 | 19 2 |
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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 SE Sec. 9 Twp 28 Rng 5 |
|---|--|
| Name of Well/Wells or Pipeline Serv | icedSAN JUAN 28-5 UNIT #89 |
| | cps 1117w |
| Elevation6690' Completion Date 9/26/77 | Total Depth 320' 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: |
| Depths gas encountered: N/A | |
| Type & amount of coke breeze used: | 33 SACKS |
| Depths anodes placed: 280', 255', 245', | 235', 225', 215', 160', 150', 140', 125' |
| Depths vent pipes placed: 288' 0 | |
| Vent pipe perforations: 200' | 1001 |
| Remarks: gb #1 | OIL CON. D" |
| | OIL COST ^ |

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)

WELL CASING) CATHODIC PROTECTION CONSTRUCTION REPORT DAILY LOG

| Well Name San J | UDN 28- | 5 # 8 | 9 Loca | | - 28-5 | | CPS No. | 1117W | |
|----------------------------|-----------------|-------------------|-----------------|------------------|---------------|------------------|-----------------|-----------------|-----------|
| Type & Size I | Bit Used 6 | 34 | | | | | Work Order | No. 4987.19- | 50-20 |
| Anode Hole D | | Total Drilling Ri | ig Time To | tal Lbs. Coke U | | culation Mat'l U | sed No. Sacks N | Mud Used | |
| Anode Depth # 1 280 | # 2 255 | # 3 24 5 | # 4 23 <i>5</i> | = 5 2 2 5 | ÷ 6 215 | # 7 /60 | # 8 150 | z 9 140 | # 10 /25 |
| Anode Output # 1 3.8 | (Amps) # 2 2. 9 | # 3 4.4 | # 4 4.8 | # 5 5. 9 | = 6 2.9 | 1#-7 3. 9 | 28 4.5 | #9 4.3 | # 10 4.0 |
| Anode Depth # 11 | # 12 | # 13 | # 14 | # 15 | # 16 | # 17 | # 18 | # 19 | # 20 |
| Anode Output | (Amps) | # 13 | ; ;# 14 | | # 16 | # 17 | # 18 | # 19 | # 20 |
| Total Circuit | Resistance Am | ps 17.3 | Ohms | .67 | Νο. 8 С.Ρ. Сα | ble Used | | No. 2 C.P. Co | able Used |

Remarks: DRIVER Said HIT WATER AT 80°, Next A.M Blew WATER

STATIC - Goo' N = 168

INSTALLED 288' OF I'' VENT PIPE, PERFORATED 200' OF VENT PIPE

Slurgyed 33 Sacks Coke

HOV 16A Rect

STUD Pole

All Construction Completed

IIT SKETCH

GROUND BED LAYOUT SKETCH

DISTRIBUTION:

WHITE - Division Corrosion Office

YELLOW - Area Corrosion Office

PINK — Originator File

El Paso Natural Gas Company ENGINEERING CALCULATION

| Po Sheet: | age | 56 | of | 18 | 1 |
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| Date: | 9. | 2.6 | • | דד | - |

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| C ₂ | 10.12 |
| Сз | 10.42 |
| IC4 | 12.38 |
| nC4 | 11.93 |
| iC5 | 13.85 |
| nC5 | 13.71 |
| iC6 | 15.50 |
| C ₆ | 15.57 |
| íC7 | 17.2 |
| C ₇ | 17.46 |
| C8 | 19.39 |
| C2 [±] | 9.64 |
| C3 [±] | 9,67 |
| | C1 C2 C3 IC4 nC4 iC5 nC5 iC6 C6 iC7 C7 C8 C2 |

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MW 32.00 3.37 28.01 CO 4.19 44.01 CO2 6.38 64.06 SO₂ 5.50 34.08 H₂S 5 17 N₂ 4 16 H₂ 3.38 28.01 2.02

EL PASO NATURAL GAS COMPANY DRILLING DEPARTMENT

DAILY DRILLING REPORT

| LEASE | | | WELL | NO. 1) 17 | ァレ CON | TRACTO | R tos | EY De | illing Co F | RIG NO. | | REP | ORT NO | | DATE Sep | 4 26 | 19 7 |
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| Duller | | | | en In Crew | | | 20B _ | OSEY | | n Crew | , | Driller | | | Total Men | In Crew | |
| FROM | | то | FORMATION | WT-81 | T R.P.M. | FROM | | 10 | FORMATION | WT-BIT | R.P.M. | FROM | | го | FORMATION | WT-BIT | r R.P., |
| · · · · · · · · · · · · · · · · · · · | | | | | | | | | | | | | | | | | + |
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| ER, 10. | | | STAND | | | SERIAL NO | -6^{3} | [4] | STANDS | ····· | | SERIAL NO | • | ., | STANDS | | |
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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. Twp 28 Rng 5 |
|---|--|
| Name of Well/Wells or Pipeline Servi | iced SAN JUAN 28-5 UNIT #19 |
| | cps 1109w |
| Elevation6656' Completion Date 9/28/77 | Total Depth 320' Land Type* N/A |
| Casing, Sizes, Types & Depths | N/A |
| If Casing is cemented, show amounts | & types used N/A |
| If Cement or Bentonite Plugs have be | een placed, show depths & amounts used |
| Depths & thickness of water zones wi | th description of water when possible: |
| Fresh, Clear, Salty, Sulphur, Etc | 80 ' |
| Depths gas encountered: N/A | |
| Type & amount of coke breeze used: | 40 SACKS |
| Depths anodes placed: 235', 225', 215', | |
| Depths vent pipes placed: 240' OF | I" PVC VEIDPEGE |
| Vent pipe perforations: 200' | MI WANTED TO THE STATE OF THE S |
| 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.

Form 7-238 (Rev. 11-71)

WELL CASING CATHODIC PROTECTION CONSTRUCTION REPORT DAILY LOG

| Well Name SHぃ ま | upn 28- | 5 UN;+ 3 | #19 S | w 10 - 2 | 8-5 | | CPS No. | w | |
|--------------------------------|---------|-------------------|-----------|-----------------------|-----------------|-------------------|-----------------------|----------------|----------|
| | 63/4 | 4. | | | | | Work Order 532 | No. 63.19 | |
| Anode Hole D | | Total Drilling Ri | g Time To | tal Lbs. Coke l 40 | Jsed Lost Cire | culation Mat'l Us | | | |
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| Anode Output # 1 4.0 | · · · | # 3 4.8 | # 4 3.5 | # 5 2.6 | # 6 3. 7 | #-7- 3.Z | = 8 H.5 | # 9 5.3 | # 10 4.6 |
| Anode Depth | # 12 | # 1 3 | # 14 | # 15 | # 16 | # 17 | # 18 | # 19 | # 20 |
| Anode Output † 11 | # 12 | # 13 | ≈ 14 | # 15 | # 16 | # 17 | ! ≄ 18 | # 19 | # 20 |
| Total Circuit | 1 | nps 16.0 | Ohms 6 | 0.70 | No. 8 C.P. Ca | ble Used | | No. 2 C.P. Co | ble Used |
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GROUND BED LAYOUT SKETCH

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(Signature)

DISTRIBUTION:

WHITE - Division Corrosion Office

YELLOW - Area Corrosion Office

PINK — Originator File.

El Paso Natural Gas Company ENGINEERING CALCULATION

| - 1 | Page | 60 | of 181 |
|--------|------|-----|--------|
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DAILY DRILLING REPORT

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30-039-21864

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

(Submit 3 copies to OCD Aztec Office)

| Operator MERIDIAN OIL | Location: Unit SE Sec. 10 Twp 28 Rng 5 |
|--|---|
| Name of Well/Wells or Pipeline Servi | .ced <u>SAN JUAN 28-5 UNIT #96</u> |
| | cps 1540w |
| Elevation 6712 Completion Date 6/2/80 | Total Depth 430' 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 |
| N/A | |
| Depths & thickness of water zones wi Fresh, Clear, Salty, Sulphur, Etc. | th description of water when possible: 40' SAMPLE TAKEN |
| riosn, orear, barey, barphar, bee | |
| Depths gas encountered: N/A | · |
| Type & amount of coke breeze used: | 44 SACKS |
| Depths anodes placed: 375', 355', 340', | 320', 290',,270', 255', 245', 235', 210' |
| Depths vent pipes placed: 420' | REGETYEN |
| Vent pipe perforations: 360' | MAY 3 1 1991 |
| Remarks: gb #1 | OIL CON. DIVJ |
| | , voil 3 |

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

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

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

WELL CASING CATHODIC PROTECTION CONSTRUCTION REPORT DAILY LOG

| | Loca | tion | nes | | CPS No. | 15. | |
|---|---------------------------------|------------------|--|-------------------|----------------------|-----------------|---|
| Yell Name 5, J 28-5 # 9 (| ę | JEIC |) - | <u> </u> | Work Order (| 1540 W | <u> </u> |
| Type & Size Bit Used 6341 | - Time Ire | tal Lbs. Coke Us | end Lost Curs | rulation Mat*1 Us | ed No Sacks M | 5750§ | 1-21 |
| 1099ed 420' | | 44 Sac | | Turdion Flat 1 05 | ed 140. Sucks in | T Sea | |
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| node Output (Amps) 1 3.3 # 2 3.1 # 3 3.8 | ± 4 3.8 | · 5 4.6 | = 6 3.2 | = 7 3.25 | * 8 385 | #94.76. | # 10 3.76 |
| node Depth | # 14 | #·15 | # 16 | ≠ 17 | # 18 | #-19 · | #r 20.3 |
| 11 # 12 # 13 | i | # 15 | # 16 | | # 18 | #19 | #.20 |
| Total Circuit Resistance Volts // 3 Amps 11.9 | | .60 | No. 8 C.P. Cal | ole Used , , | and an opening | No. 2 C.P. Cab | le Used |
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| 1 40V 16A REET | | | | | (Sig | gnature) 🕖 | 0 |
| DITCH+ 1 Cable-27 | 7 <i>5</i> ′ ₆ | ROUND BED (| AYOUT SKET | CH 4 | u = u - 1 | D | |
| DITCH+ 1 Cable-27 | 75′ _G | ROUND BED (| -AYOUT SKET | -CH | 4 Hrs. 1 5 Hrs. 1 | | |
| DITCH + 1 Cable-27 EXTRA Cable - 214 | 7 <i>5</i> ′ ₆ 1′ | ROUND BED L | AYOUT SKET | | 5Hrs. | | 1 |
| DITCH+ 1 Cable-27 EXTRA Cable-214 Hole - 80' | 7 <i>5′</i> ₆ | ROUND BED L | | 0 6 | | | |
| DITCH + 1 Cable-27 EXTRA Cable - 214 | 7 <i>5</i> ′ ₆ | ROUND BED L | | 0 6 | 5Hrs. | | |
| DITCH+ 1 Cable-27 EXTRA Cable-214 Hole - 80' | 75' _G | ROUND BED L | AYOUT SKET | ه م | 5Hrs. (| | |
| DITCH + 1 Cable - 27 EXTRA Cable - 214 Hole - 80' | 7 <i>5</i> ′ ₆ | | ali de la companya de | 0 6 | 5Hrs. (| | |
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IELLOW - Area Corrosion Office

PINK — Originator File

10712

Sheet: _____of__ Date: -- _ _ _ - _ _ -

28-5 796 S. J. SECPS 10- 28-5 1540 W Wo 57505-21

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| | 86.18 | iC6 | 15.50 |
| . * | 86.18 | С6 | 15.57 |
| | 100.21 | iC7 | 17.2 |
| | 100.21 | C7 | 17.46 |
| | 114.23 | C8 | 19.39 |
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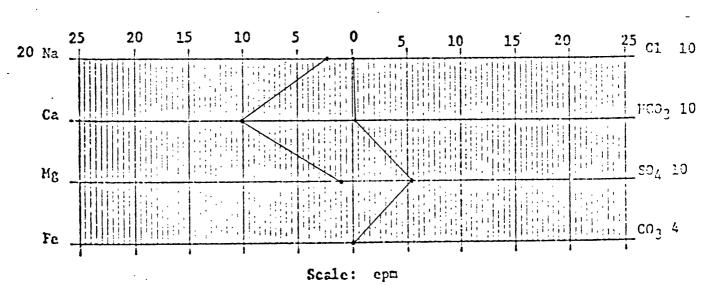
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215

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

| Analysis No. 1-9913 | Date6-23-80 | |
|--|------------------------------------|--------------------|
| Operator El Paso Natural Gas | Well Name San Juan 28-5 #96 | |
| Location SE 10-28-5 | County Rio Arriba State New Mexico | |
| Field Basin | Formation Dakota | |
| Sampled From CPS | | |
| Date Sampled 6-2-80 | Ву | , ° |
| Tbg. Press Csg | g Surface Csg. Press | - |
| ppm epm Sodium 1035 45 | ppm epm chloride 10 .3. | |
| Calcium 204 10 | Bicarbonate 137 2 2 | |
| Magnesium 16 1 | Sulfate 2600 54 | |
| IronNo Test | Carbonate 0 0 | |
| H ₂ S Present | Hydroxide 0 0 | |
| cc: C.B. O'Nan | Total Solids Dissolved 4066 | |
| R.A. Ullrich E.R. Paulek | рН7.9 | |
| J.W. McCarthy A.M. Smith | Sp. Gr. 1.0046 At | 60°F |
| W.B. Shropshire D.C. Adams | Resistivity 211 ohm-cm at | 77 ^O F |
| File | · Releverate Renetalan | |
| | Chemist | ZE |



Form 22-2 (Rev. 1-61)

EL PASO NATURAL GAS COMPANY

| | | J., | | • | | _ | | | DRILLI | NG DEPARTMENT | , | | | | 11 | , | | | |
|-----------|----------|--|--------|--------------------------|-------------|-------------|-------------|--------------|------------|--------------------|----------|--------|---------------|--------|----------|-------------|--------------------|----------|--------------|
| SAN | Janen | 28- | 5 | Λυ. 96 WELL NO. | Three | C D | rilling | ٦ | | | 2 | | | 5 1540 | | | ILY DRILLING F | | |
| LEASE | SEI | 0-28 | -5 | WELL NO. | CON | TRACTO | ₹ • | <i>)</i> | | F | IG NO. | | REP | ORT NO | 0.57 | 505 | -ZATE June | 2 | 19 80 |
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| Driller | Kevin | Bun | C | Total More In Crew | 2 | Onller | | | | Total Men In | Crew | | Driller | | | | Total Men In | Crew | |
| FROM | | то | - | FORMATION WI- | 31 F R.T.M. | FROM | | го | | FORMATION | WT-BIT | R.P.M. | FROM | | то | | FORMATION | WT-BI | T R.P.M. |
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| BIT NO. | | | | NO. DC SIZE | | BIT NO. | | | | NO. DCSIZE | LE | N G | BIT NO. | | | | NO. DCSIZE | L E | ENG |
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| SIZE 6 | 74 | | | SINGLES | | St Z E | | | | SINGLES | | | SIZE | | | | SINGLES | | |
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30.039-07417

88-30-039-20475
DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS NORTHWESTERN NEW MEXICO

| Operator Meridian | Location: Unit K Sec. 15 Twp 28 Rng 5 |
|--|--|
| Name of Well/Wells or Pipeline Se | rviced SAN JUAN 28-5 # 10+ |
| #88 | |
| Elevation Completion Date 8-28 | Total Depth 405 Land Type |
| Casing Strings, Sizes, Types & Dep | pths 8" PVC Surface CASING |
| 80 DEEP | |
| | how amounts & types used $\sqrt{es-22}$ |
| SACKS NEAT CEMENT | |
| If Cement or Bentonite Plugs have | been placed, show depths & amounts used |
| ~~~. | |
| Depths & thickness of water zones Salty, Sulphur, Etc. Fresh | with description of water: Fresh, Clear, |
| Depths gas encountered: NC |) |
| Ground bed depth with type & amoun | nt of coke breeze used: 405 w.+L |
| | bags Asbury 4518 Flo Coiks |
| • | , 294, 285, 249, 240, 230, 220, 211, 20 3145 |
| Depths vent pipes placed: 405' | |
| Vent pipe perforations: DOTTON | DEGEIVE III |
| Remarks: | FEB2 4 1992 |
| · | OIL CON. DIV. |
| | DIST. 3 |

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

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

CPS GROUND BED CONSTRUCTION WORKSHEET

| [] [] [NAME () , NUMBER () 5. J. 28-5 # 10 , #88 | | | | | | | | | | | | |
|---|-----------------------------------|-------|------------|-------|-------|-------|------------------|-------|----------|-------------------|---------------------------------------|--|
| n #49 | 9498A 064A | TOTAL | VOLTS | 46 | 27. (| e | эн мв , 5 | DA 8. | 28-91 | NAME | Rω | |
| REMARKS (notes for construction log) 80' 8" - ZZ CEMENT | | | | | | | ganganama se | | | | | |
| WA | WATER 100' perfoRATED bOTTOM 300' | | | | | | | | | | | |
| TI | > 40 | \$ | | | | | | | | | | |
| 40 3 45 6 | <i>. O</i> | | | | | | Lores | | | | | e de la companya de l |
| DEPTH | LOG | ANODE | DEPTH | LOG | ANODE | DEPTH | LOG | ANODE | DEPTH | Log | ANODE | |
| | ANODE | - | | ANODE | | | ANODE | | | ANODE | * | ٠ |
| 100 | 2.0 | . | 295 | 3.1 | | 490 | | | 685 | | | |
| 105 | 1.7 | . | 300 | | | 495 | | | 690 | | | - |
| 110 | 1.7 | . | 305 | 1.9 | | 500 | | | 695 | | | |
| 115 | 2.4 | | 310 | 1.3 | | 505 | | | 700 | | | 700gu |
| 120 | 20 | ll | 315 | .9 | | 510 | | | ANODE | DEPTH | NO ,, | FULLY |
| 125_ | 2.0 2.2 3.1 | | 320 | - 3 | | 515 | | | - | | COKE | COK! D |
| 130 | 3.1 | | 325 | | | 520 | | | 1_1_ | 375 | 2.3 | -4.0 |
| 135 | 3.5 | . | 330 | .4 | | 525 | | | 2 | 365 | 2.76 2.8 3.1 | 4.8 |
| 140 | 3.6 | · | 335 | .4 | | 530 | | | 3 | <u>303</u> 294 | 2.8 | 4.9 |
| 145 150 | 3.5 | | 340 | | | 535 | | | 4 | 294 | 3.1 | 5.8 |
| 150 | 2.7 | | 345 | _ , 5 | | 540 | | | 5 | 285 249 | 2.5 | 5.0 |
| <u> 155</u> | 2.8 | | 350 | 5 | | 545 | | | 6 . | 249 | 2.4 | -4:8 |
| 3_ | 2.8 | l | 355 | | | 550 | | | 7 | 240 | 2.5 2.4 3.3 | وي اف |
| 105 | 1.6 | | 360 | 2.6 | | 555 | | | 88 | 230 220 | 3.4 | 8.ها |
| 165 170 | 1.2 | | 365 | 2.5 | | 560 | | | 9 | 220 | 3.7 | 7.8 |
| 175 180 | 1.0 | | 370 | 2.5 | | 565 | | | 10 | 211 | 3.4 3.7 3.7 2.9 | -7. 7 |
| 180 | .9 | | 375 | 2.2 | | 570 | | | 11 | 202 | 2.9 | 7.1 |
| 185 | . 7 | | 380 | 1.6 | | 575 | | | 12 | 145 | 3.5 | 6.4 |
| 190 | . 8 | | 385 | 1.5 | | 580 | | | 13 | | | |
| 195 | 1.1 | | 390 | 1.4 | | 585 | | | 14 | | * | - |
| 200 | 17 | | 395 | 1.5 | | 590 | | | 15 | | | |
| 205 | 3.9 | | 400 | 2.0 | | 595 | | | 16 | | | - |
| 210 | 3.6 3.7 | | 405 | 1.1 | TD | 600 | | | 17 | | | |
| 215 | 3.7 | | 410 | | | 605 | | | 18 | | | |
| 220 | 3.6 | | 415 | | | 610 | | | 19 | | | |
| 225 | 3.2 | | 420 | | | 615 | | | 20 | | | _ |
| 230 | 3.2 | | 425 | | | 620 | | | 21 | | | |
| 235 | 3.3 | | 430 | | | 625 | | | 22 | | | |
| 240 | 3.1 | | 435 | | | 630 | | | 23 | | | |
| 245 | 2.7 | | 440 | | | 635 | | | 24 | | | |
| 250 | 1.9 | | 445 | | | 640 | | | 25 | | | |
| 255 | 1.1 | | 450 | | | 645 | | | 26 | | · · · · · · · · · · · · · · · · · · · | |
| 260 | . % | | 455 | | | 650 | | | 27 | | | |
| 265 | 1.3 | | 460 | | | 655 | | | 28 | | | |
| 270 | 6 | | 465 | | | 660 | | | 29 | | | |
| 275 | 1 1 |] | 470 | | | 665 | | | 30 | | | |
| 280 | 1.3 | | 475 | | | 670 | | | | | | |
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| _ز | 2.8 | | 485 | | | 680 | | | | | | canno - · |
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DISTRIBUTION - original - permanent CPS.FILE.

copy - Division Corrosion Supervisor

copy - Region Correction Specialist

API WATER ANALYSIS REPORT FORM

| Laboratory No. 259/083 | BO-/I | ALTOIO HEI OF | - Chivi | | |
|---|-----------------------------|--|--|-------------------|-----------------|
| Company MERIDIAN | | i | aple No. | Date Sampled 8/28 | /91 |
| Field | Legal Description | 28-5 | County or Parish | / 1 | I, M. |
| Lease or Unit | Well SJ 18-5 #10 | Depth I | Formation | Water, B/D | _5 |
| Type of Water (Produced, Supply | y, etc.) Samp | pling Point LOUND BED / | | Sampled By | |
| DISSOLVED SOLIDS | | OTHER PROPERT | | | |
| CATIONS | mg/l me/l | рН | | <u> </u> | 3,3 00Z |
| Sodium, Na (calc.) Calcium, Ca Magnesium, Mg Barium, Ba | 480 21 48 2,4 9,1 0,8 | Specific Gravity, 6 Resistivity (ohm-m | | | 00Z) 5.70 |
| ANIONS | | | Total Dissolved Sc | olids (calc.) | 700 |
| Chloride, CI Sulfate, So ₄ Carbonate, CO ₃ Bicarbonate, HCO ₃ | 790 16 0 0 310 5.0 | REMARKS & REC | Iron, Fe (total) Sulfide, as H₂S OMMENDATIONS: | | |
| 25 20 1 | 15 1,0 5 | 0 5 | 1,0 1,5 | 20 2 | 25 |
| 0 20 Ca | | | | | HC03 |
| | | | | | 504 |
| | | | | | io co, |
| Date Received | Preserved | Date Analyzed / | 1 | Analyzed By | |
| 8/30/9/ | No | 8/31/9 | | 5 | - ', |



TECH, Inc. 333 East Main Farmington New Mexico 87401 505/327-3311 Received by QCD: 9/20/2023 13:25;17 PM 30 - 039 - 07442 - 9/0 93 - 30 - 039 - 20876 201 - 30 - 039 - 24474

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

| Operator MERIDIAN OIL | Location: Unit NE Sec. 15 Twp 28 Rng 5 |
|--|--|
| Name of Well/Wells or Pipeline Ser | viced SAN JUAN 28-5 UNIT #27, #93, #201 |
| | cps 1115w |
| Elevation6681' Completion Date 10/21 | /77 Total Depth 220' Land Type* N/A |
| Casing, Sizes, Types & Depths | N/A |
| If Casing is cemented, show amounts | s & types usedN/A |
| If Cement or Bentonite Plugs have N/A | been placed, show depths & amounts used |
| Depths & thickness of water zones | with description of water when possible: |
| Fresh, Clear, Salty, Sulphur, Etc. | 107' - 119' |
| Depths gas encountered: N/A | |
| Type & amount of coke breeze used: | 40 SACKS |
| Depths anodes placed: 185', 145', 125' | |
| Depths vent pipes placed: 220' | OF 1" PVC VENT PIPE |
| Vent pipe perforations: 120' | 37 32 |
| Remarks: 'gb #2 | Mary COK. |
| | 110 0121. |

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)

WELL CASING CATHODIC PROTECTION CONSTRUCTION REPORT DAILY LOG

| Drilling Log (Attach Heret | | \$7° | | | | ompletion L | ate | 1-77 |
|-----------------------------------|-------------------|----------------|-----------------|--------------|-------------------|--|--------------|--------------|
| Well Name | · # | 27 Loca | ation | | | CPS No. | | 4° 2 |
| SAN JUAN 28-8 | WMit # | 93 N | E 15-2 | 8-5 | | | 5W | ÷ |
| Type & Size Bit Used | | | | | | Work Ord | er No.#27= 2 | 53463.19 |
| 6 3/4" | | | | | | | # 93 c 4 | 5635.21 |
| Anode Hole Depth 320 | Total Drilling Ri | g Time To | tal Lbs. Coke I | Jsed Lost Cı | rculation Mat'l U | Jsed No. Sack | s Mud Used | - 15 |
| Lossed-308 | | | 56 | l | | | | *Tong . |
| Anode Depth | | 1 | 1. | 1 | | | | |
| # 1 285 # 2 275 | 1 # 3 2 6 5 | # 4 255 | # 5 240 | # 6 215 | # 7 205° | # 8 198 | # 9 1 86 | # 10 185 |
| Anode Output (Amps) | | 1 | | 1 | | | X | 1 1 |
| #14.1 #24.9 | # 3 4.6 | # 4 3.6 | # 5 2.6 | # 6 2.6 | # 7 4.2 | # 6 | | # 10 Z.8 |
| Anode Depth | _ | 1 | 1 | | | | | 1 |
| ± 11 145 # 12 125 | # 13 | # 14 | # 15 | # 16 | # 17 | # 18 | # 19 | # 20 |
| Anode Output (Amps) | . 1 | 1 | 1 | 1 | 1 | 1 | | 7 |
| # 11 2.2 # 12 2.5 | # 13 | # 14 | # 15 | # 16 | # 17 | # 18 | # 19 | # 20 |
| Total Circuit Resistance | • | | • | No. 8 C.P. C | able Used | ************************************** | No. 2 C.P. | . Cable Used |
| Volts //.5 An | nps 13.4 | Ohms 0 | .86 | | | | | |

Remarks: STATIC = 27 600 N = 0.72, STATIC = 93 600 5 = 0.75 INSTAlted 10-2"x2" x48" GRAPhite Anodes. DRiller SAId MAKING WATER @115. Installed 300'051" PUC VENT Pipe. Perferated 200'051" Pre Vent Pipe, Hobo Bridged Above Anode #8 \$ #9. Drilled Hole #2. Installed Anodes # 10, #118 Installed 220'051' Pue vent Pipe & Peascapted 120'05 vent Pipe in tole #2 Slugged 56 SAUKS OF COKE IN HOLO #1 & 40 SAUKS OF COKE IN HOLE #2, Installed 60030 A ROCTIFICA SSTUB POLC

All Construction Completed **GROUND BED LAYOUT SKETCH** WHITE - Division Corrosion Office YELLOW - Area Corrosion Office - Originator File

DISTRIBUTION:

PINK

El Paso Natural Gas Company ENGINEERING CALCULATION

| \boldsymbol{P} | Page 72 of 181 |
|------------------|----------------|
| Sheet: | ot |
| Date: | |
| By: | |
| File: | |

W

Hore #/

SAN JUAN 28-5 UNIT# 27 53463.19 SAU JUAN 28-5 NN;+#93 11154 Static 600 N= 0.72 DRILLER SAIDMAKING WATER @115 Static 600 5= 0.75 = 27 Stanted two @ PERSERAted 200' AS 1" PULLUTY + Pipe 600 30A Rectifier Installed 300 of 1" Puc yent ripe MW gals/mol 16.04 C₁ 6.4 Stub Pole STURRYEL SO SACKS OFCOKE 30.07 C₂ 10 12 44.10 C₃ 10 42 58.12 iC4 12.38 58.12 nC4 11 93 iC5 72.15 nC₅ 13.71 86.18 iC₆ 15.50 86 18 C₆ 15.57 100.21 IC7 17.2 100.21 C7 17.46 60 1.5 -1 114.23 Cg 19.39 115.4 28.05 C2: 964 42.08 C3² 9.67 20.10 801.6 1.4 90.1.4 ...4 401.2 -.9 ? 60 .4 70.5 海鱼生产 .4 MISC. gals/moi Q 285 MW 1.8 1.0 3.6 (9)32.00 - O2 3 37 2.2 701.4 28.01 44.01 CO₂ 6.38 (8) 2.1 D 265 1.6 64.06 SO₂ 5 50 Holie D 255 1.8 3.6 2001.8 34.08 H₂S 5 17 28.01 2.6 3 240 .):4 2.02 H₂ 3.38 2:6 1.4 10:1.4 P 6215 4.2 (2) 205 11.2 -20.1.0 9 195 9 185 30.9 10185 1:6 2.8 40 1.1 (1) 145 (2) 125 Holo 2.2 1.0 50 .8 1.43 11.5 Volts 13.4 AMPS 0.86 OHMS

| Received by | OCD: | 0/20/2023 | 12:25: | 17 PM |
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| Trecer Charge | -14Rev-8-75 | 72072023 | 14.40. | A / A 17A |

El Paso Natural Gas Company ENGINEERING CALCULATION

| Sheet: | 'age 73 of 181 |
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| Sileet. | 01 |
| Date: | |
| By: | |

| • | Ho2c # 2 | By: |
|-------------|---------------------------------------|----------|
| 5 14 | 3 Anades | |
| . , , , , , | SAN JUAN 28-5- NN:+ = 27 | 53463.19 |
| | SANJUAN 28-5 WINT 93 NE 15-28-5 11/5W | 55635.21 |
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| MW | ga | is/moi |
|--------|-----------------|--------|
| 16 04 | C ₁ | 6 4 |
| 30 07 | C ₂ | 10.12 |
| 44 10 | Сз | 10.42 |
| 58.12 | ıC4 | 12 38 |
| 58.12 | пС4 | 11 93 |
| 72.15 | iC5 | 13 85 |
| 72.15 | nC5 | 13.71 |
| 86.18 | iC ₆ | 15.50 |
| 86.18 | C ₆ | 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 ² | 9.67 |
| | | |

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| MW | gal | s/mol |
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| 28.01 | co | 4 19 |
| 44.01 | CO2 | 6 38 |
| 64 06 | SO ₂ | 5 50 |
| 34.08 | H ₂ S | 5 17 |
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1.2 901.4

| 1.6 | | | | , | | : 1 |
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Hope # 5

Form 22-2 (Rev. 1-61)

EL PASO NATURAL GAS COMPANY

DRILLING DEPARTMENT

| | | | | | | 1 | | | | ^ | | | | | | | | | DA | ILY DRI | LLING F | REPORT | |
|--------------|--------------|------|---------------|---|------------|-------------|----------|-------------|------|--------------------------|---------------|------------------|-------------|-------------|--------------|-------------|----------------|-------|---------------------------------------|---------|---------------------|---------------------------------------|----------|
| LEASE | | | | WELL NO. | 111 | 5 600N | TRAC | ror (| Pus | ey k | 200 | mal | CO R | IG NO. | | RE | PORT | NO. | | DATE | 10 - 8 | 21 | 19 7 |
| | | МС | ORNING | | | | | | • | | YLIGHT | | | | | | | | EVEN | NG | | | |
| Driller | | | | Total Men In | Crew | | Philler | allı | est | $\mathcal{X}\mathcal{G}$ | gsei | | otal Men In | Crew C | 3 | Driller | | | | Т | otal Men In | Crew | |
| FROM | | то | F | DRMATION | wr- B | IT R.P.M. | FR | эм | 1 | го | $\overline{}$ | FORMAT | ЮИ | WT-BIT | R.P.M. | FROM | | TO | | FORMAT | 10N | WT-BIT | R.P.M. |
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Form 22-2 (Rev. 1-61)

Hohie

EL PASO NATURAL GAS COMPANY

DALLY DRILLING REPORT

| LEASE | • | | | WELL NO. | 1113 | CON | TRACT | OR P | 5E4 | Des | こしんエト | Co.F | RIG NO. | | RE | PORT | NO. | | DATE | Oct. | .3 | 1977 |
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Received by OCD: 9/20/2023 12:25:17 PM 39 -07-413

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS

NORTHWESTERN NEW MEXICO

(Submit 3 copies to OCD Aztec Office)

| Operator | MERIDIAN OIL | Locat | ion: Unit SW S | ec. ¹⁷ Twp. ²⁸ Rng. ⁵ |
|---------------------|--------------------------|-------------------|---------------------|--|
| Name of We | ll/Wells or Pipelin | e Serviced | SAN JUAN 28-5 | UNIT #33 |
| | | | | cps 1121w |
| Elevation <u>66</u> | 689' Completion Date | 9/1/77 Tota | l Depth <u>400'</u> | _Land Type* N/A |
| Casing, Siz | zes, Types & Depths | | N/A | |
| If Casing | is cemented, show a | mounts & type: | s used N/A | |
| | or Bentonite Plugs /A | have been plac | ced, show dep | ths & amounts used |
| Depths & th | nickness of water z | ones with desc | cription of w | ater when possible: |
| Fresh, Clea | ar, Salty, Sulphur, | Etc. | 210' - 235' | |
| Depths gas | encountered: | N/A | | |
| Type & amou | unt of coke breeze | used: | 37 SACKS | |
| Depths anod | ies placed: 360', 350 | ', 340', 330', 30 | 00', 290', 280' | , 270', 260', 245',220'; |
| Depths vent | pipes placed: | 380' OF 1" PVC | VENT PIPE | CEIVEM |
| Vent pipe p | perforations: | 200' | IW. | |
| Remarks: <u>~g</u> | 6 #1 NO COKE AROUN | D #8 & #9 ANODES | • | MAY 3 1/1991 |
| | | | Oll | 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.

Form 7-238 (Rev. 11-71)

WELL CASING CATHODIC PROTECTION CONSTRUCTION REPORT. DAILY LOG

| is Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual An Annual Annual | • | | * * * * | | | *, 1 |
|--|---|----------------|----------------------------------|-----------------|--|------------|
| Drilling Log (Attach Hereto). | * * | | | ompletion Da | 9-1- | 77 |
| Well Name | 1. | | | | | |
| S.T 28-5 # 33 | Sw17 | - 28-5 | _ | CPS No. | 11214 | ر <u>َ</u> |
| Type & Size Bit Used 6 3/4 | | | | Work' Order | No. . 0 3 5 5 . 1 9. | -50-20 |
| Anode Hole Depth 400 Total Drilling Rig Time | Total Lbs. Coke U | | culation Mat'l U | sed No. Sacks N | | , |
| Anode Depth | | | | | T | |
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| # 1 3.0 # 2 3.0 # 3 3.3 # 4 2 | .7 # 5 3.0 | # 6 4-8 | #-7-4.9 | # 8 | # 9 | # 10 3.8 |
| Anode Depth # 11 220 # 12 210 # 13 # 14 | # 15 | ; # 16 | # 17 | ¦ # 18 | # 19 | # 20 |
| Anode Output (Amps) # 11 2.7 # 12 3.8 # 13 # 14 | | # 16 | # 17 | # 18 | # 19 | # 20 |
| Total Circuit Resistance | | No. 8 C.P. Cal | | 1# 10 | No. 2 C.P. Ca | ble Used |
| Volts //. 3 Amps 20 Oh | ms . 57 | | | | | |
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Received by OCD 9202023 127527 8M 30-039-07428 #75 30-039-20108

Operator MERIDIAN OIL

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS

NORTHWESTERN NEW MEXICO

(Submit 3 copies to OCD Aztec Office)

Location: Unit NE Sec 17 Twp 28 Rng 5

| Name of Well/Wells or Pipeline Serviced SAN JUAN 28-5 UNIT #28, #75 |
|---|
| cps 1120w |
| Elevation6589' Completion Date 9/8/77 Total Depth 320' Land Type* N/A |
| Casing, Sizes, Types & Depths N/A |
| If Casing is cemented, show amounts & types used N/A |
| If Cement or Bentonite Plugs have been placed, show depths & amounts used N/A |
| Depths & thickness of water zones with description of water when possible: |
| Fresh, Clear, Salty, Sulphur, Etc. 97' DIF GENERAL |
| Depths gas encountered: N/A OIL CON. DIV. |
| Type & amount of coke breeze used: 38 SACKS \ DIST. 3 |
| Depths anodes placed: 270', 260', 250', 230', 220', 210', 200', 165', 155', 145' |
| Depths vent pipes placed: 280' OF 1" PVC VENT PIPE |
| Vent pipe perforations: 200' |
| Remarks: gb #1 . |
| If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should |

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

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

Form 7-238 (Rev. 11-71)

SAN JUAN 28

Type & Size Bit Used

) WELL CASING CATHODIC PROTECTION CONSTRUCTION REPORT DAILY LOG

Drilling Log (Attach Hereto).
Completion Date 9-8-77

CPS No.

//20 //

Work Order No#28= 53464619

**75= 5455519

ton Mat'! Used No. Sacks Mud Used

| | 634 | | | | | | | * 75= 5 | 4555119 |
|----------------------------|----------------------|-------------------|-----------------|-------------------|----------------|-------------------|------------------|----------------|------------------|
| Anode Hole D | | Total Drilling R | ıg Tıme | Total Lbs. Coke 1 | Used Lost Cı | rculation Mat'i (| Jsed No. Sacks h | Mud Used | ₩ |
| Anode Depth # 1 270 | # 2 260 | # 3 250 | # 4 23 0 | # 5 220 | # 6 210 | # 7 200 | = 8 165 | = 9 155 | # 10 / 45 |
| # 1 4.0 | # 2 3.6 | # 3 3.9 | # 4 3.0 | # 5 3.9 | # 6 3.4 | #-7- 3. 9 | # 8 3. 6 | # 9 5.3 | # 10 5.5 |
| Anode Depth # 11 | # 12 | # 13 | # 14 | # 15 | # 16 | # 17 | # 18 | # 19 | # 20 |
| Anode Output | (Amps) # 12 | # 13 | # 14 | ¦ ¦# 15 | # 16 | # 17 | # 18 | # 19 | # 20 |
| Total Circuit | 1 | nns <i>III.</i> 2 | l Ohms | 0.85 | No. 8 C.P. C | able Used | | No. 2 C.P. Co | rble Used |

Remarks: Static #28 600'SW=0.77, Static #75 600'SE=0.68

DRiller Spid Making water between 97' \$119'. Drilled to 120' Next AM.

blew water. Started Inj. @120'. Perferated 200'of 1"PVC vent Pipe
Installed 280' of 1"Pvc vent Pipe. Slurryed 38 Sacks of Coke.

#28 Marked I Notch #75 Marked 3 Notches

Installed 600 30A Rectifier & Stub Pole

All Construction Completed

W. Z. Louds

346 GROUND BED LAYOUT SKETCH

and Bed

DISTRIBUTION:

WHITE - Division Corrosion Office

YELLOW - Area Corrosion Office

PINK - Originator File

5.89!

| Sheet? | age | 82 | of | 181 |
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| Date: | | | | |

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EL PASO NATURAL GAS COMPANY DRILLING DEPARTMENT

DAILY DRILLING REPORT

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30-039-23113

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

| Operator MERIDIAN OIL INC. Location: Unit D Sec. 17 Twp 28 Rng 5 |
|---|
| Name of Well/Wells or Pipeline Serviced SAN JUAN 28-5 UNIT #28A |
| cps 1882w |
| Elevation 6660' Completion Date 6/18/87 Total Depth 400' Land Type* N/A |
| Casing, Sizes, Types & Depths N/A |
| If Casing is cemented, show amounts & types usedN/A |
| If Cement or Bentonite Plugs have been placed, show depths & amounts used _N/A |
| Depths & thickness of water zones with description of water when possible: Fresh, Clear, Salty, Sulphur, Etc. 120' NO SAMPLE |
| Depths gas encountered: N/A |
| Type & amount of coke breeze used: N/A |
| Depths anodes placed: 355', 345', 265', 225', 215', 205', 195', 155', 145', 135' |
| Depths vent pipes placed: N/A DEGETTE |
| Vent pipe perforations: 320' MAY 31'1991 |
| Remarks: gb #1 CON MV |

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

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

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

WELL CASING— CATHODIC PROTECTION CONSTRUCTION REPORT DAILY LOG

| Page | 85 of 181 |
|--------|---|
| 9-11-8 | /, / |
| 9 | And Participation of the Control of |

| Drilling Log (Attach Hereto) | motor Inte 95: | 5240/ Complet | ion Date 6-18-87 |
|--|----------------------|--|--|
| CPS # Well Name, Line or Plant. | Work Order # | Static · | Ins. Union Check |
| 1882W 5.J. 28-5 #2. | 3A A 6644 | .345 | ☐ Good ☐ Bad |
| Depth Drilled L/OO Depth Logged JOO Depth Logge | Total Lbs Goke Used | Size Bit 3/4 Lost Circulation Mat'l Use | d No. Sacks Mud Used |
| Anode Depth | : h13. | | |
| #1355 #2 345 #3 245 #4 225 | #5 21.5 #6 20.5 | #7/95 #8/ | 5.5 49/45 4 10/35 |
| # 1 3, 9 # 2 4, 0 # 3-3, 4 # 4.5, 5 | # 5.5.4 # 6.5. 9 | #74.7 #84 | 10 1,942 1,104.3 |
| # 11 # 12 # 13 # 14 | # 15 # 16 | # 17 # 18 | # 19 # 20 |
| Anode Output (Amps) # 11 # 12 # 13 # 14 | # 15 # 16 | # 17 # 18 | # 19 # 20 |
| Total Circuit Resistance Volts Amps / Ohms - | No. 8 C.P. Co | ble Used | No. 2 C.P. Cable Used |
| Dailles en al mate | C . : C . S . C . of | 150' | Vent pine |
| remarks: Driller said water is perforated up | 2 001 | 1-1-1 | 1 can la |
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| was taken, but u | ater wa | 2) 547 | · · · · · · · · · · · · · · · · · · · |
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| | | | |
| Rectifier Size: 40 V / G: A | | All | Construction Completed |
| Addn'l Depth Depth Credit: | | M I | |
| Extra Cable: 126' Ditch & 1 Cable: 157' | | found, | frmith |
| 25 'Meter Pole: | ROUND BED LAYOUT SKE | TCH | (Signature) |
| 20' Meter Pole: | COOND BED LATOUT SKE | | |
| Detch + 2 cable 96" | | · | 1 |
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| 3844 750-rect | | | e de la companya de l |
| 305 - MP | | r | |
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BURGE CORROSION SYSTEMS, INC.

CPS 1882 W

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

| COMPANY | Meridian Oil | DAIL | PORILLING REPO | AT:6-18-87 | 19 |
|------------|--------------|----------------|----------------|------------|--|
| WELL NAME: | | WELL NUMBER: | SECTION: | TOWNSHIP: | RANGE: |
| San Juan | 28-5 | #28A | | | |
| | WATER AT: | FEET: | HOLE MADE: | | |
| | 120' | | 6 3/4 | | |
| | | DESCRIPTION OF | | | man de la companya de |
| FROM | то | - | FORMATION I | S | COLOR |
| 0 | 100 | sandstone & | shale | | |
| 100 | 120 | water sand | | | |
| 120 | 170 | shale & sand | ly shale | | |
| 170 | 185 | sandstone | | | The state of the s |
| 185 | 235 | shale | | | The state of |
| 235 | 260 | sandstone | | | Manager The state of the state |
| 260 | 275 | shale | | | |
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| Kevin | Buse | Driller | | | Tool Dresser |
| | // | | | | A 100 7 1 |

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

Date 6-18-87

30-039-23812

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_J_Sec.17_Twp28_Rng_5 |
|--|
| Name of Well/Wells or Pipeline Serviced SAN JUAN 28-5 UNIT #33A |
| cps 1884w |
| Elevation6585' Completion Date 6/19/87 Total Depth 340' Land Type* N/A |
| Casing, Sizes, Types & Depths N/A |
| |
| If Casing is cemented, show amounts & types used N/A |
| |
| If Cement or Bentonite Plugs have been placed, show depths & amounts used |
| N/A |
| Depths & thickness of water zones with description of water when possible: Fresh, Clear, Salty, Sulphur, Etc. 130' SAMPLE TAKEN |
| Depths gas encountered: N/A |
| Type & amount of coke breeze used: N/A |
| Depths anodes placed: 305', 285', 275', 265', 240', 230', 220', 190', 180' |
| Depths vent pipes placed: 335' |
| Vent pipe perforations: 230' |
| Remarks:gb #1 / MAY81/1991 |
| OIL CON. DIV |
| INCT • " |

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.

| , Page 89 of 18. |
|------------------|
| Page 89. of 18. |
| 72 |
| TOTAL TOTAL |

| * | | c | ATH | ODIC PI | ROTEC | | CONS | | TION-REPOI | ₹Т | an only the status to the control of | The second secon |
|--------------------------------|-------------|-------------------|-------------|---------------|----------|-------------|-----------------|------------|---------------|-------------------|--|--|
| Drilling Log (Assach He | ereso) | | | ., | | ma | tero l | rade 9 | 2030.0 | Completion : | Date | 9-87 |
| CPS • | Well Nam | e, Line or Plant: | | | | Work Orde | | | Static: | | Ins. Union Check | - 76651- |
| 1884W | 1.11 | 28-5 | ~ | 33 A | | | 849 | 96 | | . 93 SE | | gir ☐ Bad gir |
| 1801-6- | 1 | | | | | | | | | | €21 (v00€ | |
| | Um | it Letter J. | <u>-17-</u> | | | | | | | | | |
| Location: | _ | Anode Size: | • | Anode Typ | | | | ľ | Size Bit: 6 3 | · · | | Supplied to |
| J-17-28 | Depth | 2 × 60 | Dn/ | Hing Rig Time |)uri | | Lbs. Cof | te Used | | on Mat'l Used | No. Sacks Mud I | Santana (j. Heed Sangar Sangar |
| 3'40' | | 335 [°] | | | • | | | | | | | |
| Anode Depth | | | 1 | | ; / 1 | , | - | | T . | , 1 | , | 1 232 |
| #1365 #2 | | R3 275 | # 4 | 265 | # 5 Z | 10 | ≈ 6 | 230 | 127 ZZO | 128 190 | 19180 | 1 10 771 |
| Anode Output (Amps) | | -2 4/6 | | 2 L | ! ~ < | 2 77 | 1 | 46 | 1 7 7 / | 1 | 1 2 9 | # 10:49 |
| Anoge Cepth | <u>u.</u> / | #3 76 | + 4 | ر. ر | 1 3 _ | 7. / | + 0 | 7. 🕓 | + | J. / | <u> </u> | 7 10 7 / |
| # 11 # 12 | | # 13 | = 14 | 4 | ± 15 | | # 16 | į | # 17 | ≈ 18 | # 19 | a 20 |
| Anode Output (Amps) | | | - | | 1 | | 1 | <u> </u> | 1 | - | - | 1 - |
| = 11 | | # 13 | z 14 | <u> </u> | ‡≈ 15 | | ≈ 16 | | ¦ ≈ 17 | 1 a 18 | # 19 | ≠ 20 |
| Total Circuit Resist | ! | - 7 1 | | 1 | ~ 2 | | No. 8 | 8 C.P. Cai | ble Usea | | No. 2 C.P. C | able Used _a - |
| Volts /2.33 | ; Am | ps 17.2 | | Ohms | .72 | | | | | | | |
| Remarks: | 1.7 | 711 × | | . 7 | 131 | ~' } | 7) ⁻ | 11.1 | · + 18 | r's | . + day | t |
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| Martilla | <u>~</u> / | <u> 753 ar</u> | | | <u> </u> | 1 ، عمد . 1 | <u> </u> | -KXF | <u> </u> | 1:100 | 1 C 3(' | |
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| Rectifier Size: 40 | | · //2 | | 750. | 473 | | | | | | <u> </u> | |
| Addn'l Depth | · | V | л | | | | | | | All Const | truction Comple | ted |
| Depth Credic: | 16 | <i>5'</i> | _ | 364 | 0.00 | | | | | | | |
| Extra Cable: | 144 | | | 35. | 50 | | | | ~ | · / / | ر إنجر ر | |
| Ditch & 1 Cable:_ | | 6 | _ | 64. | 74 | | | | | Tiple of | (Signature) | |
| Ditch & 2 Cab | | 112' | | 58. | 24 | | | | | ,7 | * | |
| 25' Meter Pol | | | | | | | | | | | | |
| 20' Heter Pol 10' Stub Pole | | , | | 150. | | | | | | | | |
| Junction Box: | | | | | .00 | | | | | | | |
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Received by OCD: 9/20/2023 12:25:17 PMBURGE CORROSION SYSTEMS, ICC A Company of the Comp

P:O BOX 1359: PHONE 334 6141 AZTEC, NEW MEXICO 87410 DEEP WELL GROUNDBED LOG

Page 90 of 181

.

BURGE CORROSION SYSTEMS, INC.

CPS 188400

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

| COMPANY Meridi | an Oil | DAIL | Y DRILLING REPOR | June 24, | 19 87 |
|----------------|--|----------------|---------------------------------------|-----------|--|
| WELL NAME: | | WELL NUMBER: | | TOWNSHIP: | RANGE: |
| San Juan 2 | 18–5 | #33A | 17 | 28 | 5 |
| | WATER AT: | FEET: | HOLE MADE::5 | | |
| | • | 120 | 6 3/4 | | |
| | The state of the s | DESCRIPTION OF | FORMATION | | |
| FROM | ТО | | FORMATION IS | | COLOR |
| 0 | 120 | sandstone | & shale | | grey & tan |
| 120 | 130 | watersand | | | grey |
| 130 | 195 | shale | | | grey |
| 195 | 215 | sandstone | | | The second secon |
| 215 | 250 | shale | * | | |
| 250 | 260 | sandstone | | | |
| 260 | 315 | shale | | | |
| 315 | 340 | sandstone | - | | |
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| REMARKS: | | | | | arte enge |
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| Kevin Bu | use. | Driller | | | Tool Dresser |
| • | | | | | |



CPS 188412)

API WATER ANALYSIS REPORT FORM

| Company Meridian | noûco. | | | Sample No. | Date | Sampled - 19 - 87 |
|---------------------------------|---------------|----------------------|--------------|--------------------------|----------|---------------------|
| Field | Legal D | escription 1-28-5 | | County or Par | ish L | State NM |
| Lease or Unit | Well \$5-28-5 | #33A | Depth 130 | Formation Mesa Ver Le | Wat | er, B/D |
| Type of Water (Produced, G. 13. | Supply, etc.) | Sampling G.B. | | | | pled By Evan 5 |

DISSOLVED SOLIDS

| CATIONS | mg/l | me/l |
|--|------|-------------|
| Sodium, Na (calc.) Calcium, Ca Magnesium, Mg | 230 | |
| Magnesium, Mg Barium, Ba | | |
| | | |

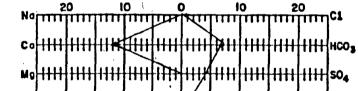
OTHER PROPERTIES

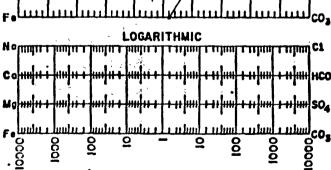
| pH | 8.99 |
|--------------------------------|-------------|
| Specific Gravity, 60/60 F. | 1.0027 |
| Resistivity (ohm-meters) 74°F. | 1.1 X102 |
| Conductivity | 8.9×104 mho |

WATER PATTERNS — me/l STANDARD

ANIONS

| Chloride, Cl Sulfate, SO ₄ Carbonate, CO ₃ Bicarbonate, HCO ₃ | 14 200 30 425 | .4 4.1 1.0 7.0 |
|---|------------------------|---|
| | | |
| | | * ************************************ |





Total Dissolved Solids (calc.) 900

Iron, Fe (total)

Iron, Fe (total)

Sulfide, as H₂S

O

REMARKS & RECOMMENDATIONS:

This sample contained a large amount of suspended clay which was feltered with difficulty. Only small vames of feltrate were obtained # 17= 30-039-07364 #54= 30-039-07358

4911

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

| Operator MERIDIAN OIL Location: UnitSW Sec.20 Twp 28 Rng 5 |
|--|
| Name of Well/Wells or Pipeline Serviced SAN JUAN 28-5 UNIT #17, #54 |
| cps 727w |
| Elevation 6720' Completion Date 8/29/83 Total Depth 500' Land Type* N/A |
| Casing, Sizes, Types & Depths 40' OF 8" CASING |
| |
| If Casing is cemented, show amounts & types used N/A |
| |
| If Cement or Bentonite Plugs have been placed, show depths & amounts used |
| N/A |
| Depths & thickness of water zones with description of water when possible: |
| Fresh, Clear, Salty, Sulphur, Etc. 140' NO SAMPLE |
| |
| Depths gas encountered: N/A |
| Type & amount of coke breeze used: 5000 lbs. |
| Depths anodes placed: 405', 375', 365', 355', 345', 335', 305', 295', 245', 235' |
| Depths vent pipes placed: 500' OF 1" PVC VENT PIPE |
| Vent pipe perforations: 400' RECEIVED |
| Remarks: <u>GD #2</u> MAY31 1991 |
| OIL CON DIV |

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

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

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

WELL CASING CATHODIC PROTECTION CONSTRUCTION REPORT

| Completion Date State Date State Date Date State Date State Date State Date State Date State Date State Date Date State Date Date State Date | | | | DAILY LOG | | | | |
|--|-----------------------------|--------------------------|-----------------------------------|------------------|---|--------------|-----------------|-------------|
| Control Cont | Drilling Log (Attach H | (ereto) | | | C | ompletion D | ate 8-29 | 283 |
| Depth Logged Dept | CPS # | Well Name, Line or Plant | | Work Order # | | | | |
| 127-W 35 28-5 1254 184-54284-19 184-54284-1 | | 55 28-5 | #17 | 184-53265-1 | 9 | | 1 - | |
| Depth Depth | | 55 28-5 = | | | | | ☐ ☐ Good | L Bad |
| Sw20-28-5 2" Durling Rig Time Total Use Code Used Lost Circulation Mar's Used No Sada Mod Used | 127-W | | | | | | | |
| Depth Drilled 500 Depth Logged 500 Drilling Rig Time Total Lis Code Used Lost Circulation Mar'l Used No Sacks Mud Used Anode Depth | Location | | | RiPari | Size Bit | 3/11 | | |
| Anode Depth | Depth Dulled | Depth Logged | | | | | No Sacks Mud Us | sed |
| # 1 405 # 2 375 # 3 365 # 4 355 # 5 345 # 6 335 # 7 305 # 8 295 # 9 245 # 10 232 Anded Output (Amps) # 1 3,15 # 2 3 4 # 3 3 3 # 4 3 9 # 5 3 3 # 6 2 8 # 7 3.6 # 8 3 3 # 9 3, 4 # 10 4. Anded Depth # 11 # 12 # 13 # 14 # 15 # 16 # 17 # 18 # 19 # 20 Anded Output (Amps) # 11 # 12 # 13 # 14 # 15 # 16 # 17 # 18 # 19 # 20 Total Circuit Resistance Volts /2,2 Amps /4,5 Ohms : \$4 No. 8 C.P. Cable Used Volts /2,2 Amps /4,5 Ohms : \$4 Remarks: DR1/14R Said hit water 2 & Tlub Did Not get water Sample. INSTALION 500' Of I" Vent P. Pe Performated 400' of Vent P. Pe S/URRIed 5000 # 0f COKe Breeze Set 40' of 8" Casing Rectifier Size: V Addn'l Depth Depth Credit: 5' Ditch & 1 Cable: 130' Signature Signat | | 500 | ,} | | | | | |
| Anode Output (Amps) # 1 3 1 5 # 2 3 4 # 3 3 3 # 4 3 9 # 5 3 3 # 6 2 8 # 7 3 6 # 8 3 3 # 9 3, 4 # 10 4. Anode Depth # 11 | # 1 405 # 2 | 375 3365 | _{#4} 355 _{#5} | 345 46335 | 7 305 | 1 8 295 | 1 245 | # 10 235 |
| Anode Depth | | | 1 | ı | 1 | 1 | | 1 |
| Anode Output (Amps) # 11 # 12 # 13 # 14 # 15 # 16 # 17 # 18 # 19 # 20 Total Circuit Resistance Volts /2, 2 Amps /4. 5 Ohms i 84 No. 8 C.P. Cable Used Remarks: DRI/IER Sa.d h.T water 2T 140 O; Not get ivoter Sample. FNST3/10d 500' of 1" Vent P. Pe Performed 400' of Vent P. Pe S/URRIed 5000 # 0f COKe Breeze Set 40' of 8" Casing Rectifier Size: V Addn'l Depth Depth Credit: Extra Cable: 5' / Ditch & 1 Cable: 130' Mills Languard Amps / Signature) | # 1 3./3 # 2 Anode Depth | J 7 #3 J 3 | # 4 3 / # 5 | 3.) #62.0 | # / J, U | + 3) | † 9 J, 7 | # 10 4, 2 |
| Rectifier Size: V — A Addn'l Depth Depth Credit: Extra Cable: Ditch & 1 Cable: 130' Retail R 19 R 15 R 16 R 17 R 18 R 19 R 19 R 20 No. 8 C.P. Cable Used No. 2 C.P. Cable | | | # 14 # 15 | # 16 | # 17 | # 18 | # 19 | # 20 |
| Total Circuit Resistance Volts /2, 2 Amps / U. 5 Ohms : 84 No. 8 C.P. Cable Used Remarks: DRITTER Said hit water 2T 140 Did Not get water Sample. FNSTATION 500' Of 1" Vent P. Pe Perforated 400 of Vent Pipe. S/URRIED 5000 # Of COKE BREEZE SET 40' Of 8" Casing Rectifier Size: V — A All Construction Completed Depth Credit: 5' Extra Cable: 5' Ditch & 1 Cable: 130' Signapoli | 1 | l | # 14 # 15 | # 16 | # 17 | # 18 | # 19 | # 20 |
| Remarks: DRIVER Said hit water at 140. Did NOT get water Sample. FNSTAVIOR 500. Of 1" VENT P. P. PERFORATED 400. OF VENT PIPE. S/URRIED 5000 # Of COKE BREEZE. SET 40' OS 8" CUSING Rectifier Size: V — A Addn'l Depth — Depth Credit: Extra Cable: 5' Ditch & 1 Cable: 130' SIZEMANDER OF WATER STAMPLE. Ditch & 1 Cable: 130' SIZEMANDER OF WATER STAMPLE. Ditch & 1 Cable: 130' SIZEMANDER OF WATER STAMPLE. Did Not For Water Sample. All Construction Completed William January Janua | Total Circuit Resist | ance | | No. 8 C.P. (| Cable Used | | No. 2 C.P. Ca | ble Used |
| Rectifier Size:VA Addn'l Depth Ditch & 1 Cable: 130' | Volts /2, 2 | Amps / 41.5 | Ohms : 0 | 7 | | | | |
| Rectifier Size: V — A Addn'l Depth — — — — — — — — — — — — — — — — — — — | Remarks: DR111 | er Said hit | WATER 2 | T 140 0; | dNOT9 | et ivo | Ter Sa | mPle. |
| Rectifier Size: V — A Addn'l Depth — — — — — — — — — — — — — — — — — — — | FNST2110d | 500' 04 1" | VENT P.P | e Perfor | ated W | 00, 04 | VENT | Pipe. |
| Rectifier Size: V — A Addn'l Depth — — — — — — — — — — — — — — — — — — — | _ | | | , | | | | |
| Addn'l Depth | 3 / UK K, CQ | 0000 | + (0/4 | DKIL | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | <u> </u> | <u>C</u> 33170 | |
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| Depth Credit: Extra Cable: Ditch & 1 Cable: (Signature) | | | A | | | All Construc | ction Complete | ·d |
| Extra Cable: 5 Ditch & 1 Cable: 130' (Signature) | | | | | | 7200 000000 | i | _ |
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| 10' Stub Pole: | | | | | | | | |
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EL PASO NATURAL GAS COMPANY

DRILLING DEPARTMENT

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| Driller | | | Total Men In | Crew | Driller | | | Total Men In | Crew | | Driller | | | | Total Men In Crew | | | | | | |
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| MUD | RECORE |) | MUD, ADDITIVES USED | AND RECEIVED | мир | RECORD | | MUD, ADDITIVES USED A | ND RECE | IVED | MUD | RECOR | D | м | UD, ADDITIVES USE | D AND RECEI | VED | | | | |
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| | | | | | | | | | | | 'ompany Super | | Dist | n A | m.TC | | | | | | |
| | | | § . | SIGN | ED: Toolpush | her | | | | (| Company Super | V1 SOF | /U/ | | | | | | | | |

El Paso Natural Gas Company ENGINEFRING CALCULATION SHEET 53265-19-50-20-63 ST 28-5# 54 Sw 20.28-5 184-54254-19-50-20-62 DRIVER Sold hit water at DID NOT get water sample. INSTAMPED 500' OF 1" VENT P. Pe. Perorated 400. of Vent Pipe. Storkied 5000 /bs. Of COKE BREEZE, SET 40 of 8" ソンゴン ヘューシ ひゅ 3 hes Casing 405 305 305 305 305 909000000 00000000 0 h

4913

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

| Operator MERIDIAN OIL Location: Unit B S | ec.20 Twp 28 Rng 5 |
|--|---------------------|
| Name of Well/Wells or Pipeline Serviced SAN JUAN 28-5 UN | NIT #14, #63 |
| | cps 726w |
| Elevation 6729 Completion Date 8/3/88 Total Depth 400' | Land Type* N/A |
| Casing, Sizes, Types & Depths N/A | |
| | |
| If Casing is cemented, show amounts & types used N/A | |
| If Cement or Bentonite Plugs have been placed, show dep | ths & amounts used |
| L/L | ater when possible: |
| Depths gas encountered: N/A OIL CO | · • |
| Type & amount of coke breeze used: N/A DIS | T. 3 |
| Depths anodes placed: 340', 330', 320', 310', 245', 190', 180' | , 165', 155', 150' |
| Depths vent pipes placed: 405' OF 1" PVC VENT PIPE | |
| Vent pipe perforations: BOTTOM 280' | |
| Remarks: <u>Cgb #2</u> | |

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

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

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

WELL CASING CATHODIC PROTECTION CONSTRUCTION REPORT

Resbill

| Drilling Log (Attach Hen | ereto) 🔣 | | | Cong 8- | 255 255 | Completion | Date <u>8-3-6</u> | <u>98</u> |
|-------------------------------------|----------------------------------|--|------------------|----------------------|--|----------------------|----------------------|--------------------|
| CPS # | Well Name, Line or Plant: | | W or | rk Order # | Static: | | Ins. Union Check | .k |
| | | 3 | | B 20-28- | | 069 (A 2 | Ø Good | d 🗆 Bad |
| 726W | 1 1 1 11 | 14 | H | 120-28-5 | - - - - | 9696A - | | |
| Location: | Anode Size: | Anode Typ | /pe: | <u> </u> | Size Bit: | 911 | | |
| 8 20-28-5 | 2" × 60 | T . | | KON | 23 | | | - |
| Depth Drilled | Depth Logged | Drilling Rig Time | æ | Total Lbs. Goke Used | Lost City | rculation Mat'l Used | No. Sacks Mud I | Used |
| Anode Depth | | - | | 1 | | | | <u> </u> |
| #1340 #23 | 330 #3 <i>320</i> | # 43/0 | # 5 24. | 5 = 6 190 | 7 18 | 30 18 16: | 5 49 155 | # 10/50 |
| Anode Output (Amps) | | 1 | # 5 <i>if.</i> E | 8 4.8 | - - | 1 | 4 | i . |
| # 1 5 0 # 2 5 Anode Depth | 5.5 #35.7 | # 45-4 | # 5 70 € | 5 7.0 | #/3. | 7 1 8 4.5 | 5 711 | * 10 <i>5,5</i> |
| # 11 # 12 | # 13 | # 14 | # 15 | ¦# 16 | # 17 | # 18 | # 19 | # 20 |
| Anode Output (Amps) | | | ı | l . | ! | | ! | ! |
| # 11 # 12 | 1# 13 | # 14 | ¦# 15 | # 16 No. 8 C.P. C | # 17 Cable Used | # 18 | # 19 No. 2 C.P. C | # 20 Cable Used |
| Total Circuit Resistan Volts //. 79 | Amps 23.8 | Ohms | .49 | No. 6 C | (apre name) | | NO. 2 | apie Osea |
| 70113 | 1 | • 1 1 | . 1 | | | | | |
| Remarks: <i>Hol</i> e | must dru | Illed u | Hth_ | must, s | Samp | let Stor | w suat | tex_ |
| In he | n & 110' | I iln | | Italload | 11/1 | 20 11 D | VC New | • |
| 10 | ottom 280 | <u> </u> | vateo | A | 01 CD | | 1 | 1 |
| | | B 4074 | 4,00 | | | | | |
| Rectifier Size: | 18 3.50 125 6.10 -2- -6 | 1-402.5 2.4 294.5 294.5 4196. 209.6 | GROUND BI | ED LAYOUT SKE | | Som (| Signature) #1 | ed |
| | | 4400-V | per ve- | | | new a | - ruet | *14 ** |

726W

D. Crass DRILLING CO.

Drill No. 3

| | DRILLER'S WELL LOG | | | | | | | | | | | | |
|---------------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|
| S. P. No. | S. P. No. Son Juan 28-5 463 Date 8-3-88 | | | | | | | | | | | | |
| Client Meridian Oil Co Prospect | | | | | | | | | | | | | |
| County_ | 20 F | Preiba State New Mex | | | | | | | | | | | |
| If hole is o | redrill or i | if moved from original staked position show distance | | | | | | | | | | | |
| and direct | ion moved | : | | | | | | | | | | | |
| FROM | TO | FORMATION — COLOR — HARDNESS | | | | | | | | | | | |
| 0 | 10 | SAND | | | | | | | | | | | |
| 10 | 30 | Shale | | | | | | | | | | | |
| 30 | 65 | SANdstore | | | | | | | | | | | |
| 65 | 95 | Shale | | | | | | | | | | | |
| 95 | 115 | SAND | | | | | | | | | | | |
| 115 | 130 | SANdstone | | | | | | | | | | | |
| 130 | 200 | Shple | | | | | | | | | | | |
| 200 | 235 | SANdstore | | | | | | | | | | | |
| 235 | 275 | Shale | | | | | | | | | | | |
| 2 7 5 | 300 | SAND | | | | | | | | | | | |
| 300 | 355 | Shale | | | | | | | | | | | |
| 355 | 380 | SANdstone | | | | | | | | | | | |
| 380 | 400 | Shale Brom Lime | | | | | | | | | | | |
| Mud. | | Make | | | | | | | | | | | |
| Hock Bit I | Number | er @ 110' | | | | | | | | | | | |
| Remarks: | WAT | er & 110 | | | | | | | | | | | |
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| | Dr | iller Pouvie Brown | | | | | | | | | | | |

Received by OCD: 9/20/2023 12:25:17 PM

Page 109 of 181

14A-30.039-22205 54E-30-039-23813

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. 20 Twp 28 Rng 5 |
|--|
| Name of Well/Wells or Pipeline Serviced SAN JUAN 28-5 UNIT #14A, #54E |
| cps 1598w |
| Elevation 6637 Completion Date 7/13/81 Total Depth 425 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. 150' SAMPLE TAKEN |
| 7 |
| Depths gas encountered: HOLE MAKING GAS |
| Type & amount of coke breeze used: 3500 lbs. |
| Depths anodes placed: 395', 385', 375', 365', 350', 340', 280', 270', 210', 200' |
| Depths vent pipes placed: 420' DEGEIVE C |
| Vent pipe perforations: 280' MAY 3 1 1991 |
| Remarks: gb #1 HOLE CAVED AFTER #8 ANODE COKED. 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.

Form 7-238 (Rev. 11-71)

WELL CASING CATHODIC PROTECTION CONSTRUCTION REPORT DAILY LOG

| Drilling Log (Attach Hereto). | | | Co | ompletion Dat | e <u>/-13</u> | -81 |
|--|-------------------|------------------------|---|---------------------|--|-------------------|
| 5. J. 28-5 # 14 A SUE | NW-20 | -28-5 | | CPS No. 159 | 8 W | |
| Type & Size Bit Used 6 3/4 Rock | | 2"x 60" | Duriron | Work Order 1 5 79 2 | No. 03-21-57 | 7-20 |
| Anode Hole Depth 425 Logge 4421 Total Drilling Rig Time | Total Lbs. Coke U | | ulation Mat'l Us | ed No. Sacks M | fud Used | |
| # 1395 # 2385 # 3375 # 43 | 65 = 350 | # 6 34D | = 7280 | = 8270 | # 9210 | # 10 20 C |
| # 1 3 . 0 # 2 2.8 # 3 3.4 # 4 3 | .3 \$ 2.7 | # 6 3. D | #-7-2.6 | = 2.4 | # 92.9 | # 104.6 |
| Anode Depth # 12 # 13 # 14 | ≠ 15 | # 16 | # 17 | # 18 | # 19 | # 20 |
| Anode Output (Amps) # 11 # 12 # 13 | # 15 | # 16 No. 8 C.P. Cat | ≠ 17 | ‡ 18 | # 19 No. 2 C.P. Ca | # 20 |
| Total Circuit Resistance Volts 2.4 Amps 17.9 Oh | ms .69 | No. 8 C.P. Car | ere Osed | | 100. 2 C.P. Ca | ble Used |
| Remarks: Static 9/5 6005 = . | 85 1300mA | + un | IIDN= OK | | | |
| Driller SAID WATER A | T 150 FT | Drille | 1011 | 0F+ 7- | 10-81 he | .Ft o pen |
| Over weekend CAught | | | | | | 125 |
| Logged 421. Total v | upler app | rox 26 | PM. GR | MAKIN | s bas. | INST. |
| 420 VENTPIPE @280 PET | F. Holeca | rued AF | ter#8 | Anode | cokedi | #9×10 |
| Stuckinhole, Blew out | bridge | with A | air th | en Fin | vished | coking |
| Hole depth = 19, | • | | α | All Constru | ction Complete | . ·: ≥d |
| Extra cable=156 Ditch &cable=363 | | | | 5/16 | /. | г. У "— |
| Stub Pole | 6-6-WID D-5- | | Jam | N J Jan | gnature) | |
| 40016A RECT | GROUND BED | LAYOUT SKEI | CH / | 1 | ر آن ا الله الله الله الله الله الله الله ال | |
| 1 Reg. 10.T. | | | # | | | |
| 7-13 8 3 | | • | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | ', ' | 1 | |
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| | K | -22 | 7' | - A | | |
| DISTRIBUTION: WHITE — Division Corrosion Office | | | | K | · · · · · · · · · · · · · · · · · · · | |
| YELLOW - Area Corrosion Office | . — | | | , , | e de la companya de l | in a state of the |
| PINK - Originator File uo | > (| a Mercani | | | | |

1598W S.J. 28-5#14A NW20-28-5 57923-21-50-20

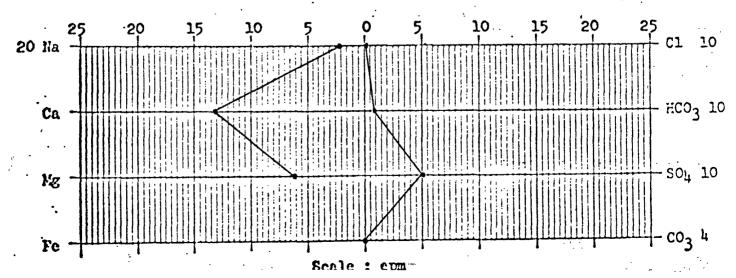
| MW | ga | is/mol |
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| 16 04 | C1 | 6 4 |
| 30 07 | C ₂ | 10 12 |
| 44 10 | Сз | 10 42 |
| 58 12 | ıC4 | 12.38 |
| 58 12 | nC4 | 11 93 |
| 72 15 | 1C5 | 13 85 |
| 72 15 | nC5 | 13 71 |
| 86 18 | ιСε | 15 50 |
| 86 18 | C ₆ | 15 57 |
| 100 21 | 1C7 | 17 2 |
| 100 21 | C ₇ | 17 46 |
| 114 23 | C8 | 19 39 |
| 28 05 | C2 [:] | 9 64 |
| 42 08 | C3 [:] | 9 67 |

| 3+AT | 1 C G/Sho S = 185 | 1300m A | 6N/ON = OK |
|-------|--|---------|---|
| 150 | 10FT=.72 | 10 - 1 | Driller Said WATER AT 150 FT Drilled |
| 1 1 0 | 8 | 1,1 | 160 LEFT For weekend caught water |
| 60 | 8 40 | 12-6 | SAMPLE monday AM. Drilled to |
| | 1.2 | 1.3 | 425FT WAIR +NATERING. Losged |
| 70 | 1.7 50 | 1,2=5 | 421FT TOTAL WATER 2 GPM |
| 380 | 1.6 60 | 1,0 | GB MAKINS GAS INST420FT VENT Pipe |
| 100 | 1.9 | 1,3-4 | WITH 280 FT DONE |
| 90 | 1.9 70 | 1.3 | Hole cared Aftep#8 |
| | 7.9 | 1.3 - 3 | coked 9 + B Stuck BLew |
| 200 | 19-10 30 | 13-12 | hole clean with AIR |
| 10 | 14-9 90 | 13-12 | Finished cokinshole |
| 1 | 17 17 17 17 17 17 17 17 17 17 17 17 17 1 | 13-1 | |
| 20 | 3 400 | 1.0 | |
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| 70 | 10-8 | | (3) |
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| 80 | 1.1-7 | | ©350-16-3-2.7 |
| | 9 | | (0)340 + 18 - 3.0 |
| 90 | .3 | | 8270-14-5204 |
| 300 | 1,3 | | 19/2/0-2.0-2.9 |
| | ,5 | | (10) 200 - 3 4 - 9.6 |
| 10 | ,3 | | |
| 2.20 | .3 | | 12.4 V@17.9 A=690 hm 5 |
| 20 | 3 | | |

EL PASO NATURAL GAS COMPANY SAN JUAN DIVISION FARMINGTON, NEW MEXICO

PRODUCTION DEPARTMENT WATER ANALYSIS

| Analysis No. 1-10271 | Date 7-28-81 | |
|---|----------------------------|------------|
| Operator El Paso Natural Gas | Well Name S.J. 28-5 #14A | CPS 4598 W |
| Location NW 20-28-5 | County Rio Arriba State Ne | w Mexico |
| Field Blanco | Formation_ | |
| Sampled From 150 ft. | | |
| Date Sampled 7-13-81 | By Robert J. Babnick | |
| Tbg. Press Csg | Surface Csg. Press | |
| ppm epm Sodium 968 42.1 | · ppm | epm 1.7 |
| Calcium 262 13.1 | Bicarbonate 539 | 8.8 |
| Magnesium 74 6.1 | Sulfate 2440 | 50.8 |
| Iron Absent | Carbonate 0 | _0 |
| H ₂ S Absent | Hydroxide 0 | 0 |
| cc: R. A. Ullrich E. R. Paulek | Total Solids Dissolved 3,8 | 54 |
| J: W. McCarthy | pH 7.5 | |
| J. D. Evans W. B. Shropshire | Sp. Gr. 1.0054 At | 60 o F |
| D. C. Adams File | Resistivity 211 ohm-cm a | t |
| | Debbie Devetalme | PZE. |



Form 22-2 (Rev 5-79)

EL PASO NATURAL GAS COMPANY

| · · · · · · · · · · · · · · · · · · · | SIGNED: Toolbusher | | Mobile AZI | | E got per pour | 4 | 1) CB 150 | REMARKS - REMARKS | | | | | FROM TO TIME BREAKDOWN FROM | | | | V ₁ s, | MUD RECORD MUD, ADDITIVES USED AND RECEIVED | | DOWN ON KELLY | ZE SINGLES | NO. STANDS | SIZE | NO. DC SIZE LENG. | 5 205 54 | 156 | | 0 10 03 205 | FROM TO FORMATION WT-BIT R.P.M. FROM | Driller Total Men In Crew Driller | MORNING | LEASE WELL NO. CONTRACTOR | 159810 ST28-5 H 14F |
|---------------------------------------|--|--|------------|--|----------------|--|-----------|-------------------|--|----|--|--|-----------------------------|---|--|---|-------------------|---|-------------|---------------|--|------------|-------------|-------------------|----------|--|-----|-------------|--------------------------------------|-----------------------------------|---------------|---------------------------|-----------------------|
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| | their | | | | | Ada, reference and an extension of the second secon | | | | | | The second secon | TIME BREAKDOWN | | A TOTAL CONTRACTOR OF THE CONT | | | MUD, ADDITIVES USED AND RECEIVED | TOTAL DEPTH | DOWN ON KELLY | SINGLES | STA | NO. DC SIZE | z O | 5h 4/3.5 | 3 | 54 | 55 W/5/n | FORMATION | Total Men In Crew | C | & rilliam RIC | , |
| | ಭ | | | | | | | | | | | | 4 | • | | | | ID RECEIVED | | | No. & Addition Co. Co. Co. Co. Co. Co. Co. Co. Co. Co. | | LENG. | LENG. | | : | | | WT-BIT R.P.M. | rew | | RIG NO. | |
| Confessor A Confessor and | Company Supervisor | | | | | | | REMARKS - | | | | | FROM | | | | Time | MUD RECORD | MAKE | TYPE | SIZE | SERIAL NO. | BIT NO. | | | | 405 | 395 | FROM | Driller | | REPORT NO. | |
| | ĭ | | | - | | | | | | | | | ТО | | | ļ | Wt. Vis. | CORD | | | | | | | | | 425 | 405 | то | | Е | T NO. | |
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| | | | | | | | | | | 47 | | | | | | | | AND RECEIVED | | | | | LENG. | L MNO | | 10000000000000000000000000000000000000 | | | -ВІТ, | W | 1000 人名 人名英格兰 | 1961 | ORT |



30-039-23814

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

| On and have MEDIDIAN OIL INC | 7 |
|--|---|
| Operator MERIDIAN OIL INC. | |
| Name of Well/Wells or Pipeline Service | ed SAN JUAN 28-5 UNIT #63E |
| | cps 1886w |
| Elevation6776' Completion Date 6/26/87 | Total Depth 400' Land Type* N/A |
| Casing, Sizes, Types & Depths | N/A |
| | |
| If Casing is cemented, show amounts & | types usedN/A |
| | • |
| If Cement or Bentonite Plugs have been | n placed, show depths & amounts used |
| N/A | |
| Depths & thickness of water zones with Fresh, Clear, Salty, Sulphur, Etc | |
| Depths gas encountered: N/A | |
| Type & amount of coke breeze used: | N/A |
| Depths anodes placed: 350', 340', 330', 32 | 20', 310', 270', 255', 230', 220', 200' |
| Depths vent pipes placed: N/A | |
| Vent pipe perforations: 270' | BECEIAEU |
| Remarks: (gb #1) | MAY 3 1 1991. |
| | DIL 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.

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P: 0: BGX:) 359: PHGNE 334-6141 :: AZTEC: NEW MEXICO 87410 :: DEEP WELL GROUNDSED LOG:

Mer Don Only

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BURGE CORROSION SYSTEMS, INC.

005: 1886 CC

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

| COMPANY | Meridian 011 | DAILY DRILLING REPORT June 2 |
|--|---------------------------------------|---------------------------------------|
| A THE THANK | | WELLNUMBER - SECTION: TOWNSHIP: RANGE |
| | | |
| | STATES AT COMMENT | FEET HOLE MADE |
| : 150° | #200 5 | 400' TD DESCRIPTION OF FORMATION |
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Driate Confessor

756

22 - 30-039-07360 67-30-039-20026

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. 21 Twp 28 Rng 5 |
|--|--|
| Name of Well/Wells or Pipeline Service | edSAN_JUAN_28-5_UNIT_#67, #22 |
| | cps 1066w |
| Elevation 6654 Completion Date 10/6/76 | _Total Depth 453' 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 | n placed, show depths & amounts used |
| Depths & thickness of water zones wit Fresh, Clear, Salty, Sulphur, Etc. | h description of water when possible: 200' |
| Depths gas encountered: N/A | |
| Type & amount of coke breeze used: | 45 SACKS |
| Depths anodes placed: 415', 350', 340', | 305', 295', 260', 250', 240', 230', 220' |
| Depths vent pipes placed: N/A | n Borin. |
| Vent pipe perforations: 269' | Werelbeu |
| Remarks: gb #1 | MAY31/1991 |
| | OIL'CON. DIV. |

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

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

A 18 1 . . .

WELL CASING

CATHODIC PROTECTION CONSTRUCTION REPORT

LOGGED Completion Date <u>10</u>-6-76

Drilling Log (Attach Hereto).

| Well Name | 28-5 | #67 \$ 4 | /22 5 | w 21 | 28-5 | | CPS No. | 166W | 1 |
|-------------------------------|---------------|------------------|-----------|------------------|---------------|-------------------|-----------------|----------------|------------------|
| Гуре & Sıze | Bit Used | 14 | | | | | Work Order | | 3215 |
| Alode Hole | Depth 3 | Total Drilling R | g Time To | otal Lbs./Coke/J | sed Lost Cire | culation Mat'l Us | sed No. Sacks N | | |
| Anode Oepth # 1 4/5 | # 2 35 | 0 #3340 | # 4305 | # 5 295 | # 6260 | # 7 250 | # 8 Z 40 | # 9 Z30 | # 10226 |
| Anode Sutput | # 23. 8 | 3.4 | # 43.9 | # 54.4 | # 63.3 | # 7 3.9 | * 8 4.8 | #94.6 | # 10 4 /C |
| Anode Depth | 1 | 1 | | 1 | 1 | 1 | | - | 1 |
| <i>‡</i> 11 | # 12 | # 13 | # 14 | # 15 | # 16 | # 17 | # 18 | # 19 | # 20 |
| Anode Outpu | t (Amps) | | | | | | | | 1 |
| <i>‡</i> 11 | # 12 | # 13 | # 14 | # 15 | # 16 | # 17 | # 18 | # 19 | ¦# 20 |
| Total Circui | t Resistance | Amps 18.2 | Ohms | 1.64 | No. 8 C.P. Ca | ble Used | | No. 2 C.P. Ca | ble Used |

Remarks; Dr. 11c1 Sa, & Blew Myd out af 140 - Blew water out ot 200. Startinjection - Drill to 460'

Vent Perforated 269' Slurry 45 Sacks Cokes

\$ 2,248.50 nstruction Completed 494.40 DEPTh 170.00 Anode 132.00 Anode LEAD WITE 194.50 RECT #67 GROUND BED LAYOUT SKETCH 3,239.40 129.57 TAX 213, 40 Insp. 50, 00 Misc. 3,632,37 Rect. Tr. 4 400p. ginal & 1 Copy All Reports

Page 111 of 181
Sheet ______oi___
Date: _____
By: _____
File: _____

| 1066W | Sw21-28-5 | - 51.28-5 | #678#22 |
|-------|-----------|-----------|---------|
|-------|-----------|-----------|---------|

| MW | ga | ls/mol |
|--------|-----------------|--------|
| 16.04 | C ₁ | 6.4 |
| 30.07 | C2 | 10.12 |
| 44.10 | Сз | 10.42 |
| 58.12 | iC4 | 12.38 |
| 58.12 | nC4 | 11.93 |
| 72.15 | ıC5 | 13.85 |
| 72.15 | nC5 | 13.71 |
| 86 18 | iC6 | 15.50 |
| 86.18 | C ₆ | 15.57 |
| 100.21 | iC7 | -17.2 |
| 100.21 | C7 | 17.46 |
| 114.23 | Cg | 19.39 |
| 28.05 | C2 | 9 64 |
| 42.08 | C3 [:] | 9.67 |

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| 40 70 1,2 80 1,4 60 1,2 1,6 90 1,0 1,6 1,0 1,6 1,0 1,6 1,0 1,5 1,0 1,0 1,0 1,0 1,0 1,0 | 3 | Ø . | | 16 | | , | | | | 1 | | 1 | |
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DAILY DRILLING REPORT

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Page 116 of 181

1200

30-039-23815

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_NW_Sec21 | Twp28 Rng 5 |
|---------------------|---|-------------------|-------------------|----------------|
| Name of Wel | ll/Wells or Pipeline | Serviced SAN | JUAN 28-5 UNIT # | 76M |
| | | | | cps 1888w |
| Elevation <u>66</u> | 07' Completion Date_ | 6/23/87 Total De | pth 400' Land | Type* N/A |
| Casing, Siz | zes, Types & Depths_ | N/A | | |
| If Casing i | is cemented, show am | ounts & types us | edN/A | |
| | or Bentonite Plugs h /A | ave been placed, | show depths & | amounts used |
| | nickness of water zo ar, Salty, Sulphur, | | tion of water | when possible: |
| Depths gas | encountered: | N/A | | |
| Type & amou | ınt of coke breeze u | sed: 4650 11 | os. | |
| Depths anod | des placed: 340', 250', | 210', 200', 190', | 180', 170', 130', | ,120', 110' |
| Depths vent | pipes placed: | 385' | | |
| Vent pipe p | perforations: | 320' | FARIABL | |
| Remarks: <u>(g</u> | b #1 | | MAY31'1991 | |
| | | | 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.

CATHODIC PROTECTION CONSTRUCTION REPORT

Completion Date 196/2016

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Received by OCD: 9/20/2023 12:25:17 PM Pre-onGARD Well > 30-039-07-37 PM ET of 181 ## 76 30-039-20107

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

| Opėrato: | rMERIDIAN OIL | Location: Unit NE Sec. 21 Twp 28 Rng 5 |
|-----------|---------------------------------------|---|
| Name of | Well/Wells or Pipeline S | erviced SAN JUAN 28-5 UNIT #8, #76 |
| | | cps 1124w |
| Elevation | on <u>6636'</u> Completion Date 10/ | 77/77 Total Depth 400' Land Type* N/A |
| Casing, | Sizes, Types & Depths | N/A |
| If Casi | ng is cemented, show amou | nts & types used <u>N/A</u> |
| | N/A | e been placed, show depths & amounts used |
| Depths & | thickness of water zone | MAY 31 1991. |
| Depths o | gas encountered: N/A | OIL CON. DIV.) |
| Type & a | amount of coke breeze used | d: 50 SACKS |
| Depths a | anodes placed: <u>365', 355', 3</u> 0 | 05', 295', 285', 275', 265', 240', 230', 220' |
| Depths v | vent pipes placed: 380 | O' OF 1" PVC VENT PIPE |
| Vent pip | pe perforations: 280 |)' \ |
| Remarks: | gb #1 | |

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

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

→Form 7-238 (Rev. 11-71)

WELL CASING

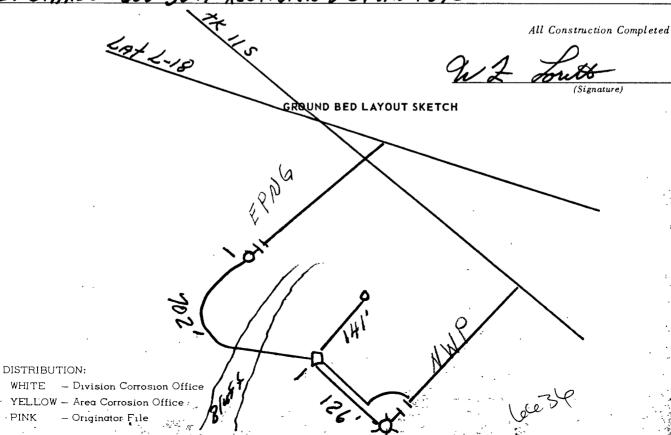
CATHODIC PROTECTION CONSTRUCTION REPORT DAILY LOG

Drilling Log (Attach Hereto).

Completion Date 10-7-77

| Well Name San Jua | m. 28-5 | とかけまる | 6 A | cation 1 E 21 - 28 | - ج | | CPS No. | 24W | |
|--------------------------------|---------------------------------|-------------------|----------------|--------------------------------|---------------|-------------------|------------------|---------------------------|------------------|
| Type & Size E | 6 3/4 | | | _ | | | Work Orde | er No.#85 58 # 76 = 54 | |
| Anode Hole D | epth 400 3 8 9 | Total Drilling Ri | g Time | Total Lbs. Coke U 50 | sed Lost Cire | culation Mat'i Us | sed No. Sacks | s Mud Used | |
| Anode Depth # 1 365 | # 2 355 | # 3 305 | # 4295 | # 5 2 85 | = 6 2 75 | # 7 265 | # 8 240 | = 9 230 | # 10 22 C |
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| Anode Depth # 11 | # 12 | # 13 | # 14 | ¦# 15 | # 16 | # 17 | # 18 | # 19 | # 20 |
| Anode Output # 11 | (Amps) | # 13 | # 14 | # 15 | # 16 | # 17 | ! ! ! ? 18 | # 19 | # 20 · |
| Total Circuit | ! | mps 15.9 | Ohms | 0.67 | No. 8 C.P. Ca | ble Used | | No. 2 C.P. C | able Used |

Remarks: 5+A+ic #8 600' S.W. = 0.78, S+A+ic #76 600 W = 0.72 Installed 10-2"x2" x 48" GRAphite Anodes. DRiller SAIL MAKING WATER @ 180'. DRilled to 200' Next AM blew water. Perferated 28000: 1" PVC Vent Pipe. Installed 380 'of I"PVC Vent Pipe, Slurryed 50 SACKS OF COKE. # 76 MARKED INOTEL & #8 MARKEL 3 Notches. Installed 600 30 A Rectifier & Stub Pole



DISTRIBUTION:

El Paso Natural Gas Company ENGINEERING CALCULATION

| Pa | ige 119 of 181 |
|--------|----------------|
| Sheet: | of |
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| By: | |
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| | SAN JUAN DE SAN JUAN DE | 7-5 Nach 1-5 7-5 | # 8 | NE 2, | 1-28. | -5 | 1124 w | · · · · · · · · · · · · · · · · · · · | 5257 5455 | • | |
|--|---|--|---|-----------------|----------|--|--------------|---------------------------------------|---------------|-------------------------------|--|
| | Static #8 6 | | | | | | DRILLER | 5412 | MAKING WAL | e RJ 190 | 1 : |
| | STATIC = 76 6 | | | | | | DRilled | to 200 | rext Any bo | lowWA | Len |
| | 10-2"x2"x 48" | GRAPHITE | ם טית רו | 85 | | | Perfer. | gted it | 10 0 5 1" PVC | Vent | ورور |
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DRILLING DEPARTMENT

DAILY DRILLING REPORT

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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 NE Sec. 22 Twp 28 Rng 5 |
|---|--|
| Name of Well/Wells or Pipeline Servi | .cedSAN_JUAN_28-5_UNIT_#30_#87 |
| | cps 1125w |
| Elevation 6684' Completion Date 10/5/77 | Total Depth 240' 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 |
| | th description of water when possible: |
| Depths gas encountered: N/A | |
| Type & amount of coke breeze used: | 36 SACKS |
| Depths anodes placed: 210', 170', 140', | 130', 120', 100', 90' |
| Depths vent pipes placed: 215' | megel v bu |
| Vent pipe perforations: 180' | MIN 31 1991. |
| Remarks: gb #2 | - Committee of the comm |
| | 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.

WELL CASING

OTECTION CONSTRUCTION REPORT

Drilling Log (Attach Hereto).

Completion Date De75-197

| *- | · [] | | | | | | / / | |
|--------------------------|-------------------------|----------------|------------------|----------------|------------------|------------------------|------------------|-----------------|
| 5.1, 28-5A | 1-308#8 | | VE 22-2 | 28-5 | | CPS No. | 25 W | |
| Type & Size Bit Used | 3/4 | | | | | Work Order 5354 | No. 45:19 & E | 74986. |
| Anode Hole Depth | Total Drilling R | ig Time To | otal Lbs. Coke U | sed Lost Circ | culation Mat'l U | sed No. Sacks | Mud Used / | |
| Anode Depth | | | | 1 | 1 | 1 | - | T 3523 201 |
| # 1 255 # 2 24 | 0: #3230. | # 4 210 | # 5 170 | = 6/40 | #7/30m | #8/20 | #91002 | # 10 90 |
| Anode Output (Amps) | | | | | | | 1 | 1967 |
| #1 3.1 #2 3. | 8 # 3 3.3 | # 4 3.3 | ± 5 3.3 - | # 6 3.0 | #-7-4.8 | ** 4·3 | # 9 3:4 | #:10 3.0 |
| Anode Depth | , | 1 | | 1 | 1 | | 1 | 7 |
| # 11 # 12 | # 13 | # 14 | # 15 | # 16 | # 17 | # 18 | # 19 | # 20 " |
| Anode Output (Amps) | 1 | ı | | | 1 | | | 1 1 |
| # 11 # 12 | # 13 | l # 14 | # 15 | # 16 | ≠ 17 | ‡ 18 | # 19 | # 20 |
| Total Circuit Resistance | 61 . s | | | No. 8 C.P. Ca | ble Used | | No. 2 C.P. Co | ible Used |
| Volts // 7 | Amps: 17.3 | Ohms | 0.67 | | | | | |

Remarks: STATIC #30, 600 N=.70 # 87, 600 NE = 73 (JEAPHITE HNO DE DRILL TO 300 Log 290 - HOLE CAVED AFTER 3 ANODES PESPONDES PRICL NEW HOLE TO 240 LOG 233 - INSTACCE D TANADES Vent to HOLEHI TOZGO PERF. 200 - HOLEHZ TO ZIS PERFISO

DRILLER SAID WATER AT BO'EACH HOLE

JUNCTION BOX ON HOLE #1 SLURRY 56 COKCIN HOLE #

60-30 RECT. STUB POLE

All Construction Completed

GB

ANODES

WHITE - Division Corrosion, Office

YELLOW - Area Corrosion Office

| Page | 123 of | 181 |
|--------|--------|-----|
| Sheet: | of | |
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| Date: | |
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| By: | |
| File: | |

| MW | · OB | ils/mol |
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| 58.12 | - iC4 | 12.38 |
| 58.12 | nC4 | 11.93 |
| 72.15 | iC5 | 13.85 |
| 72.15 | nC5 | 13.71 |
| 86.18 | ıC6 | 15.50 |
| 86.18 | C6 | 15.57 |
| 100.21 | ıC7 | 17.2 |
| 100.21 | C7 | 17.46 |
| 114 23 | Св | 19.39 |
| 28.05 | C2 ² | 9.64 |
| 42.08 | C3º | 9.67 |

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CO₂ 638

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DALLY DRILLING REPORT

| LEASE | WEI | LL NO, | 5 CEON | TRACTO | Po: | sey I | انع | ling Co | RIG | NO. | | REP | ORT NO | | | ATE Sept 3 | 0 | 1977 | | | | |
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El Paso Natural Gas Company ENGINEERING CALCULATION

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Form 22-2 (Rev. 1-61)

EL PASO NATURAL GAS COMPANY DRILLING DEPARTMENT

| | |) | | | REPORT |
|---------------|----------------------------------|--------------------|----------------------------------|-----------------------|----------------------------------|
| LEASE | WELL NO. 125 CON | CONTRACTOR POEY | DAYLIGHT Co. RIG NO. | KETOKT NO. | EVENING DATE OCT 5 19 1 |
| Driller | Total Men In Crew | | Total Men in Crew | Driller | Total Men In Crews 등을 보는 |
| FROM TO | FORMATION WT-BIT R.P.M. | FROM TO | FORM | FROM TO | FORMATION WT BIT R.P.M. |
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| SERI NO. | STANDS | SERIAL NO. | STANDS | SERIAL NO. | , |
| | SINGLES | SIZE 67/8 | SINGLES | SIZE | 7.7. |
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| i - | SIGN | SIGNED: Toolpusher | | Company Supervisor \$ | |



30-039-23729

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

| Operator MERIDIAN OIL INC. Location: Unit D Sec. 22 Twp 28 Rng 5 |
|---|
| Name of Well/Wells or Pipeline Serviced SAN JUAN 28-5 UNIT #30A |
| cps 1883w |
| Elevation 6682' Completion Date 6/23/87 Total Depth 280' 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. 50' SAMPLE TAKEN |
| Depths gas encountered: N/A |
| Type & amount of coke breeze used: N/A |
| Depths anodes placed: 225', 215', 205', 195', 185', 175', 160', 150', 140', 120' |
| Depths vent pipes placed: 273' |
| Vent pipe perforations: 240' |
| Remarks: <u>Gb.#1</u> MAY8171991 |
| OIL CON. DIV |
| DIŞT, 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)

CATHODIC PROTECTION CONSTRUCTION REPORT

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| • , | | | | | | Y LOG | | | | 73 ym |
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| Drilling Log (Attach i | Hereto) | | | | no de | a Indo as | 55001 C | Completion I | Date 6 - x | 23-87 |
| CP\$ # | Well No | ame, Line or Plant: | | , | √/) Work Ord | | | | Ins. Union Check | |
| | | 1. 28-5 | # 30 | OA | A | | Static: | .5 | | |
| 1883W 1890-W | - | <i>y.</i> ~ 0 _ 0 | | | ,, | 0,-4 | 1/2 | | Good . | ☐ Badd∉ |
| Location | | Anode Size. | A | Anode Type: | L | | Size Bit: | " | | |
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| Depth Drilled | Dept | th Logged | Drilling | Rig Time | Tota | il Lbs Goke Used | Lost Circulation | on Mat'l Used | No Sacks Mud I | Used |
| 280' Anode Depth | | | | | | / ! | | | | |
| # 1.225 # 2 Anode Output (Amp | 215 | # 3 205 | #4 / | 95 = 5 | 185 | # 6 175 | #7/60 | ±8 150 | #9 140 | # 10 120 |
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| Anode Depth | | | 1 | t I | | # 16 | # 17 | ¦ # 18 | # 19 | ! !# 20 |
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BURG CORROSION SYSTEMS DE

P.O. BOX 1359 PHONE 334 6141 AZTEC: NEW MEXICO 87410 DEEP WELL GROUNDBED LOG

Date 6 23 = 87

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BURGE CORROSION SYSTEMS, INC

CPS 1883 W

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

| | | | Y DRILLI <mark>NG REPOR</mark> | June 23 | |
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| WELL NAME: | | WELL NUMBER: | SECTION: | TOWNSHIP: | RANGE: |
| San Juan 28-5 | | #30-A | 22 | 28 | 5 |
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API WATER ANALYSIS REPORT FORM

| Company Meridian | Oil Co. | Sample No. | Date Sampled |
|--------------------------|-----------------------------|----------------------|--|
| Field Gobernador | Legal Description - 5 | Sunty or Pari | ish State |
| Lease or Unit | Well S. J. 28-5 #30A | Depth 50 Romation de | Water, B/D |
| Type of Water (Produced, | Supply, etc.) Sampling Po | int B | Sampled By $\widehat{J}.\mathcal{E}$. |

DISSOLVED SOLIDS

| CATIONS Sodium, Na (calc.) Calcium, Ca | mg/l 214 | me/l 9.3 |
|--|-------------|-------------|
| Magnesium, Mg Barium, Ba | | <u> </u> |
| | | |

OTHER PROPERTIES

| pH Specific Gravity, 60/60 F. Resistivity (ohm-meters) 70° F. | 9.34 1.0045 13.4 |
|---|------------------------|
| | |
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| | |

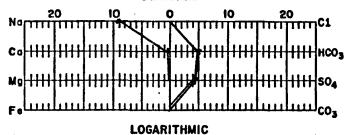
ANIONS

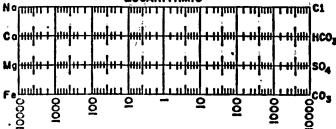
| Chloride, Cl | 0 | |
|---|-----|-----|
| Sulfate, SO ₄ | 210 | 4.3 |
| Carbonate, CO ₃ Bicarbonate, HCO ₃ | 303 | 5.0 |
| Hy Box de | | |
| GY OFFU BY | | |

Total Dissolved Solids (calc.) 729

Iron, Fe (total)
Sulfide, as H₂S

WATER PATTERNS — me/l STANDARD





REMARKS & RECOMMENDATIONS:



APPENDIX C

Executed C-138 Solid Waste Acceptance Forms

District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-138 Revised 08/01/11

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

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

| 1. Generator Name and Address: Enterprise Field Services, LLC, 614 Reilly Ave, Farmington NM 87401 | III SOLID WASIE |
|---|--|
| 2. Originating Site: SJ 28-5 #14 | AFE: N66187 PM: Maron O'Brien Pay Key: RB21200 |
| Location of Material (Street Address, City, State or ULSTR): UL N Section 16 T28 R5W; 36.65679, -107.364700 | MAy 2023 |
| 4. Source and Description of Waste: Source: Hydrocarbon contaminated soil associated with remediation activities from Description: Hydrocarbon contaminated soil associated with remediation activities Estimated Volume 20 yd3 bbls Known Volume (to be entered by the operator at the source of the source) and the source of the | om a natural gas pipeline release. s from a natural gas pipeline release. |
| 5. GENERATOR CERTIFICATION STATEMENT O | F WASTE STATUS |
| I, Thomas Long , representative or authorized agent for Enterprise Products Of Generator Signature certify that according to the Resource Conservation and Recovery Act (RCRA) and the regulatory determination, the above described waste is: (Check the appropriate classific | US Environmental Protection Agency's July 1988 |
| RCRA Exempt: Oil field wastes generated from oil and gas exploration and prexempt waste. Operator Use Only: Waste Acceptance Frequency Monthly | |
| RCRA Non-Exempt: Oil field waste which is non-hazardous that does not excharacteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed I subpart D, as amended. The following documentation is attached to demonstrate the appropriate items) | nazardous waste as defined in 40 CFR, part 261, |
| ☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge | ge |
| GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STA | ATEMENT FOR LANDFARMS |
| I, Thomas Long 5-8-2023, representative for Enterprise Products Operating a Generator Signature the required testing/sign the Generator Waste Testing Certification. | uthorize to complete |
| I, Greg Crabben, representative for Envirotech, Inc. | do hereby certify that |
| representative samples of the oil field waste have been subjected to the paint filter test a have been found to conform to the specific requirements applicable to landfarms pursus of the representative samples are attached to demonstrate the above-described waste co 19.15.36 NMAC. | and tested for chloride content and that the samples ant to Section 15 of 19.15.36 NMAC. The results |
| 5. Transporter: TBD | |
| | ENIED (Must Be Maintained As Permanent Record) |
| 11. 1 | MANAGE DATE: 5/11/23 NO.: 505-632-0615 |

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

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

Santa Fe, NM 87505

Form C-138 Revised 08/01/11

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

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

| 1. Generator Name and Address: Enterprise Field Services, LLC, 614 Reilly Ave, Farmington NM 87401 | CCEI I SOLID WASTE |
|---|--|
| 2. Originating Site: SJ 28-5 #14 | AFE: N66187 PM: Maron O'Brien Pay Key: RB21200 |
| 2. Location of Material (Street Address, City, State or ULSTR): UL N Section 16 T28 R5W; 36.65679, -107.364700 | July / August 2023 |
| 4. Source and Description of Waste: Source: Hydrocarbon contaminated soil associated with remediation activit Description: Hydrocarbon contaminated soil associated with remediation ac Estimated Volume 20 yd3 bbls Known Volume (to be entered by the operation) | ies from a natural gas pipeline release. tivities from a natural gas pipeline release. |
| 5. GENERATOR CERTIFICATION STATEME | NT OF WASTE STATUS |
| I, Thomas Long , representative or authorized agent for Enterprise Prod Generator Signature certify that according to the Resource Conservation and Recovery Act (RCRA) a regulatory determination, the above described waste is: (Check the appropriate c | nd the US Environmental Protection Agency's July 1988 |
| □ RCRA Exempt: Oil field wastes generated from oil and gas exploration exempt waste. Operator Use Only: Waste Acceptance Frequency □ M | |
| RCRA Non-Exempt: Oil field waste which is non-hazardous that does a characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or subpart D, as amended. The following documentation is attached to demons the appropriate items) | listed hazardous waste as defined in 40 CFR, part 261, |
| ☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Kr | nowledge |
| GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION | N STATEMENT FOR LANDFARMS |
| I, Thomas Long 7-11-2023, representative for Enterprise Products Ope Generator Signature the required testing/sign the Generator Waste Testing Certification. | rating authorize to complete |
| I, <u>Gree Crab Free</u> , representative for <u>Envirotech</u> , representative samples of the oil field waste have been subjected to the paint filte have been found to conform to the specific requirements applicable to landfarms of the representative samples are attached to demonstrate the above-described was 19.15.36 NMAC. | er test and tested for chloride content and that the samples pursuant to Section 15 of 19.15.36 NMAC. The results |
| 5. Transporter: TBD | |
| OCD Permitted Surface Waste Management Facility | |
| Name and Facility Permit #: Envirotech, Inc. Soil Remediation Facility * Permit #: NM01-00 Address of Facility: Hill Top, NM Method of Treatment and/or Disposal: Evaporation Injection Treating Plant Lan Waste Acceptance Status: | |
| APPROVED | DENIED (Must Be Maintained As Permanent Record) |
| PRINT NAME: Greg Grabbree TITLE: Ex | nulvo Managen DATE: 7/11/23 |
| SIGNATURE: TELEPH Surface Waste Management Facility Authorized Agent TELEPH | ONE NO.: <u>505-632-0615</u> |



APPENDIX D

Photographic Documentation

Closure Report Enterprise Field Services, LLC San Juan 28-5 #14 (07/10/23) Ensolum Project No. 05A1226239



Photograph 1

Photograph Description: View of the inprocess excavation activities.



Photograph 2

Photograph Description: View of the excavation.



Photograph 3

Photograph Description: View of the site after initial restoration.





APPENDIX E

Regulatory Correspondence

 From:
 Kyle Summers

 To:
 Chad D"Aponti

 Cc:
 Ranee Deechilly

Subject: FW: [EXTERNAL] SJ 28-5 #14 - UL N Section 16 T28 R5W; 36.65679, -107.364700; NMOCD Incident

#nAPP2319233055

Date: Tuesday, August 8, 2023 1:15:54 PM

Attachments: image002.png image004.png

image005.png image006.png



Kyle Summers

Principal 903-821-5603 Ensolum, LLC

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

Sent: Tuesday, August 8, 2023 1:15 PM **To:** Long, Thomas <tjlong@eprod.com>

Subject: Re: [EXTERNAL] SJ 28-5 #14 - UL N Section 16 T28 R5W; 36.65679, -107.364700; NMOCD

Incident #nAPP2319233055

[**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: Tuesday, August 8, 2023 12:53 PM

To: Velez, Nelson, EMNRD < <u>Nelson.Velez@emnrd.nm.gov</u>>

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

Subject: FW: [EXTERNAL] SJ 28-5 #14 - UL N Section 16 T28 R5W; 36.65679, -107.364700; NMOCD

Incident #nAPP2319233055

Nelson,

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 August 9, 2023 at 12:00 a.m. at the <u>SJ 28-5 #14</u> 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



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

Sent: Thursday, July 27, 2023 9:22 AM **To:** Long, Thomas < tilong@eprod.com>

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

Subject: Re: [EXTERNAL] SJ 28-5 #14 - UL N Section 16 T28 R5W; 36.65679, -107.364700; NMOCD

Incident #nAPP2319233055

[Use caution with links/attachments]

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 9:10 AM

To: Velez, Nelson, EMNRD < <u>Nelson.Velez@emnrd.nm.gov</u>>

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

Subject: FW: [EXTERNAL] SJ 28-5 #14 - UL N Section 16 T28 R5W; 36.65679, -107.364700; NMOCD Incident #nAPP2319233055

Nelson,

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 12:00 p.m. at the <u>SJ 28-5 #14</u> 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)
tjlong@eprod.com



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

Sent: Tuesday, July 25, 2023 10:54 AM **To:** Long, Thomas < tilong@eprod.com>

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

Daniell < ldaniell@ensolum.com>

Subject: Re: [EXTERNAL] SJ 28-5 #14 - UL N Section 16 T28 R5W; 36.65679, -107.364700; NMOCD

Incident #nAPP2319233055

[Use caution with links/attachments]

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 | nelson.velez@emnrd.nm.gov

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



From: Long, Thomas <tilong@eprod.com>
Sent: Tuesday, July 25, 2023 10:51 AM

To: Velez, Nelson, EMNRD < <u>Nelson.Velez@emnrd.nm.gov</u>>

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

Daniell < ldaniell@ensolum.com>

Subject: FW: [EXTERNAL] SJ 28-5 #14 - UL N Section 16 T28 R5W; 36.65679, -107.364700; NMOCD

Incident #nAPP2319233055

Nelson,

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 26, 2023 at 10:00 a.m. at the SJ 28-5 #14 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



From: Long, Thomas

Sent: Monday, July 24, 2023 2:57 PM

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

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

Subject: RE: [EXTERNAL] SJ 28-5 #14 - UL N Section 16 T28 R5W; 36.65679, -107.364700; NMOCD

Incident #nAPP2319233055

Nelson,

This email is a notification that Enterprise had a small flash fire at the SJ 28-5 #14 excavation while performing remediation activities. **No one was injured**. No emergency services responded. The fire was extinguished utilizing hand help fire extinguishers. I will submit a new C-141 for this event. Please let me know if you have any questions, or concerns.

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



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

Sent: Monday, July 24, 2023 8:07 AM **To:** Long, Thomas < tilong@eprod.com>

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

Subject: Re: [EXTERNAL] SJ 28-5 #14 - UL N Section 16 T28 R5W; 36.65679, -107.364700; NMOCD

Incident #nAPP2319233055

[Use caution with links/attachments]

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: Monday, July 24, 2023 8:04 AM

To: Velez, Nelson, EMNRD < <u>Nelson.Velez@emnrd.nm.gov</u>>

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

Subject: FW: [EXTERNAL] SJ 28-5 #14 - UL N Section 16 T28 R5W; 36.65679, -107.364700; NMOCD

Incident #nAPP2319233055

Nelson,

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 today July 24, 2023 at 2:00 p.m. at the SJ 28-5 #14 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



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

Sent: Monday, July 17, 2023 7:56 AM **To:** Long, Thomas <<u>tilong@eprod.com</u>> **Cc:** Stone, Brian <<u>bmstone@eprod.com</u>>

Subject: Re: [EXTERNAL] SJ 28-5 #14 - UL N Section 16 T28 R5W; 36.65679, -107.364700; NMOCD

Incident #nAPP2319233055

[Use caution with links/attachments]

Good morning 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.

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

Regards,

Nelson Velez • Environmental Specialist - Adv

Environmental Bureau | EMNRD - Oil Conservation Division

1000 Rio Brazos Road | Aztec, NM 87410

(505) 469-6146 | <u>nelson.velez@emnrd.nm.gov</u>

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



From: Long, Thomas <tilong@eprod.com>
Sent: Monday, July 17, 2023 7:46 AM

To: Velez, Nelson, EMNRD < <u>Nelson.Velez@emnrd.nm.gov</u>>

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

Subject: [EXTERNAL] SJ 28-5 #14 - UL N Section 16 T28 R5W; 36.65679, -107.364700; NMOCD

Incident #nAPP2319233055

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

Nelson,

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 today July 17, 2023 at 1:00 p.m. at the SJ 28-5 #14 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.



APPENDIX F

Table 1 – Soil Analytical Summary

ENSOLUM

TABLE 1 San Juan 28-5 #14 (07/10/23) SOIL ANALYTICAL SUMMARY

| Sample I.D. | Date | Sample Type C- Composite G - Grab | Sample Depth (feet) | Benzene (mg/kg) | Toluene (mg/kg) | Ethylbenzene (mg/kg) | Xylenes (mg/kg) | Total BTEX ¹ (mg/kg) | TPH GRO (mg/kg) | TPH DRO (mg/kg) | TPH MRO (mg/kg) | Total Combined TPH (GRO/DRO/MRO) ¹ (mg/kg) | Chloride (mg/kg) |
|-------------|-------------------------|---|------------------------|--------------------|--------------------|-------------------------|--------------------|---------------------------------|-----------------------|-----------------------|-----------------------|--|---------------------|
| | Depa onservation Div | ieral & Natural I rtment rision Closure (ier I) | | 10 | NE | NE | NE | 50 | NE | NE | NE | 100 | 600 |
| | | | Com | posite Soil San | nples Removed | by Excavation | and Transport | ed to the Landf | arm for Dispos | al/Remediation | | | |
| S-1 | 07.17.23 | С | 7 | 1.0 | 28 | 2.0 | 27 | 58 | 690 | 18 | <49 | 710 | <60 |
| S-5 | 07.17.23 | С | 0 to 7 | <0.23 | 25 | 4.0 | 54 | 83 | 1,000 | 26 | <48 | 1,000 | <60 |
| | | | | | | Excavation Co | omposite Soil | Samples | | | | | |
| S-1a | 07.28.23 | С | 7.5 | <0.021 | <0.043 | <0.043 | <0.085 | ND | <4.3 | <9.5 | <48 | ND | <61 |
| S-2 | 07.17.23 | С | 0 to 7 | <0.021 | <0.042 | <0.042 | <0.085 | ND | <4.2 | <9.7 | <49 | ND | <60 |
| S-3 | 07.17.23 | С | 0 to 7 | <0.020 | <0.040 | <0.040 | <0.080 | ND | <4.0 | <9.3 | <46 | ND | <60 |
| S-4 | 07.17.23 | С | 0 to 7 | <0.020 | <0.041 | <0.041 | <0.081 | ND | <4.1 | <9.5 | <47 | ND | 94 |
| S-5a | 08.09.23 | С | 0 to 7.5 | <0.020 | <0.039 | <0.039 | <0.079 | ND | <3.9 | <9.3 | <47 | ND | <61 |

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

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

NA = Not Analyzed

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.



APPENDIX G

Laboratory Data Sheets & Chain of Custody Documentation



Website: www.hallenvironmental.com

Hall Environmental Analysis Laboratory

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

4901 Hawkins NE

Albuquerque, NM 87109

July 24, 2023

Kyle Summers

ENSOLUM

606 S. Rio Grande Suite A

Aztec, NM 87410

TEL: (903) 821-5603

FAX:

RE: SJ 28 5 14 OrderNo.: 2307755

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 5 sample(s) on 7/18/2023 for the analyses presented in the following report.

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

Please 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

Lab Order 2307755

Date Reported: 7/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-1

Project: SJ 28 5 14 **Collection Date:** 7/17/2023 1:00:00 PM

Lab ID: 2307755-001 **Matrix:** MEOH (SOIL) **Received Date:** 7/18/2023 6:20:00 AM

| Analyses | Result | RL Qu | ual Units | DF | Date Analyzed | Batch |
|--------------------------------------|--------|----------|-----------|----|-----------------------|---------|
| EPA METHOD 300.0: ANIONS | | | | | Analyst | : CAS |
| Chloride | ND | 60 | mg/Kg | 20 | 7/18/2023 11:10:50 AM | 76284 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | SANICS | | | | Analyst | : DGH |
| Diesel Range Organics (DRO) | 18 | 9.7 | mg/Kg | 1 | 7/18/2023 10:08:49 AM | 76278 |
| Motor Oil Range Organics (MRO) | ND | 49 | mg/Kg | 1 | 7/18/2023 10:08:49 AM | 76278 |
| Surr: DNOP | 83.4 | 69-147 | %Rec | 1 | 7/18/2023 10:08:49 AM | 76278 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst | : JJP |
| Gasoline Range Organics (GRO) | 690 | 39 | mg/Kg | 10 | 7/18/2023 1:09:56 PM | GS98285 |
| Surr: BFB | 168 | 15-244 | %Rec | 10 | 7/18/2023 1:09:56 PM | GS98285 |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst | : JJP |
| Benzene | 1.0 | 0.20 | mg/Kg | 10 | 7/18/2023 1:09:56 PM | R98285 |
| Toluene | 28 | 0.39 | mg/Kg | 10 | 7/18/2023 1:09:56 PM | R98285 |
| Ethylbenzene | 2.0 | 0.39 | mg/Kg | 10 | 7/18/2023 1:09:56 PM | R98285 |
| Xylenes, Total | 27 | 0.79 | mg/Kg | 10 | 7/18/2023 1:09:56 PM | R98285 |
| Surr: 4-Bromofluorobenzene | 101 | 39.1-146 | %Rec | 10 | 7/18/2023 1:09:56 PM | R98285 |

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 10

Lab Order 2307755

Date Reported: 7/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-2

 Project:
 SJ 28 5 14
 Collection Date: 7/17/2023 1:05:00 PM

 Lab ID:
 2307755-002
 Matrix: MEOH (SOIL)
 Received Date: 7/18/2023 6:20:00 AM

Result **RL Oual Units DF** Date Analyzed **Batch** Analyses **EPA METHOD 300.0: ANIONS** Analyst: CAS Chloride ND 60 mg/Kg 7/18/2023 11:23:15 AM 76284 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: DGH Diesel Range Organics (DRO) 9.7 mg/Kg 7/18/2023 10:32:35 AM Motor Oil Range Organics (MRO) ND mg/Kg 1 7/18/2023 10:32:35 AM 76278 49 Surr: DNOP 83.1 69-147 %Rec 7/18/2023 10:32:35 AM 76278 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 7/18/2023 11:58:41 AM GS98285 4.2 mg/Kg Surr: BFB 93.2 7/18/2023 11:58:41 AM GS98285 15-244 %Rec **EPA METHOD 8021B: VOLATILES** Analyst: JJP ND 0.021 7/18/2023 11:58:41 AM Benzene mg/Kg R98285 Toluene ND 0.042 mg/Kg 7/18/2023 11:58:41 AM R98285 Ethylbenzene ND 0.042 mg/Kg 1 7/18/2023 11:58:41 AM R98285 Xylenes, Total ND 0.085 mg/Kg 7/18/2023 11:58:41 AM R98285 Surr: 4-Bromofluorobenzene 95.5 39.1-146 %Rec 7/18/2023 11:58:41 AM R98285

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 2 of 10

Lab Order 2307755

Date Reported: 7/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-3

 Project:
 SJ 28 5 14
 Collection Date: 7/17/2023 1:10:00 PM

 Lab ID:
 2307755-003
 Matrix: MEOH (SOIL)
 Received Date: 7/18/2023 6:20:00 AM

| Analyses | Result | RL (| Qual Units | DF | Date Analyzed | Batch |
|--------------------------------------|--------|----------|------------|----|-----------------------|---------|
| EPA METHOD 300.0: ANIONS | | | | | Analyst | CAS |
| Chloride | ND | 60 | mg/Kg | 20 | 7/18/2023 11:35:40 AM | 76284 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | ANICS | | | | Analyst | DGH |
| Diesel Range Organics (DRO) | ND | 9.3 | mg/Kg | 1 | 7/18/2023 10:56:20 AM | 76278 |
| Motor Oil Range Organics (MRO) | ND | 46 | mg/Kg | 1 | 7/18/2023 10:56:20 AM | 76278 |
| Surr: DNOP | 83.2 | 69-147 | %Rec | 1 | 7/18/2023 10:56:20 AM | 76278 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst | : JJP |
| Gasoline Range Organics (GRO) | ND | 4.0 | mg/Kg | 1 | 7/18/2023 12:22:22 PM | GS98285 |
| Surr: BFB | 92.0 | 15-244 | %Rec | 1 | 7/18/2023 12:22:22 PM | GS98285 |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst | : JJP |
| Benzene | ND | 0.020 | mg/Kg | 1 | 7/18/2023 12:22:22 PM | R98285 |
| Toluene | ND | 0.040 | mg/Kg | 1 | 7/18/2023 12:22:22 PM | R98285 |
| Ethylbenzene | ND | 0.040 | mg/Kg | 1 | 7/18/2023 12:22:22 PM | R98285 |
| Xylenes, Total | ND | 0.080 | mg/Kg | 1 | 7/18/2023 12:22:22 PM | R98285 |
| Surr: 4-Bromofluorobenzene | 94.9 | 39.1-146 | %Rec | 1 | 7/18/2023 12:22:22 PM | R98285 |

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 10

Lab Order 2307755

Date Reported: 7/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-4

 Project:
 SJ 28 5 14
 Collection Date: 7/17/2023 1:15:00 PM

 Lab ID:
 2307755-004
 Matrix: MEOH (SOIL)
 Received Date: 7/18/2023 6:20:00 AM

Lab ID: 2307755-004 Matrix: MEOH (SOIL) Received Date: 7/18/2023 6:20:00 AM

Analyses Result RL Qual Units DF Date Analyzed Ba

| Analyses | Result | RL | Qual Units | DF | Date Analyzed | Batch |
|--------------------------------------|--------|----------|------------|----|-----------------------|---------|
| EPA METHOD 300.0: ANIONS | | | | | Analyst | CAS |
| Chloride | 94 | 60 | mg/Kg | 20 | 7/18/2023 11:48:04 AM | 76284 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | SANICS | | | | Analyst | DGH |
| Diesel Range Organics (DRO) | ND | 9.5 | mg/Kg | 1 | 7/18/2023 11:20:09 AM | 76278 |
| Motor Oil Range Organics (MRO) | ND | 47 | mg/Kg | 1 | 7/18/2023 11:20:09 AM | 76278 |
| Surr: DNOP | 84.6 | 69-147 | %Rec | 1 | 7/18/2023 11:20:09 AM | 76278 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst | : JJP |
| Gasoline Range Organics (GRO) | ND | 4.1 | mg/Kg | 1 | 7/18/2023 12:46:09 PM | GS98285 |
| Surr: BFB | 92.6 | 15-244 | %Rec | 1 | 7/18/2023 12:46:09 PM | GS98285 |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst | : JJP |
| Benzene | ND | 0.020 | mg/Kg | 1 | 7/18/2023 12:46:09 PM | R98285 |
| Toluene | ND | 0.041 | mg/Kg | 1 | 7/18/2023 12:46:09 PM | R98285 |
| Ethylbenzene | ND | 0.041 | mg/Kg | 1 | 7/18/2023 12:46:09 PM | R98285 |
| Xylenes, Total | ND | 0.081 | mg/Kg | 1 | 7/18/2023 12:46:09 PM | R98285 |
| Surr: 4-Bromofluorobenzene | 95.8 | 39.1-146 | %Rec | 1 | 7/18/2023 12:46:09 PM | R98285 |

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 4 of 10

Lab Order 2307755

Date Reported: 7/24/2023

7/18/2023 1:33:45 PM

R98285

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-5

Project: SJ 28 5 14 Collection Date: 7/17/2023 1:20:00 PM Lab ID: 2307755-005 Matrix: MEOH (SOIL) Received Date: 7/18/2023 6:20:00 AM

Result **RL Oual Units DF** Date Analyzed Batch Analyses **EPA METHOD 300.0: ANIONS** Analyst: CAS Chloride ND 60 mg/Kg 7/18/2023 12:00:29 PM 76284 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: DGH Diesel Range Organics (DRO) 9.6 mg/Kg 7/18/2023 11:44:04 AM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 7/18/2023 11:44:04 AM 76278 Surr: DNOP 76278 81.7 69-147 %Rec 7/18/2023 11:44:04 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP 7/18/2023 1:33:45 PM Gasoline Range Organics (GRO) 1000 GS98285 47 mg/Kg 10 Surr: BFB 300 15-244 S 7/18/2023 1:33:45 PM GS98285 %Rec **EPA METHOD 8021B: VOLATILES** Analyst: JJP ND mg/Kg 7/18/2023 1:33:45 PM R98285 Benzene 0.23 10 Toluene 25 0.47 mg/Kg 7/18/2023 1:33:45 PM R98285 Ethylbenzene 4.0 0.47 mg/Kg 7/18/2023 1:33:45 PM R98285 Xylenes, Total 54 0.93 mg/Kg 7/18/2023 1:33:45 PM R98285 109 Surr: 4-Bromofluorobenzene

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

Page 5 of 10

Hall Environmental Analysis Laboratory, Inc.

2307755 24-Jul-23

WO#:

Client: ENSOLUM Project: SJ 28 5 14

Sample ID: MB-76284 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 76284 RunNo: 98289

Prep Date: 7/18/2023 Analysis Date: 7/18/2023 SeqNo: 3578639 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-76284 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 76284 RunNo: 98289

Prep Date: 7/18/2023 Analysis Date: 7/18/2023 SeqNo: 3578640 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 92.4 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

Page 6 of 10

Hall Environmental Analysis Laboratory, Inc.

WO#: **2307755**

24-Jul-23

Client: ENSOLUM Project: SJ 28 5 14

| Sample ID: 2307755-001AMS | SampType: M | s | Tes | tCode: EF | A Method | 8015M/D: Die | sel Range | Organics | |
|---|----------------------|-----------|-------------|------------------|-----------|--------------|-----------|----------|------|
| Client ID: S-1 | Batch ID: 76 | 278 | F | RunNo: 98 | 3287 | | | | |
| Prep Date: 7/18/2023 | Analysis Date: 7 | /18/2023 | 9 | SeqNo: 35 | 577029 | Units: mg/K | g | | |
| Analyte | Result PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 48 9.6 | | 17.89 | 63.0 | 54.2 | 135 | | | |
| Surr: DNOP | 4.1 | 4.798 | | 86.0 | 69 | 147 | | | |
| Sample ID: MB-76278 | SampType: M | BLK | Tes | tCode: EF | A Method | 8015M/D: Die | sel Range | Organics | |
| Client ID: PBS | Batch ID: 76 | 278 | F | RunNo: 98 | 3287 | | | | |
| Prep Date: 7/18/2023 | Analysis Date: 7 | /18/2023 | 9 | SeqNo: 35 | 577030 | Units: mg/K | g | | |
| 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) Surr: DNOP | ND 50 | | | 04.4 | 60 | 4.47 | | | |
| Suil. DINOP | 8.4 | 10.00 | | 84.4 | 69 | 147 | | | |
| Sample ID: LCS-76278 | SampType: L (| cs | | | | 8015M/D: Die | sel Range | Organics | |
| Client ID: LCSS | Batch ID: 76 | 278 | F | RunNo: 98 | 3287 | | | | |
| Prep Date: 7/18/2023 | Analysis Date: 7 | /18/2023 | 5 | SeqNo: 35 | 577031 | Units: mg/K | g | | |
| Analyte | Result PQL | | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 43 10 | | 0 | 85.9 | 61.9 | 130 | | | |
| Surr: DNOP | 4.1 | 5.000 | | 82.3 | 69 | 147 | | | |
| Sample ID: MB-76296 | SampType: M | BLK | Tes | tCode: EF | 'A Method | 8015M/D: Die | sel Range | Organics | |
| Client ID: PBS | Batch ID: 76 | 296 | F | RunNo: 98 | 3287 | | | | |
| Prep Date: 7/18/2023 | Analysis Date: 7 | /18/2023 | 5 | SeqNo: 35 | 577902 | Units: %Red | ; | | |
| Analyte | Result PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP | 8.4 | 10.00 | | 84.2 | 69 | 147 | | | |
| Sample ID: LCS-76296 | SampType: L (| cs | Tes | tCode: EF | A Method | 8015M/D: Die | sel Range | Organics | |
| Client ID: LCSS | Batch ID: 76 | 296 | F | RunNo: 98 | 3287 | | | | |
| Prep Date: 7/18/2023 | Analysis Date: 7 | /18/2023 | S | SeqNo: 35 | 577903 | Units: %Red | ; | | |
| Analyte | Result PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP | 4.1 | 5.000 | | 81.3 | 69 | 147 | | | |
| Sample ID: 2307755-001AMSE | SampType: M | SD | Tes | tCode: EF | PA Method | 8015M/D: Die | sel Range | Organics | |
| Client ID: S-1 | Batch ID: 76 | 278 | | RunNo: 98 | | | 3 | - | |
| Prep Date: 7/18/2023 | Analysis Date: 7 | /18/2023 | | SeqNo: 35 | | Units: mg/K | g | | |
| Analyte | Result PQL | | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| | | J Value | J | | | | | | |
| Diesel Range Organics (DRO) | 47 9.7 | 48.73 | 17.89 | 60.6 | 54.2 | 135 | 1.44 | 29.2 | |

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

Page 7 of 10

Hall Environmental Analysis Laboratory, Inc.

4.2

2307755 24-Jul-23

WO#:

0

Client: ENSOLUM
Project: SJ 28 5 14

Surr: DNOP

Sample ID: 2307755-001AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: **S-1** Batch ID: **76278** RunNo: **98287**

Prep Date: 7/18/2023 Analysis Date: 7/18/2023 SeqNo: 3577999 Units: mg/Kg

4.873

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

85.3

69

147

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
- 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 8 of 10

Hall Environmental Analysis Laboratory, Inc.

Batch ID: GS98285

SPK value SPK Ref Val

689.5

197.3

7893

Analysis Date: 7/18/2023

860

23000

PQL

39

WO#: 2307755 24-Jul-23

Client: ENSOLUM Project: SJ 28 5 14

| Sample ID: 2.5ug gro lcs | SampTy | pe: LCS | | Tes | tCode: EF | PA Method | 8015D: Gaso | line Range | | |
|-------------------------------|-------------|-----------------|-------------|-------------|------------------|-----------|-------------|------------|----------|------|
| Client ID: LCSS | Batch | ID: GS9 | 98285 | F | RunNo: 98 | 3285 | | | | |
| Prep Date: | Analysis Da | ate: 7/1 | 8/2023 | 5 | SeqNo: 3 | 576898 | Units: mg/K | g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 22 | 5.0 | 25.00 | 0 | 88.0 | 70 | 130 | | | |
| Surr: BFB | 1900 | | 1000 | | 191 | 15 | 244 | | | |
| Sample ID: mb | SampTy | pe: MBL | LK | Tes | tCode: EF | PA Method | 8015D: Gaso | line Range | | |
| Client ID: PBS | Batch | ID: GS9 | 98285 | F | RunNo: 98 | 3285 | | | | |
| Prep Date: | Analysis Da | ate: 7/1 | 8/2023 | Ş | SeqNo: 3 | 576899 | 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 | 910 | | 1000 | | 90.5 | 15 | 244 | | | |
| Sample ID: 2307755-001ams | SampTy | pe: MS | | Tes | tCode: EF | PA Method | 8015D: Gaso | line Range | | |
| Client ID: S-1 | Batch | ID: GS9 | 98285 | F | RunNo: 98 | 3285 | | | | |
| Prep Date: | Analysis Da | ate: 7/1 | 8/2023 | 5 | SeqNo: 3 | 577210 | Units: mg/K | g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 870 | 39 | 197.3 | 689.5 | 91.1 | 70 | 130 | | | |
| Surr: BFB | 22000 | | 7893 | | 284 | 15 | 244 | | | S |
| Sample ID: 2307755-001amsd | SampTy | pe: MSI | D | Tes | tCode: EF | PA Method | 8015D: Gaso | line Range | · | |

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: 98285

%REC

85.6

296

SeqNo: 3577325

LowLimit

70

15

Units: mg/Kg

130

244

%RPD

1.26

RPDLimit

20

0

Qual

S

HighLimit

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

Page 9 of 10

Hall Environmental Analysis Laboratory, Inc.

WO#: **2307755**

24-Jul-23

Client: ENSOLUM Project: SJ 28 5 14

| Sample ID: 100ng btex lcs | Samp | Гуре: LC : | S | Tes | tCode: EF | PA Method | 8021B: Volati | les | | |
|----------------------------|------------|-------------------|-----------|-------------|-----------|-----------|---------------|------|----------|------|
| Client ID: LCSS | Batcl | h ID: R9 8 | 8285 | F | RunNo: 98 | 3285 | | | | |
| Prep Date: | Analysis [| Date: 7/ | 18/2023 | (| SeqNo: 3 | 576901 | Units: mg/K | g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.96 | 0.025 | 1.000 | 0 | 95.6 | 70 | 130 | | | |
| Toluene | 0.97 | 0.050 | 1.000 | 0 | 97.4 | 70 | 130 | | | |
| Ethylbenzene | 0.96 | 0.050 | 1.000 | 0 | 96.4 | 70 | 130 | | | |
| Xylenes, Total | 2.9 | 0.10 | 3.000 | 0 | 96.8 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.93 | | 1.000 | | 92.5 | 39.1 | 146 | | | |

| Sample ID: mb | Samp | уре: МЕ | BLK | Tes | tCode: Ef | PA Method | 8021B: Volati | les | | |
|----------------------------|------------|-----------------|-----------|-------------|-----------|-----------|---------------|------|----------|------|
| Client ID: PBS | Batcl | n ID: R9 | 8285 | F | RunNo: 98 | 3285 | | | | |
| Prep Date: | Analysis [| Date: 7/ | 18/2023 | 5 | SeqNo: 3 | 576902 | 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 | 0.92 | | 1.000 | | 92.0 | 39.1 | 146 | | | |

| Sample ID: 2307755-002ams | Samp | Гуре: МЅ | 3 | Tes | tCode: EF | PA Method | 8021B: Volati | les | | • |
|----------------------------|------------|-----------------|-----------|-------------|-----------|-----------|---------------|------|----------|------|
| Client ID: S-2 | Batcl | h ID: R9 | 8285 | F | RunNo: 98 | 3285 | | | | |
| Prep Date: | Analysis [| Date: 7/ | 18/2023 | 9 | SeqNo: 3 | 577326 | Units: mg/K | g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.79 | 0.021 | 0.8496 | 0 | 93.4 | 70 | 130 | | | |
| Toluene | 0.81 | 0.042 | 0.8496 | 0 | 95.6 | 70 | 130 | | | |
| Ethylbenzene | 0.81 | 0.042 | 0.8496 | 0 | 95.5 | 70 | 130 | | | |
| Xylenes, Total | 2.5 | 0.085 | 2.549 | 0.01767 | 96.6 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.86 | | 0.8496 | | 101 | 39.1 | 146 | | | |

| Sample ID: 2307755-002amsd | SampT | ype: MS | D | Tes | tCode: EF | PA Method | 8021B: Volati | iles | | |
|----------------------------|------------|-------------------|-----------|-------------|------------------|-----------|---------------|--------|----------|------|
| Client ID: S-2 | Batch | n ID: R9 8 | 3285 | F | RunNo: 98 | 3285 | | | | |
| Prep Date: | Analysis D | ate: 7/ 1 | 18/2023 | 8 | SeqNo: 3 | 577327 | Units: mg/K | (g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.79 | 0.021 | 0.8496 | 0 | 92.8 | 70 | 130 | 0.666 | 20 | |
| Toluene | 0.81 | 0.042 | 0.8496 | 0 | 95.1 | 70 | 130 | 0.482 | 20 | |
| Ethylbenzene | 0.81 | 0.042 | 0.8496 | 0 | 95.2 | 70 | 130 | 0.367 | 20 | |
| Xylenes, Total | 2.5 | 0.085 | 2.549 | 0.01767 | 96.7 | 70 | 130 | 0.0582 | 20 | |
| Surr: 4-Bromofluorobenzene | 0.86 | | 0.8496 | | 101 | 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
- 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 10 of 10



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: 1/19/2024 7:30:45 AM

| Client Name: ENSOLU | JM | Work Order Number | 2307755 | | RcptNo: 1 | |
|---|------------------------|--------------------------|---------------|------------|--|------------------|
| Received By: Tracy C | asarrubias | 7/18/2023 6:20:00 AM | | | | |
| Completed By: Tracy C | asarrubias | 7/18/2023 6:52:25 AM | | | | |
| Reviewed By: 5Cm | i (| 3 | | | | |
| Chain of Custody | | | | | | |
| 1. Is Chain of Custody co | mplete? | | Yes 🗌 | No 🗹 | Not Present | |
| 2. How was the sample d | elivered? | | Courier | | | |
| Log In 3. Was an attempt made | to cool the samples' | > | Yes 🗹 | No 🗌 | na 🗆 | |
| 4. Were all samples receive | ved at a temperature | e of >0° C to 6.0°C | Yes 🔽 | No 🗌 | na 🗆 | |
| 5. Sample(s) in proper co | ntainer(s)? | | Yes 🗹 | No 🗌 | | |
| 6. Sufficient sample volum | ne for indicated test(| s)? | Yes 🗹 | No 🗌 | | |
| 7. Are samples (except VC | DA and ONG) prope | rly preserved? | Yes 🗹 | No 🗌 | | |
| 8. Was preservative adde | d to bottles? | | Yes \square | No 🗹 | NA 🗌 | |
| 9. Received at least 1 vial | with headspace <1/ | 4" for AQ VOA? | Yes 🗌 | No 🗌 | NA 🗹 | |
| 10. Were any sample conta | ainers received brok | en? | Yes 🗌 | No 🗹 | # of preserved | |
| 11. Does paperwork match (Note discrepancies on | | | Yes 🗹 | No 🗆 | | 12 unless noted) |
| 12. Are matrices correctly in | dentified on Chain o | f Custody? | Yes 🔽 | No 🗌 | Adjusted? | |
| 13. Is it clear what analyses | were requested? | | Yes 🔽 | No 🗌 | A | 71.00% |
| Were all holding times : (If no, notify customer for the custome | | | Yes 🗹 | No 🗌 | Checked by: | ~+1181 |
| Special Handling (if a | applicable) | | | | | |
| 15. Was client notified of a | II discrepancies with | this order? | Yes 🗌 | No 🗌 | NA 🗹 | |
| Person Notified: | Management (| Date: | A | | | |
| By Whom: | No. | Via: | eMail | Phone Fax | In Person | |
| Regarding: | 1000 | | | | | |
| Client Instruction | s: Phone number | and Email/Fax are missin | on COC - 1 | MC 7/18/23 | The sales of the s | |
| 16. Additional remarks: | | | | | | |
| 17. Cooler Information | | | | | | |

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| | P004 | | 1/7 /315 5 5-4 | 1/2 |
| | 003 | | 1/7 1310 5 5-3 | 1/2 |
| | 002 | | 17 1305 3 5-2 | 1/2 |
| | Cold 001 | 1402 | 17 1300 S S-1 | 11/ |
| 8081 EDB PAH: RCR CI, 8260 8270 | | Container Type and # | ate Time Matrix Sample Name | Date |
| Pestin (Methods by 8 A 8 Methods), Perturbation (VOA) (Semi- | 2-02 S.2 (°C) | Cooler Tem | | |
| cide aod 310 eta NO | - | # of Coolers: | EDD (Type) | |
| 95/8 504 0 or ls 9, N | | On Ice: | | |
| 827 | | Sampler: | Accreditation: Az Compliance | Accı |
| PCB's | SU 3 80 80 80 80 80 80 80 80 80 80 80 80 80 | idation) | QA/QC Package: ☐ Standard ☐ Level 4 (Full Validation) | □ QA/¢ |
| S 3 4 | 21) | Project Manager: | email or Fax#: | ema |
| Analysis Request | | | Phone #: | Pho |
| Tel. 505-345-3975 Fax 505-345-4107 | | Project #: | Suit A 874/10 | |
| 4901 Hawkins NE - Albuquerque, NM 87109 | J128-5 414 | sale S | Mailing Address: & & S & S & C | Mail |
| www.hallenvironmental.com | ē: | Project Name: | | |
| ANALYSIS LABORATORY | d PRush 7-18-23 | ☐ Standard | lient: Ensolver UC | Client: |
| HALL ENVIRONMENTAL | Time: //www | Turn-Around Time: | Chain-of-Custody Record | |
| | | | | |



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 28 5 14 OrderNo.: 2307E46

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 1 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

Surr: 4-Bromofluorobenzene

Analytical Report Lab Order 2307E46

Date Reported: 8/4/2023

7/31/2023 1:38:34 PM

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-1a

 Project:
 SJ 28 5 14
 Collection Date: 7/28/2023 12:00:00 PM

 Lab ID:
 2307E46-001
 Matrix: MEOH (SOIL)
 Received Date: 7/29/2023 7:05:00 AM

Result **RL Oual Units DF** Date Analyzed Batch Analyses **EPA METHOD 300.0: ANIONS** Analyst: SNS Chloride ND 61 mg/Kg 7/31/2023 1:56:36 PM 76564 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: DGH Diesel Range Organics (DRO) 9.5 mg/Kg 7/29/2023 3:02:20 PM 76555 Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 7/29/2023 3:02:20 PM 76555 Surr: DNOP 76555 102 69-147 %Rec 7/29/2023 3:02:20 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 7/31/2023 1:38:34 PM GS98601 4.3 mg/Kg Surr: BFB 95.4 %Rec 7/31/2023 1:38:34 PM GS98601 15-244 **EPA METHOD 8021B: VOLATILES** Analyst: JJP ND 0.021 7/31/2023 1:38:34 PM BS98601 Benzene mg/Kg Toluene ND 0.043 mg/Kg 7/31/2023 1:38:34 PM BS98601 Ethylbenzene ND 0.043 mg/Kg 1 7/31/2023 1:38:34 PM BS98601 Xylenes, Total ND 0.085 mg/Kg 7/31/2023 1:38:34 PM BS98601

110

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

Page 1 of 5

BS98601

Hall Environmental Analysis Laboratory, Inc.

WO#: **2307E46 04-Aug-23**

Client: ENSOLUM
Project: SJ 28 5 14

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

Page 2 of 5

Hall Environmental Analysis Laboratory, Inc.

11

WO#: **2307E46** *04-Aug-23*

Client: ENSOLUM Project: SJ 28 5 14

Surr: DNOP

| Sample ID: LCS-76555 | SampT | ype: LC | s | Tes | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | |
|-----------------------------|--------------------------|----------------|-----------|-----------------------|---|----------|--------------|------|----------|------|--|
| Client ID: LCSS | Batch | ID: 765 | 555 | RunNo: 98594 | | | | | | | |
| Prep Date: 7/29/2023 | Analysis Date: 7/29/2023 | | | SeqNo: 3590225 | | | Units: mg/Kg | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual | |
| Diesel Range Organics (DRO) | 53 | 10 | 50.00 | 0 | 107 | 61.9 | 130 | | | | |
| Surr: DNOP | 5.1 | | 5.000 | | 103 | 69 | 147 | | | | |

| Sample ID: MB-76555 | SampT | ype: ME | BLK | Tes | tCode: EF | PA Method | 8015M/D: Die | sel Range | Organics | |
|--------------------------------|------------|------------------|-----------|-------------|-----------|-----------|--------------|-----------|----------|------|
| Client ID: PBS | Batch | ID: 76 | 555 | F | RunNo: 98 | 3594 | | | | |
| Prep Date: 7/29/2023 | Analysis D | ate: 7/ 2 | 29/2023 | 5 | SeqNo: 3 | 590227 | Units: mg/K | g | | |
| 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 | | | | | | | | |

111

147

10.00

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 5

Hall Environmental Analysis Laboratory, Inc.

WO#: **2307E46**

04-Aug-23

Client: ENSOLUM Project: SJ 28 5 14

| Sample ID: 2.5ug gro lcs | SampType: L | cs | Tes | tCode: EF | A Method | 8015D: Gasoli | ne Range | | |
|-------------------------------|--------------------|-------------|-------------|------------------|-----------|---------------|----------|-----------|------|
| Client ID: LCSS | Batch ID: G | S98601 | F | RunNo: 98 | 8601 | | | | |
| Prep Date: | Analysis Date: | 7/31/2023 | 5 | SeqNo: 35 | 90782 | Units: mg/Kg | 9 | | |
| Analyte | Result PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 22 5.0 | 25.00 | 0 | 89.2 | 70 | 130 | | | |
| Surr: BFB | 2000 | 1000 | | 195 | 15 | 244 | | | |
| Sample ID: mb | SampType: N | IBLK | Tes | tCode: EF | PA Method | 8015D: Gasoli | ne Range | | |
| Client ID: PBS | Batch ID: G | S98601 | F | RunNo: 98 | 8601 | | | | |
| Prep Date: | Analysis Date: 7 | 7/31/2023 | 8 | SeqNo: 35 | 90783 | Units: mg/Kg | 9 | | |
| Analyte | Result PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND 5.0 |) | | | | | | | |
| Surr: BFB | 900 | 1000 | | 90.4 | 15 | 244 | | | |
| Sample ID: Ics-76543 | SampType: L | cs | Tes | tCode: EF | PA Method | 8015D: Gasoli | ne Range | | |
| Client ID: LCSS | Batch ID: 7 | 6543 | F | RunNo: 98 | 8601 | | | | |
| Prep Date: 7/28/2023 | Analysis Date: 7 | 7/31/2023 | S | SeqNo: 35 | 91155 | Units: %Rec | | | |
| Analyte | Result PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: BFB | 2000 | 1000 | | 199 | 15 | 244 | | | |
| Sample ID: mb-76543 | SampType: N | IBLK | Tes | tCode: EF | A Method | 8015D: Gasoli | ne Range | | |
| Client ID: PBS | Batch ID: 7 | 6543 | F | RunNo: 98 | 8601 | | | | |
| Prep Date: 7/28/2023 | Analysis Date: | 7/31/2023 | S | SeqNo: 35 | 91604 | Units: %Rec | | | |
| Analyte | Result PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Allalyto | ittosuit i QL | Oi it value | SER Nei Vai | 70KEU | LOWLITTIL | ⊓ign∟imit | 70KFD | KEDLIIIII | Quai |

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

Page 4 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#: **2307E46**

04-Aug-23

Client: ENSOLUM
Project: SJ 28 5 14

| Sample ID: 100ng btex lcs | SampType: LCS | TestCode: EPA Method | 8021B: Volatiles | |
|-----------------------------|--------------------------|---------------------------|------------------|---------------|
| Client ID: LCSS | Batch ID: BS98601 | RunNo: 98601 | | |
| Prep Date: | Analysis Date: 7/31/2023 | SeqNo: 3590788 | Units: mg/Kg | |
| Analyte | Result PQL SPK value | SPK Ref Val %REC LowLimit | HighLimit %RPD | RPDLimit Qual |
| Benzene | 1.1 0.025 1.000 | 0 110 70 | 130 | |
| Toluene | 1.1 0.050 1.000 | 0 111 70 | 130 | |
| Ethylbenzene | 1.1 0.050 1.000 | 0 110 70 | 130 | |
| Xylenes, Total | 3.3 0.10 3.000 | 0 111 70 | 130 | |
| Surr: 4-Bromofluorobenzene | 1.1 1.000 | 109 39.1 | 146 | |
| Sample ID: mb | SampType: MBLK | TestCode: EPA Method | 8021B: Volatiles | |
| Client ID: PBS | Batch ID: BS98601 | RunNo: 98601 | | |
| Prep Date: | Analysis Date: 7/31/2023 | SeqNo: 3590790 | 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 | 1.1 1.000 | 109 39.1 | 146 | |
| Sample ID: LCS-76543 | SampType: LCS | TestCode: EPA Method | 8021B: Volatiles | |
| Client ID: LCSS | Batch ID: 76543 | RunNo: 98601 | | |
| Prep Date: 7/28/2023 | Analysis Date: 7/31/2023 | SeqNo: 3591156 | Units: %Rec | |
| Analyte | Result PQL SPK value | SPK Ref Val %REC LowLimit | HighLimit %RPD | RPDLimit Qual |
| Surr: 4-Bromofluorobenzene | 1.1 1.000 | 114 39.1 | 146 | |
| Sample ID: mb-76543 | SampType: MBLK | TestCode: EPA Method | 8021B: Volatiles | |
| Client ID: PBS | Batch ID: 76543 | RunNo: 98601 | | |

Qualifiers:

Prep Date:

Analyte

Value exceeds Maximum Contaminant Level.

7/28/2023

Surr: 4-Bromofluorobenzene

Analysis Date: 7/31/2023

Result

1.1

- 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

SeqNo: 3591642

LowLimit

39.1

%REC

Units: %Rec

HighLimit

146

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

SPK value SPK Ref Val

1.000

Page 5 of 5

RPDLimit

Qual

%RPD



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: 1/19/2024 7:30:45 AM

| Client Name: ENSOLUM | Work Order Number | : 2307E4 | 3 | RcptNo: | 1 |
|--|--------------------------|-----------|-------------|--------------------------------|-------------------|
| Received By: Juan Rojas | 7/29/2023 7:05:00 AM | I | (Juan Bay) | | |
| Completed By: Tracy Casarrubias | 7/29/2023 8:23:37 AM | 1 | | | |
| Reviewed By: 717/29/23 | | | | | |
| Chain of Custody | | | | | |
| 1. Is Chain of Custody complete? | | Yes 🗌 | No 🗹 | Not Present 🗌 | |
| 2. How was the sample delivered? | | Courier | | | |
| <u>Log In</u> 3. Was an attempt made to cool the samples? | | Yes 🗹 | No 🗌 | na 🗆 | |
| | | | | _ | |
| 4. Were all samples received at a temperature | 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 test(s) | ? | Yes 🗹 | No 🗌 | | |
| 7. Are samples (except VOA and ONG) properly | y 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 broke | n? | Yes | No 🗸 | # of preserved bottles checked | |
| 11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) | | Yes 🗹 | No 🗌 | for pH: | >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 🗆 | Checked by: | mc 7/29/2 |
| Special Handling (if applicable) | | | | | |
| 15. Was client notified of all discrepancies with | his order? | Yes 🗌 | No 🗆 | NA 🗹 | |
| Person Notified: | Date: | | | | |
| By Whom: | Via: | eMail | Phone Fax | ☐ In Person | |
| Regarding: | | | | | |
| Client Instructions: Phone number ar | nd Email/Fax are missing | on COC | TMC 7/29/23 | | |
| 16. Additional remarks: | | | | | |
| 17. Cooler Information Cooler No Temp °C Condition So 1 0.7 Good Yes | | Seal Date | Signed By | | |

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| Chain-of-Custody Record | Turn-Around Time: | INTERNATIONAL TANK |
|--|--|---|
| Client: Ensolver LLC | □ Standard □ Rush 7-3/-33 | ANALYSIS LABORATORY |
| | Project Name: | www.hallenvironmental.com |
| Mailing Address: 196 S A. O. B. R. | 85 28-5 HH | 4901 Hawkins NE - Albuquerque, NM 87109 |
| Suit A 87416 | Project #: | Tel. 505-345-3975 Fax 505-345-4107 |
| Phone #: | | Analysis Request |
| email or Fax#: | Project Manager: | (O) |
| QA/QC Package: | , | MS SMS |
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Feleased to Imaging: 12/9/2014 7:30:43 AM notated on the analytical report.



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

September 08, 2023

Kyle Summers

ENSOLUM

606 S. Rio Grande Suite A

Aztec, NM 87410

TEL: (903) 821-5603

FAX:

RE: SJ 28 5 14 OrderNo.: 2308556

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 1 sample(s) on 8/10/2023 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued August 14, 2023.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andy

4901 Hawkins NE

Albuquerque, NM 87109

CLIENT: ENSOLUM

Analytical Report

Lab Order **2308556**Date Reported: **9/8/2023**

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: S-5a

Project: SJ 28 5 14 **Collection Date:** 8/9/2023 8:00:00 AM

Lab ID: 2308556-001 **Matrix:** MEOH (SOIL) **Received Date:** 8/10/2023 6:30:00 AM

| Analyses | Result | RL | Qual Units | DF | Date Analyzed | Batch |
|------------------------------------|---------|----------|------------|----|-----------------------|---------|
| EPA METHOD 300.0: ANIONS | | | | | Analyst | : RBC |
| Chloride | ND | 61 | mg/Kg | 20 | 8/10/2023 10:32:48 AM | 76785 |
| EPA METHOD 8015M/D: DIESEL RANGE O | RGANICS | | | | Analyst | : mb |
| Diesel Range Organics (DRO) | ND | 9.3 | mg/Kg | 1 | 8/10/2023 8:51:42 AM | 76782 |
| Motor Oil Range Organics (MRO) | ND | 47 | mg/Kg | 1 | 8/10/2023 8:51:42 AM | 76782 |
| Surr: DNOP | 88.6 | 69-147 | %Rec | 1 | 8/10/2023 8:51:42 AM | 76782 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst | : JJP |
| Gasoline Range Organics (GRO) | ND | 3.9 | mg/Kg | 1 | 8/10/2023 11:45:05 AM | GS98876 |
| Surr: BFB | 94.8 | 15-244 | %Rec | 1 | 8/10/2023 11:45:05 AM | GS98876 |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst | : JJP |
| Benzene | ND | 0.020 | mg/Kg | 1 | 8/10/2023 11:45:05 AM | BS98876 |
| Toluene | ND | 0.039 | mg/Kg | 1 | 8/10/2023 11:45:05 AM | BS98876 |
| Ethylbenzene | ND | 0.039 | mg/Kg | 1 | 8/10/2023 11:45:05 AM | BS98876 |
| Xylenes, Total | ND | 0.079 | mg/Kg | 1 | 8/10/2023 11:45:05 AM | BS98876 |
| Surr: 4-Bromofluorobenzene | 109 | 39.1-146 | %Rec | 1 | 8/10/2023 11:45:05 AM | BS98876 |

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

Qualifiers:

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

orting Limit Page 1 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#: **2308556**

08-Sep-23

Client: ENSOLUM Project: SJ 28 5 14

Sample ID: MB-76785 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: **76785** RunNo: **98880**

Prep Date: 8/10/2023 Analysis Date: 8/10/2023 SeqNo: 3603269 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-76785 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 76785 RunNo: 98880

Prep Date: 8/10/2023 Analysis Date: 8/10/2023 SeqNo: 3603270 Units: mg/Kg

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

Chloride 15 1.5 15.00 0 98.0 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

Page 2 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#: **2308556** *08-Sep-23*

Client: ENSOLUM Project: SJ 28 5 14

| Project: | SJ 28 5 14 | | | | | | | | | | |
|-----------------|------------------|------------|-------------------|-----------|-------------|-----------|-----------|--------------|-----------|----------|------|
| Sample ID: | 2308556-001AMS | SampT | ype: MS | 5 | Tes | tCode: El | PA Method | 8015M/D: Die | sel Range | Organics | |
| Client ID: | S-5a | Batch | n ID: 76 7 | 782 | F | RunNo: 9 | 8859 | | | | |
| Prep Date: | 8/10/2023 | Analysis D | ate: 8/ | 10/2023 | 5 | SeqNo: 30 | 601549 | Units: mg/K | (g | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range O | rganics (DRO) | 45 | 9.4 | 47.04 | 0 | 96.5 | 54.2 | 135 | | | |
| Surr: DNOP | | 4.2 | | 4.704 | | 89.0 | 69 | 147 | | | |
| Sample ID: | LCS-76782 | SampT | ype: LC | S | Tes | tCode: El | PA Method | 8015M/D: Die | sel Range | Organics | |
| Client ID: | LCSS | Batch | n ID: 76 7 | 782 | F | RunNo: 9 | 8859 | | | | |
| Prep Date: | 8/10/2023 | Analysis D | oate: 8/ | 10/2023 | \$ | SeqNo: 30 | 601554 | Units: mg/K | (g | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range O | rganics (DRO) | 47 | 10 | 50.00 | 0 | 93.2 | 61.9 | 130 | | | |
| Surr: DNOP | | 4.4 | | 5.000 | | 88.9 | 69 | 147 | | | |
| Sample ID: | MB-76782 | SampT | ype: ME | BLK | Tes | tCode: El | PA Method | 8015M/D: Die | sel Range | Organics | |
| Client ID: | PBS | Batch | n ID: 76 7 | 782 | F | RunNo: 9 | 8859 | | | | |
| Prep Date: | 8/10/2023 | Analysis D | ate: 8/ | 10/2023 | (| SeqNo: 30 | 601557 | Units: mg/K | (g | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range O | rganics (DRO) | ND | 10 | | | | | | | | |
| Motor Oil Range | e Organics (MRO) | ND | 50 | | | | | | | | |
| Surr: DNOP | | 9.1 | | 10.00 | | 91.2 | 69 | 147 | | | |
| Sample ID: | 2308556-001AMSD | SampT | уре: МS | SD | Tes | tCode: El | PA Method | 8015M/D: Die | sel Range | Organics | |
| Client ID: | S-5a | Batch | n ID: 76 7 | 782 | F | RunNo: 9 | 8859 | | | | |
| Prep Date: | 8/10/2023 | Analysis D | ate: 8/ | 10/2023 | \$ | SeqNo: 30 | 602160 | Units: mg/K | (g | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range O | rganics (DRO) | 46 | 9.6 | 47.85 | 0 | 97.1 | 54.2 | 135 | 2.27 | 29.2 | |
| Surr: DNOP | | 4.0 | | 4.785 | | 84.2 | 69 | 147 | 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
- 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 5

Hall Environmental Analysis Laboratory, Inc.

WO#: **2308556**

08-Sep-23

Client: ENSOLUM
Project: SJ 28 5 14

| Sample ID: 2.5 | iug gro lcs | SampT | ype: LC | s | Tes | tCode: EF | A Method | 8015D: Gaso | line Range | | |
|--------------------|---------------|------------|----------------|-------------|----------------|------------------|-----------|-------------|------------|----------|------|
| Client ID: LC: | ss | Batch | ID: GS | 98876 | F | RunNo: 98 | 8876 | | | | |
| Prep Date: | | Analysis D | ate: 8/ | 10/2023 | 5 | SeqNo: 36 | 02488 | Units: mg/K | (g | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Org | ganics (GRO) | 22 | 5.0 | 25.00 | 0 | 89.3 | 70 | 130 | | | |
| Surr: BFB | | 1900 | | 1000 | | 193 | 15 | 244 | | | |
| Sample ID: mb |) | SampT | уре: МЕ | BLK | Tes | tCode: EF | A Method | 8015D: Gaso | line Range | | |
| Client ID: PB | S | Batch | ID: GS | 98876 | F | RunNo: 98 | 8876 | | | | |
| Prep Date: | | Analysis D | ate: 8/ | 10/2023 | \$ | SeqNo: 36 | 602489 | Units: mg/K | (g | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Org | ganics (GRO) | ND | 5.0 | | | | | | | | |
| Surr: BFB | | 950 | | 1000 | | 95.2 | 15 | 244 | | | |
| Sample ID: 230 | 08556-001ams | SampT | ype: MS | | Tes | tCode: EF | A Method | 8015D: Gaso | line Range | | |
| Client ID: S-5 | 5a | Batch | ID: GS | 98876 | F | RunNo: 98 | 8876 | | | | |
| Prep Date: | | Analysis D | ate: 8/ | 10/2023 | 9 | SeqNo: 36 | 602679 | Units: mg/K | (g | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Org | ganics (GRO) | 18 | 3.9 | 19.73 | 0 | 91.1 | 70 | 130 | | | |
| Surr: BFB | | 1600 | | 789.3 | | 200 | 15 | 244 | | | |
| Sample ID: 230 | 08556-001amsd | SampT | ype: MS | SD . | Tes | tCode: EF | A Method | 8015D: Gaso | line Range | | |
| Client ID: S-5 | 5a | Batch | ID: GS | 98876 | F | RunNo: 98 | 8876 | | | | |
| Prep Date: | | Analysis D | ate: 8/ | 10/2023 | 9 | SeqNo: 36 | 602680 | Units: mg/K | (g | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Tildiyic | | | I QL | Of It value | Of It Itol Val | 7011LO | LOWLIIIII | riignemit | 701 NI D | IN DEITH | Qua |

Qualifiers:

Surr: BFB

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

1600

789.3

B Analyte detected in the associated Method Blank

205

15

244

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

Page 4 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#: **2308556** *08-Sep-23*

Client: ENSOLUM Project: SJ 28 5 14

| Sample ID: 100ng btex lcs | Samp ⁻ | Гуре: LC : | s | Tes | tCode: EF | | | | | |
|----------------------------|-------------------|--------------------------|-----------|-------------|-----------------------|----------|-----------|--------------|----------|------|
| Client ID: LCSS | Batc | h ID: BS | 98876 | F | RunNo: 98876 | | | | | |
| Prep Date: | Analysis [| Analysis Date: 8/10/2023 | | | SeqNo: 3602492 | | | Units: mg/Kg | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 1.1 | 0.025 | 1.000 | 0 | 108 | 70 | 130 | | | |
| Toluene | 1.1 | 0.050 | 1.000 | 0 | 109 | 70 | 130 | | | |
| Ethylbenzene | 1.1 | 0.050 | 1.000 | 0 | 110 | 70 | 130 | | | |
| Xylenes, Total | 3.3 | 0.10 | 3.000 | 0 | 111 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 1.1 | | 1.000 | | 108 | 39.1 | 146 | | | |

| Sample ID: mb | SampT | ype: ME | BLK | TestCode: EPA Method 8021B: Volatiles | | | | | | |
|----------------------------|------------|----------------|-----------|---------------------------------------|-----------|--------------|-----------|------|----------|------|
| Client ID: PBS | Batch | n ID: BS | 98876 | F | RunNo: 98 | | | | | |
| Prep Date: | Analysis D | 10/2023 | 5 | SeqNo: 36 | 602493 | 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 | 1.1 | | 1.000 | | 108 | 39.1 | 146 | | | |

| Sample ID: 2308556-001AMS | Samp | Туре: МЅ | SD . | TestCode: EPA Method 8021B: Volatiles | | | | | | | |
|----------------------------|------------|-----------------|-----------|---------------------------------------|-----------|----------|-------------|-------|----------|------|--|
| Client ID: S-5a | Batc | h ID: BS | 98876 | RunNo: 98876 | | | | | | | |
| Prep Date: | Analysis I | Date: 8/ | 10/2023 | 5 | SeqNo: 30 | 602705 | Units: mg/K | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual | |
| Benzene | 0.82 | 0.020 | 0.7893 | 0 | 104 | 70 | 130 | 1.62 | 20 | | |
| Toluene | 0.83 | 0.039 | 0.7893 | 0 | 105 | 70 | 130 | 2.10 | 20 | | |
| Ethylbenzene | 0.85 | 0.039 | 0.7893 | 0 | 107 | 70 | 130 | 0.353 | 20 | | |
| Xylenes, Total | 2.6 | 0.079 | 2.368 | 0.01586 | 107 | 70 | 130 | 0.901 | 20 | | |
| Surr: 4-Bromofluorobenzene | 0.87 | | 0.7893 | | 110 | 39.1 | 146 | 0 | 0 | | |

| Sample ID: 2308556-001AMS | SampT | ype: MS | ; | Tes | 8021B: Volati | les | | | | |
|----------------------------|--|-------------------|-----------|-------------|-----------------------|--------|-------------|------|----------|------|
| Client ID: S-5a | Batch ID: BS98876 RunNo: 98876 | | | | | | | | | |
| Prep Date: | Analysis D |)ate: 8/ 1 | 10/2023 | 5 | SeqNo: 36 | 602706 | Units: mg/K | g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | Ref Val %REC LowLimit | | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.83 | 0.020 | 0.7893 | 0 | 106 | 70 | 130 | | _ | |
| Toluene | 0.85 | 0.039 | 0.7893 | 0 | 107 | 70 | 130 | | | |
| Ethylbenzene | 0.85 | 0.039 | 0.7893 | 0 | 108 | 70 | 130 | | | |
| Xylenes, Total | 2.6 | 0.079 | 2.368 | 0.01586 | 108 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.87 | | 0.7893 | | 110 | 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

Page 5 of 5



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: 1/19/2024 7:30:45 AM

| DOME SOME | | Website: www.f | allenvironmental | .com | | |
|------------------------|--|----------------------|--|-----------|----------------------------|-------------------|
| Client Name: E | ENSOLUM | Work Order Numbe | r: 2308556 | | RcptNo: | 1 |
| Received By: | Tracy Casarrubias | 8/10/2023 6:30:00 AM | Л | | | |
| Completed By: | Tracy Casarrubias | 8/10/2023 7:04:37 AM | Л | | | |
| Reviewed By: | In 8/10/23 | | | | | |
| Chain of Custo | ody | | | | | |
| 1. Is Chain of Cus | stody complete? | | Yes 🗌 | No 🗸 | Not Present | |
| 2. How was the sa | ample delivered? | | Courier | | | |
| Log In | | | | | | |
| | t made to cool the sample | s? | Yes 🗹 | No 🗆 | na 🗌 | |
| 4. Were all sample | es received at a temperatu | re of >0° C to 6.0°C | Yes 🗹 | No 🗌 | na 🗌 | |
| 5. Sample(s) in pro | oper container(s)? | | Yes 🗸 | No 🗌 | | |
| 6. Sufficient sampl | le volume for indicated tes | t(s)? | Yes 🗹 | No 🗌 | | |
| 7. Are samples (ex | ccept VOA and ONG) prop | erly preserved? | Yes 🗹 | No 🗌 | | |
| 8. Was preservativ | e added to bottles? | | Yes 🗌 | No 🗹 | na 🗆 | |
| 9. Received at least | st 1 vial with headspace < | 1/4" for AQ VOA? | Yes 🗌 | No 🗌 | NA 🗹 | |
| 10. Were any samp | ple containers received bro | ken? | Yes | No 🗹 | # of preserved | |
| | match bottle labels? cies on chain of custody) | | Yes 🗹 | No 🗌 | bottles checked for pH: | >12 unless noted) |
| 12. Are matrices co | rrectly identified on Chain | of Custody? | Yes 🗹 | No 🗌 | Adjusted? | Scm, 08/10 |
| 13. Is it clear what a | analyses were requested? | | Yes 🗸 | No 🗌 | 1501 | MARIOGIA |
| - | times able to be met? tomer for authorization.) | | Yes 🗹 | No 🗌 | Checked by: | 60/0/1/20 |
| | ng (if applicable) | | | | | 08/10/23 |
| | fied of all discrepancies wi | th this order? | Yes 🗌 | No 🗌 | NA 🗸 | |
| Person N | otified: | Date: | | | | |
| By Whom | 1. | Via: | eMail P | hone Fax | ☐ In Person | |
| Regarding | g: | | | | | |
| Client Ins | tructions: | | Commission of the Commission o | | | |
| 16. Additional remains | arks: | | | | | |
| 17. Cooler Inform | | | | | | |
| Sociel IIIIOIIII | ution | | | | | |

| Cooler No | Temp °C | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|---------|-----------|-------------|---------|-----------|-----------|
| 1 | 1.9 | Good | Yes | Morty | | |

| Receiv | ed by | OC | D: 9/ | 20/2 | 023 | 12: | 25:17 P | W | | | | | | | | | | | Pa | ge 179 o |
|-------------------------|--------------------|---------------------------|-----------------------|-------------------|-------------------------|------------------|-----------------------------|-----------------|----------------|----------------------------|-------------------------|-----|----|--|---|---|-----|--|------------------|------------------|
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| ENVIDONMENTA | ANALYSIS LABORATOR | www.hallenvironmental.com | Albuquerque, NM 87109 | Fax 505-345-4107 | Analysis Request | | | (/ | 101 | -ime | 8270 (56 | | | | | | | | | |
| 2 | SI | onn | anbi | X | sis F | | | | | (AC | 8Seo (VC | | | | | | | | , | |
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| - | ANA | W | NE NE | 397 | | | CIMICO | 170 1 | - | | PAHs by | | | | | | - | | 1 | |
| 3 | 4 | Š | 4901 Hawkins NE | Tel. 505-345-3975 | | | 3/1/30 | | | | | | | | | | | | 10 | |
| | | | Haw | -50 | | | | | | | EDB (We | | | | | | | | 25 | |
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| 00 | 3 | 12 | 1 | | | | | | | | HEAL No. | | | | | | | | Date | Date |
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| | Rush | | | | - | | 2 | | | ١., | Preservative Type | 1 | | | | | | | | |
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| ime: | | u | 8 | | | er: | 1 | ON L | | ncludir | Pres | 2) | | | | | | | Via: | Via: |
| Turn-Around T | ard | Project Name: | Page 1 | | 4 | Project Manager: | 2.7 | | STATE STATES | Cooler Temp(including CF); | # | | | | | | | | -3 | |
| ron | □ Standard | t Na | 15 | t #: | 50 | t Ma | K | er: | # of Coolers: | Tel | Container Type and # | - V | | | | 1 | - | | Received by: | Received by: |
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| J. | 3 | | 3 | | | | | Az Co | 5 | | Matrix | in | | | | | 1 | | Relinquished by: | Relinquished by: |
| Chain-of-Custody Record | 4 | | 3 | E. | | | | | | | N | | | | | | | | Re | Re |
| i | 111 | | Ires | 7 | | :#X | age | :uc | (eu | 2 | Ф | 0 | | | | | | | S | |
| ha | 17 | | Add | | #: | Fa | Pack | tatio | 2 E | | Time | 20 | | | | | | | Time: | Time: |
| O | int: | | Mailing Address: | Va | ne # | email or Fax#: | © CA/QC Package: 25.0 | Accreditation: | FDD (Type) | | * | 8 | | | | | | | W 5 | 200 |
| Releas | Clie | | Mai | | Pho | em | O O | Acc | | | Date | 26 | | | | | | | Date: | Date: |
| Releas | ed to | Ima | ging | : 1/1 | 9/20 | 24 | 7:30:45 | AM | | | | | | | | | | | | |

| Chain-or-Custody Record | Larit-Alound Time: | |
|--|--|---|
| Client: Ensolon | □ Standard ☑Rush 8~10~3 3 | ANALYSTS LABODATODY |
| | .g | And Companying Company |
| Mailing Address: Cob S Kio Coch | 中 | 4901 Hawkins NF - Albuquerque NM 87109 |
| Q^{μ} | Project #: | |
| Phone #: | 05 A 133 239 | Analysis |
| email or Fax#: | Project Manager: | †*C |
| QA/QC Package: | | NS Sys |
| ☐ Standard ☐ Level 4 (Full Validation) | & Summers | PCF |
| Accreditation: ☐ Az Compliance | | 7 DR (1.4.1) (1.827((1.827() (1.92, 1.1) |
| □ EDD (Type) | olers: | AOA 100 o 100 o 100 o 100 o |
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Released to Imaging: 17 1921 4 4:30 Expression and be sebcontracted to the analytical report. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

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 267435

CONDITIONS

| Operator: | OGRID: |
|--------------------------------|---|
| Enterprise Field Services, LLC | 241602 |
| PO Box 4324 | Action Number: |
| Houston, TX 77210 | 267435 |
| | Action Type: |
| | [C-141] Release Corrective Action (C-141) |

CONDITIONS

| Created By | | Condition Date |
|---------------|------|-------------------|
| nvelez | None | 1/19/2024 |