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

Page 1 of 181

Incident ID	
District RP	
Facility ID	
Application ID	

## **Release Notification**

### **Responsible Party**

Responsible Party: Enterprise Field Services, LLC	OGRID: 241602
Contact Name: Thomas Long	Contact Telephone: 505-599-2286
Contact email:tjlong@eprod.com	Incident # (assigned by OCD) #) nAPP2320628649
Contact mailing address: 614 Reilly Ave, Farmington, NM 87401	·

### Location of Release Source

Latitude 36.65679

Longitude -107.364700

NAD 83 in decimal degrees to 5 decimal places)

Site Name: San Juan 28-5 #14	Site Type Natural Gas Gathering Pipeline
Date Release Discovered: 07/24/2023	Serial # (if applicable) <b>N/A</b>

Unit Letter	Section	Township	Range	County
N	16	28N	5W	San Juan

Surface Owner: State 🗌 Federal 🗌 Tribal 🛛 Private (Name: <u>Tommy Bolack</u>

## Nature and Volume of Release

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

Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)	
Produced Water	Volume Released (bbls)	Volume Recovered (bbls)	
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?		
Condensate	Volume Released (bbls):	Volume Recovered (bbls):	
Natural Gas	Volume Released (Mcf):	Volume Recovered (Mcf):	
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)	
Fire			

**Cause of Release**: On July 24, 2023, a flash fire occurred at the San Juan 28-5 #14 pipeline release site. The flash fire occurred while remediating the July 10, 2023 release. The fire was extinguished by handheld fire extinguishers. No injuries occurred. No emergency services responded. 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.

Inci	dent ID	
Dist	rict RP	
Faci	lity ID	
App	lication 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.

<b><u>Closure Report Attachment Checklist</u>: Each of the following items m</b>	ust be included in the closure report.	
A scaled site and sampling diagram as described in 19.15.29.11 NMAC		
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)		
Laboratory analyses of final sampling (Note: appropriate ODC Distri	ict 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 releases may endanger public health or the environment. The acceptance of a C-14 should their operations have failed to adequately investigate and remediated human health or the environment. In addition, OCD acceptance of a C-14 compliance with any other federal, state, or local laws and/or regulations. restore, reclaim, and re-vegetate the impacted surface area to the condition accordance with 19.15.29.13 NMAC including notification to the OCD when	se notifications and perform corrective actions for releases which I report by the OCD does not relieve the operator of liability e contamination that pose a threat to groundwater, surface water, I report does not relieve the operator of responsibility for The responsible party acknowledges they must substantially us that existed prior to the release or their final land use in	
Printed Name: Thomas Long Title: Senior Environmental Scientist		
Signature:	Date: <u>09-20-2023</u>	
	e <u>: (505) 599-2286</u>	
OCD Only		
Received by:	Date:	
Closure approval by the OCD does not relieve the responsible party of liab remediate contamination that poses a threat to groundwater, surface water, l party of compliance with any other federal, state, or local laws and/or regu	human health, or the environment nor does not relieve the responsible	
Closure Approved by: <u>Nelson Velez</u>	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

umm

Kyle Summers Senior Managing Geologist

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants

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

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- Appendix E Regulatory Correspondence
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- Appendix G Laboratory Data Sheets & Chain of Custody Documentation



#### 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:



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

Page 3

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

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

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

<sup>3</sup> – Benzene, Toluene, Ethylbenzene, and Total Xylenes (BTEX).

#### 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 (yd<sup>3</sup>) 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<sup>®</sup> 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.

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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.

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 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 yd<sup>3</sup> 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

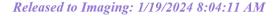
#### 9.1 Standard of Care

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.

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#### 9.3 Reliance

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

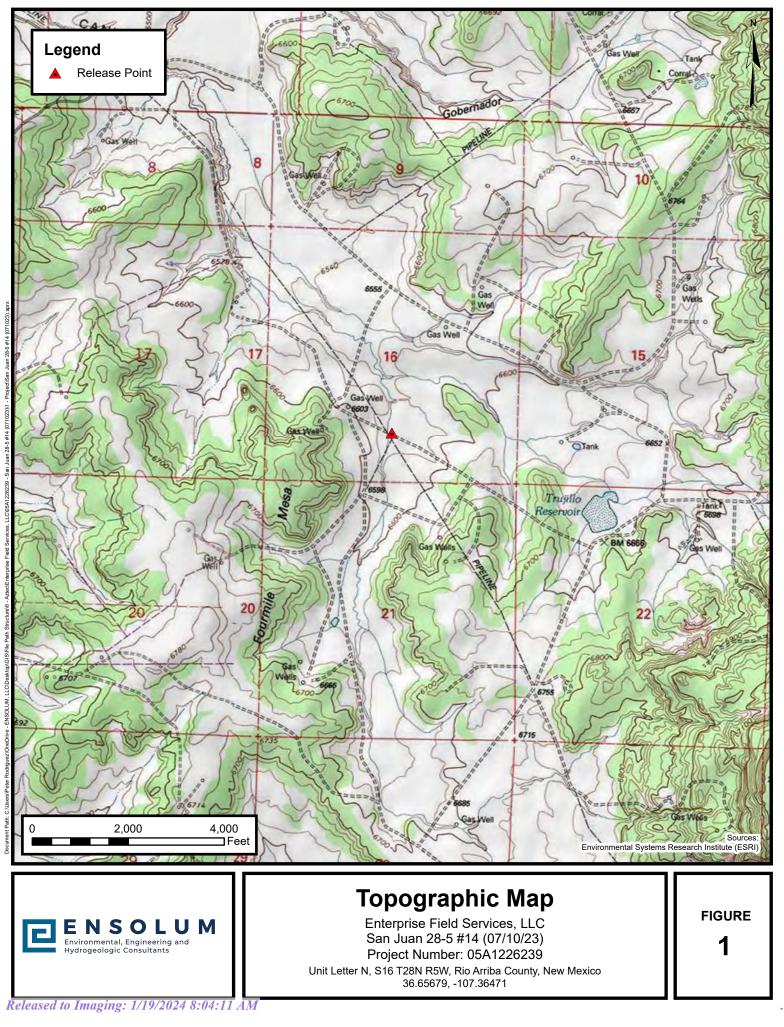




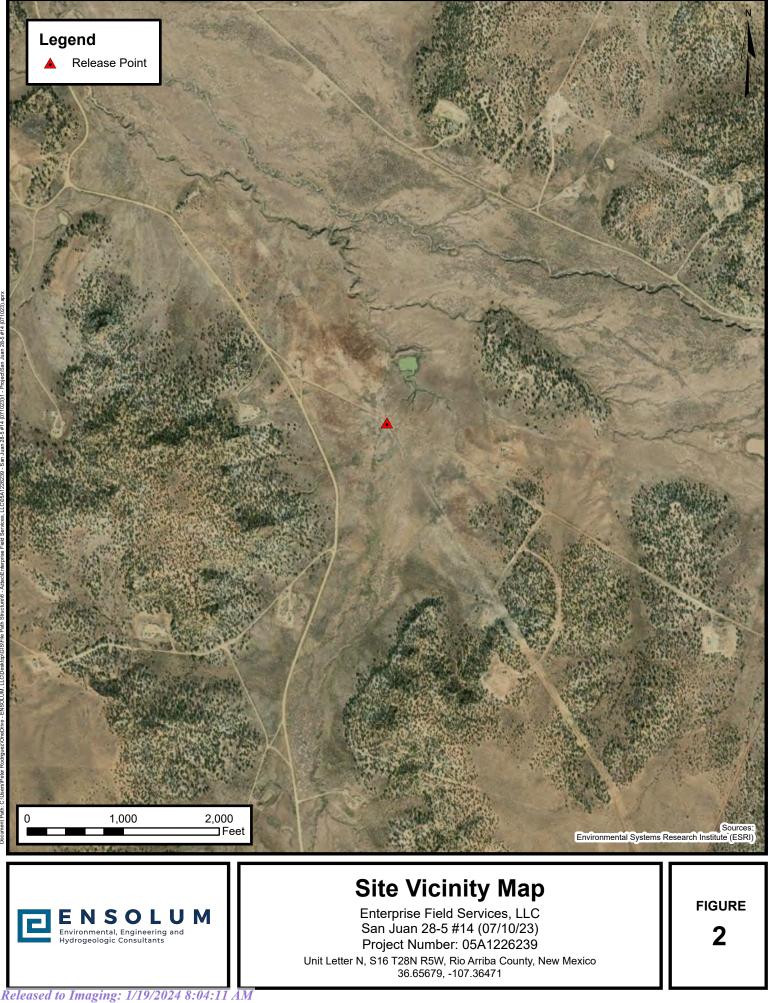
# **APPENDIX A**

# Figures

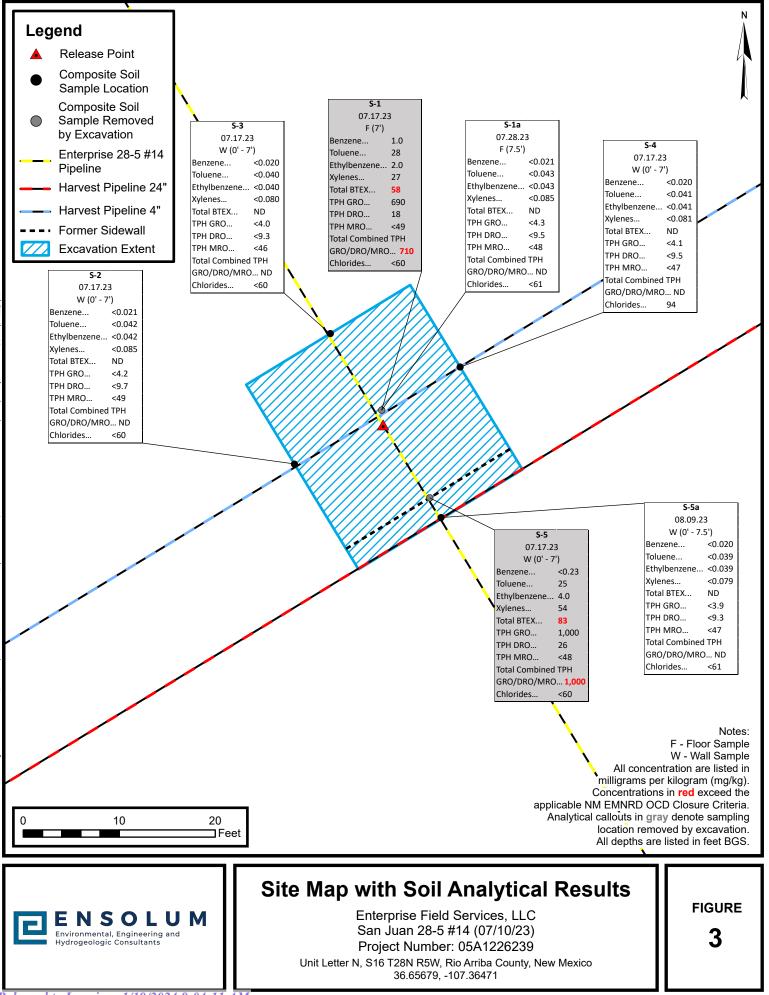
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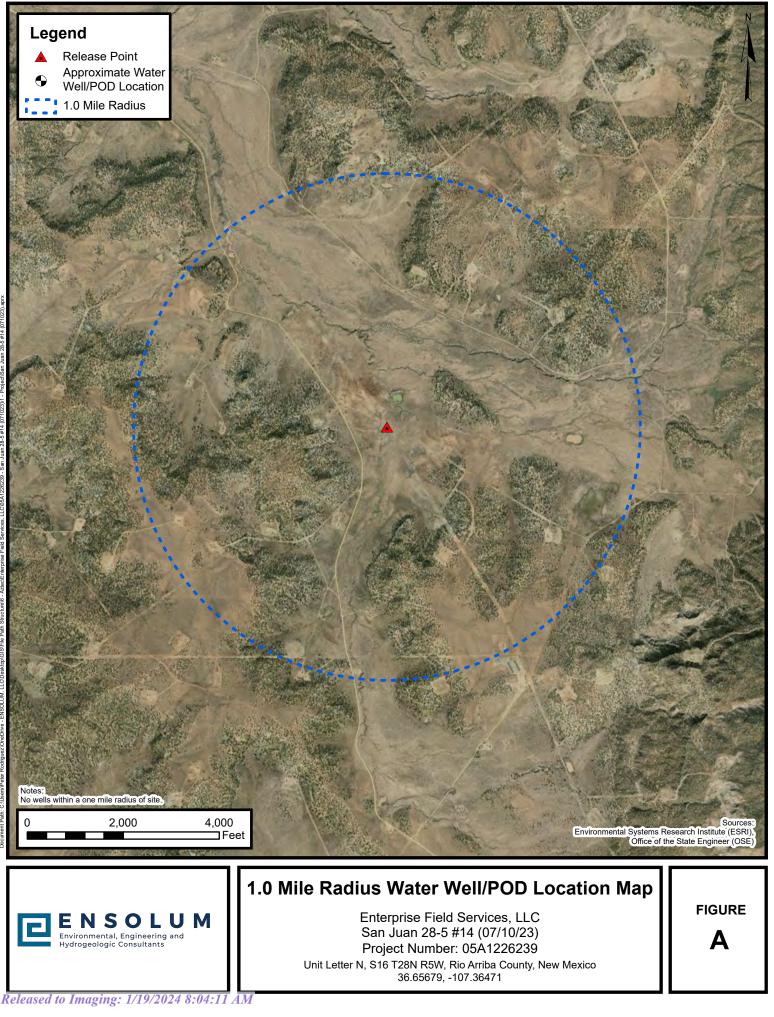
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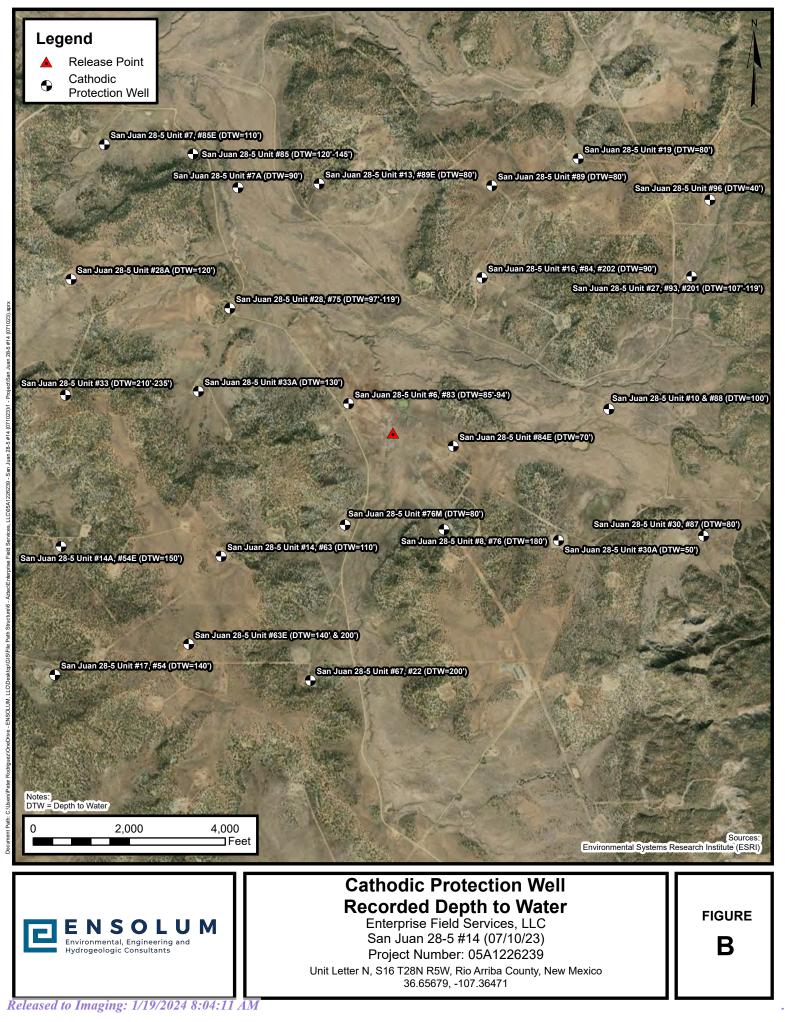


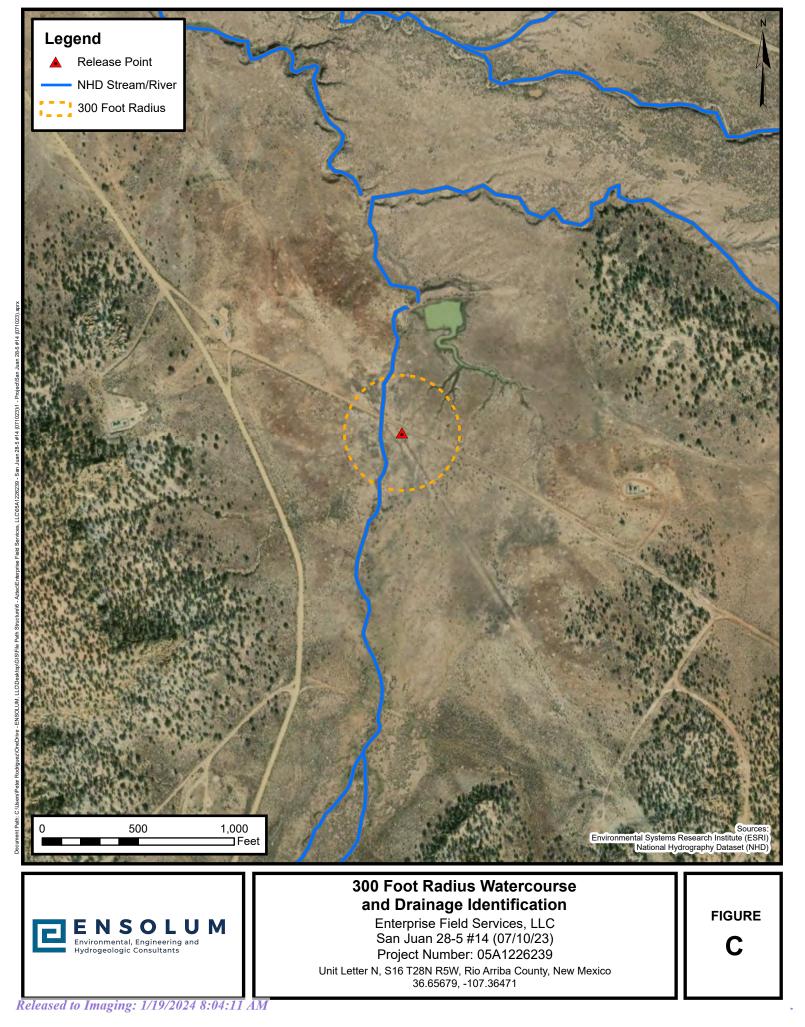
# APPENDIX B

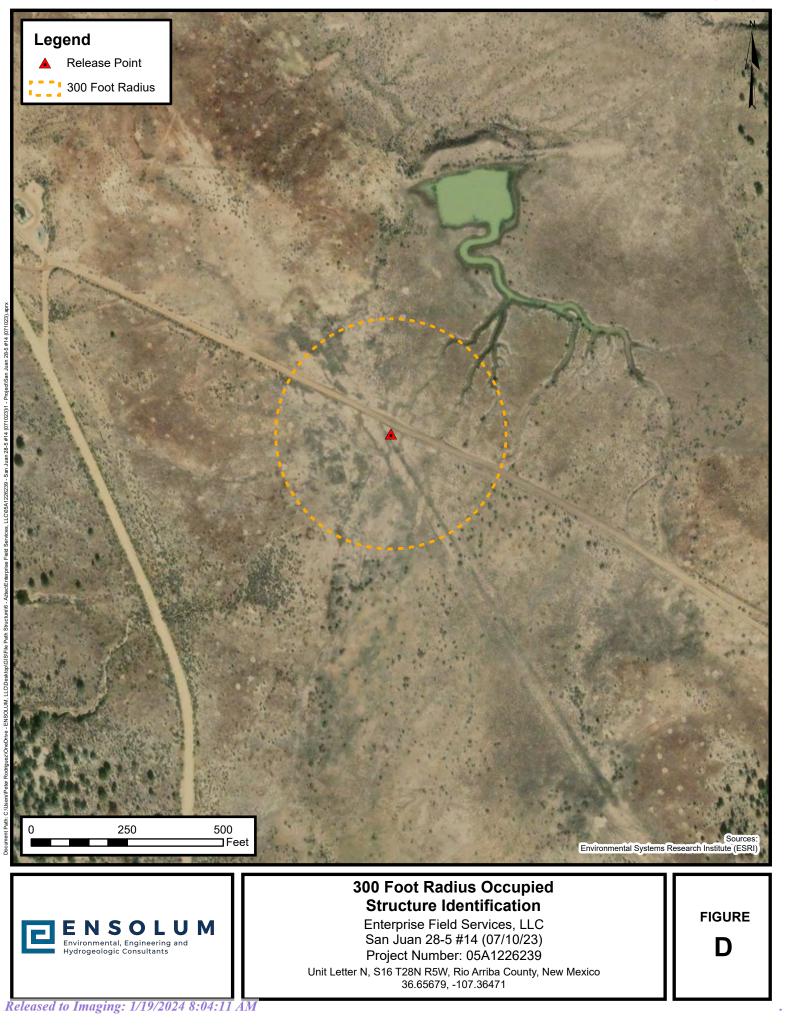
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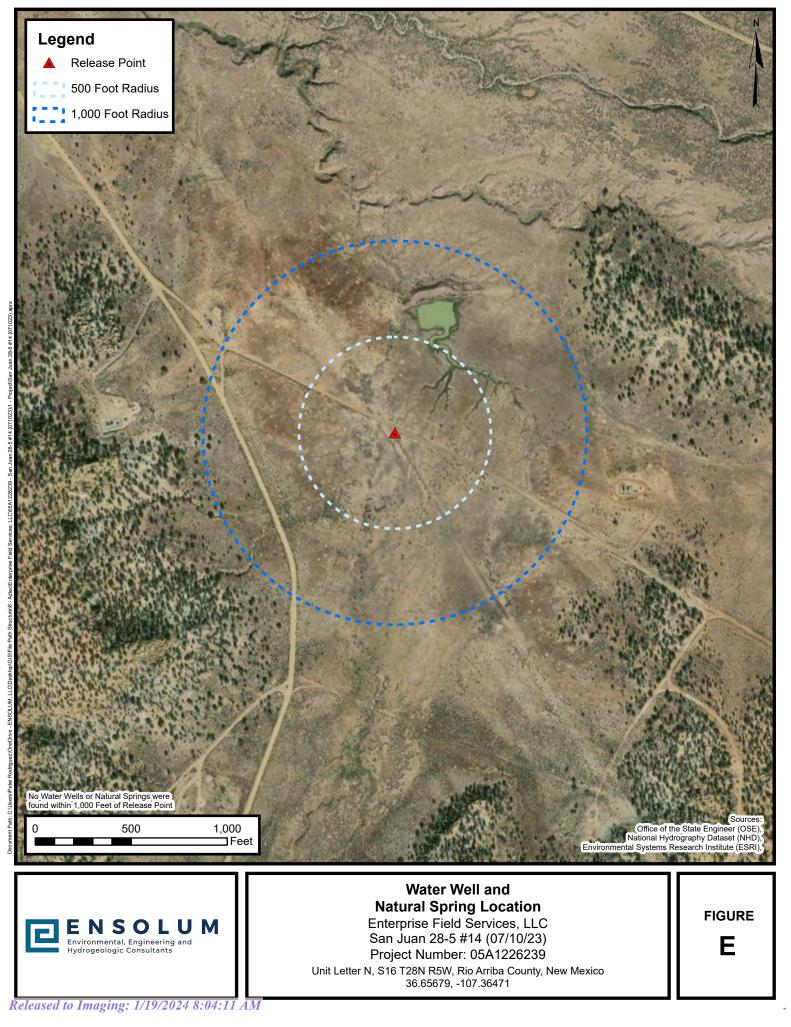


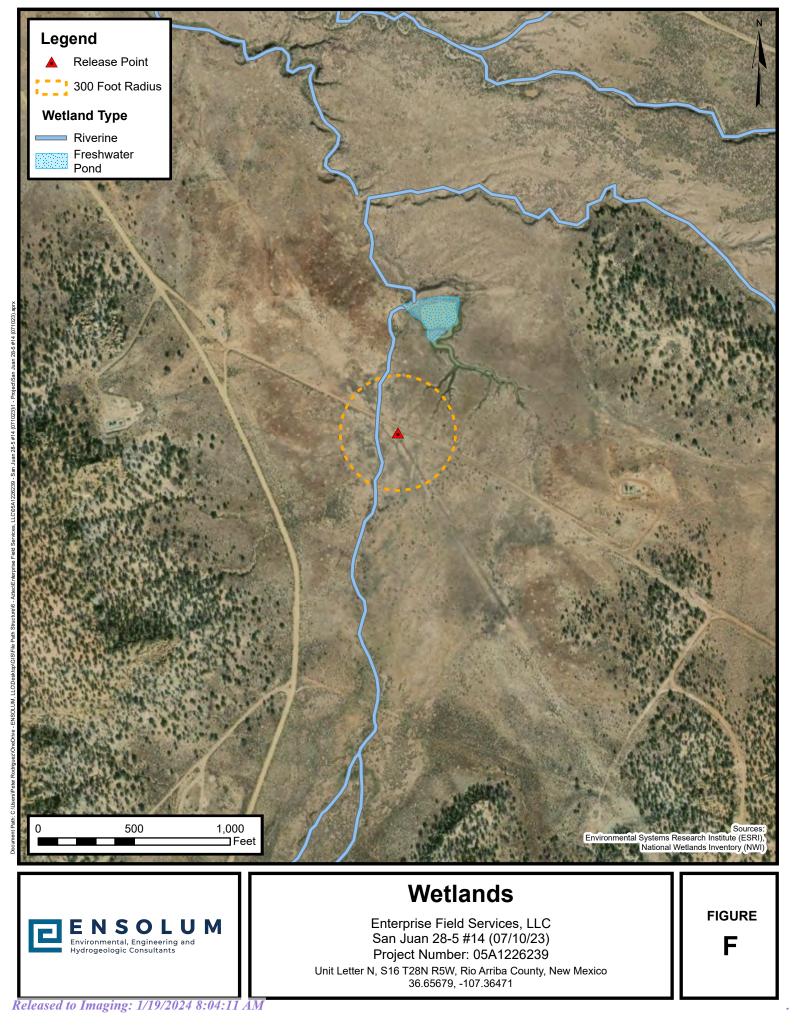
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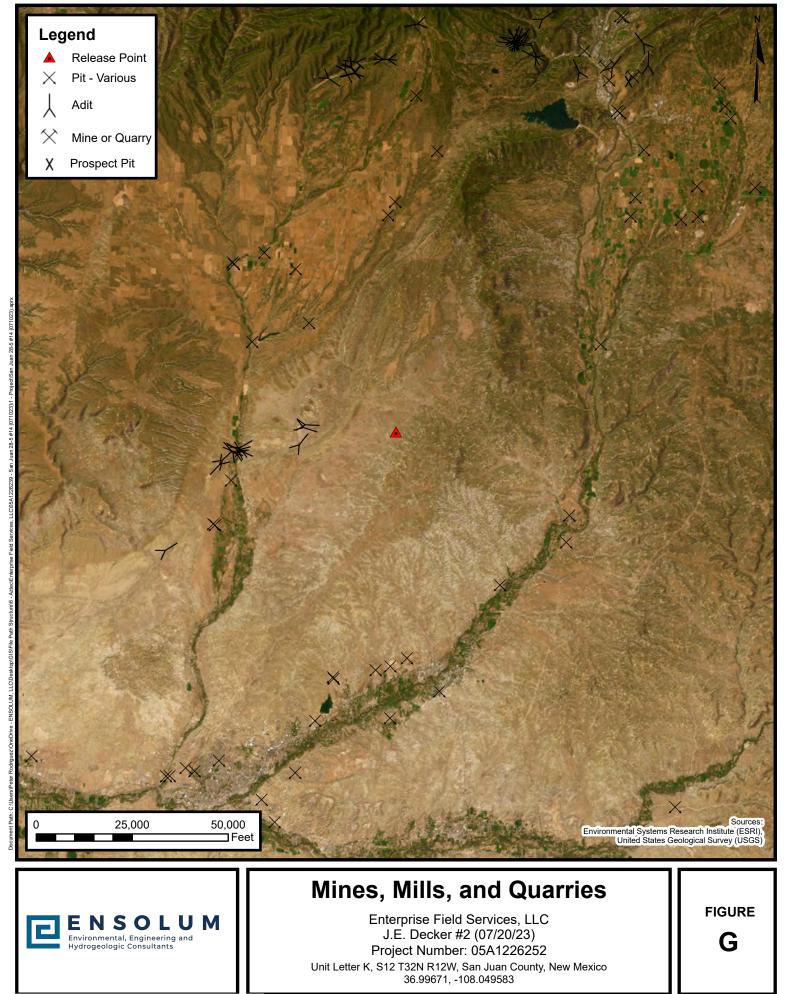


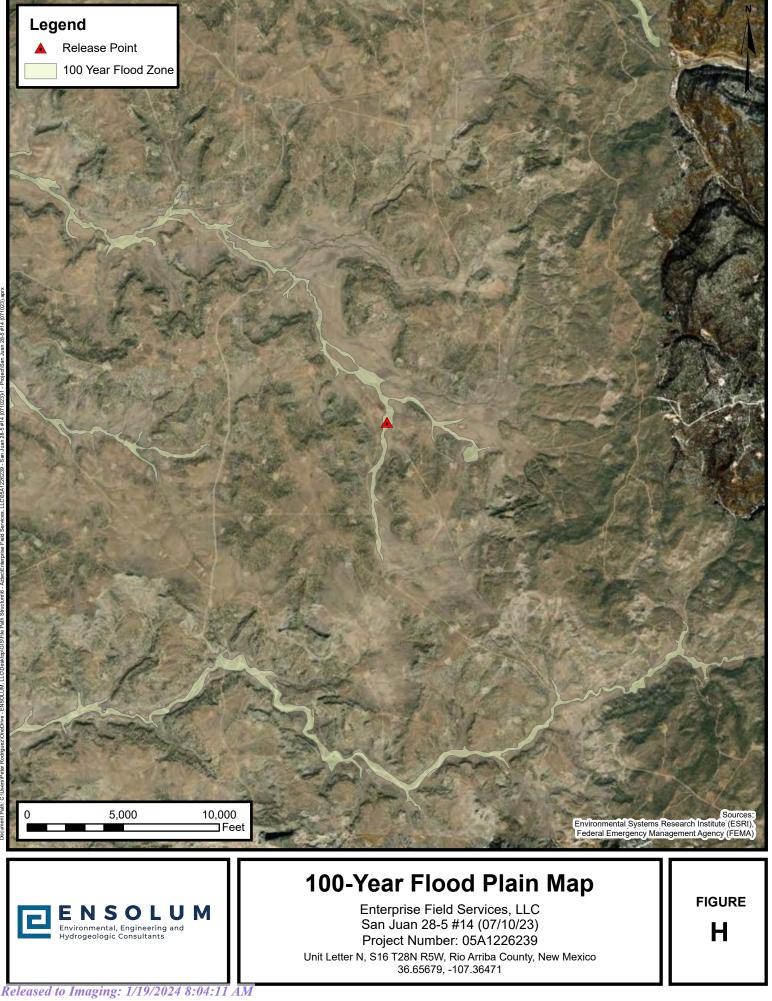














# New Mexico Office of the State Engineer Water Column/Average Depth to Water

No records found.

PLSS Search:

Section(s): 16, 8, 9, 10, 15, Township: 28N 17, 20, 21, 22

Range: 05W

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

Received by OCD: 9/20/2013 12:31:127M - 039 - 07416 **gg**ẽ 25 of 181 #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 <sup>SW</sup> Sec.<sup>16</sup> Twp <sup>28</sup> Rng <sup>5</sup> 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 N/A 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\_PI & Vent pipe perforations: 240' Remarks: <u>gb #1</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.

Received by Actor 2/20/2023,12:3	1:12 PM	WELL CASING		Page 26 of 181
	CATHODIC PRO	TECTION CONSTRUCT	TION REPORT	
Drilling Log (Attach Hereto)			Completion Da	··· 9-12-77 *

Well Name SAN JU	AN 28-	± 5 NN;+ •		SW16-28	3-5		CPS No.	18 W.	· · · · · ·
Type & Sıze B	It Used	3/4					Work Order	No #6: 52 #83: 54	521.19 702.19
Anode Hole De	•	Total Drilling R	ıg Tıme	Total Lbs. Coke Us 43	sed Lost Circ	culation Mat'l Us	ed No. Sacks	Mud Used	
Anode Depth # 1 <b>360</b>	# 2 <b>350</b>	# 3 <b>340</b>	# 4 <b>330</b>	# 5 <b>285</b>	# 6 275	# 7265	± 8 220	# 9 <b>2/0</b> .	# 10 200
Anode Output   # 1 <b>3.0</b>	(Amps) # 2 <b>3.2</b>	# 3 <b>3.5</b>	# 4 3.4	1	#6 <b>4.1</b>	#-7-4.0	× 8 4.2	# 9 5. /	# 10 4.6
Anode Depth # 11	# 12	# 13	# 14	¦≉ 15	¦# 16	¦# 17	   !# 18	  # 19	# 20
Anode Output (			1			1			
# 11	# 12	# 13	7 14	# 15	# 16	# 17	≄ 18	# 19	# 20
Total Circuit I Volts		mps 16.4	Ohms	0.68	No. 8 C.P. Cat	ole Used		No. 2 C.P. C	able Used

Remarks: Static \*6 600'SW=0.73, Static #83 600'SE=0.81. DRiller SAid MAKING WATER Between 85' \$94'. MAKING MORC WATER Botween 110'\$'118 DRilled to 120'. Next A.M. WATER STANding @190'. STARted Inj. @ 120'. PERSERD to 240'05 1" PVC VENT Pipe. Installed 365' 05 1"PVC VENT Pipe. Slugged 43 SACKS OF Coke. \*83 MARKED 1 Notch #6 MARKED 3 Notches Installed 60V 30A Rectifice. MAKING MARC WATER @ 180'

All Construction Completed GROUND BED LAFOUT SKETCH 458 4" Flow Line DISTRIBUTION: WHITE - Division Corrosion Office YELLOW - Area Corrosion-Office Originator File

Received the A.D. 78/20/2023 12:31:12 PM

#### El Paso Natural Gas Company ENGINEERING CALCULATION

ÿ)

Date: \_\_\_\_\_\_\_ By: \_\_\_\_\_\_\_ File: \_\_\_\_\_\_\_\_\_\_ ZC

}	SAN JUAN	28-5" NN, 4"	4 6	C1.11	6-28-5			52521.		
	SHA JUAN	28-5 NNit #	- 03	5001	6-28-5	11184		54 702.		
	5-12-4-12-46	600' SW =	0.73			- PRiller	ل <u>لما (</u> لرك	MAKINS WA	yek.	
	STATIC #83	600' SE=	0.8/			Between	- 85	5 94' MoR=	hop for	2
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Form 22-2 (Rev. 1-61)

Page 28 of 181

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EL PASO NATURAL GAS COMPANY

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DRILLING DEPARTMENT

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LEASE	<u> </u>			WELL NO.	11/8	CON	TRACTOR	Posey 1	Iril	lino Co R	G NO.		REP	ORT NO.		DATE 9.	11-79	19
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Elevatio	on <u>6582'</u> Com	pletion Date	9/28/77 To	otal Depth <u>320'</u>	Land Type*	N/A
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If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included.

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

Received by OCD: 9/20/2023 12:31:12 PM Page 30 of 181 Form 7-238 (Rev. 11-71) WELL CASING CATHODIC PROTECTION CONSTRUCTION REPORT DAILY LOG Completion Date <u>7</u> - 28 - 7 Drilling Log (Attach Hereto). Well Name 28-52 CPS No. Location NE16-28-5 1119 W. San JUZN 28-5 Work Order No. 53264.19-50-20 Type & Size Bit Used 184 - 54811.19-50-20 Anode Hole Depth 320 Total Drilling Rig Time Total Lbs. Coke Used Lost Circulation Mat'l Used No. Sacks Mud Used 1099ed 309 40 Sacks Anode Depth <u></u>#2 260 # 3 225 # 4 215 # 5 205 # 6 185 # 7 175 # 8 150 = 9 135 # 10 125 #1 **275** Anode Output (Amps) # 1 3.3 # 3 2.9 # 4 3.6 # 5 3.8 # 6 4.4 4-7- **3.2** ± 8 3.1 #9 4.1 # 10 3.3 1<sub>#2</sub> 2.7 Anode Depth # 17 # 19 # 20 # 15 # 16 # 18 # 11 # 13 # 14 # 12 Anode Output (Amps) # 11 # 12 # 13 # 14 # 15 # 16 # 17 # 18 # 19 # 20 No. 8 C.P. Cable Used No. 2 C.P. Cable Used Total Circuit Resistance .87 14.2 Ohms Volts 12,4 Amps 28-5#16 28.5 84 600'NE = 75 600 NW= 74 Remarks: STatics 2 90' DRUIER Said hit Water aT INSTALLED 280' of I' VENT Pipe, Perforated 200' of VENT Pipe 10 GRAPHITE ANODES Slurryed 40 Sacks COKe 60V 30A Rect 1 Notch = 28.5#84 #16 Norches = 28-5 STUB Pole All Construction Completed 28-5# 84 GROUND BED LAYOUT SKETCH 28-5-214 RecT. 80.51 DISTRIBUTION: WHITE - Division Corrosion, Office 5824 YELLOW - Area Corrosion Office PINK. – Originator File 

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Received by AGD 36	0/20/2023 12:31:12 PM	El Paso Natural Gas Company ENGINEERING CALCULI	ATION	Page 31 of 181           Sheet: 7 - 2.8 - 7 >           By:
	SON JUON 28.57 SON JUON 28.57 NE16-28.5 CPS-1119 W	#80 W/0	180-53264.19 184-54811.19-	File: 50-20 50-20
MW         gals/moi           16.04         C1         6.4           30.07         C2         10.12           44.10         C3         10.42           58.12         iC4         12.38           58.12         nC4         11.93			DRIVER Said HIT FNSTAVIED 280'D Perforated 200'D Slurryed 40 3	+ 1" VENT Pipe
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#### EL PASO NATURAL GAS COMPANY

DRILLING DEPARTMENT

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DAILY DRILLING REPORT

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Operator <u>MERI</u>	DIAN OIL	Location:	Unit 0_Sec.1	6 Twp28 R
Name of Well/We	ells or Pipeline a	Serviced <u>SANJ</u>	UAN 28-5 UNIT #	84E
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Elevation6575' (	Completion Date 6	22/87 Total Dep	oth 400' Lan	d Type* N
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If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included.

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

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Ditch & 2 Cables 2/2 //024 201 lieter Pole: ----

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## BURG CORROSION SYSTEMS / //C\_

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## **BURGE CORROSION SYSTEMS, INC.**

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70	140	shale			
140	160	sand			
160	260	shale			
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	Lease or Unit	Well 5528-5	484E	pth Formatio	Wa Z	ter, B/D	
	Type of Water (Produced,		Sampling Point G.1	the state is a second to second the		npled By J. Evans	
	DISSOLVED SOLIDS			IER PROPERTIE	<b>S</b>	8.85	
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\$	67 #-85 E - 30-039-23834
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	DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS NORTHWESTERN NEW MEXICO (Submit 3 copies to OCD Aztec Office)
	Operator <u>MERIDIAN OIL</u> Location: Unit <sup>SW</sup> Sec. <sup>8</sup> Twp <sup>28</sup> Rng <sup>5</sup>
	Name of Well/Wells or Pipeline Serviced <u>SAN JUAN 28-5 UNIT #7, #85E</u>
	cps 1107w
	Elevation <u>6549'</u> Completion Date <u>9/7/77</u> Total Depth <u>320'</u> Land Type* <u>N/A</u>
	Casing, Sizes, Types & DepthsN/A
	If Casing is cemented, show amounts & types used <u>N/A</u>
	If Cement or Bentonite Plugs have been placed, show depths & amounts used
	If Cement or Bentonite Plugs have been placed, show depths & amounts used
	If Cement or Bentonite Plugs have been placed, show depths & amounts used
	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:
	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. <u>110'</u>
	If Cement or Bentonite Plugs have been placed, show depths & amounts used <pre>N/A</pre> Depths & thickness of water zones with description of water when possible: Fresh, Clear, Salty, Sulphur, Etc
	If Cement or Bentonite Plugs have been placed, show depths & amounts used         N/A         Depths & thickness of water zones with description of water when possible:         Fresh, Clear, Salty, Sulphur, Etc.         110'         Depths gas encountered:       N/A         Type & amount of coke breeze used:       57 SACKS
	If Cement or Bentonite Plugs have been placed, show depths & amounts used         N/A         Depths & thickness of water zones with description of water when possible:         Fresh, Clear, Salty, Sulphur, Etc.         110'         Depths gas encountered:       N/A         Type & amount of coke breeze used:       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'
	If Cement or Bentonite Plugs have been placed, show depths & amounts used <pre></pre>

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

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

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Form 7-238 (Rev. 11-71)

WELL CASING CATHODIC PROTECTION CONSTRUCTION REPORT DAILY LOG

Anode Hole Depth 320       Total Drilling Rig Time       Total Lbs. Coke Used       Lost Circulation Mat'l Used       No. Sacks Mud Used         Anode Depth       # 1 265       # 2 2555       # 3 245       # 4235       # 5 225       # 6 215       # 7 160       # 8 150       # 9 140         Anode Output (Amps)       # 1 2.5       # 2 3.2       # 3 2.9       # 4 2.9       # 5 2.8       # 6 3.6       # -7-3.8       # 8 4.6       # 9 3.5         Anode Depth       # 11       # 12       # 13       # 14       # 15       # 16       # 17       # 18       # 19         Anode Output (Amps)       # 12       # 13       # 14       # 15       # 16       # 17       # 18       # 19	~	No.	Work Order	, <u>.</u> ,, .	5	SW 8-28-	7	-5 Novit " 6 3/4"	Ryt Head	<b>SAN JU</b> Type & Size
Anode Depth         # 1 265       # 2255       # 3 245       # 4235       # 5225       # 6215       # 7 160       # 8 150       # 9 140         Anode Output (Amps)       # 1 2.5       # 2 3.2       # 3 2.9       # 4 2.9       # 5 2.8       # 6 3.6       # -7-3.8       # 8 4.6       # 9 3.5         Anode Depth       # 11       # 12       # 13       # 14       # 15       # 16       # 17       # 18       # 19         Anode Output (Amps)	9			culation Mat'l U	sed Lost Circ		g Time ]		Depth 320	
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# 11  # 12  # 13  # 14  # 15 ·  # 16  # 17  # 18  # 19	# 20	<i>#</i> 19	# 18	¦ ¦# 17	¦# 16	I  # 15 -	¦# 14	# 13	t (Åmps)	Anode Outpu ≉ 11
	Jable Used	No. 2 C.P. Cal		ble Used	No. 8 C.P. Ca		1			
emarks: Static 600'SE 0.75. DRillen SAid MAKING WATER @ 110.	,	@ 110'.	water	MAKING	n Said					

Installed 400 16 A Rectifica & Stub Pole.

All Construction Completed

C (Signature)

6549

GROUND BED LAYOUT SKETCH

DISTRIBUTION: WHITE – Division Corrosion Office YELLOW – Area Corrosion Office PINK – Originator File

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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

LEASE	WELL NO.	NO7WOI	ITRACTOR	Osenth	Ding Co.	RIG NO.		REP	ORT NO	Э.	DATE 97	> ファ 19'
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N/A Depths & thickness of wat Fresh, Clear, Salty, Sulp Depths gas encountered: Type & amount of coke bree	220' <b>MAY 31 1991</b>
N/A Depths & thickness of wat Fresh, Clear, Salty, Sulp Depths gas encountered: Type & amount of coke bree Depths anodes placed:420', Depths vent pipes placed:	ter zones with description of water when possible         ohur, Etc.       120'-145', 175'-190'         N/A         eeze used:       50 SACKS         360', 350', 340', 270', 260', 250', 240', 230', 220'         425' OF 1" PVC VOIE EIVE         220'
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	lugs have been placed, show depths & amounts used
If Casing is cemented, sh	now amounts & types usedN/A
Casing, Sizes, Types & De	epthsN/A
	Date 10/12/77 Total Depth 470' Land Type* N/A
	cps 1106w
Name of Well/Wells or Pip	peline Serviced SAN JUAN 28-5 UNIT #85
Operator <u>MERIDIAN OIL</u>	Location: Unit <u>SE</u> Sec. <u>8</u> Twp <u>28</u> Rng <u>5</u>
	DEEP GROUND BED CATHODIC PROTECTION WELLS NORTHWESTERN NEW MEXICO t 3 copies to OCD Aztec Office)
6 30-039-	-20358

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.

S. Company Received by CD

WELL CASING DIC PROTECTION CONSTRUCTION REPORT Drilling Log (Attach Hereto). Well Name SAN JUAN Completion Date 10-17 8-28-5 CPS N 63/1 Anode Hole Depth 470 106 i Total Drilling Rig Time Work Order No 451 Coke Used 54812.19 Lost Circulation Mat'l Used 50 1420 2 360 Sacks Mud Used No Anode Output (Amps) 350 # 4 340 1# 5 270 # 1 3.0 # 6260 # 7 250 # 2 3.2 # 3 3.8 # 8240 Anode Depth # 4 3.5 #9 230\* # 5 2.9 # 6 3.0 # 10 220 <u># 11 /50</u> # 12 135 -1# 7-2.9 # 13 Anode Output (Amps) # 8 70 # 9 3 / \$ 14 # 10 Z 15 115.5 # 16 # 12 3.4. # 17 Total Circuit Resistanc # 13 # 18 # 14 # 19 Volts 11. 7 #15 # 20 DURIRON # 16 Amps 14.3 Ohms 2 PLATINUM Static 600 w = 0.67 Remarks: AMPS OHMS Andes LOROSCO COKE AROUND PLAtinum Anodos Perferated 220'05," stallod PUC Vest Pipe to stalled 425' of I'PVC Vent Pipe. SturRynd Q5 COKE. Note: Platinum Anodes taped to Vent pipe. Anodes Connected to Junction Box. DuRikon Andes Inside tunction Box box 1.1.1 D.1. Not Connected Uptiny, All Construction Completed GROUND BED LAYOUT SKET

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El Paso Natural Gas Company ENGINEERING CALCULATION

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		NORTHWESTERN	ED CATHODIC PROTE NEW MEXICO OCD Aztec Office	
Operator_	MERIDIAN OIL INC		Location: Unit P	Sec. <u>8 Twp28 Rng</u>
Name of W	Vell/Wells or P	ipeline Servic	ed SAN JUAN 28-5	UNIT #7A
	······································		······································	cps 1881w
Elevation	6507'_Completio	on Date 7/28/87	_Total Deptn 280'	Land Type*_N/A
Casing, S	Sizes, Types &	Depths	80' OF 7" PVC CAS	
If Casing	; is cemented,	show amounts &	types used <u>N/</u>	<b>L</b>
If Cement	or Bentonite	Plugs have bee	n placed, show de	pths & amounts us
Depths &	thickness of w	ater zones wit	h description of	water when possib
Fresh, Cl	ear, Salty, Su	lphur, Etc.	90'	-
•	, , , , , ,			
Depths ga	s encountered:	N/A	<u> </u>	
	ount of coke b		N/A	
			00', 175', 160', 150	', 140', 135', 125'
	nt pipes place			
-	~		DEUEIU	
vent pipe	perforations:	105		
D- 1			MAY 3 11 1991	
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.

FLEVATION 6507 Received by OCD: 9/20/2023 12:31:12 PM Page 47 of 18 WELL CASING FM-07-0238 (Rev., 10-82) CATHODIC PROTECTION CONSTRUCTION REPORT DAILY LOG M.M. 95-5600, Completion Date Drilling Log (Attach Hereto) 1 Work Order # CPS # Well Name, Line or Plant Ins. Union Check Static 🕅 Good · Bad -82 SAN 28-5 # 7-A ۸ı JUAN Anode Type Location Size Bit Anode Size × . 63/4 ρ سې سېدو چې م<sup>6</sup>ما چو مړ 2 X 60 Duriron Lost Circulation Mat'l Used Depth Drilled Depth Logged Drilling Rig Time Total Lbs Goke Used No Sacks Mud Used 245 2 Anode Depth # 10/25 # 4 200 # 5 175 # 7 150 \* 9 1**35** #1230 # 3 210 # 6 160 # 8 140 # 2220 Anode Output (Amps) # 5 2.3 1 8 3.9 # 4 4.8 # 6 **3.3** # 7 4.9 # 3 4.4 \*93.1 # 10 3. 3.2 # 2 #1**3.8** Anode Depth # 15 # 16 # 17 # 18 # 19 # 20-# 11 # 12 # 13 # 14 Anode Output (Amps) # 15 # 17 # 18 # 11 # 12 # 13 # 14 # 16 # 19 # 20 No. 8 C.P. Cable Used No. 2 C.P. Cable Used Total Circuit Resistance 734 ,12 16.5 Ohms Amps Volts 300 ANODE would DriLLed Τo RAN Remarks: drilled 1/28/87 TO 280 Das RSING 245 21 ogged. Perfors Ted 24 V.C. 8TANDING Sample WATE WAS Q 0 4300.00 ۷, 40 v 16 Rectifier Size:\_\_ All Construction Completed-Addn'l Depth\_ 1020. \*\* 255 Depth Credit:\_ 7.50 J 60 45 J 30 Extra Cable: a 155 Ditch & 1 Cable:\_ 305.00 1 Signature K 25 'Meter Pole:\_ GROUND BED LAYOUT SKETCH 20' Meter Pole:\_ 10' Stub Pole:\_ Ditch - 2 Cable GB. 75.401 145' JUNCTION BOX 40.001 760.00 PVC CASING 80 6278.35 313.92 TAX 1881-WN 145 TOTAL 6592.27X

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		FOR DEEP GROU NORTHWES ubmit 3 copie	TERN NEW M	EXICO		
Operato	r MERIDIAN OIL		Locati	on: Unit <u>SW</u>	Sec.9Twp	28_Rng
Na <b>me</b> of	Well/Wells or	Pipeline Se	rviced	SAN JUAN 28-5	UNIT #13, #8	9E
				<u></u>	cps 1108w	
Elevati	on <u>6642'</u> Complet	ion Date 9/27	/77 _Total	Depth <u>320'</u>	Land Type	*_N/A
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If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included.

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

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Received by OCD: 9/20/2023 12:31:12 PM Page 51 of 181 Form 7:238 (Rev. 11-71) CATHODIC PROTEC TION CONSTRUCTION REPORT 9-27-77 Drilling Log (Attach Hereio). Completion Date Wéll Name San JUAN 28-5 713 Location CPS'No. 509-28-5 1108 Type & Size Bit Used Work Order No. 184-52964.19-50-20 Anode Hole Depth 320' No. Sacks Mud Used Total Drilling Rig Time Total Lbs. Coke Used Lost Circulation Mat<sup>\*</sup>i Used 1099ed. 308 40 Sacks Anode Depth 5180 #6145 #7135 #8125 #9115 ##10205 275 205 🖓 195 Anode Quiput (Amps) 4.0 |# 3 4.5 |# 4 3.3 # 5 3.6 # 6 4.0 # 7-4.9 # 8 5.3 # 9 5.2 # 10 4.9 # 14 # 17 Anode Output (Amps) tal Circuit Resista /olts 11:7 Amps 19:3 Ohms Remarks: DRILLER Said hit Water at 80 STOTIC- 600" S= .72 INSTALLED 280 OF MULENT Pipe Perforated 200 of VENT PIPE Slurryed 32 Socks COKE 40V 16A Rect Pole . STUB. All Construction Completed GROUND BED LAYOUT SKETCH A G.B rect DISTRIBUTION: WHITE - Division Corrosion Office YELLOW - Area Corrosion Office لولولكم PINK – Originator File

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MW         gals/mol           16.04         C1         6.4           30.07         C2         10.12           44.10         C3         10.42           58.12         IC4         12.38           58.12         IC4         12.38           72.15         IC5         13.85           100.21         C7         17.48           114/223         C8         19.39           28.05         C2         9.64           42.08         C3         9.67	707 c - 0V 16 A 1 708 Po 80 1; 2 80 1; 2 1: 4 90 1; 5; 0 23 10 26 28	28-5 108 W							DR11 INS	1/e /e 7/2// (0/2 a 0/2 a 0/2 0 0 0 0 0 0 0 0 0	s Sa led	Idi /		Jate J" Ven	R 27	180 Pipe
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#### EL PASO NATURAL GAS COMPANY

#### DRILLING DEPARTMENT

Page 53 of 181

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DAILY DRILLING REPORT

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Operat	or MERIDIAN OIL		- Location	: Unit SE	Sec. <u>9</u> _Twp2	8 Rng
Name c	of Well/Wells or	Pipeline Ser	cviced SAN	JUAN 28-5	UNIT #89	
<u> </u>						cps 1
Elevat	ion <u>6690'</u> Complet	ion Date 9/26	/77 _Total De	epth <u>320'</u>	Land Type	* N
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If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included.

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

Page 55 of 181

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Form 7-238 (Rev. 11-71)

WELL CASING CATHODIC PROTECTION CONSTRUCTION REPORT DAILY LOG

Drilling Log (Attach	Hereto).				C	Completion Da	te 9-2	6.77
Well Name	28-5#8	<b>9</b>	ation SF9	- 28-5	<u></u>	CPS No.	1117W	<u> </u>
Type & Size Bit Used	63/11			20-5		Work Order	No.	
node Hole Depth 32	Total Drilling R	ıg Time T	otal Lbs. Coke U 33 Sa		culation Mat <sup>i</sup> l U	Ised No. Sacks N	4987.19- Aud Used	-20-20
node Depth	255 # 3245	# 4 <b>23</b> 5	-T		# 7 <b>160</b>	# 8 150	#9 <b>140</b>	# 10 <b>/25</b>
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2 42 2 42	San Juan 28- SE 9-28-5 185 1117 W	57287	<u>12 184 - 54</u>	File:
MW         gals/mol           16.04         C1         6.4           30.07         C2         10.12           44.10         C3         10.42	STOTIC 600' N = ,6 401/64 Rect 5705 Pole	8	DT 80' INSTRICED Papers Roted	Sold HIT WOTER NexT AM Blew WOTER 288' Of 1" YENT PIPE 200' of JUNT DIPE 33 SECKS 20KE
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         iC6         15.57           100.21         iC7         17.2           100.21         C7         17.46           114.23         C8         19.39           28.05         C2         9.64	20 18 2-3	.6		
<u>42.08 C3<sup>-</sup> 9,67</u>		1.2 - 9 2.7 30 2.8 - - - - - - - - - - - - -		
· )	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		
MISC.         gals/mol           32.00         O2         3.37           28.01         CO         4.19           44.01         CO2         6.38           64.06         SO2         5.50           34.08         H2S         5.17           28.01         N2         4.16           2.02         H2         3.38	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	15 20 2.0 D 1.5 90 .4 300 1.0	0280 0255 0245 0235 0235	22 1.8 2.9 2.8 4.9 2.8 4.9 2.8 2.8 5.9
	180 .8 .9 .70 1.0 .6 .200 .7	1095+ed 308 10 TD 320 20	B 215 D 160 D 150 D 140 D 140 D 125	1.4     2.9       2.5     3.9       2.6     4.3       2.6     4.3       2.3     4.0
				11.6 VAITS 173 AMPS .67 Ohms

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#### EL PASO NATURAL GAS COMPANY

#### DRILLING DEPARTMENT

DAILY DRILLING REPORT

LEASE				WELL NO	1117		ONTRACTOR POSEY Drilling Co RIG NO.						REP	ORT NC	).	DA	ATE Sept	26	1977
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Page	58	of	181

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

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Operator MERIDIAN OIL	Location: Unit <sup>SW</sup> Sec <sup>10</sup> Twp <sup>28</sup> Rng <sup>5</sup>
Name of Well/Wells or Pipeline Serv:	ced 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
N/A	
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',	205', 195', 185', 175', 165', 155', 145'
Depths vent pipes placed: 240' OF	I" PVC VENTPECCENTARE
Vent pipe perforations: 200'	110 many 31 19991
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.

Received by OCD: 9/20/2023 12:31:12 PM Page 59 of 181 Form 7-238 (Rev. 11-71) WELL CASING CATHODIC PROTECTION CONSTRUCTION REPORT DALLY LOG Completion Date 9-28-77 Drilling Log (Attach Hereto). Well Name CPS No. .ocation - JN;+ #19 SW10-28-5 1109W SAN JUAN Type & Size Bit Used Work Order No. 63/2 53263.1 Anode Hole Depth 320 Total Drilling Rig Time Total Lbs. Coke Used Lost Circulation Mat'l Used No. Sacks Mud Used 40 Longed 313 235 # 4 205 # 5/95 #7 175 #8 165 #9 155 # 2 ZZ5 # 3 2 15 # 6 185 1# 10 145 Anode Output (Amps) # 4 3.5 # 5 2.6 #14.0 # 3 4.8 4-7- **3.** 2 # 2 5.0 # 6 **3. 7** 1= 8 4.5 1#9 5.3 # 10 4.6 Anode Depth # 12 # 13 # 11 # 14 # 15 # 16 <sup>1</sup># 17 # 18 # 19 # 20 Anode Output (Amps) # 15 # 17 # 11 # 12 # 13 ≈ 14 # 16 # 18 # 19 # 20 Total Circuit Resistance No. 8 C.P. Cable Used No. 2 C.P. Cable Used Amps 16.0 Ohms 0.70 Volts 11.Z Remarks: Static 600' E= 0.79. DRiller SAid MAKing Water @ 80' StARted Inj. @140'. Perserated 200'051" Pue vent Pipe. Installed 240'05 1" Puc Vent Pipe, slurkyed 40 SACKS Of Coke. 4.1. INSTAlled HOV 16 A Rectifier & Stub Pole All Construction Completed 92 (Signature) der. GROUND BED LAYOUT SKETCH DISTRIBUTION: WHITE - Division Corrosion Office 1054 YELLOW - Area Corrosion Office PINK - Originator File. . ; ? - Line in the street .....

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#### El Paso Natural Gas Company ENGINEERING CALCULATION

Page 60 of 181

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gals/mol	Stub Pole				tws+4/22		
C1 6.4	0//0/010				Sherein, d	SAGKS 0	6 1 9 9 9
C2 10.12 C3 10.42					S 4KG/e.a		
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# EL PASO NATURAL GAS COMPANY

DRILLING DEPARTMENT

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DAILY DRILLING REPORT

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	🐑 SIG	NED: Toolpusher		Company Supervisor	

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Page 62 of 181 Received by OCD:022023 12:31:12 PM 30-039-21864 DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS NORTHWESTERN NEW MEXICO (Submit 3 copies to OCD Aztec Office) Location: Unit <sup>SE</sup> Sec.<sup>10</sup> Twp  $^{28}$  Rng  $^5$ Operator MERIDIAN OIL Name of Well/Wells or Pipeline Serviced <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 been placed, show depths & amounts used N/A Depths & thickness of water zones with description of water when possible: Fresh, Clear, Salty, Sulphur, Etc. 40' SAMPLE TAKEN Depths gas encountered: N/A 44 SACKS Type & amount of coke breeze used: Depths anodes placed: 375', 355', 340', 320', 290', 270', 255', 245', 235', 210' Depths vent pipes placed: 420' MAY 31 1991 Vent pipe perforations: 360' OIL CON. DIVJ Remarks: gb #1 DIST. 3

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

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

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tach Hereto).	• 6	54		C	ompletion Da	te	-80
	2 2 0	60 AN	opes		ICPS No.	. <u></u>	ngi
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Amps 11.9	Ohms	,60	, NO. 8 C.P. Cal	ble Used ,		NO. 2 C.P. Cu	Die Osediar
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### El Paso Natural Gas Company

Page 64 of 181

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Form 7 1 (Rev 9-77)	/20/2023 12:31:12 PM	El Paso Natural Gas ENGINEERING CA		$\begin{array}{c} Page \ 04 \ of \ 18 \\ \hline \\ \text{Sheet:}  & \underbrace{ 01 \\ - 2 - 8 \\ \hline \\ \end{array}$
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### EL PASO NATURAL GAS COMPANY SAN JUAN DIVISION FARMINGTON, NEW MEXICO PRODUCTION DEPARTMENT WATER ANALYSIS

	Analysis No. 1-9913		Date6	-23-80		
	<b>Operator<u>El Paso</u> Natural</b>	Gas	Well Name S	an Juan 28-5	¥96	
	Location SE 10-28-5	······································	County Rio Arr	iba State	New Mexico	
	FieldBasin		Formation D	akota		
	Sampled From CPS				<b></b>	
	Date Sampled 6-2-80		Ву		·····	, *
	Tbg. Press	Csg.	Suri	Eace Csg. Pres	S	
	ppm Sodium 1035	epm 45 ···	Chloride	<b>י אין</b> 10 - געריין אין אין אין אין אין אין אין אין אין	epm	- * - *  -
	Calcium 204	10 -	Bicarbonate 1	.37	2	•
	Magnesium 16	1	Sulfate 26	600	54	
	IronNo Test		Carbonate		0	
	H <sub>2</sub> SPresent		Hydroxide	0	0	
	cc: C.B. O'Nan		Total Solids D:			
	R.A. Ullrich E.R. Paulek		рН		7 0	
	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 <sup>0</sup> F	•
	File			- Renetalau		
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Received by OCD: 9/20/2023 12:31:12 PM 10-30.039-07417 ----08-30-039-20475 DATA SHEET FOR DEEP GROUND BED CATHODIC, PROTECTION WELLS NORTHWESTERN NEW MEXICO 1160 Meridian Location: Unit K Sec. 15 Twp 28 Rng 5 Operator Name of Well/Wells or Pipeline Serviced SAN JUAN 28-#88 Elevation Completion Date 8-28-91 Total Depth 405 Land Type Casing Strings, Sizes, Types & Depths If Casing Strings are cemented, show amounts & types used  $\sqrt{e_5} - 22$ SACKS NEAT CEMENT If Cement or Bentonite Plugs have been placed, show depths & amounts used NO. Depths & thickness of water zones with description of water: Fresh, Clear, Salty, Sulphur, Etc.\_\_ Fresh 100 Depths gas encountered: NO Ground bed depth with type & amount of coke breeze used:  $40.5' \omega + 1$ 15 bags Loresco Type SW + 88 bags Asbury 4518 Flo Coike Depths anodes placed: 375, 365, 303, 294, 285,240, 230 220, 211, 20 2,145 Depths vent pipes placed: 405 Vent pipe perforations: DOTTOM 300' FEB2 41992 Remarks: OIL CON. DIV. If any of the above data is unavailable, please indicate so. Copies of all

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

Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee. If Federal or Indian, add Lease Number. Received by OCD: 9/20/2023 12:31:12 PM

-Page 68 of 181

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185		·	380	1.6		575			$\frac{11}{12}$	145	3.5	6.4
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2 <u>40</u> 245	2.7		435			<u>630</u> 635			23			
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265	1.3		460		·	655			28			
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### Received by OCD: 9/20/2023 12:31:12 PM

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Received	by OCD: 9/20/2023 12:31:12 PM	API WATER ANALYS	S REPOR FORM		Page 69 of 181
	Laboratory No. 25910830- Company MERIDIAN O	1 <u> </u>	Sample No. /// (6 (L)	Date Sampled 8/28/91	
	Field	Legal Description KI5-Z8-	5 County or Parish Rio Arri	-iba State N.M.	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Lease or Unit W	Vell 5 <i>J 18-5 #10</i> Sampling Poin	Depth Formation	Water, B/D Sampled By	<b>TECH,</b> Inc. 333 East Main
, , ,	L	GROUN	0 BED 100'	MRW	Farmington New Mexico
, * 1	DISSOLVED SOLIDS	i i	OTHER PROPERTIES		87401
		480 21	pH Specific Gravity, 60/60 F. Resistivity (ohm-meters) <u>70</u> F.	8,3 1,0028 5,70	505/327-3311
	ANIONS		Total Dissolved Soli	ds (calc.)	
а 4 к. • •	Sulfate, So <sub>4</sub>	110 <u>3.0</u> 790 <u>16</u> 0 <u>0</u> 310 <u>5.0</u>	Iron, Fe (total) Sulfide, as H <sub>2</sub> S		
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by QCD: 9/20/.	2023 13:34:12 P1 93- 201 -	M 30 - 03	39-0744	12		Page 7
- 970	93-	30 03				
、 •	201 -	$\frac{2}{30} = 03$	59 24474	φ ι		
			P GROUND BED			IFTTC
	DAIA SII	NO	RTHWESTERN N copies to O	EW MEXICO		6113
Operat	or <u>MERI</u>	DIAN OIL	Lo	cation: Unit	NE_Sec.15	Twp_28 Rng
, Name o	f Well/Wel	ls or Pipel:	ine Serviced	SAN JUAN 2	28-5 UNIT #2	7, #93, #20
					<u>c</u>	<u>ps 1115w</u>
Elevat	ion <u>6681'</u> Co	mpletion Dat	te <u>10/21/77</u> T	otal Depth <sup>_22</sup>	20'Land	Type*_N/A
Casing	, Sizes, T	ypes & Deptl	hs	N/A		
	<u> </u>		194M - 1		37.14	
If Cas	ing is ceme	ented, show	amounts & t	ypes used	N/A	
<u></u>		* / * to	amounts & t s have been			amounts u
If Cem	ent or Ben N/A	tonite Plugs		placed, show	depths &	
If Cem Depths	ent or Ben N/A & thicknes	tonite Plugs	s have been	placed, show	depths & of water w	
If Cem Depths	ent or Ben N/A & thicknes	tonite Plugs	s have been zones with	placed, show	depths & of water w	
If Cem Depths Fresh,	ent or Ben N/A & thicknes Clear, Sa	tonite Plugs	s have been zones with r, Etc	placed, show	depths & of water w	
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logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included.

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

Form 7-238 (Rev	1. 11-71)		CATUÓDIO		NI CONSTRUIS		NOT.		
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#### El Paso Natural Gas Company ENGINEERING CALCULATION

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Form 22-2 (Rev. 1-61)

Holo #2

EL PASO NATURAL GAS COMPANY

DRILLING DEPARTMENT

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Form	22-2	(Rev.	1-61)

Hohe EL PASO NATURAL GAS COMPANY DRILLING DEPARTMENT

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DAILY DRILLING REPORT

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LEASE WELL NO. 113 W CON	NTRACTOR POSEY DEILLING CO, RIG NO. DAYLIGHT	REPORT NO. DATE Oct. 3 197
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Driller Total Merc In Crew	Driller ALBERT L. POSEY Total Men In Crew	Driller Total Men In Crew
FROM TO FORMATION WT-BIT R.P.M.		FROM TO FORMATION WT.BIT R.B.M.
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Time Wt. Vis.	Time Wt. Vis.	Time Wt. Vis.
FROM TO TIME BREAK DOWN	FROM TO TIME BREAKDOWN	FROM TO TIME BREAKDOWN
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20 35 Shale		255 265 Sandy Adale 265 290 Shale
35 54 Sandolone	135 150 Sandstone	265 290 Shall
54 72 Shale	150 170 Shale	290 308 Red shale
72 98 Sanctalone	170 190 Sandstone	308 320 Blue
98 115 Shale	190 210 Rodsale	
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	Drilled - 320 ft	
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	$\circ$	npany Supervisor

35				
/		-		
DATA S		WESTERN NEW		
Operator <u>MER</u>	IDIAN OIL	Locat	ion: Unit_SW	Sec. <sup>17</sup> _Twp_ <sup>28</sup> I
Name of Well/We	lls or Pipeline	Serviced	SAN JUAN 28-5	UNIT #33
				cps 112
Elevation <u>6689'</u> C	ompletion Date_	9/1/77Tota	1 Depth <u>400'</u>	Land Type*
	Types & Depths_			
	mented, show amo ntonite Plugs ha			
If Cement or Be	ntonite Plugs ha	ave been pla	ced, show dep	pths & amounts
If Cement or Be N/A	ntonite Plugs ha	ave been pla nes with des	ced, show dep	pths & amounts
If Cement or Be N/A Depths & thickne Fresh, Clear, Sa	ntonite Plugs ha ess of water zon alty, Sulphur, M	ave been pla nes with des Etc	ced, show dep	pths & amounts
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If Cement or Ber N/A Depths & thickne Fresh, Clear, Sa Depths gas encou Type & amount of Depths anodes pi	ntonite Plugs ha ess of water zon alty, Sulphur, H untered: f coke breeze us laced: <u>360', 350',</u> es placed: rations:	ave been pla nes with des Etc N/A sed: 340', 330', 3 380' OF 1" PVC 200'	ced, show dep cription of v 210' - 235' 37 SACKS 00', 290', 280' VENT PIPE	pths & amounts water when pos

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

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

Page 77 of 181 WELL CASING Form 7-238 (Rev. 11-71) CATHODIC PROTECTION CONSTRUCTION REPORT. DAILY LOG Completion Date <u>9-1-77</u> Drilling Log (Attach Hereto). Well Name Location CPS No. 33 SW17- 28-5  $1121\omega$ 5, 5 28: Type & Size Bit Used Work' Order No. 63/ 184-20355-19-50-20 Anode Hole Depth 400 Lost Circulation Mat'l Used No. Sacks Mud Used . Total Drilling Rig Time Total Lbs. Coke Used• 37 Sacies 1099ed 400 Anode Depth #1360 #2350 #3 340 #4 330 #5 300 #6290 #7280 #8 \$ 2. # 9 269 # 10 245 Anode Output (Amps) J# 2 3.0 |# 3 3.3 |# 4 2.7 |# 5 3.0 |# 6 4-8 |#-7-4.9 # 10 3.8 #1 **3,0** 1# 8 # 9 Anode Depth # 11 220 # 12 210 # 13 # 14 # 15 # 16 # 20 # 17 # 18 # 19 Anode Output (Amps) 3.8 # 11 **2 7** # 12 # 15 # 16 # 17 # 18 # 19 Total Circuit Resistance No. 8 C.P. Cable Used No. 2 C.P. Cable Used Amps 20 . 57 Volts 11.3 Ohms Remarks: DRILLER Said HIT Water 210'10235' INSTALLED 350' I" VENT P. P. Perforated 200' of VENT Pipe Slurryod 37 Sack of Coke, NO Coke around # 8+9 ano added # 11+12 ANODE. 売 · 40V 16A Rect. STATIC 600' S.E. - .90 STUB Pole All Construction Completed Villas GROUND BED LAYOUT SKETCH 28.5 #33 DISTRIBUTION: - Division Corrosion Office G.B WHITE YELLOW - Area Corrosión Office - Originator, File PINK

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## El Paso Natural Gas Company ENGINEERING CALCULATION

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	File:	
SON JUON 28-5 33	W/0 184-20355,19-50-20	
SW17-28-5		
CPS 1121W		

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:	STATIC #33 600 SE, 90 37 Sacks of Core	DRIVER Sold HIT WATER 2T
		210'TO235' INSTAILED 380' I'VENT PIDE
MW gals/mol	JOV 16A Rect. STUD Pole	Perforated 200 of Vant Pipe
16.04 C1 6.4		
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 15.57 100.21 IC7 17.2		
100.21 C7 17.46 114.23 C8 19.39	210 1.4 60 1.9 D	
28.05 C2 <sup>2</sup> 9.64	1.6	
42 08 C3 <sup>2</sup> 9.67	20 1.0 20 1.4	
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	and the second	
	40.7 90 1.0	
	1.2 0 1.2	
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	60 2.5 D TD 400	
-	24 1099902400	
	20 2.5 0	
	2.4	
MISC.	80 2.3 0	
MW gals/mol 32.00 O2 3.37	2.4	
28.01 CO 4 19 44.01 CO2 6.38	90 23 0 1.9	
64 06         SO2         5.50           34.08         H2S         5.17	300 1.8 0	
28.01 N2 4.16		
2.02 H <sub>2</sub> 3.38	10' 1:2	0 360 2.4 30
	1.2	
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	1.7	(4) 550 2.0 2.7
	30 1.2 0.	
		0 290 2.6 4.8
	40 1.8 3	3280 $3.4$ $4.9$
	2.1 Nocike	
	50 17 B NO COKE	-9-260- <u>35-3-3-3-</u> D 245 2.8 3.8
No.	2.0	D 220 1.9 2.7
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SIGNED: Toolpusher \_

Company Supervisor

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<u>by</u>	955023 127728 30-039-07428 #75 30-039-20108	Page Ø oj
••	#75 30-039-20108	
	$\frac{1}{2}$	
	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 17 Twp 28	<sup>3</sup> Rng <sup>5</sup>
	Name of Well/Wells or Pipeline Serviced SAN JUAN 28-5 UNIT #28, #75	
		ps 1120w
	Elevation6589' Completion Date 9/8/77 Total Depth 320' Land Type*	N/A
	Casing, Sizes, Types & DepthsN/A	<u> </u>
	If Casing is cemented, show amounts & types used N/A	
	If Cement or Bentonite Plugs have been placed, show depths & amoun	ts use
	If Cement or Bentonite Plugs have been placed, show depths & amoun N/A	
	If Cement or Bentonite Plugs have been placed, show depths & amoun	
	If Cement or Bentonite Plugs have been placed, show depths & amoun N/A Depths & thickness of water zones with description of water when p Fresh, Clear, Salty, Sulphur, Etc. 97' OFCENED MAY 31 1991	
	If Cement or Bentonite Plugs have been placed, show depths & amoun N/A Depths & thickness of water zones with description of water when p Fresh, Clear, Salty, Sulphur, Etc. 97' OFCENTED MAY 31 1991. Depths gas encountered: N/A OIL CON. DIV.1	
	If Cement or Bentonite Plugs have been placed, show depths & amoun N/A Depths & thickness of water zones with description of water when p Fresh, Clear, Salty, Sulphur, Etc. 97' OFECENTED MAY 31 1991 Depths gas encountered: N/A OIL CON. DIV.1 Type & amount of coke breeze used: 38 SACKS DIST. 3	ossible
	If Cement or Bentonite Plugs have been placed, show depths & amoun N/A Depths & thickness of water zones with description of water when p Fresh, Clear, Salty, Sulphur, Etc. 97' <b>Press CENVED</b> MAY 31 1991, Depths gas encountered: N/A Depths gas encountered: N/A Type & amount of coke breeze used: 38 SACKS (DIST. 3 Depths anodes placed: 270', 260', 250', 230', 220', 210', 200', 165', 155',	ossible
	If Cement or Bentonite Plugs have been placed, show depths & amoun N/A Depths & thickness of water zones with description of water when p Fresh, Clear, Salty, Sulphur, Etc. 97' OFECENTED MAY 31 1991 Depths gas encountered: N/A OIL CON. DIV.1 Type & amount of coke breeze used: 38 SACKS DIST. 3	ossible
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If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included.

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

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Form 7-238 (Rev. 11-71)

WELL CASING CATHODIC PROTECTION CONSTRUCTION REPORT DAILY LOG

Drilling Log (Attach Hereto).

Completion Date <u>9-8-7</u>7\*\* Well Name # 28 # 75 CPS No. NE17-28-5 SAN JUAN 28-5 1120 H Work Order No#28= 53464 Type & Size Bit Used 631 \* 15= ` 54555 Anode Hole Depth 320 Lost Circulation Mat'l Used No. Sacks Mud Used Total Drilling Rig Time Total Lbs. Coke Used Lossed - 314 38 # 8 165 # 9 155 # 10 1 45 1270 # 2 **260** # 6 210 # 3 **250** # 4 230 |# 5 220 # 7200 Anode Output (Amps) #14.0 # 2 3.6 # 3 **3.9** # 4 3.0 # 5 3.9 # 6 3.4 i#-7-**3. 9** # 8 3.6 # 9 **5.3** # 105.7 Anode Depth # 17 # 19 # 11 # 13 # 14 # 15 # 16 # 18 # 20 # 12 Anode Output (Amps) # 12 # 13 # 14 # 15 # 16 # 17 # 18 # 19 # 20 No. 8 C.P. Cable Used No. 2 C.P. Cable Used Total Circuit Resistance Amps 14.2 Ohms 0.85 Volts 12.0

Remarks: Static #28 600'SW= 0.77, Static # 75 600'SE= 0.68 DRiller SAid MAKING WATER between 97' \$ 119'. DRilled to 120' Next AM. blew water. Started Inj. @120. Perserated 200 'of 1"PVC VENT Pipe Installed 280 'of I"Puc vent Pipe. Sluppyed 38 SACKS OF Coke. \* 28 MARKed I Notch # 75 MARKed 3 Notches INSTAlled 601 30A Rectifier & Stub Pole

GROUND BED LAYOUT SKETCH

346'

and Bed

All Construction Completed

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## El Paso Natural Gas Company ENGINEERING CALCULATION

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	Static = 28 60 Static = 95 600			· · · · ·		\$119 DRillo	to 130' MATCH	X+ A.M.
MW gais/mol							Started Inj. 10+1"Puc Ve-	
16.04 C1 6.4 30.07 C2 10.12							SFI' PUL VE	
44 10 C3 10.42 58.12 IC4 12.38						urryed 38	540/65 0	f co/ce
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#### EL PASO NATURAL GAS COMPANY

#### DRILLING DEPARTMENT

DAILY DRILLING REPORT

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	30-039-23173
NORTHWEST	D BED CATHODIC PROTECTION WELLS ERN NEW MEXICO to OCD Aztec Office)
Operator <u>MERIDIAN OIL INC.</u>	Location: Unit D_Sec. 17 Twp 28 Rng_
Name of Well/Wells or Pipeline Serv	vicedSAN JUAN 28-5 UNIT #28A
	cps 1882
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	s & types used N/A
if casing is cemenced, show amounts	s a cypes used
If Cement or Bentonite Plugs have b	been placed, show depths & amounts us
N/A	
Depths & thickness of water zones w	with description of water when possib
Fresh, Clear, Salty, Sulphur, Etc.	
	120' NO SAMPLE
recent orcert parel, parbuar, rec.	120' NO SAMPLE
Depths gas encountered: N/A	120' NO SAMPLE
Depths gas encountered:N/A Type & amount of coke breeze used:_	N/A
Depths gas encountered: N/A Type & amount of coke breeze used: Depths anodes placed: 355', 345', 265'	N/A ', 225', 215', 205', 195', 155', 145', 135'
Depths gas encountered: N/A Type & amount of coke breeze used: Depths anodes placed: 355', 345', 265' Depths vent pipes placed: N/A	N/A
Depths gas encountered: N/A Type & amount of coke breeze used: Depths anodes placed: 355', 345', 265'	N/A ', 225', 215', 205', 195', 155', 145', 135' DECENTION MAY 3 1'19911

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

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

Received by OCD: 9/20/2023 12:31:12 PM FM-07-0238 (Rev.-10-82)---WELL CASING-CATHODIC PROTECTION CONSTRUCTION REPORT DAILY LOG Moter lade 9552401 Completion Date 6-18-87 Drilling Log (Attach Hereto) Π CPS # Work Order # Ins. Union Check Well Name, Line or Plan 1882W L Good A 6644 Bad-188900 Size Bi ode Size 24-11 X 6E inon (0 21 Depth Logged 386 Depth Drilled Drilling Rig Time Total Lbs Goke Used Lost Circulation Mat'l Used No. Sacks Mud Used Ċ Anode Depth # 3 2 4.5 1 2 2 5 # 5 21.5 \* 6 2015 + 7/95 + 81.5.5 # 9145 355 \* 10 / 3 # 2 Anode Output (Amps) # 3-3.4 # 4.5.5 # 5.5.4 1#65,9 H7 4.7 1=84C # 10 4 #94.2 #24,0 #1.517 Anode Depth # 17 # 18 # 11 # 13 # 14 # 15 # 16 # 19 # 20 # 12 Anode Output (Amps) # 11 # 12 # 13 # 14 # 15 # 16 # 17 # 18 # 19 # 20 No. 2 C.P. Cable Used Total Circuit Resistance No. 8 C.P. Cable Used 9. C Volts / ~ · / Amps Ohms waterwas at 120' Vent pipe Remarks: Wa; 1/er said 80' No was 20 SOMP U water was 547 . . Rectifier Size: 40 16 v All Construction Completed Addn'l Depth\_ Depth Credit:\_\_ 7G Extra Cable: and Ditch & 1 Cable: (Signature) 25 'Meter Pole: GROUND BED LAYOUT SKETCH 20' Meter Pole: 10' Stub Pole: 96" Detch + 2 calle 3844 750 - rect: 305 - MP 40 - JB 61,23 Ditch 3 Icable 49.92 Ditch à 2 coble 31.50 Extra Lable 5081.65 253 254.08 5335.73 delet

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CPS 1882 W

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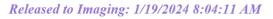
# BURGE CORROSION SYSTEMS, INC.

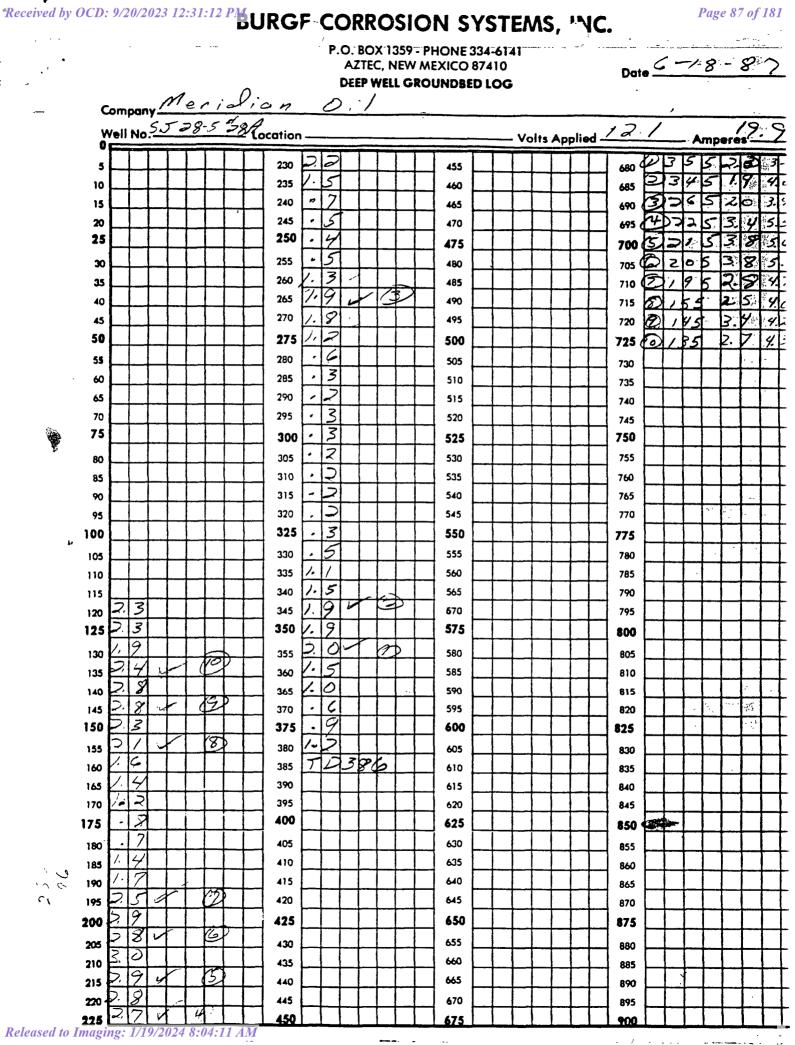
Page 86 of 181

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

WELL NAME:		WELL NUMBER:	Y DRILLING REPOR	TOWNSHIP:	RANGE:
San Juan 28-5		#28A/			
	WATER AT:	FEET:	HOLE MADE:		
	120'		6 3/4		
		DESCRIPTION OF			
FROM	то		FORMATION IS	S	COLOR
0	100	sandstone &	shale		
100	120	water sand			
120	170	shale & san	dy shale		
170	185	sandstone			and the second sec
185	235	shale			
235	260	sandstone			مان من المراجع br>المراجعة المراجع br>المراجع المراجع
260	275	shale			
275	335	sandstone			
335	360	shale			
360	400	sandstone			
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Received by OCD: 9/20/2023 12:31:12 PM 1161 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 <u>SAN JUAN 28-5 UNIT #33A</u> cps 1884w Elevation<u>6585'</u> 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' MAY 8 1/ 1991 Remarks: \_gb #1 / OIL CON. DIV DIST ?

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

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

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1201-6-						0110				
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# 11 /# 12 Anoae Output (Amps)		# 13	1 14		1.3	1		- 10	,* 17 	¥ 20.
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	<u>/-`-C</u>	1 _16	, , "		·			<u>, , , , , 7</u>	~	23
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# Received by OCD: 9/20/2023 12:31:12 PMBURGE CORROSION SYSTEMS INC

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

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AZTEC, NEW MEXICO 87410

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Page 91 of 181

188400 CPS

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Company Meridia	n Oil C	0.	.	Sample No.	Date	Sampled '- 19-87
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Lease or Unit	Well SS=28	-5#-33A,	Depth 130'	Formation Mess Ver Le		ter, B/D
Type of Water (Produced G.B.						pled By Evans
DISSOLVED SOLIDS CATIONS Sodium, Na (calc.) Calcium, Ca Magnesium, Mg Barium, Ba	mg/l 230	me/l	pH Succific C	PROPERTIES ravity, 60/60 F. y (olum-meters) <u>74</u>	RNS — 1	<u>8.99</u> <u>1.0027</u> <u>1.1 X 10<sup>2</sup></u> <u>8.9 X 10 µ</u> me/l
ANIONS Chloride, Cl Sulfate, SO <sub>4</sub> Carbonate, CO <sub>3</sub> Bicarbonate, HCO <sub>3</sub>	14 200 30 425	.4 	Co		10 11 11 11 11 11 11 11 11 11	++++++++++++++++++++++++++++++++++++++
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DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS NORTHWESTERN NEW MEXICO (Submit 3 copies to OCD Aztec Office)

4911

Operator <u>MERIDIAN OIL</u> Location: Unit<u>SW</u> Sec.<u>20</u> Twp<u>28</u> Rng<u>5</u> Name of Well/Wells or Pipeline Serviced <u>SAN JUAN 28-5 UNIT #17, #54</u> <u>cps 727w</u>

Elevation<u>6720'</u>Completion Date<u>8/29/83</u> Total Depth<u>500'</u>Land Type\*<u>N/A</u> Casing, Sizes, Types & Depths<u>40'OF 8" CASING</u>

If Casing is cemented, show amounts & types used <u>N/A</u>

If Cement or Bentonite Plugs have been placed, show depths & amounts used

NZA

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',	<u>355', 345', 335', 305', 295', 245', 235'</u>
Depths vent pipes placed: 500' OF 1"	PVC VENT PIPE
Vent pipe perforations: 400'	RECEIVED
Remarks: <u>db #2</u>	MAY 3 1 1991
	OIL CON DAY
	inter of the second sec

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 12:31:12 PM

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

WELL CASING CATHODIC PROTECTION CONSTRUCTION REPORT

DAILY LOG

Drilling Log (Attach Hereto)

CPS #		e. Line or Plant		Wo	k Order	#		Static-		Ins. Union Check	
727-W		5 28-5 2		· 184-53265-19 184-53254-19 184-54254-19 □ Good						🛄 Bad	
Location 5W20-28		Anode Size 2 <sup>11</sup>	Anode Type	DURI	Ror		Size B	ut (63)	4		
Depth Drilled 500	Depth	Logged 500	Drilling Rig Time		Total	Lbs Goke Used		Lost Circulation	Mat'l Used	No Sacks Mud Use	:d
Anode Depth # 1 405 # 2	375	1# 3 3 6 5	# 4 355	# 5 34	5	≠ 6 <b>3 3 5</b>	#	, 305	×8 295	#9245	# 10 235
Anode Output (Amps) # 1 3.15 # 2		•	1	1		1	1		1	1	1
Anode Depth # 11 # 12		# 13	# 14	# 15		# 16	#	17	# 18	# 19	# 20
Anode Output (Amps) # 11		# 13	¦≉ 14	# 15		¦# 16	#	17	# 18	, #_19	# 20
Total Circuit Resist Volts /2, 2	1	ps 14.5	Ohms	: 84		No. 8 C.P. Cal	ole l	Jsed		No. 2 C.P. Cat	le Used
Remarks: DR111	er s	iaid hit	WateR	27	14	0. D.a	' ~	or 90	Tivor	Ter Sa.	mple.
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Slur Ried	5	000 IL 0	f COK	<u>e</u> B	R*	eze	S	ет 40	0-5 8"	Casing	Ē

Rectifier Size: V A Addn'l Depth\_ Depth Credit:\_ 5 Extra Cable:\_ 130 Ditch & 1 Cable:\_ 25 'Meter Pole:\_ 20' Meter Pole:\_\_ 10' Stub Pole:\_\_ SET Casing ZhRS. V

GROUND BED LAYOUT SKETCH

DT 2 2 Date Reg 8-25 4 8-29 8

All Construction Completed

Villa 3

Qwell

N

GB<sup>t2</sup> 0---130'-0 Rect.

Completion Date 8-29-83

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#### EL PASO NATURAL GAS COMPANY

#### DRILLING DEPARTMENT

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LEASE	CPS 72	7 W WELL NO.S	JUJ# CON	ITRACTOR	LOFTI	5	RIG NO.	IR1	REPO	RT NO.	D	DATE & ~ .	29	128
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D,		R DEEP GROUND NORTHWESTE nit 3 copies	RN NEW MEXIC	0	WELLS
Operator	MERIDIAN OI	L	_ Location:	Unit <u>B</u> Sec. <u>2(</u>	
Name of We	ll/Wells or F	Pipeline Serv	iced <u>SAN Jl</u>	AN 28-5 UNIT #1	4, #63
		<u> </u>		·	cps 726w
Elevation 6	729'Completio	on Date 8/3/88	Total Dep	th'400' Land	d Type* N/A
		Depths N/A	· ,		
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	is cemented,	show amounts Plugs have be			s amounts u
If Cement on N/A	is cemented, or Bentonite	show amounts Plugs have be	een placed,	show depths a	
If Cement on N/A Depths & the second	is cemented, or Bentonite nickness of w	show amounts	een placed, ith descript 110'	show depths a ion of water	when possil
If Cement on N/A Depths & the second	is cemented, or Bentonite nickness of w	show amounts Plugs have be vater zones wi	een placed, ith descript 110'	show depths a ion of water	when possil
If Cement of N/A Depths & th Fresh, Clea	is cemented, or Bentonite nickness of w	show amounts Plugs have be ater zones with lphur, Etc	een placed, ith descript 110'	show depths a ion of water	when possil
If Cement on N/A Depths & the Fresh, Clear Depths gas	is cemented, or Bentonite nickness of w ar, Salty, Su encountered:	show amounts Plugs have be ater zones with lphur, Etc	een placed, ith descript <u>110'</u>	show depths a ion of water <b>DECEN</b> MAY 31 199	when possil
If Cement of N/A Depths & th Fresh, Clea Depths gas Type & amou	is cemented, or Bentonite nickness of w ar, Salty, Su encountered: ant of coke b	show amounts Plugs have be vater zones with lphur, Etc	een placed, ith descript <u>110'</u>	show depths a ion of water <b>DECEN</b> MAY 3 1 199 OIL CON. E DIST. 3	when possil
If Cement of N/A Depths & th Fresh, Clea Depths gas Type & amou Depths anoo	is cemented, or Bentonite nickness of w ar, Salty, Su encountered: ant of coke b les placed: <u>3</u>	show amounts Plugs have be ater zones with the preeze used:	een placed, ith descript 110' N/A , 310', 245',	show depths a ion of water <b>DECEN</b> MAY 3 1 199 <b>OIL CON. E</b> DIST. 3 190', 180', 165	when possil
If Cement of N/A Depths & th Fresh, Clea Depths gas Type & amou Depths anoo Depths vent	is cemented, or Bentonite nickness of w ar, Salty, Su encountered: ant of coke b les placed: <u>3</u> pipes place	show amounts Plugs have be vater zones with the second sec	een placed, ith descript 110' N/A , 310', 245', " PVC VENT PIP	show depths a ion of water <b>DECEN</b> MAY 3 1 199 <b>OIL CON. E</b> DIST. 3 190', 180', 165	when possi <b>I</b> <b>I</b> <b>I</b> <b>V</b> <b>I</b> <b>I</b> <b>I</b>

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 12:31:12 PM

Aubill WELL CASING FM-07-0238 (Rev. 10-82) CATHODIC PROTECTION CONSTRUCTION REPORT DAILY LOG Cono Completion Date 8-3-88 Drilling Log (Attach Hereto) N CPS # Well Name, Line or Plant: Work Order # Ins. Union Check Static 5 0691A SJ 28-5 \*/3 B 20-28 🗌 Bad Good 49696A #14 20-28-5 Anode Size Anode Type: Size Bit **z** 634 2" × 60" UNINON) Depth Logged Lost Citculation Mat'l Used **Drilling Rig Time** Total Lbs. Goke Used No. Sacks Mud Used 400 Anode Depth # 4310 # 6 *190* #1340 \* 2.**7.30** 220 94.< # 8 11.5 **#** 5, # 7 190 \* 9 /55 # 10 # 3. Anode Output (Amps # 5 4.R # 3. 6. 7 # 6 4.8 #15.0 # 2、 # 7.4 128 . \*94 # 10 # 4 Anode Depth # 11 # 12 # 13 # 14 # 15 # 16 # 17 # 18 # 19 # 20 Anode Output (Amps) ¦# 12 # 11 # 13 # 14 # 15 # 16 # 17 # 18 # 19 # 20 No. 8 C.P. Cable Used No. 2 C.P. Cable Used Total Circuit Resistance 49 22 R Ohms Volts Amps must. Sample Remarks r (DC) HATON INIHON MARKO ni ande GR 4014,00 Rectifier Size:\_ HO v All Construction Completed Addn'l Depth 402.504 B 2 Depth Credit: 2.40 294.50 Extra Cable: 10 Ø Ditch & 1 Cable: 425" ndm 25 'Meter Pole: GROUND BED LAYOUT SKETCH 20' Meter Pole: \$63 10' Stub Pole: 225.001 1 junction D 4196.40 . 209.82 tox 4406.22 01693 new ab

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· . _	0CD: 9/20/2023 12:31:12 PM 1-15 14A- 30-039-22205 54E-30-039-23813 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 & DepthsN/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. 150' SAMPLE TAKEN
	Depths gas encountered: HOLE MAKING GAS
	Type & amount of coke breeze used: 3500 1bs
	Depths anodes placed: 395', 385', 375', 365', 350', 340', 280', 270', 210', 200'
	Depths vent pipes placed: 420'
	Vent pipe perforations: 280' MAY 31 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.

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

WELL CASING CATHODIC PROTECTION CONSTRUCTION REPORT DAILY LOG Page 101 of 181

Completion Date 7-13-81 Drilling Log (Attach Hereto). Well Nam CPS No. Location 598 h NW-20-28-5 11 23-21-50-20 Ισειγολ ost Circulation Mat'l Used Total Drilling Rig Time No. Sacks Mud Us RNX 3500 1 = 634D = 728D # 10 20 <u>#</u> 3 **3** # 9210 = 8 *t* 5 # 4 Anode Output # 6 **`** # 9**)** # 3 🖂 #-7--1= 8 # 4 #5 # 10 Anode Depth # 11 # 12 # 13 # 14 # 15 # 16 # 17 # 18 # 19 # 20 Anode Output (Amps) # 11 # 12 = 14 # 15 ≈ 18 # 19 # 20 # 13 # 16 \* 17 No. 2 C.P. Cable Used Total Circuit Resistance No. 8 C.P. Cable Used 4 Ohms Volts Amps ^ Remarks: Static 9/5 6005=.85 1.300mA+ UNION= OK er SAID WATER AT 150 FT Drilled 160F LEFT O DEN 40 Over weekend CAught water SAMPLE 7-13-81. APProx 26PM. Logged total water GR Hole CAVED AFTER# & ANOd 420 VENTPIPE (\$280 Pert e co ve. h StuckIN Finished hen ew Ou Ai R Leewit hriHole depth = 79 All Construction Completed Extra cable=156 Ditch & cable = 363' Stub Pole GROUND BED LAYOUT SKETCH 40016A Rect 131 DISTRIBUTION: WHITE - Division Corrosion Office YELLOW - Area Corrosion Office PINK - Originator File 603 · ··· · me the Y

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### EL PASO NATURAL GAS COMPANY

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Sheet  $\frac{1}{Page Pb2 of 181}$ Date:  $\frac{1-13-31}{Page}$ By:  $\frac{PAB}{Pb}$ 

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44 10 C3 10 42 58 12 IC4 12.38	1.2	13	425FT MANE FNATERIN	
58 12         nC4         11 93           72 15         iC5         13 85           '72 15         nC5         13 71	70 1.7 50	1,2 = 5 . 1,0	GB MAKING GAS	GPM
86         18         1C6         15         50           86         18         C6         15         57           100         21         1C7         17         2	80 1.6- 60	.9	INST 420 FT VENT	Pipe
100 21         C7         17 46           114 23         C8         19 39           28 05         C2 <sup>2</sup> 9 64	1.9	3-4	WITH 280 Ft A	21F
42 08 C3 <sup>2</sup> 9 67	90 1.9 70	13-3	Hole CAVE OLAFT	CK RLEW
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64 06         SO2         5 50           34 08         H2S         5 17           28 01         N2         4 16	60.4		0.395 - 1.7 - 3.0 0.385 - 1.7 - 2.8	
2 02 H <sub>2</sub> 3 38	20 1.0 - 8		3375 - 19 - 3.7	
	80 1.1-7		(9, 36) - 17 - 3.3	2.7
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	.5		10200-34-4.6	
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## EL PASO NATURAL GAS COMPANY SAN JUAN DIVISION FARMINGTON, NEW MEXICO

PRODUCTION DEPARTMENT WATER ANALYSIS

Analysis No. 1-10271	Date7-28-81	
Operator El Paso Natural Gas	Well NameS.J. 28-5 #14A	CPS 4 <b>598</b> 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	
	g Surface Csg. Press.	
ppm         epm           Sodium         968         42.1	Chloride 60	epm 1.7
<b>C</b> alcium 262 13.1	Bicarbonate 539	8.8
Magnesium 74 6.1	Sulfate 2440	50.8
Iron Absent	Carbonate0	0
H <sub>2</sub> SAbsent	Bydroxide0	0
cc: R. A. Ullrich	Total Solids Dissolved 3,85	54
E. R. Paulek J: W. McCarthy	pH 7.5	
J. D. Evans W. B. Shropshire	Sp. Gr. 1.0054 At	60°F
D. C. Adams File	Resistivity 211 ohm-cm at	75 <b>°</b> F
· .	Debbie Denetolai	RZE
	Chemist	
AG AA 15 10		20 25
20 Na		20 25 C1 10
	<b>T</b>	
Ca		HC03 1
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Form 22-2 (Rev	ev 5-79)		- <sup>4</sup>		ية مع رويس مع		D NATURAL GAS		14	:					
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		м	DRNING				AYLIGHT	٥					EVENING	<u> </u>	
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	30-039-23814
	DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS NORTHWESTERN NEW MEXICO (Submit 3 copies to OCD Aztec Office)
Opera	ator MERIDIAN OIL INC. Location: Unit <sup>J</sup> Sec. <sup>20</sup> Twp <sup>28</sup> Rng <sup>5</sup>
Name	of Well/Wells or Pipeline Serviced SAN JUAN 28-5 UNIT #63E
	cps 1886w
Eleva	ation6776' Completion Date 6/26/87 Total Depth 400' Land Type* N/A
Casi	ng, Sizes, Types & DepthsN/A
If Ca	asing is cemented, show amounts & types used N/A
If Ce	ement or Bentonite Plugs have been placed, show depths & amounts use N/A
	hs & thickness of water zones with description of water when possibl
11631	h, Clear, Salty, Sulphur, Etc. <u>140' &amp; 200' NO SAMPLE</u>
Dept	ns gas encountered:N/A
Туре	& amount of coke breeze used: N/A
Depti	ns anodes placed: 350', 340', 330', 320', 310', 270', 255', 230', 220', 200'
Depth	ns vent pipes placed: N/A
Vent	pipe perforations: 270' <b>DECEIVE</b>
Remai	cks: (85 #1) MAY 31 1991,
	DIL CON. DIV.
 If ar	<b>DIST.3</b> ny of the above data is unavailable, please indicate so. Copies of a

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

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

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## BURGLECORROSION SYSTEMS

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PIOLBOX.1359 PHONE 314 6141 AZTEC, NEW MEXICO 87410 DEEP WELL GROUNDSED LOG

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# BURCE CORROSION SYSTEMS, INC.

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

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COM									

Received by OCD 929202312

COMPANE	1d1an 011	DAILY DRILLING REPORT June 25
WELL NAME: ST Ja 28-5		WELL NUMBER: SECTION: TOWNSHIP: RANGE
	WATER AT:	FEET: HOLE MADE:
		400' TD DESCRIPTION OF FORMATION
FROM	ter to	FORMATION IS
State of the	<b>1</b> 23.230*	clay -
90.40 B	<b>80</b>	sandstone
80	<b>al photophy</b>	shale
110.5	1. 150	sand-water
1.50 M 150 M 201	<b>2::::::::</b> ::::::::::::::::::::::::::::	shale
170-2348	175 200 ··································	sand-water.
200 1 19	280-2-1	shale
280	310	sand-moisture
310-1-4	<b>400</b>	shale
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REMARKS:		
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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)

OperatorMERIDIAN OIL	Location: Unit_SW_Sec.21_Twp_28_Rng_5
Name of Well/Wells or Pipeline Ser	
	cps 1066w
Elevation 6654'Completion Date 10/6/	76 Total Depth 453' Land Type* N/A
Casing, Sizes, Types & DepthsN	
If Casing is cemented, show amounts	s & types used N/A
、 	
If Cement or Bentonite Plugs have b	peen placed, show depths & amounts used
N/A	
Depths & thickness of water zones w	with description of water when possible:
Fresh, Clear, Salty, Sulphur, Etc.	200 '
Depths gas encountered: N/A	
Type & amount of coke breeze used:	45 SACKS
Depths anodes placed:415', 350', 34	0', 305', 295', 260', 250', 240', 230', 220'
Depths vent pipes placed: N/A	
Vent pipe perforations: 269'	<u>KSUBINER</u>
Remarks:gb #1	MAY 31/1991
	OIL'CON. DIV.
	10151. 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.

Réceived by OCD: 9/20/2023 12:31:12 PM Page 110 of 181 WELL CASING Form 7-238 (Rev. 1-69) CATHODIC PROTECTION CONSTRUCTION REPORT DAILY LOG LOGGED Completion Date 10-6-76 Drilling Log (Attach Hereto). 28-5#67 \$ #22 5W 21-28-5 1066W & Size Bit Used 63/4 54491 853215 Total Lbs. Coks Total Drilling Rig Time Lost Circulation Mat'l Used No. Sacks Mud Use 2 350 # 3340 # 4305 # 5 295 # 6260 # 7250 # 8240 ¦# 9**Z30** -# 10**ZZO** # **3.** 8 # 3. 4 # 43. 9 # 54. 4 # 63. 3 # 73. 9 1# 8 4. 8 # 9 4.6 # 104.0 # 11 # 16 # 17 # 18 # 19 # 20 # 13 # 14 # 15 # 12 Anode Output (Amps) # 11 # 12 # 13 # 15 # 16 # 18 # 19 # 17 # 20 No. 2 C.P. Cable Used Total Circuit Resistance No. 8 C.P. Cable Used Amps 18.2 Ohms 0.64 Volts Driller Said Blew Mud out at 140 - Blew water out ot 200. Startinjection - Drill to 460' erforated 269 Vent Slurry 45 Sacks Cokes \$ 2,248.50 All *Construction* Completed 494.40 Depth 170.00 Anode 132.00 Anode LEAd Wire 194.50 RECT #67 GROUND BED LAYOUT SKETCH 3,239.40 129.57 TAX 213, 40 In SP. 50, 00 Misc. 3,632,37 Rect. Tr. h hoop. 8 , est +22 ginal & 1 Copy All Reports a character a

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#### El Paso Natural Gas Company ENGINEERING CALCULATION

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100.21 iC7 17.2 100.21 C7 17.46	40	60	12					
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Received by OCD: 9/20/2023 12:31:12 PM 1200 30-039-7,3815 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 Sec.21 Twp28 Rng 5 Name of Well/Wells or Pipeline Serviced SAN JUAN 28-5 UNIT #76M cps 1888w Elevation6607' Completion Date 6/23/87 Total Depth 400' Land Type\* N/A Casing, Sizes, Types & Depths N/A If Casing is cemented, show amounts & types used N/A If Cement or Bentonite Plugs have been placed, show depths & amounts used N/A Depths & thickness of water zones with description of water when possible: 80' Fresh, Clear, Salty, Sulphur, Etc. Depths gas encountered: N/A Type & amount of coke breeze used: 4650 lbs. Depths anodes placed: 340', 250', 210', 200', 190', 180', 170', 130', 120', 110' Depths vent pipes placed: 385' Vent pipe perforations: 320' Remarks: (gb #1) 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

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### AURGEMORROSION SYSTEMS INC.

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Elevati	on <u>6636'</u> Complet.	ion Date 10/7	/77	Depth 400' Lan	d Type*_
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	vent pipes plac				
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If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included.

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

Form 7-238 (Rev. 11-71)

WELL CASING CATHODIC PROTECTION CONSTRUCTION REPORT DAILY LOG

Drilling Log (Attach Hereto).

Completion Date <u>10-7-77</u>\*

Page 118 of 181

Type & Size Bi	J. <u>28-5 A</u> t Used H 6 3/4			E 21-28			Work Order	4 W No.#8: 52 # 76 = 54	578:19 556.19
Anode Hole Dep	oth <b>460</b> T <b>389</b>	'otal Drilling Ri	g Time To	otai Lbs. Coke U 50	Jsed Lost Cir	culation Mat <sup>e</sup> l Us	sed No. Sacks I		
Anode Depth # 1 <b>365</b>	# 2 <b>355</b>	# 3 <b>305</b>	<u>+ 4295</u>	≠ 5 <b>285</b>	≠ 6 <b>2 75</b>	# 7 <b>265</b> -	# 8 240	# 9 <b>230</b>	# 10 <b>220</b>
	Amps) # 2 <b>2.9</b>	# 3 3.1	≠ 4 <b>4.4</b>	# 54.5	#6 4.1	1#-7- <b>4.0</b>	# 8 3.4	± 9 <b>3.</b> ]	# 10 <b>3.2</b>
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Anode Output (. # 11	Amps) ¦ ¦# 12	# 13	r# 14	¦    # 15	# 16	¦⊭ 17	i ¦≉ 18	± 19	; ≉ 20°,
Total Circuit R Volts 10.7	esistance Amp	₅ 15.9	Ohms (	7.67	No. 8 C.P. Co	ble Used	·	No. 2 C.P. Co	ble Used

Installed 10-2"X2"X48" GRAphite Anodes. DRiller SAIL MAKING. WATER @ 180'. DRilled to 200' Next AM blen water. Perferated 280 0. 1" PUC VENT Pipe. Installed 380 'of I"PUC VENT Pipe, SlurRyed 50 SACKS OF COKE. # 76 MARKed INoteh & #8 MARKed 3 Notchos. Installed Gou 30 A Rectifier & Stub Pole Lat 2-18

All Construction Completed

WI Z (Signature)

OUND BED LAYOUT SKETCH

: PpG

DISTRIBUTION:

WHITE - Division Corrosion Office YELLOW - Area Corrosion Office : · PINK - Originator File

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#### El Paso Natural Gas Company ENGINEERING CALCULATION

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Page 119 of 181
Sheet: \_\_\_\_\_of\_\_\_\_

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					cps 112
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logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included.

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

Received by OCD: 9/20/2023 12:31:12 PM Page 122 of 181 Form 7-238 (Rev. 11-71) WELL CASING ODIC PROTECTION CONSTRUCTION REPORT DAILY LOG Completion Date 0075-1977 Drilling Log (Attach Hereto). CPS No Vell\_Mame 28-5#308#87 NE 22-28-5 11254 Type & Size Bit Used 549861 5354509 Lost Circulation Mat'l Used Sacks Mud Used Anode Hole Depth Total Drilling Rig Time Total Lbs. Coke Used 290 255 # 2240: # 3230 # 4210 # 5170 # 6 140 # 7/30 # 8/20 # 9/00 # 10 90 # 2 **3.8** # 3 **3.3** # 4 **3.3** # 5 3.3 · # 63.0 #-7-4.8 # 103.0 1# 93:4 1# 8 4,3 # 15 # 13 # 16 # 17 # 18 # 19 14 # 11 Anode Output (Åmps) # 19 # 15 # 16 '≎ 18 # 12 # 13 # 14 No. 8 C.P. Cable Used No. 2 C.P. Cable Used Total Circuit Resistance Ohms D, 6.7 Volts Amps GRADHITE H Remarks: STATIC # 30; 600'N=.70 # 87, 600 NE = 73 DRILL TO 300 Log 290 - HOLE CAVED AFTER 3 ANODES PESPONDES DRILL NEW HOLE TO 240 LOG 233 - INSTALLE D TANOdes VENT to HOLEHI TOZGO PERF. 200 - HOLEHZ TO ZIS PERF180 DRILLER SAID WATER AT BO'EACH HOLE JUNCTION BOX ON HOLE #1 SLURRY 56 COKE in HOLE # 60-30 RECT. All Construction Completed STUB POLE (Signature) GROUND BED LAYOUT SKETCH 140 GB 1253 ANODES DISTRIBUTION: WHITE - Division Corrosion, Office YELLOW - Area Corrosion Office RINK – Originator F

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#### El Paso Natural Gas Company ENGINEERING CALCULATION

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#### EL PASO NATURAL GAS COMPANY

#### DRILLING DEPARTMENT

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· Page	124 of 181
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DALLY DRILLING REPORT

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#### EL PASO NATURAL GAS COMPANY

DRILLING DEPARTMENT

DAILY DRILLING REPORT

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·	30-039-23729
1	EEP GROUND BED CATHODIC PROTECTION WELLS NORTHWESTERN NEW MEXICO 3 copies to OCD Aztec Office)
Operator <u>MERIDIAN OIL INC.</u>	Location: Unit_D_Sec.22_Twp28_F
Name of Well/Wells or Pipe	eline Serviced SAN JUAN 28-5 UNIT #30A
	cps 1
Elevation 6682' Completion I	Date 6/23/87 Total Depth 280' Land Type*
Casing, Sizes, Types & Dep	pthsN/A
	ow amounts & types used <u>N/A</u>
If Cement or Bentonite Plu	ow amounts & types usedN/A
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If Cement or Bentonite Plu N/A Depths & thickness of wate	
If Cement or Bentonite Plu N/A Depths & thickness of wate	ugs have been placed, show depths & amounts er zones with description of water when pos hur, Etc. <u>50' SAMPLE TAKEN</u>
If Cement or Bentonite Plu N/A Depths & thickness of wate Fresh, Clear, Salty, Sulph	ugs have been placed, show depths & amounts er zones with description of water when pos hur, Etc. <u>50' SAMPLE TAKEN</u> N/A
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logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included.

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

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### BURGE CORROSION SYSTEMS

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<b>Received</b>	by	<b>OCD</b> :	9/	20/	/2023	12:3	1:12	PM

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CRS 1883 W

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Page 130 of 181

## BURGE CORROSION SYSTEMS, IN

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

MPANY Merid	lian Oil		WELL NUMBER: SECTION: TOWNSHIP:							
					RANGE:					
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Type of Water (Produced	l, Supply, etc.)	Sampling	Point			Sam J.	pled By <i>E</i> ,	
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REMARKS & RECOMME	NDATIONS:			00	ž	<u>0</u> 0	0001	00001

Page 131 of 181

**Released to Imaging: 1/19/2024 8:04:11 AM** 

Received by OCD: 9/20/202

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## APPENDIX C

Executed C-138 Solid Waste Acceptance Forms

ceived by OCD: 9/20/2023 12:31:12 P	М	Page 1.
<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 1301 W. Grand Avenue, Artesia, NM 88210	State of New Mexico Energy Minerals and Natural Resource Oil Conservation Division	
<u>District III</u> 1000 Rio Brazos Road, Aztec, NM 87410 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505	1220 South St. Francis Dr. Santa Fe, NM 87505	*Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection. 97057-1125
	FOR APPROVAL TO ACCEP	
. Generator Name and Address:		I SOLID WASTE
Enterprise Field Services, LLC, 614 Rei	lly Ave, Farmington NM 87401	
2. Originating Site: SJ 28-5 #14		AFE: N66187 PM: Maron O'Brien Pay Key: RB21200
Location of Material (Street Address UL N Section 16 T28 R5W; 36.6567		MAN 2023
Description: Hydrocarbon contaminated Estimated Volume <u>20</u> yd <sup>3</sup> bbls Knov	I associated with remediation activities from a I soil associated with remediation activities fro yn Volume (to be entered by the operator at the e	om a natural gas pipeline release. 🚄
5. GENERAT	FOR CERTIFICATION STATEMENT OF W	ASTE STATUS
Generator Signature certify that according to the Resource Cons regulatory determination, the above describ RCRA Exempt: Oil field wastes g	or authorized agent for Enterprise Products Opera servation and Recovery Act (RCRA) and the US bed waste is: (Check the appropriate classificatio generated from oil and gas exploration and produ	Environmental Protection Agency's July 1988 n) ction operations and are not mixed with non-
RCRA Non-Exempt: Oil field wa characteristics established in RCRA re	ste which is non-hazardous that does not exceed gulations, 40 CFR 261.21-261.24, or listed haza g documentation is attached to demonstrate the a	the minimum standards for waste hazardous by rdous waste as defined in 40 CFR, part 261,
☐ MSDS Information ☐ RCRA Hazar	dous Waste Analysis 🛛 Process Knowledge	□ Other (Provide description in Box 4)
GENERATOR 19.15.36.15 W	ASTE TESTING CERTIFICATION STATE	MENT FOR LANDFARMS
I, Thomas Long 5-8-2023, repres Generator Signature the required testing/sign the Generator Wa	entative for Enterprise Products Operating authors to the stering Certification.	rize to complete
have been found to conform to the specific	tive for <u>Envirotech, Inc.</u> e have been subjected to the paint filter test and requirements applicable to landfarms pursuant to to demonstrate the above-described waste confor	o Section 15 of 19.15.36 NMAC. The results
OCD Permitted Surface Waste Manag	ement Facility	
Name and Facility Permit #: Envirotech, Inc. So Address of Facility: Hill Top, NM Method of Treatment and/or Disposal: Evaporation Inje Waste Acceptance Status:	il Remediation Facility * Permit #: NM01-0011	] Landfill 🔲 Other
	APPROVED 🗌 DENI	ED (Must Be Maintained As Permanent Record
PRINT NAME: Greg Crabbre	TITLE: Enviro /	1 An Agen DATE: 5/11/23
SIGNATURE: Sufface Waste Management	Facility Authorized Agent TELEPHONE NO.:	505-632-0615

Received by OCD: 9/20/2023 12:31:12 PM

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

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

Revised 08/01/11 \*Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection.

Page 134 of 181

1220 S. St. Francis Dr., Santa Fe, NM 87505 REQUEST FOR APPROVAL TO	
1. Generator Name and Address: Enterprise Field Services, LLC, 614 Reilly Ave, Farmington NM 87401	ACCELT 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 activ Description: Hydrocarbon contaminated soil associated with remediation a Estimated Volume 20 (yd <sup>3</sup> ) bbls Known Volume (to be entered by the open	ities from a natural gas pipeline release. activities from a natural gas pipeline release.
5. GENERATOR CERTIFICATION STATEM	ENT OF WASTE STATUS
I, Thomas Long Jurn Ly, representative or authorized agent for Enterprise Pro Generator Signature certify that according to the Resource Conservation and Recovery Act (RCRA) regulatory determination, the above described waste is: (Check the appropriate	and 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 □	
RCRA Non-Exempt: Oil field waste which is non-hazardous that does characteristics established in RCRA regulations, 40 CFR 261.21-261.24, o subpart D, as amended. The following documentation is attached to demon the appropriate items)	r listed hazardous waste as defined in 40 CFR, part 261,
□ MSDS Information □ RCRA Hazardous Waste Analysis □ Process F	Knowledge D Other (Provide description in Box 4)
GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATI	ON STATEMENT FOR LANDFARMS
I, Thomas Long 7-11-2023, representative for Enterprise Products Op Generator Signature the required testing/sign the Generator Waste Testing Certification.	erating authorize to complete
1, <u>Gree Crwb tree</u> , representative for <u>Envirotech</u> representative samples of the oil field waste have been subjected to the paint fil have been found to conform to the specific requirements applicable to landfarm of the representative samples are attached to demonstrate the above-described v 19.15.36 NMAC.	is 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 #: NM01-4 Address of Facility: Hill Top, NM Method of Treatment and/or Disposal: Evaporation Injection Treating Plant Z La Waste Acceptance Status:	ndfarm  Landfill  Other DENIED (Must Be Maintained As Permanent Record
0	Envivo Managen DATE: 7/11/23
SIGNATURE: TELEP	HONE NO.: _505-632-0615



## APPENDIX D

## **Photographic Documentation**

### SITE PHOTOGRAPHS

**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
То:	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 in f

From: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Sent: Tuesday, August 8, 2023 1:15 PM
To: Long, Thomas <tjlong@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

### [ \*\*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 | nelson.velez@emnrd.nm.gov http://www.emnrd.state.nm.us/OCD/\_



From: Long, Thomas <<u>tilong@eprod.com</u>>
Sent: Tuesday, August 8, 2023 12:53 PM
To: Velez, Nelson, EMNRD <<u>Nelson.Velez@emnrd.nm.gov</u>>
Cc: Stone, Brian <<u>bmstone@eprod.com</u>>; Kyle Summers <<u>ksummers@ensolum.com</u>>
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) tjlong@eprod.com



From: Velez, Nelson, EMNRD <<u>Nelson.Velez@emnrd.nm.gov</u>>
Sent: Thursday, July 27, 2023 9:22 AM
To: Long, Thomas <<u>tilong@eprod.com</u>>

**Cc:** Stone, Brian <<u>bmstone@eprod.com</u>>; Kyle Summers <<u>ksummers@ensolum.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] 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 <<u>tilong@eprod.com</u>>
Sent: Thursday, July 27, 2023 9:10 AM
To: Velez, Nelson, EMNRD <<u>Nelson.Velez@emnrd.nm.gov</u>>
Cc: Stone, Brian <<u>bmstone@eprod.com</u>>; Kyle Summers <<u>ksummers@ensolum.com</u>>

**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 <<u>Nelson.Velez@emnrd.nm.gov</u>>
Sent: Tuesday, July 25, 2023 10:54 AM
To: Long, Thomas <<u>tilong@eprod.com</u>>
Cc: Stone, Brian <<u>bmstone@eprod.com</u>>; Kyle Summers <<u>ksummers@ensolum.com</u>>; Landon
Daniell <<u>ldaniell@ensolum.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] 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, July 25, 2023 10:51 AM
To: Velez, Nelson, EMNRD <<u>Nelson.Velez@emnrd.nm.gov</u>>
Cc: Stone, Brian <<u>bmstone@eprod.com</u>>; Kyle Summers <<u>ksummers@ensolum.com</u>>; Landon
Daniell <<u>Idaniell@ensolum.com</u>>
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) tjlong@eprod.com



From: Long, Thomas
Sent: Monday, July 24, 2023 2:57 PM
To: 'Velez, Nelson, EMNRD' <<u>Nelson.Velez@emnrd.nm.gov</u>>
Cc: Stone, Brian <<u>bmstone@eprod.com</u>>; Kyle Summers <<u>ksummers@ensolum.com</u>>
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) tjlong@eprod.com



From: Velez, Nelson, EMNRD <<u>Nelson.Velez@emnrd.nm.gov</u>>
Sent: Monday, July 24, 2023 8:07 AM
To: Long, Thomas <<u>tilong@eprod.com</u>>
Cc: Stone, Brian <<u>bmstone@eprod.com</u>>; Kyle Summers <<u>ksummers@ensolum.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] 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 <tjlong@eprod.com>
Sent: Monday, July 24, 2023 8:04 AM
To: Velez, Nelson, EMNRD <<u>Nelson.Velez@emnrd.nm.gov</u>>
Cc: Stone, Brian <<u>bmstone@eprod.com</u>>; Kyle Summers <<u>ksummers@ensolum.com</u>>
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 <<u>Nelson.Velez@emnrd.nm.gov</u>>
Sent: Monday, July 17, 2023 7:56 AM
To: Long, Thomas <<u>tjlong@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 | nelson.velez@emnrd.nm.gov http://www.emnrd.state.nm.us/OCD/



From: Long, Thomas <tjlong@eprod.com>
Sent: Monday, July 17, 2023 7:46 AM
To: Velez, Nelson, EMNRD <<u>Nelson.Velez@emnrd.nm.gov</u>>
Cc: Stone, Brian <<u>bmstone@eprod.com</u>>
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) tjlong@eprod.com



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This message (including any attachments) is confidential and intended for a specific individual and purpose. If you are not the intended recipient, please notify the sender immediately and delete this message.



# APPENDIX F

# Table 1 – Soil Analytical Summary

Released to Imaging: 1/19/2024 8:04:11 AM

## ENSOLUM

	TABLE 1         San Juan 28-5 #14 (07/10/23)         SOIL ANALYTICAL SUMMARY												
Sample I.D.	Date	Sample Type	Sample Depth	Benzene	Toluene	Ethylbenzene	Xylenes	Total BTEX <sup>1</sup>	TPH GRO	TPH DRO	TPH MRO	Total Combined TPH	Chloride
		C- Composite G - Grab	(feet)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(GRO/DRO/MRO) <sup>1</sup> (mg/kg)	(mg/kg)
New Mexico Energy, Mineral & Natural Resources Department Oil Conservation Division Closure Criteria (Tier 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

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

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

NA = Not Analyzed

NE = Not established

mg/kg = milligrams per kilogram

BTEX = Benzene, Toluene, Ethylbenzene, and Xylenes

TPH = Total Petroleum Hydrocarbons

GRO = Gasoline Range Organics

DRO = Diesel Range Organics

MRO = Motor Oil/Lube Oil Range Organics



# APPENDIX G

# Laboratory Data Sheets & Chain of Custody Documentation

Released to Imaging: 1/19/2024 8:04:11 AM



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

Hall Environmental Analysis Laboratory

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

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 5 sample(s) on 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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

## Hall Environmental Analysis Laboratory, Inc.

Lab Order 2307755

Date Reported: 7/24/2023

CLIENT	: ENSOLUM	Client Sample ID: S-1
<b>Project:</b>	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 Q	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 OR	GANICS				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 BlankE Above Quantitation Range/Estimated Value
- E Above Quantitation Range/Estimated ValueJ Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 10

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## Hall Environmental Analysis Laboratory, Inc.

Lab Order 2307755

Date Reported: 7/24/2023

CLIENT	ENSOLUM	Client Sample ID: S-2
<b>Project:</b>	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

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	ND	60	mg/Kg	20	7/18/2023 11:23:15 AM	76284
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst	DGH
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	7/18/2023 10:32:35 AM	76278
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/18/2023 10:32:35 AM	76278
Surr: DNOP	83.1	69-147	%Rec	1	7/18/2023 10:32:35 AM	76278
EPA METHOD 8015D: GASOLINE RANGE					Analyst	JJP
Gasoline Range Organics (GRO)	ND	4.2	mg/Kg	1	7/18/2023 11:58:41 AM	GS98285
Surr: BFB	93.2	15-244	%Rec	1	7/18/2023 11:58:41 AM	GS98285
EPA METHOD 8021B: VOLATILES					Analyst	JJP
Benzene	ND	0.021	mg/Kg	1	7/18/2023 11:58:41 AM	R98285
Toluene	ND	0.042	mg/Kg	1	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	1	7/18/2023 11:58:41 AM	R98285
Surr: 4-Bromofluorobenzene	95.5	39.1-146	%Rec	1	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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- В Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits Р Sample pH Not In Range
- RL Reporting Limit

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## Hall Environmental Analysis Laboratory, Inc.

Lab Order 2307755

Date Reported: 7/24/2023

CLIENT	ENSOLUM	Client Sample ID: S-3
<b>Project:</b>	SJ 28 5 14	Collection Date: 7/17/2023 1:10:00 PM
Lab ID:	2307755-003	<b>Matrix:</b> MEOH (SOIL) <b>Received Date:</b> 7/18/2023 6:20:00 AM

Analyses	Result	RL Q	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 OR	GANICS				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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- В Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits Sample pH Not In Range
- Р RL Reporting Limit

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## Hall Environmental Analysis Laboratory, Inc.

Lab Order 2307755

Date Reported: 7/24/2023

CLIENT	ENSOLUM	Client Sample ID: S-4
<b>Project:</b>	SJ 28 5 14	Collection Date: 7/17/2023 1:15:00 PM
Lab ID:	2307755-004	<b>Matrix:</b> MEOH (SOIL) <b>Received Date:</b> 7/18/2023 6:20:00 AM

Analyses	Result	RL Q	ual 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 OR	GANICS				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.

\* Value exceeds Maximum Contaminant Level. **Qualifiers:** 

- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

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

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

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## Hall Environmental Analysis Laboratory, Inc.

Lab Order 2307755

Date Reported: 7/24/2023

CLIENT	: ENSOLUM	Client Sample ID: S-5
<b>Project:</b>	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

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 12:00:29 PM	76284
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analyst	DGH
Diesel Range Organics (DRO)	26	9.6		mg/Kg	1	7/18/2023 11:44:04 AM	76278
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/18/2023 11:44:04 AM	76278
Surr: DNOP	81.7	69-147		%Rec	1	7/18/2023 11:44:04 AM	76278
EPA METHOD 8015D: GASOLINE RANGE						Analyst	JJP
Gasoline Range Organics (GRO)	1000	47		mg/Kg	10	7/18/2023 1:33:45 PM	GS98285
Surr: BFB	300	15-244	S	%Rec	10	7/18/2023 1:33:45 PM	GS98285
EPA METHOD 8021B: VOLATILES						Analyst	JJP
Benzene	ND	0.23		mg/Kg	10	7/18/2023 1:33:45 PM	R98285
Toluene	25	0.47		mg/Kg	10	7/18/2023 1:33:45 PM	R98285
Ethylbenzene	4.0	0.47		mg/Kg	10	7/18/2023 1:33:45 PM	R98285
Xylenes, Total	54	0.93		mg/Kg	10	7/18/2023 1:33:45 PM	R98285
Surr: 4-Bromofluorobenzene	109	39.1-146		%Rec	10	7/18/2023 1:33:45 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
- JAnalyte detected below quantitation limitsPSample pH Not In Range
- RL Reporting Limit

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	WO#:	2307755
Hall Environmental Analysis Laboratory, Inc.		24-Jul-23

Client: Project:		DLUM 5 14									
Sample ID:	MB-76284	SampT	Гуре: <b>МЕ</b>	BLK	Tes	tCode: EF	PA Method	300.0: Anions	6		
Client ID:	PBS	Batch	h ID: 762	284	F	RunNo: <b>98</b>	3289				
Prep Date:	7/18/2023	Analysis E	Date: <b>7/</b> *	18/2023	S	SeqNo: 3	578639	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID:	LCS-76284	SampT	Гуре: <b>LC</b>	s	Tes	tCode: EF	PA Method	300.0: Anions	6		
Client ID:	LCSS	Batch	h ID: 762	284	F	RunNo: <b>98</b>	3289				
Prep Date:	7/18/2023	Analysis E	Date: 7/	18/2023	S	SeqNo: 3	578640	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5	15.00	0	92.4	90	110			

**Qualifiers:** 

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

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# **QC SUMMARY REPORT** Ha

	WO#:	2307755
all Environmental Analysis Laboratory, Inc.		24-Jul-23

Client: Project:	ENSOLUI SJ 28 5 1										
110jeet.	552651	T									
Sample ID:	2307755-001AMS	SampT	Гуре: <b>МS</b>	6	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID:	S-1	Batcl	h ID: 762	278	F	RunNo: <b>98</b>	3287				
Prep Date:	7/18/2023	Analysis E	Date: 7/	18/2023	S	SeqNo: 35	577029	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range ( Surr: DNOP	Organics (DRO)	48 4.1	9.6	47.98 4.798	17.89	63.0 86.0	54.2 69	135 147			
Sample ID:	MB-76278	SampT	Гуре: <b>МЕ</b>	BLK	Tes	tCode: EF	A Method	8015M/D: Die	sel Range	Organics	
Client ID:	PBS	Batcl	h ID: 762	278	F	RunNo: <b>98</b>	3287				
Prep Date:	7/18/2023	Analysis E	Date: 7/	18/2023	S	SeqNo: 35	577030	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
-	Organics (DRO)	ND	10								
Motor Oil Rang Surr: DNOP	e Organics (MRO)	ND 8.4	50	10.00		84.4	69	147			
Sample ID:	LCS-76278	Samo	Гуре: <b>LC</b>	S	Tes	tCode: FF	A Method	8015M/D: Die	sel Range	Organics	
	LCSS		h ID: 762			RunNo: <b>98</b>			g-	e.g	
Prep Date:	7/18/2023	Analysis E	-			SeqNo: 35		Units: mg/K	a		
Analyte		Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
,	Organics (DRO)	43	10	50.00	0	85.9	61.9	130	/orti D		Quai
Surr: DNOP	• • •	4.1		5.000		82.3	69	147			
Sample ID:	MB-76296	SampT	Гуре: МЕ	BLK	Tes	stCode: EF	A Method	8015M/D: Die	sel Range	Organics	
Client ID:	PBS	Batcl	h ID: 762	296	F	RunNo: <b>98</b>	3287		_	-	
Prep Date:	7/18/2023	Analysis E	Date: 7/	18/2023	S	SeqNo: 35	577902	Units: %Rec	;		
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	SampT	Гуре: <b>LC</b>	S	Tes	stCode: EF	A Method	8015M/D: Die	sel Range	Organics	
Client ID:	LCSS	Batcl	h ID: 762	296	F	RunNo: <b>98</b>	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:	2307755-001AMSD	Samp	Гуре: МS	SD	Tes	tCode: EF	A Method	8015M/D: Die	sel Range	Organics	
1	S-1	Batcl	h ID: 762	278	F	RunNo: <b>98</b>	3287				
Client ID:	•										
Client ID: Prep Date:	7/18/2023	Analysis E	Date: 7/	18/2023	5	SeqNo: 35	577999	Units: mg/K	g		
		Analysis I Result	Date: <b>7/</b> PQL		SPK Ref Val	SeqNo: <b>35</b> %REC	577999 LowLimit	Units: <b>mg/K</b> HighLimit	í <b>g</b> %RPD	RPDLimit	Qual

**Qualifiers:** 

- Value exceeds Maximum Contaminant Level. \*
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.24-Jul-23	QC SUMMARY REPORT	WO#:	2307755
	Hall Environmental Analysis Laboratory, Inc.		24-Jul-23

Client:	ENSOLUI	Ν									
<b>Project:</b>	SJ 28 5 14	4									
Sample ID:	2307755-001AMSD	Samp	Туре: <b>М</b>	SD	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID:	S-1	Batc	h ID: <b>76</b> 2	278	F	RunNo: <b>98</b>	8287				
Prep Date:	7/18/2023	Analysis I	Date: 7/	18/2023	S	SeqNo: 3	577999	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		4.2		4.873		85.3	69	147	0	0	

- \* 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

# **QC SUMMARY REPORT** Hall Env

	WO#:	2307755	
vironmental Analysis Laboratory, Inc.		24-Jul-23	

Client: Project:	ENSOLU SJ 28 5 1										
Sample ID: Client ID:	2.5ug gro lcs LCSS	•	ype: LC	-		tCode: EF		8015D: Gasol	line Range		
Prep Date:		Analysis D	ate: 7/	18/2023		SeqNo: 35		Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang Surr: BFB	e Organics (GRO)	22 1900	5.0	25.00 1000	0	88.0 191	70 15	130 244			
Sample ID:	mb	SampT	уре: <b>МЕ</b>	BLK	Tes	tCode: EF	PA Method	8015D: Gasol	line Range		
Client ID:	PBS	Batch	n ID: GS	98285	F	RunNo: <b>98</b>	3285				
Prep Date:		Analysis D	ate: 7/	18/2023	S	SeqNo: 35	576899	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
-	e Organics (GRO)	ND	5.0								
Surr: BFB		910		1000		90.5	15	244			
Sample ID:	2307755-001ams	SampT	ype: <b>MS</b>	5	Tes	tCode: EF	PA Method	8015D: Gasol	line Range		
Client ID:	S-1	Batch	n ID: GS	98285	F	RunNo: <b>98</b>	3285				
Prep Date:											
		Analysis D	ate: 7/	18/2023	5	SeqNo: 35	577210	Units: mg/K	g		
Analyte		Analysis D Result	ate: <b>7/</b> PQL	18/2023 SPK value	SPK Ref Val	SeqNo: <b>3</b> : %REC	577210 LowLimit	Units: <b>mg/K</b> HighLimit	<b>g</b> %RPD	RPDLimit	Qual
,	e Organics (GRO)					•		U	•	RPDLimit	Qual
,	e Organics (GRO)	Result	PQL	SPK value	SPK Ref Val	· %REC	LowLimit	HighLimit	•	RPDLimit	Qual S
Gasoline Rang Surr: BFB	e Organics (GRO) 2307755-001amsd	Result 870 22000	PQL	SPK value 197.3 7893	SPK Ref Val 689.5	%REC 91.1 284	LowLimit 70 15	HighLimit 130	%RPD	RPDLimit	
Gasoline Rang Surr: BFB		Result 870 22000 SampT	PQL 39	SPK value 197.3 7893	SPK Ref Val 689.5 Tes	%REC 91.1 284	LowLimit 70 15 PA Method	HighLimit 130 244	%RPD	RPDLimit	
Gasoline Rang Surr: BFB Sample ID:	2307755-001amsd	Result 870 22000 SampT	PQL 39 Type: <b>MS</b> n ID: <b>GS</b>	SPK value 197.3 7893 5D 98285	SPK Ref Val 689.5 Tes F	%REC 91.1 284 tCode: <b>EF</b>	LowLimit 70 15 PA Method 3285	HighLimit 130 244	%RPD	RPDLimit	
Gasoline Rang Surr: BFB Sample ID: Client ID:	2307755-001amsd	Result 870 22000 SampT Batch	PQL 39 Type: <b>MS</b> n ID: <b>GS</b>	SPK value 197.3 7893 5D 98285 18/2023	SPK Ref Val 689.5 Tes F	%REC 91.1 284 tCode: EF	LowLimit 70 15 PA Method 3285	HighLimit 130 244 8015D: Gasol	%RPD	RPDLimit	
Gasoline Rang Surr: BFB Sample ID: Client ID: Prep Date: Analyte	2307755-001amsd	Result 870 22000 SampT Batch Analysis D	PQL 39 Type: <b>MS</b> 1D: <b>GS</b> Pate: <b>7</b> /	SPK value 197.3 7893 5D 98285 18/2023	SPK Ref Val 689.5 Tes F	%REC 91.1 284 tCode: EF RunNo: 98 SeqNo: 35	LowLimit 70 15 PA Method 3285 577325	HighLimit 130 244 8015D: Gasol Units: mg/K	%RPD		S

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

# QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#:	2307755
	24-Jul-23

Client:ENSOLUProject:SJ 28 5 1										
Sample ID: 100ng btex lcs	Samp	Гуре: <b>LC</b>	s	Tes	tCode: El	PA Method	8021B: Volati	les		
Client ID: LCSS	Batc	h ID: <b>R9</b>	8285	F	RunNo: 98	3285				
Prep Date:	Analysis [	Date: <b>7/</b> *	18/2023	5	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	Гуре: <b>МЕ</b>	BLK	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: PBS	Batc	h ID: <b>R9</b>	8285	F	RunNo: <b>9</b>	3285				
Prep Date:	Analysis [	Date: 7/	18/2023	S	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: <b>МS</b>	;	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: S-2	Batc	h ID: R9	8285	F	RunNo: <b>9</b>	8285				
Prep Date:	Analysis [	Date: <b>7/</b> *	18/2023	S	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	Samp	Гуре: <b>МS</b>	D	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: S-2	Batc	h ID: <b>R9</b>	8285	F	RunNo: <b>9</b> 8	8285				
Prep Date:	Analysis [	Date: <b>7/</b>	18/2023	S	SeqNo: 3	577327	Units: mg/K	g		

Client ID: S-2	Batc	h ID: <b>R9</b>	8285	ŀ	RunNo: 98	8285				
Prep Date:	Analysis [	Date: <b>7/</b> *	18/2023	S	SeqNo: 3	577327	Units: <b>mg/K</b>	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	

- \* 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

HALL ENVIRONMENTAL ANALYSIS LABORATORY	TEL: 505-345-3975	4901 Hawkins N Iquerque, NM 8710	 99 <b>Sam</b> 97	ple Log-In Check List	
Client Name: ENSOLUM	Work Order Number:	2307755		RcptNo: 1	
Received By: Tracy Casarrubias Completed By: Tracy Casarrubias Reviewed By: SCM 07/18/2	7/18/2023 6:20:00 AM 7/18/2023 6:52:25 AM 3				
Chain of Custody		Yes	No 🗹	Not Present	
<ol> <li>Is Chain of Custody complete?</li> <li>How was the sample delivered?</li> </ol>		res 🗀 Courier	NU 🖭		
Log In 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 🗌		
5. Sample(s) in proper container(s)?		Yes 🗹	No 🗌		
6. Sufficient sample volume for indicated test(s	)?	Yes 🗹	No 🗌		
$7_{\cdot}$ Are samples (except VOA and ONG) proper	ly 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	en?	Yes	No 🗹	# of preserved	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗹	No 🗌	bottles checked for pH: (<2 or >12 unless noted	d)
12. Are matrices correctly identified on Chain of	Custody?	Yes 🗹	No 🗌	Adjusted?	
13. Is it clear what analyses were requested?		Yes 🗹	No 🗌		1-
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗹	No 🗌	enecked by: J~7/18	12
Special Handling (if applicable)					
15. Was client notified of all discrepancies with	this order?	Yes 🗌	No 🗌	NA 🗹	
Person Notified:	Date:				
By Whom:	Via: [	] eMail 📋 Pho	one 🗌 Fax	In Person	
Regarding:		and a standard and a state			
Client Instructions: Phone number a	nd Email/Fax are missin o	on COC - TMC 7/	18/23		
16. Additional remarks:					
		Seal Date S	Signed By		
1 5.2 Good Ye	s Yogi				

Page 1 of 1

Received by OCD: 9/20/2023 12:31:12 PM

Page 162 of 181

MA II:40:8 4202/91/1 :gnigpm1 of besaelest

Client: Ensolum LLC	Turn-Around Time:       100000         □ Standard       □00000         Project Name:       □	HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com
Mailing Address: 606 SR. 40 Grand	e SJ28-5#14	4901 Hawkins NE - Albuquerque, NM 87109
Suit A 872/10	Project #:	Tel. 505-345-3975 Fax 505-345-4107
Phone #:	1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Analysis Request
email or Fax#:	Project Manager:	ent)
QA/QC Package:	K Summers	TMB's (8021) / DRO / MRO 3082 PCB's 4.1) 8270SIMS 8270SIMS () ()
Accreditation:          □ Az Compliance         □ NELAC         □ Other         □ Other	Sampler: (DApont i On Ice: Yes D No yogi	E / TMB' RO / DR( es/8082   504.1) ) or 8270  s  s
EDD (Type)	# of Coolers:	MHBE 15D(GR asticides asticides y 8310 ( y 8310 ( y 8310 ( ) y 831
Date Time Matrix Sample Name	Container Preservative HEAL No.	BTEX / MTOLE / TMB's (8021) TPH:8015D(GRO / DRO / MRO) 8081 Pesticides/8082 PCB's EDB (Method 504.1) PAHs by 8310 or 8270SIMS RCRA 8 Metals CLAF Br, NO, NO, RO, RO, SO 8260 (VOA) 8260 (VOA) 8270 (Semi-VOA) Total Coliform (Present/Absent)
7/17 1300 5 5-1	$\frac{1402}{5ar}$	
7/17 1305 S S-2	(a) 002	
7/17 1310 S S-3	Jal, 003	
7/17 1315 S S-4	100,004	
7/17 1320 5 5-5	1 and 005	
Date: Time: Relinquished by: 777 1433 Contractor Date: Time: Relinquished by:	Received by: Via: course Date Time	Remarks: Tom Long
1/17/2 1751 (Martin Walter	7/10/22 6:20	

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181 fo EST 23D differences as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report. Wd Z1:1E:ZI EZOZ/0Z/6:(D) 0 Aq paragay



August 04, 2023

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

RE: 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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

## Hall Environmental Analysis Laboratory, Inc.

Lab Order 2307E46

Date Reported: 8/4/2023

CLIENT	ENSOLUM	Client Sample ID: S-1a
<b>Project:</b>	SJ 28 5 14	Collection Date: 7/28/2023 12:00:00 PM
Lab ID:	2307E46-001	<b>Matrix:</b> MEOH (SOIL) <b>Received Date:</b> 7/29/2023 7:05:00 AM

Analyses	Result	RL (	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	SNS
Chloride	ND	61	mg/Kg	20	7/31/2023 1:56:36 PM	76564
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst	DGH
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	7/29/2023 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	102	69-147	%Rec	1	7/29/2023 3:02:20 PM	76555
EPA METHOD 8015D: GASOLINE RANGE					Analyst	JJP
Gasoline Range Organics (GRO)	ND	4.3	mg/Kg	1	7/31/2023 1:38:34 PM	GS98601
Surr: BFB	95.4	15-244	%Rec	1	7/31/2023 1:38:34 PM	GS98601
EPA METHOD 8021B: VOLATILES					Analyst	JJP
Benzene	ND	0.021	mg/Kg	1	7/31/2023 1:38:34 PM	BS98601
Toluene	ND	0.043	mg/Kg	1	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	1	7/31/2023 1:38:34 PM	BS98601
Surr: 4-Bromofluorobenzene	110	39.1-146	%Rec	1	7/31/2023 1:38:34 PM	BS98601

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

**Qualifiers:** 

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

Page 1 of 5

<b>QC St</b> Hall Er	wo#: 2307E ratory, Inc. 04-Aug-2		
Client: Project:	ENSC SJ 28	DLUM 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	3 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	SampT	ype: LC	s	Tes	tCode: EF							
Client ID: LCSS	Batch	n ID: 765	564	F	RunNo: 98608							
Prep Date: 7/31/2023	Analysis Date: 7/31/2023			S	SeqNo: 3	592135	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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank В
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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**ENSOLUM** 

**Client:** 

# **QC SUMMARY REPORT** Hall Environmental Analysis Laboratory, Inc.

Project: SJ 28 5	14														
Sample ID: LCS-76555	Samp	Гуре: <b>LC</b>	S	TestCode: EPA Method 8015M/D: Diesel Range Organics											
Client ID: LCSS	Batc	h ID: <b>76</b>	555	F											
Prep Date: 7/29/2023	Analysis [	Analysis Date: 7/29/2023 SeqNo: 3590225 U							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	Samp	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8015M/D: Die	sel Range	Organics						
Client ID: PBS	Batc	h ID: <b>76</b>	555	F	RunNo: 9	3594									
	rep Date: 7/29/2023 Analysis Date: 7/29/2023 SeqNo: 3590227														
Prep Date: 7/29/2023	Analysis [	Date: 7/	29/2023	S	SeqNo: 3	590227	Units: <b>mg/K</b>	g							
Prep Date: <b>7/29/2023</b> Analyte	Analysis [ Result	Date: <b>7/</b> PQL	<b>29/2023</b> SPK value	SPK Ref Val	SeqNo: <b>3</b> : %REC	590227 LowLimit	Units: <b>mg/K</b> HighLimit	<b>g</b> %RPD	RPDLimit	Qual					
					•		Ŭ	0	RPDLimit	Qual					
Analyte	Result	PQL			•		Ŭ	0	RPDLimit	Qual					

#### **Qualifiers:**

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

- RL

WO#: 2307E46 04-Aug-23

# QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#:	23	07E46
		22

04-Aug-23

Client:	ENSOLUM											
Project:	SJ 28 5 14											
Sample ID: 2.5ug	gro lcs	SampT	ype: <b>LC</b>	S	Tes	tCode: EF	PA Method	8015D: Gasoli	ne Range			
Client ID: LCSS		Batch	ID: GS	98601	F	RunNo: <b>98</b>	8601					
Prep Date:	A	nalysis Da	ate: 7/	31/2023	S	SeqNo: 3	590782	Units: mg/Kg	I			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organi	ics (GRO)	22	5.0	25.00	0	89.2	70	130				
Surr: BFB		2000		1000		195	15	244				
Sample ID: mb		SampT	pe: ME	BLK	Tes	tCode: EF	PA Method	8015D: Gasoli	ne Range			
Client ID: PBS	PBS         Batch ID:         GS98601         RunNo:         98601											
Prep Date:	Ą	nalysis Da	ate: 7/	31/2023	S	SeqNo: 3	590783	Units: mg/Kg	I			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organi	ics (GRO)	ND	5.0									
Surr: BFB		900		1000		90.4	15	244				
Sample ID: Ics-76	543	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8015D: Gasoli	ne Range			
Client ID: LCSS		Batch	ID: 76	543	F	RunNo: <b>98</b>	8601					
Prep Date: 7/28/	<b>/2023</b> A	nalysis Da	ate: 7/	31/2023	S	SeqNo: 3	591155	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-76	543	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8015D: Gasoli	ne Range			
Client ID: PBS		Batch	ID: 76	543	F	RunNo: <b>98</b>	8601					
Prep Date: 7/28/	<b>/2023</b> A	nalysis Da	ate: 7/	31/2023	S	SeqNo: 3	591604	Units: %Rec				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: BFB		960		1000		96.1	15	244				

Qualifiers:

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

Page 4 of 5

ENSOLUM

SJ 28 5 14

**Client:** 

**Project:** 

Sample ID: 100ng btex lcs

## **QC SUMMARY REPORT** Hall Environmental Analysis Laboratory, Inc.

|--|

#### Qualifiers:

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

RL Reporting Limit Page 5 of 5

SampType: LCS

,	1 71 =											
Client ID: LCSS	SS         Batch ID:         BS98601         RunNo:         98601											
Prep Date:	Analysis Date: 7	7/31/2023	S	SeqNo: 3	590788	Units: mg/K	g					
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Benzene	1.1 0.025	5 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: <b>M</b>	SampType: MBLK TestCode: EPA Method 8021B: Volatiles										
Client ID: PBS	Batch ID: <b>BS98601</b> RunNo: <b>98601</b>											
Prep Date:	Analysis Date:	//31/2023	5	SeqNo: 3	590790	Units: mg/K	g					
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Benzene	ND 0.025	5										
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: L	cs	Tes	tCode: El	PA Method	8021B: Volatil	es					
Client ID: LCSS	Batch ID: 7	6543	F	RunNo: 9	3601							
Prep Date: 7/28/2023	Analysis Date: 7	//31/2023	5	SeqNo: 3	591156	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: M	BLK	Tes	tCode: El	PA Method	8021B: Volatil	es					
Client ID: PBS	Batch ID: 7	6543	F	RunNo: <b>9</b>	8601							
Prep Date: 7/28/2023	Analysis Date: 7	//31/2023	S	SeqNo: 3	591642	Units: %Rec						
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
	1.1	1.000										

TestCode: EPA Method 8021B: Volatiles

#### WO#: 2307E46

HALL ENVIRONMENTAL ANALYSIS LABORATORY 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 8:04:11 AM

Client Name: ENSOLUM	Work Order Number	23071	546		RcptNo: 1	
Received By: Juan Rojas	7/29/2023 7:05:00 AM			Guanda g		
Completed By: Tracy Casarrubias	7/29/2023 8:23:37 AM					
Reviewed By: 717/29/23						
Chain of Custody						
1. Is Chain of Custody complete?		Yes		No 🗹	Not Present	
2. How was the sample delivered?		Couri	<u>er</u>			
Log In						
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) proper	ly preserved?	Yes [		No 🗌		
8. Was preservative added to bottles?		Yes		No 🔽		
9. Received at least 1 vial with headspace <1/4	" for AQ VOA?	Yes [		No 🗌	NA 🗹	/
10. Were any sample containers received broke	en?	Yes		No 🔽	# of preserved	
11.Does paperwork match bottle labels?		Yes		No 🗌	bottles checked for pH:	
(Note discrepancies on chain of custody)						unless noted)
12. Are matrices correctly identified on Chain of	Custody?	Yes		No 🗌	Adjusted?	
13. Is it clear what analyses were requested?		Yes		No 🗌		-1/20/2
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes		No 🗌	Checked by: TM	7/29/2
Special Handling (if applicable)						
15. Was client notified of all discrepancies with	this order?	Yes		No 🗌	NA 🗹	
Person Notified:	Date:					
By Whom:	Via:	eMa	il 🗌 Ph	none 🗌 Fax	In Person	
Regarding:						
Client Instructions: Phone number a	nd Email/Fax are missing	on CO	C - TMC	7/29/23	and the second second second	
16. Additional remarks:						
17. <u>Cooler Information</u>						
	eal Intact Seal No	Seal Da	te	Signed By		
1 0.7 Good Ye	s Morty					

Received by OCD: 9/20/2023 12:31:12 PM

C	hain	-of-Cu	ustody Record	Turn-Around	Time:	10000	HALL ENVIRONMENTAL														
Client:			n LLC	- □ Standard Project Name	l DrRush e:	7-31-23				A	N	AL	YS	SIS	5 L		30				
Mailing	Address	: Lopla	S. B. B. Brande	352	8-5	7=+ 1-1	4901 Hawkins NE - Albuquerque, NM 87109														
Su	it p	4 87.	Shiolorande 410	Project #:	<u> </u>	· · ·				)5-34							-410				
Phone							Analysis Request												-		
email o	r Fax#:			Project Mana	ager:	( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )	21) RO)														
QA/QC	Package:						802	RR	PCB's		MS					bse					
🗆 Star	ndard		Level 4 (Full Validation)	K	Summ	215	) s (	l õ	D A		ISO I		4			nt/A					
			ompliance	Sampler:	CAApo.	n-L3	TMB's (8021)	Ĩ.	3082	<del>[]</del>	827		NO2-PO4,			rese					
		□ Other	•	On Ice: -					es/8	20	0 or	s			AO'	<u>a</u>					
	) (Type) _ I	<u> </u>		Cooler Temp	1	0.8-0.1=0.7(°C)	MTBE	0)0	ticid	pod	831	Meta	×	(A	ni-∖	form			2.0		
Date	Time	Matrix	Sample Name	Container	Preservative Type		BTEX / N	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	<b>RCRA 8 Metals</b>	CITA AR, NO.	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)					
1/28		C	Sator S-1a	1402		Constant of the second second second	1				-		2			-					
128	1200		Jerona sta	1 Jar	100	001	<u>₩</u>			$\rightarrow$	-		r				$ \rightarrow $	$\rightarrow$	-	-	
					21 In	ALC: MALE OF STREET	<u> </u>		_				_				- 14	_			
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Date:	Time:	Relinquish	led by:	Received by:	Via:	Date Time	Rer	narks	TO	3m	4	g	/		Jea	1	ntu	4.	su 71	1/2	3
Date: 7/28/27	Time:	Relinquish	ed by:	Received by:	Via:	Date Time	_												St	L. J.	X

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



September 08, 2023

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

RE: 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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

## Hall Environmental Analysis Laboratory, Inc.

Lab Order 2308556

Date Reported: 9/8/2023

CLIENT	ENSOLUM	Client Sample ID: S-5a
<b>Project:</b>	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 OR	GANICS				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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- В Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits Sample pH Not In Range
- Р RL Reporting Limit

Page 1 of 5

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all Environmental Analysis Laboratory, Inc. 08-Sep-2	C SUMMART REFORT	WO#:	2308556
	all Environmental Analysis Laboratory, Inc.		08-Sep-23

Client: Project:	ENSOLI SJ 28 5															
Sample ID:	MB-76785	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	300.0: Anions	3							
Client ID:	PBS	Batch	ID: 767	785	F	RunNo: <b>98</b>	3880									
Prep Date:	8/10/2023	Analysis D	ate: <b>8/</b> *	10/2023	S	SeqNo: 36	603269	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	SampT	ype: LC	S	Tes	tCode: EF	PA Method	300.0: Anions	6							
Client ID:	LCSS	Batch	ID: 767	785	F	RunNo: <b>98</b>	3880									
Prep Date:	8/10/2023	Analysis D	ate: <b>8/</b>	10/2023	SeqNo: 3603270			Units: mg/K	g							
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:** 

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- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
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- Analyte detected in the associated Method Blank В
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- Р Sample pH Not In Range
- RL Reporting Limit

Page 2 of 5

# QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

2308556	WO#:	
08-Sep-23		

Client:	ENSOLU										
Project:	SJ 28 5 14	-									
Sample ID:	2308556-001AMS	SampT	Гуре: <b>МS</b>	;	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID:	S-5a	Batcl	h ID: 767	782	F	RunNo: <b>98</b>	8859				
Prep Date:	8/10/2023	Analysis E	Date: <b>8/</b>	10/2023	S	SeqNo: 36	601549	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (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	Гуре: <b>LC</b>	s	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID:	LCSS	Batcl	h ID: 767	782	F	RunNo: <b>98</b>	8859				
Prep Date:         8/10/2023         Analysis Date:         8/10/2023         SeqNo:         3601554         Units:         mg/Kg											
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
•	Organics (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	Гуре: МЕ	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID:	PBS	Batcl	h ID: 767	782	F	RunNo: <b>98</b>	8859				
Prep Date:	8/10/2023	Analysis E	Date: <b>8/</b>	10/2023	S	SeqNo: 36	601557	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
-	Organics (DRO)	ND	10								
	ge Organics (MRO)	ND	50								
Surr: DNOP		9.1		10.00		91.2	69	147			
Sample ID:     2308556-001AMSD     SampType:     MSD     TestCode:     EPA Method 80									sel Range	Organics	
Client ID:	S-5a	Batcl	h ID: 767	782	RunNo: 98859						
Prep Date:	S	SeqNo: 36	602160	Units: mg/K	g						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
•	Organics (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:

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

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# **QC SUMMARY REPORT** Hall Environmental Analysis Laboratory, Inc.

230855	WO#:
08-Sep-23	

Client: Project:	ENSOLU: SJ 28 5 14										
Sample ID:	2.5ug gro lcs	Samp	Гуре: <b>LC</b>	S	Tes	tCode: El	PA Method	8015D: Gaso	line Range		
Client ID:	LCSS	Batc	h ID: GS	98876	F	RunNo: <b>9</b>	8876				
Prep Date:		Analysis [	Date: <b>8/</b>	10/2023	\$	SeqNo: 3	602488	Units: <b>mg/k</b>	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	22	5.0	25.00	0	89.3	70	130			
Surr: BFB		1900		1000		193	15	244			
Sample ID:	mb	Samp	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8015D: Gaso	line Range	l.	
Client ID:	PBS	Batc	h ID: GS	98876	F	RunNo: <b>9</b>	8876				
Prep Date:         Analysis Date:         8/10/2023         SeqNo:         3602489         Units:         mg/Kg											
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
-	e Organics (GRO)	ND	5.0								
Surr: BFB		950		1000		95.2	15	244			
Sample ID:	2308556-001ams	Samp	Гуре: <b>МS</b>	6	Tes	tCode: El	PA Method	8015D: Gaso	line Range	!	
Client ID:	S-5a	Batc	h ID: GS	98876	F	RunNo: <b>9</b>	8876				
Prep Date:		Analysis [	Date: <b>8/</b>	10/2023		SeqNo: 3	602679	Units: <b>mg/k</b>	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	18	3.9	19.73	0	91.1	70	130			
Surr: BFB		1600		789.3		200	15	244			
Sample ID:         2308556-001amsd         SampType:         MSD         TestCode:         EPA Method 8015D:         Gasoline Range									1		
Client ID:	S-5a	Batc	h ID: GS	98876	F	RunNo: <b>9</b>	8876				
Prep Date:		Analysis [	Date: <b>8/</b>	10/2023	\$	SeqNo: 3	602680	Units: <b>mg/k</b>	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	19	3.9	19.73	0	94.3	70	130	3.45	20	
Surr: BFB		1600		789.3		205	15	244	0	0	

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- Analyte detected in the associated Method Blank В
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- Р Sample pH Not In Range
- RL Reporting Limit

# QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Project:	ENSOLUI SJ 28 5 14										
Sample ID:	100ng btex lcs	Samp	Type: LC	S	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID:	LCSS	Bato	h ID: <b>BS</b>	98876	F	RunNo: <b>98</b>	3876				
Prep Date:		Analysis	Date: <b>8/</b>	10/2023	S	SeqNo: 36	602492	Units: mg/K	g		
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-Brom	nofluorobenzene	1.1		1.000		108	39.1	146			
Sample ID:	mb	Samp	Туре: МЕ	BLK	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID:	PBS	Bato	h ID: <b>BS</b>	98876	F	RunNo: <b>98</b>	3876				
Prep Date:		Analysis	Date: <b>8/</b>	10/2023	S	SeqNo: 36	602493	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-Brom	nofluorobenzene	1.1		1.000		108	39.1	146			
Sample ID:	2308556-001AMSD	Samp	Туре: <b>МS</b>	D	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID:	S-5a	Bato	h ID: <b>BS</b>	98876	F						
Prep Date:		Analysis	Date: <b>8/</b>	10/2023	Ş	SeqNo: 36	602705	Units: mg/K	g		
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-Brom	nofluorobenzene	0.87		0.7893		110	39.1	146	0	0	
Sample ID:         2308556-001AMS         SampType:         MS         TestCode:         EPA								8021B: Volati	les		
Client ID:	t ID: S-5a Batch ID: BS98876					RunNo: <b>98</b>	3876				
Prep Date:		10/2023	S	SeqNo: 36	602706	Units: mg/K	g				
Analyte		Result	PQL	SPK value	SPK 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			
Lurybonzono											
Xylenes, Total		2.6	0.079	2.368	0.01586	108	70	130			

#### Qualifiers:

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

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WO#: 2308556

HALL ENVIRONMENTAL ANALYSIS LABORATORY	TEL: 505-345-39	al Analysis Labor 4901 Hawkii Ibuquerque, NM 8 75 FAX: 505-345- hallenvironmenta	ns NE 17109 San 14107	nple Log-In C	heck List
Client Name: ENSOLUM	Work Order Numbe	er: 2308556		RcptNo:	1
Received By: Tracy Casarrubias	8/10/2023 6:30:00 A	М			
Completed By: Tracy Casarrubias	8/10/2023 7:04:37 A	м			
Reviewed By: Jn 8/10/23					
Chain of Custody		_	_		
1. Is Chain of Custody complete?		Yes	No 🗹	Not Present	
2. How was the sample delivered?		Courier			
Log In					
3. Was an attempt made to cool the samples	?	Yes 🗹	No 🗌		
4. Were all samples received at a temperature	e of ⊃0° C to 6.0°C	Yes 🔽	No 🗌		
5. Sample(s) in proper container(s)?		Yes 🔽	No 🗌		
6. Sufficient sample volume for indicated test(	s)?	Yes 🗹	No 🗌		
7. Are samples (except VOA and ONG) prope	rly 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 brok	en?	Yes	No 🗹	# of preserved	
11.Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗹	No 🗌	bottles checked for pH: (≤2 or 3	>12 unless noted)
12. Are matrices correctly identified on Chain of	f Custody?	Yes 🗹	No 🗍	Adjusted?	SCM 08/10/23
13. Is it clear what analyses were requested?		Yes 🗹	No 🗌	191	MASIAG R
14. Were all holding times able to be met?		Yes 🗹	No 🗌	Checked by:	1000100
(If no, notify customer for authorization.)					08/10/23
Special Handling (if applicable)					1
15. Was client notified of all discrepancies with	this order?	Yes	No 🗌	NA 🔽	
Person Notified:	Date:		inanananian interanentiale		
By Whom:	Via:	eMail F	hone 🗌 Fax	In Person	
Regarding: Client Instructions:					
16. Additional remarks:					
17. <u>Cooler Information</u> Cooler No Temp <sup>o</sup> C Condition S 1 1.9 Good Ye	Seal Intact Seal No es Morty	Seal Date	Signed By		

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Client:	hain	of-Cu	stody Record	Turn-Around	Time:	20090									MM	IEr	1	AL	Necente		
	En	Salu	m	□ Standard	🛛 Rush	8-10-33				A	N	AL	YS	IS	L	AB	OF	RA	TO	RY	, by
Ima				Project Nam	e: 28- 2	= 4/2/					www	.hal	envi	ronn	nent	al.com	m				2
Mailing	Address	606	S.R. C. Crende		89-A	appropriate		49	01 H							e, NN		109			0.71
SL SL	1. +	A	87410	Project #:				Te	el. 50	5-34	5-39	975	F	ax :	505-	345-4	1107				10/2
Phone	#:			051	A 1221	239						A	naly	sis I	Requ	uest					670
email o	r Fax#:			Project Manager:				Ô					S04			int)					14
QA/QC	Package:						802	MR	PCB's		MS					Abse					
Stan	ndard		Level 4 (Full Validation)	h	Sumpre	5	TMB's (8021)	/ DRO / MRO)	PC		8270SIMS		P			int/A					
Accredi			ompliance	Sampler:	+ Apart	1	IMI	/DF	3082	504.1)			NO2, PO4,			Coliform (Present/Absent)					
		□ Other		On Ice:	□ Yes	□ No	ì	RO	es/8	504	0 or	s			AO'	-B					
	(Type)	1		# of Coolers: Cooler Temp		(°C)	MTBE	D(G	ticid	pou	831(	Aeta	ž	A	V-in	form					
		-		Cooler Temp	(including CP).	(0)	-	3015	Pes	Met	þ	181	B,	2	(Sei	Coli					
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX	TPH:8015D(GRO	8081 Pesticides/8082	EDB (Method	PAHs by 8310	RCRA 8 Metals	CI, F, Br, NO <sub>3</sub> ,	8260 (VOA)	8270 (Semi-VOA)	Total					
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Shel.	16 1725				La la	9/1/ 12:5	Taylorg														
Date: Time: Relinquished by: Received by:					Via:	Date Time												1	151		io er a Sn I
	If necessary	, samples sul	omitted to Hall Environmental may be sub	contracted to other a	accredited laboratorio	es. This serves as notice of th	is poss	ibility.	Any su	ub-con	tracted	d data	will be	clearl	y notai	ted on t	the ana	alytical	report.		0 T 10

Received by OCD: 9/20/2023 12:31:12 PM

Chain-of-Custody Record				Turn-Around	Turn-Around Time: $1022$ $\Box$ Standard $\Box$ Rush $\underline{\$ - 10 - 33}$ Project Name: $28 - 5412$ 552642				HALL ENVIRONMENTAL													
Client:	EI	nsol0	um		□ Standar	d 🗹 Rusi	h 8-10-	23														
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Mailing	Addres	s: 606	SRi	o Brande	55.	Bank	TELSA			100	1 4	awkins							100			
Sa	2:4	A	87410	>	Project #:							5-345-			•			-4107				
Phone			-	······································	05	A 1221	239					040		14	1.6	1/1	uest	-				
email c	or Fax#:				Project Man	ager:	21		=	ô				Ś			Ê					
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Accred			ompliance r			"DApont		norty		0 / DR(	$\sim 1$	504.1) or 8270	121 24	NO <sub>2</sub> ,		A)	Presen					
	D (Type)				# of Coolers: 1				MARBE	(GR	lides	od 5	etals	₽ 9		Ň,	E E					
					Cooler Temp Container	O(including CF): 2.				TPH:8015D(GRO	1 Pestic	EDB (Method 504.1) PAHs bv 8310 or 82	RCRA 8 Metals	CI, P. Br, NO3,	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)					
Date 8/9	Time		Sample	Name	Type and #	Туре	2308550		BTEX	힘	8081	BA B	RCI	t)	826	827	Tota					
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19/33 1728 Cont			Received by: Viax Date Time Ri		Remarks: 5 Terry Long Spirit Dog																	
			Received by: Via: Cauna Date Time 6:30 8/10/27												č	, p	log					

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

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

District III

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

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

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

CONDITIONS

Operator:	OGRID:
Enterprise Field Services, LLC	241602
PO Box 4324	Action Number:
Houston, TX 77210	267441
	Action Type:
	[C-141] Release Corrective Action (C-141)

#### CONDITIONS

Created By		Condition Date
nvelez	None	1/19/2024

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Action 267441