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

State of New Mexico Energy Minerals and Natural Resources Department

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

Incident ID	
District RP	
Facility ID	
Application ID	

# **Release Notification**

	Responsible Party										
Responsible	Party: Ente	rprise Field Ser	vices, LLC	OGRID: 2	OGRID: <b>241602</b>						
Contact Nam	ne: <b>Thomas</b>	Long		Contact To	Contact Telephone: <b>505-599-2286</b>						
Contact ema	il: <b>tjlong@e</b> j	prod.com		Incident	nt # (assigned by OCD): nAPP2123630210						
Contact mail <b>87401</b>	ing address:	614 Reilly Ave,	Farmington, NM								
			Location o	of Release So	Source						
Latitude 36.8	345777		Longitude <u>-</u>	107.872627	(NAD 83 in decimal degrees to 5 decimal place	ces)					
Site Name At	tlantic BLS	5 <b>#22</b>		Site Type I	Natural Gas Gathering Pipeline						
Date Release	Discovered:	08/16/2021		Serial Nun	Serial Number (if applicable): N/A						
Unit Letter	Section	Township	Range	Cour	County						
C	3	30N	10W	San J	Juan						
Surface Owne	r: State	☐ Federal ☐ Tr	ibal 🛛 Private ( <i>Na</i>	ame <u>:</u> James Ada	dam Coleman						
			Nature and	Volume of 1	Release						
				alculations or specific	ic justification for the volumes provided below)						
Crude Oi	1	Volume Release	d (bbls)		Volume Recovered (bbls)						
Produced	Water	Volume Release	d (bbls)		Volume Recovered (bbls)						
		Is the concentrat	ion of dissolved chl >10,000 mg/l?	oride in the	Yes No						
Condensa	nte		d (bbls): <b>5-10 BBL</b>	s	Volume Recovered (bbls): None						
Natural C	das	Volume Release	d (Mcf): <b>2.7 MCF</b>		Volume Recovered (Mcf): None						
Other (de	escribe)	Volume/Weight	Released (provide i	units):	Volume/Weight Recovered (provide units)						
The pipeline underground services resp	was isolated . Liquids are oonded. Rer	d, depressurized, I present in the su nediation was com	ocked and tagged obsurface. No wash pleted on August 29	out. No liquids w es/waterway wer 5, 2021. The final	and natural gas liquids from the Atlantic BLS #22 p were observed on the ground surface. The releatere affected. No residences were affected. No eme al excavation dimensions measured approximately ocarbon impacted soil was excavated and transport	ergency 25 feet					

New Mexico Oil Conservation Division (NMOCD) approved land farm. A third party closure report is included with this "Final." C-141.

Released to Imaging: 2/23/2022 9:54:54 AM

Page 2 of 179

Incident ID		
District RP		
Facility ID		
Application ID		

# Closure

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

Closure Report Attachment Checklist: Each of the following its	ems must be included in the closure report.
A scaled site and sampling diagram as described in 19.15.29.1	1 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate ODC	District office must be notified 2 days prior to final sampling)
☐ Description of remediation activities	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of a should their operations have failed to adequately investigate and remhuman health or the environment. In addition, OCD acceptance of a compliance with any other federal, state, or local laws and/or regulat restore, reclaim, and re-vegetate the impacted surface area to the coraccordance with 19.15.29.13 NMAC including notification to the OC	nediate contamination that pose a threat to groundwater, surface water, a C-141 report does not relieve the operator of responsibility for tions. The responsible party acknowledges they must substantially additions that existed prior to the release or their final land use in
Signature:	Date:1-20-2022
email: <u>tjlong@eprod.com</u> Telo	
OCD Only	
Received by:	Date:
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.
Closure Approved by: Nelson Velez	Date: 02/23/2022
Printed Name: Nelson Velez	Title: Environmental Specialist – Adv



# **CLOSURE REPORT**

Property:

Atlantic BLS #22 (8/16/21) Unit Letter C, S3 T30N R10W San Juan County, New Mexico

New Mexico EMNRD OCD Incident ID No. NAPP2123630210

November 15, 2021 Ensolum Project No. 05A1226151

Prepared for:

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

Prepared by:

Landon Daniell Staff Geologist

Kyle Summers, CPG Sr. Project Manager

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#### **CLOSURE REPORT**

Atlantic BLS #22 (8/16/21)
Unit Letter C, S3 T30N R10W
San Juan County, New Mexico

Ensolum Project No. 05A1226151

#### 1.0 INTRODUCTION

## 1.1 Site Description & Background

Operator:	Enterprise Field Services, LLC / Enterprise Products Operating LLC (Enterprise)
Site Name:	Atlantic BLS #22 (8/16/21) (Site)
Incident ID	NAPP2123630210
Location:	36.845777° North, 107.872627° West Unit Letter C, Section 3, Township 30 North, Range 10 West San Juan County, New Mexico
Property:	Private
Regulatory:	New Mexico (NM) Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

On August 16, 2021, a third party notified Enterprise of a possible leak on the Atlantic BLS #22 pipeline. Enterprise investigated the area and verified two leaks within approximately 50 feet. Enterprise subsequently isolated and locked the pipeline out of service. On August 20, 2021, Enterprise initiated activities to repair the pipeline and remediate the petroleum hydrocarbon impact.

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

## 1.2 Project Objective

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

#### 2.0 CLOSURE CRITERIA

The Site is subject to regulatory oversight by the NM EMNRD OCD. To address activities related to oil and gas releases, the NM EMNRD OCD references NM 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. Ensolum, LLC (Ensolum) utilized information provided by Enterprise, the general site characteristics, and information available from the NM Office of the State Engineer (OSE) and the NM EMNRD OCD imaging database to determine the appropriate closure criteria for the Site. Supporting figures and documentation associated with the following bullets are provided in **Appendix B**.

The 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). Six PODs (SJ-00050, SJ-01048, SJ-01651, SJ-03460, SJ-03230,



SJ-04020-POD1) were identified within a one mile radius of the Site. Of those six, only PODs SJ-00050, SJ-03230, and SJ-03460 have recorded depths to water. As plotted by the OSE on the interactive map, POD SJ-00050 and SJ-03460 are shown in the same location, which is approximately 0.86 miles from the Site, and approximately 93 feet higher in elevation than the Site. The record for this POD indicates depths to water of 306 feet and 500 feet below grade surface (bgs), respectively. As plotted by the OSE on the interactive map, POD SJ-03230 is approximately 0.10 miles from the Site and approximately 24 feet lower in elevation than the Site. The record for this POD indicates the depth to water is 70 feet bgs. The permits for PODs (SJ-01048, SJ-01651, and SJ-04020-POD1) were approved by the OSE, but apparently, the wells have not been installed, as no additional information is available. Thirteen other PODs were identified in adjacent Public Land Survey System (PLSS) sections. The average depth to water for these PODs is approximately 197 feet bgs (**Figure A**, **Appendix B**).

- Two cathodic protection wells (CPWs) were identified in the NM EMNRD OCD imaging database within the same PLSS section as the Site, and 16 CPWs were identified in adjacent PLSS sections. Of the 18 total CPW locations, seven are located within approximately one mile of the Site, and another two are located within approximately 1.1 miles of the Site (Figure B, Appendix B). The records for the nearest CPW located near the Atlantic B #8A well location indicate a depth to water of 120 feet bgs. This CPW is approximately 0.02 miles southwest of the site and is estimated to be 11 feet higher in elevation than the Site. The records for the CPW located near the Atlantic B# 9A well location indicate a depth to water of 140 feet bgs. This CPW is approximately 0.54 miles northeast of the site and is estimated to be 7 feet lower in elevation than the Site. The records for the CPW located near the Atlantic B #9 and #26 and Atlantic B Com #220 well locations indicate a depth to water of 40 feet bgs. This CPW is approximately 0.49 miles north of the site and is estimated to be 93 feet lower in elevation than the Site. The records for the CPW located near the Atlantic D Com D #5A well location indicate a depth to water of 145 feet bgs. This CPW is approximately 0.90 miles east of the site. The records for this CPW did not indicate an elevation, but it is estimated to be approximately 82 feet higher in elevation than the Site. The records for the CPW located near the Atlantic B #7A well location indicate a depth to water of 81 feet bgs. This CPW is approximately 0.85 miles north of the site and is estimated to be 42 feet lower in elevation than the Site. The records for the CPW located near the Atlantic C #1, #13, and #201 well locations indicate a depth to water of 140 feet bgs. This CPW is approximately 0.97 miles northeast of the site and is estimated to be 117 feet lower in elevation than the Site. The records for the CPW located near the Koch #1A well location indicate a depth to water of 160 feet bgs. This CPW is approximately 0.75 miles southeast of the site and is estimated to be 179 feet higher in elevation than the Site. The records for the CPW located near the San Juan #10A and #6A well locations indicate a depth to water of 180 feet bgs. This CPW is approximately 1.0 miles south of the site and is estimated to be 181 feet higher in elevation than the Site. The records for the CPW located near the Atlantic D Com D# 5 and Atlantic D Com O#16 well locations indicate a depth to water of 170 feet bgs. This CPW is approximately 1.1 miles southeast of the site and is estimated to be 179 feet higher in elevation than the Site. The depth to water for the remaining CPWs ranges from 30 feet bgs to 220 feet bgs.
- The Site is not located within 300 feet of a NM EMNRD OCD-defined continuously flowing watercourse or significant watercourse. The Site is located approximately 360 feet south of an ephemeral wash (**Figure C**, **Appendix B**).
- The Site is not located within 200 feet of a lakebed, sinkhole, or playa lake.
- The Site is located within 300 feet of a permanent residence, school, hospital, institution, or church.
   Two permanent residences were identified. One residence is located approximately 280 feet to the northwest and the other (which is not visible on Figure D) is located approximately 160 feet north of the Site (Figure D, Appendix B).



- Based on information provided by the OSE WRRS there is a private domestic fresh water well used
  by less than five households for domestic or stock watering purposes identified within 500 feet of
  the Site. The nearest well/POD (SJ-03230) is indicated by the OSE WRRS database at
  approximately 500 northwest of the Site (Figure E, Appendix B).
- Based on information provided by the OSE WRRS there is a fresh water well identified within 1,000 feet of the Site. Some residences located within the 1,000 feet may also have unregistered water wells (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 Statues 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 located 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 located within an area overlying a subsurface mine (Figure G, Appendix B).
- The Site is not located within an unstable area.
- Based on information provided by the Federal Emergency Management Agency (FEMA) National Flood Hazard Layer (NFHL) geospatial database the location of the Site is unlikely to be located within a 100-year floodplain (Figure H, Appendix B).

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

Tier I Closure Criteria for Soils Impacted by a Release									
Constituent <sup>1</sup>	Method	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>&</sup>lt;sup>1</sup> – Constituent concentrations are in milligrams per kilograms (mg/kg).

# 3.0 SOIL REMEDIATION ACTIVITIES

On August 20, 2021, Enterprise initiated activities to repair the pipeline and remediate petroleum hydrocarbon impact resulting from the release. During the remediation and corrective action activities, Halo Services Inc., provided heavy equipment and labor support, while Ensolum provided environmental consulting support.

The first excavation (Excavation A) is located approximately 50 feet west of the second excavation (Excavation B). Excavation A (**Figure 3A**, **Appendix A**) measured approximately 25 feet long and 23 feet wide at the maximum extents. The maximum depth of Excavation A measured approximately 16 feet bgs. Excavation B (**Figure 3B**, **Appendix A**) measured approximately 20 feet long and 10 feet wide at the maximum extents. The maximum depth of Excavation B measured approximately 15 feet bgs. The lithology

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

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



encountered during the completion of remediation activities consisted primarily of unconsolidated silty sand and sandy silt.

Approximately 450 cubic yards of petroleum hydrocarbon affected soil and approximately 55 barrels (bbls) of hydro-excavation soil cuttings and water were transported to the Envirotech, Inc., (Envirotech) landfarm near Hilltop, NM for disposal/remediation. The executed C-138 solid waste acceptance form, provided in **Appendix C**, includes the combined total from this Site and the nearby Atlantic B LS #22 (9/1/21) site. Unaffected soils resulting from additional excavation to expose more pipeline for wrapping or replacement was also inadvertently transported to the landfarm. The two excavations were backfilled with imported fill and fill provided by the landowner and were subsequently contoured and compacted to provide a suitable driving surface.

**Figure 3A** and **Figure 3B** are maps that identify approximate soil sample locations and depict the approximate dimensions of the excavations with respect to the pipeline (**Appendix A**). Photographic documentation of the field activities is included in **Appendix D**.

## 4.0 SOIL SAMPLING PROGRAM

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

Ensolum's soil sampling program included the collection of 18 composite soil samples (S-1 through S-18) from the excavation for laboratory analysis. The composite samples were comprised of five aliquots each and represent an estimated 200 square foot (ft²) sample area per guidelines outlined in Section D of 19.15.29.12 NMAC. A clean shovel or the excavator bucket was utilized to obtain fresh aliquots from each area of the excavation. Regulatory correspondence is provided in **Appendix E**.

#### **Excavation A First Sampling Event**

On August 26, 2021, the first sampling event was performed at the Site. The NM EMNRD OCD was notified of the sampling event although no representative was present during the sampling activities. Composite soil samples S-1 (0'-8'), S-2 (0'-16'), S-3 (0'-16'), S-4 (0-16'), S-5 (0'-16'), S-6 (0'-16'), and S-9 (8'-16') were collected from vertical or near vertical walls of the excavation. Composite soil samples S-7 (0'-16') and S-8 (0'-8') were collected from the sloped end-wall on the western side of the excavation. Composite soil samples S-10 (16') and S-11 (16') were collected from the floors of the excavation.

#### **Excavation B First Sampling Event**

On August 28, 2021, 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 samples S-12 (0'-15'), S-13 (0'-10'), S-14 (0' to 10'), S-15 (0'-10'), S-16 (0'-15'), and S-17 (0'-15') were collected from vertical or near vertical walls of the excavation. Composite soil sample S-18 (10'-15') was collected from the sloped floor of the excavation.

## 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 DATA EVALUATION

Ensolum compared the BTEX, TPH, and chloride laboratory analytical results associated with the composite soil samples (S-1 through S-18) to the applicable NM EMNRD OCD closure criteria. In the event that the laboratory did not quantify a result for BTEX or chloride, Ensolum compared the laboratory supplied PQLs/RLs to the New Mexico EMNRD OCD closure criteria. Due to the high PQLs/RLs associated with the TPH MRO ranges when using EPA SW-846 Method #8015, Ensolum only compared the quantified results to the New Mexico EMNRD OCD closure criteria.

- The laboratory analytical results for the composite soil samples indicate benzene is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the applicable NM EMNRD OCD closure criteria of 10 mg/kg.
- The laboratory analytical results for composite soil samples S-3, S-16, andS-18 indicate total BTEX concentrations ranging from 0.096 mg/kg (S-3) to 5.2 mg/kg (S-18), which are less than the applicable NM EMNRD OCD closure criteria of 50 mg/kg. The laboratory analytical results for the remaining composite soil samples indicate total BTEX is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the applicable NM EMNRD OCD closure criteria of 50 mg/kg.
- The laboratory analytical results for composite soil samples S-16 and S-18 indicate combined TPH GRO/DRO/MRO concentrations of 36 mg/kg and 95 mg/kg, respectively, which are less than the applicable NM EMNRD OCD closure criteria of 100 mg/kg. The laboratory analytical results for the remaining composite soil samples indicate combined TPH GRO/DRO/MRO is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the applicable NM EMNRD OCD closure criteria of 100 mg/kg.
- The laboratory analytical results for composite soil samples indicate chloride is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the applicable NM EMNRD OCD closure criteria of 600 mg/kg.

The laboratory analytical results are summarized in **Table 1** (**Appendix F**).

## 7.0 RECLAMATION AND REVEGETATION

The two excavations were backfilled with clean imported fill and fill provided by the landowner. The majority of the excavation areas were located in the road and were backfilled and compacted to provide a suitable driving surface.

#### 8.0 FINDINGS AND RECOMMENDATION

- Eighteen composite soil samples were collected from the Site. Based on laboratory analytical results, no benzene, BTEX, chloride, or combined TPH GRO/DRO/MRO exceedances were identified in the soils remaining at the Site.
- Approximately 450 cubic yards of petroleum hydrocarbon affected soil and approximately 55 bbls
  of hydro-excavation soil cuttings and water were transported to the Envirotech landfarm for
  disposal/remediation. The excavation was backfilled and compacted to provide a suitable driving
  surface.

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



## 9.0 STANDARDS OF CARE, LIMITATIONS, AND RELIANCE

## 9.1 Standard of Care

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

#### 9.2 Limitations

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

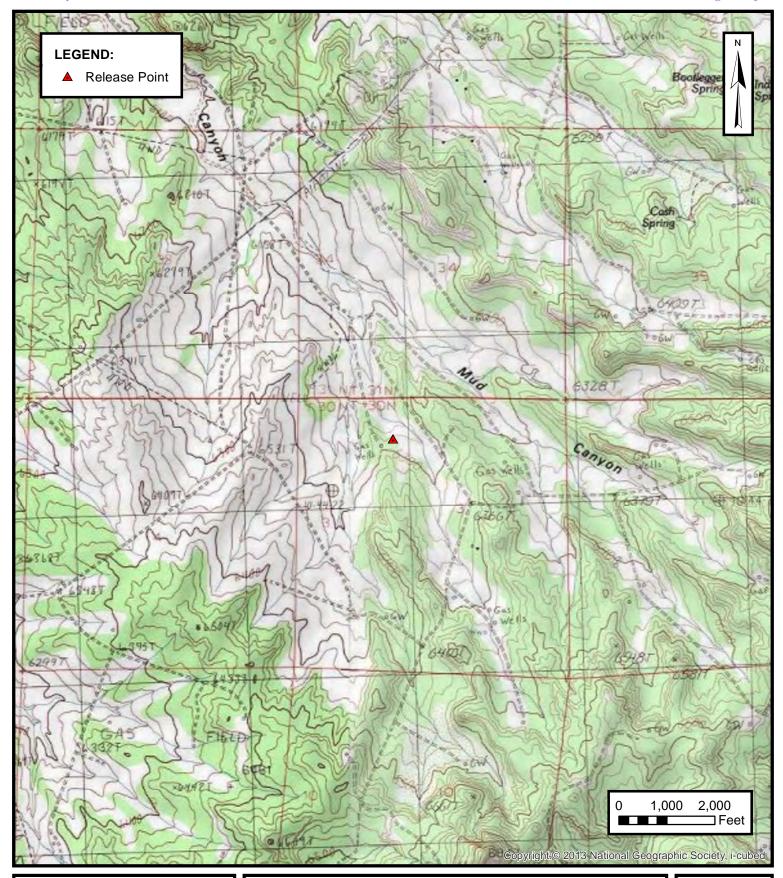
#### 9.3 Reliance

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



**APPENDIX A** 

Figures





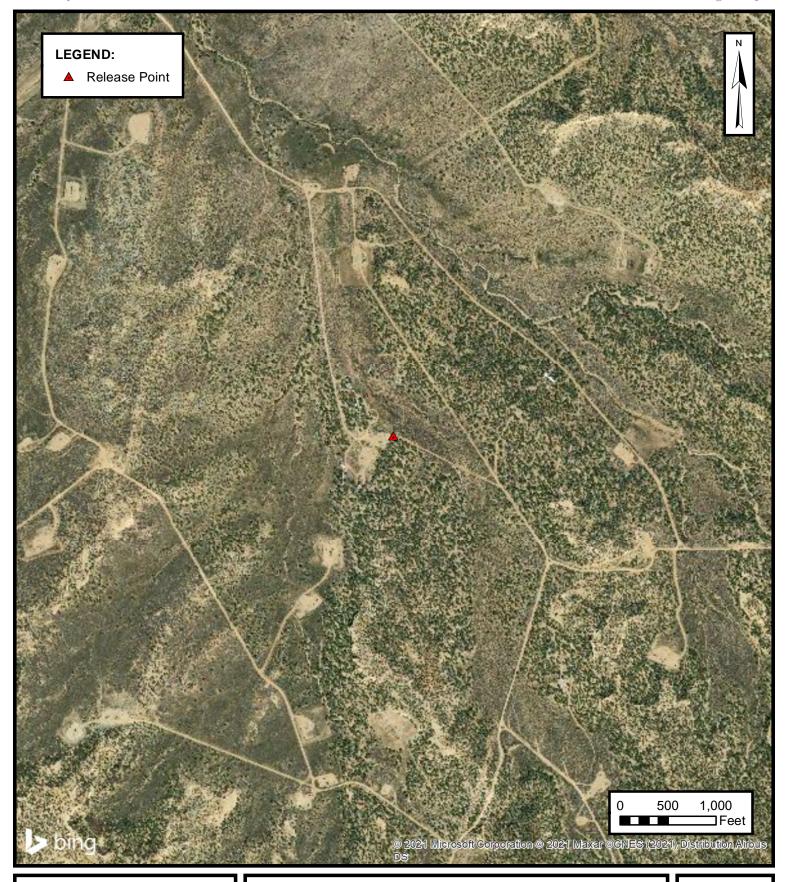
# **TOPOGRAPHIC MAP**

ENTERPRISE FIELD SERVICES, LLC ATLANTIC BLS #22 (8/16/21) Unit Letter C, S3 T30N R10W, San Juan County, New Mexico 36.845777° N, 107.872627° W

PROJECT NUMBER: 05A1226151

**FIGURE** 

1





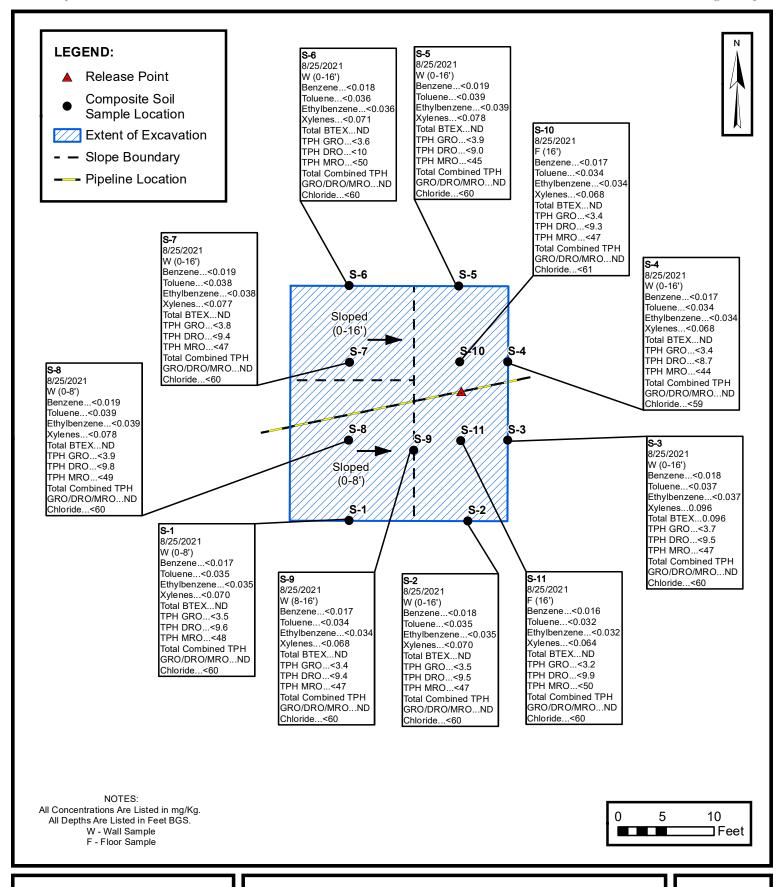
# SITE VICINITY MAP

ENTERPRISE FIELD SERVICES, LLC ATLANTIC BLS #22 (8/16/21) Unit Letter C, S3 T30N R10W, San Juan County, New Mexico 36.845777° N, 107.872627° W

PROJECT NUMBER: 05A1226151

**FIGURE** 

2





# SITE MAP WITH SOIL ANALYTICAL RESULTS (EXCAVATION A)

ENTERPRISE FIELD SERVICES, LLC ATLANTIC BLS #22 (8/16/2021)

Unit Letter C, S3 T30N R10W, San Juan County, New Mexico 36.845777° N, 107.872627° W

PROJECT NUMBER: 05A1226126

FIGURE 3A

#### LEGEND: Release Point Composite Soil Sample Location **Extent of Excavation** Pipeline Location S-16 S-17 8/27/2021 8/27/2021 8/27/2021 W (0-15') W (0-15') W (0-10') Benzene...<0.081 Benzené...<0.090 Benzene...<0.020 Toluene...<0.16 Toluene...<0.18 Toluene...<0.039 Ethylbenzene...<0.16 Ethylbenzene...<0.18 Ethylbenzene...<0.039 Xylenes...<0.36 Xvlenes...1.1 Xylenes...<0.079 Total BTEX...ND Total BTEX...1.1 Total BTEX...ND TPH GRO...27 TPH GRO...<18 TPH GRO...<3.9 TPH DRO...9.2 TPH DRO...<9.9 TPH DRO...<9.7 S-14 TPH MRO...<44 TPH MRO...<49 TPH MRO...<49 8/27/2021 Total Combined TPH Total Combined TPH Total Combined TPH GRO/DRO/MRO...36 W (0-10') GRO/DRO/MRO...ND GRO/DRO/MRO...ND Benzené...<0.017 Chloride...<60 Chloride...<60 Chloride...<60 Toluene...<0.033 Ethylbenzene...<0.033 S-15 S-16 Xylenes...<0.067 Total BTEX...ND TPH GRO...<3.3 TPH DRO...<9.5 TPH MRO...<47 Total Combined TPH GRO/DRO/MRO...ND (10'-15') Chloride...<60 S-1,8 S-1.7 S-18 8/27/2021 F (10-15') S-13 S-12 Benzene...<0.084 Toluene...0.23 Ethylbenzene...0.34 Xylenes...4.6 Total BTEX...5.2 S-13 S-12 TPH GRO...78 8/27/2021 8/27/2021 TPH DRO...17 W (0-10') W (0-15') TPH MRO...<45 Benzene...<0.019 Benzene...<0.021 Total Combined TPH Toluene...<0.039 Toluene...<0.042 GRO/DRO/MRO...95 Ethylbenzene...<0.039 Ethylbenzene...<0.042 Chloride...<60 Xylenes...<0.077 Xylenes...<0.083 Total BTEX...ND Total BTEX...ND TPH GRO...<3.9 TPH GRO...<4.2 TPH DRO...<9.5 TPH DRO...<9.6 TPH MRO...<47 TPH MRO...<48 Total Combined TPH Total Combined TPH GRO/DRO/MRO...ND GRO/DRO/MRO...ND Chloride...<60 Chloride...<60 NOTES: All Concentrations Are Listed in mg/Kg. 2.5 5 All Depths Are Listed in Feet BGS. Feet W - Wall Sample F - Floor Sample



# SITE MAP WITH SOIL ANALYTICAL RESULTS (EXCAVATION B)

ENTERPRISE FIELD SERVICES, LLC
ATLANTIC BLS #22 (8/16/21)
Unit Letter C, S3 T30N R10W, San Juan County, New Mexico
36.845777° N, 107.872627° W

PROJECT NUMBER: 05A1226126

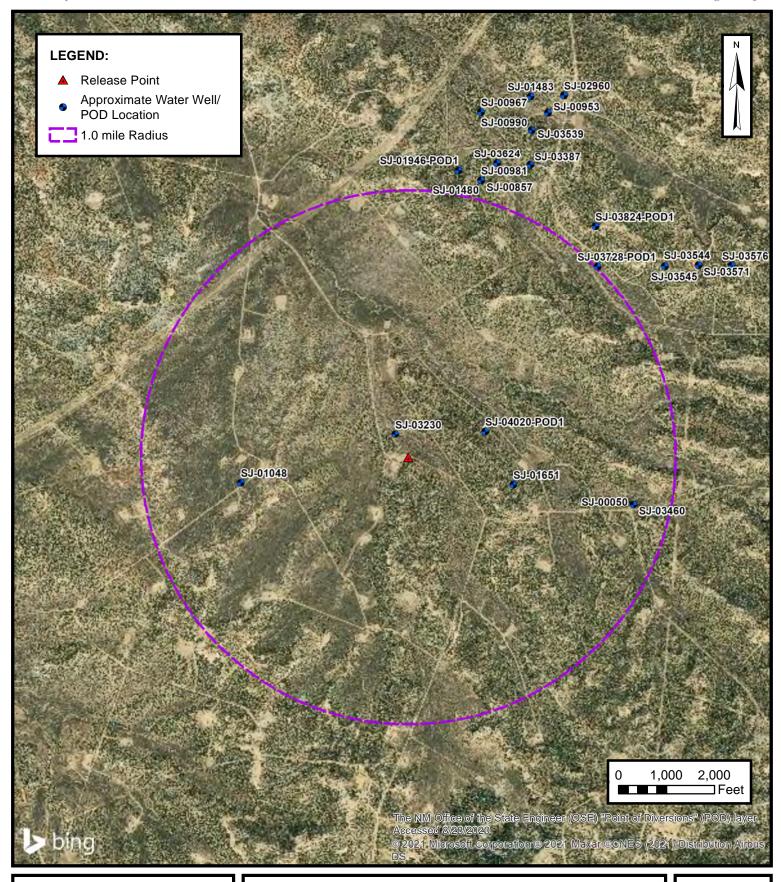
3B

**FIGURE** 



**APPENDIX B** 

Siting Figures and Documentation





# 1.0 MILE RADIUS WATER WELL/ POD LOCATION MAP

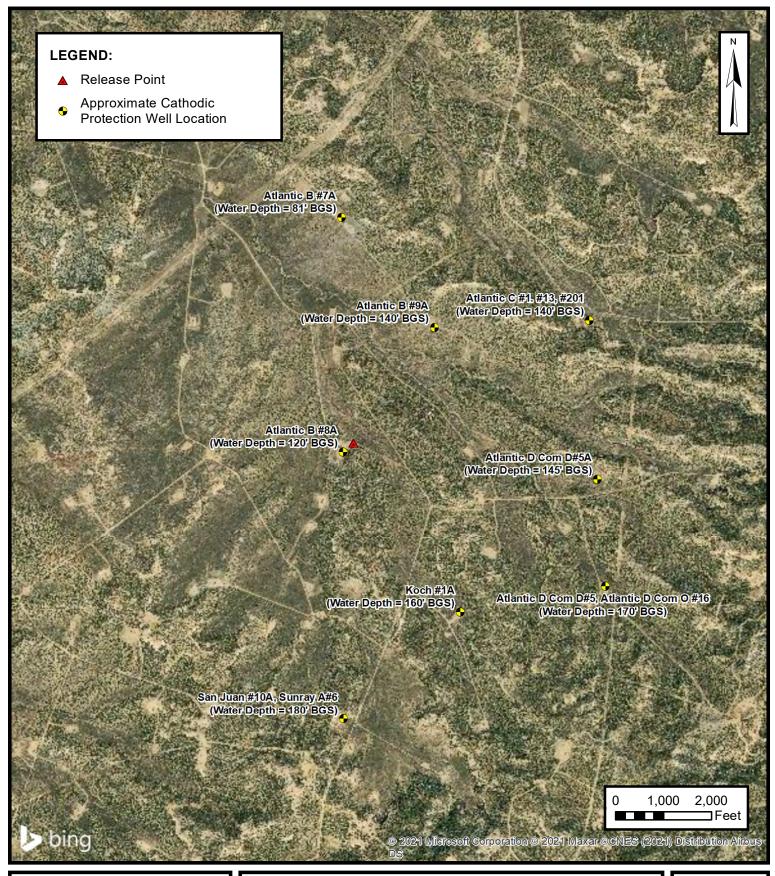
ENTERPRISE FIELD SERVICES, LLC
ATLANTIC BLS #22 (8/16/21)
Unit Letter C, S3 T30N R10W, San Juan County, New Mexico

Unit Letter C, S3 T30N R10W, San Juan County, New Mexic 36.845777° N, 107.872627° W

PROJECT NUMBER: 05A1226126

FIGURE

A





# **CATHODIC PROTECTION WELL RECORDED**

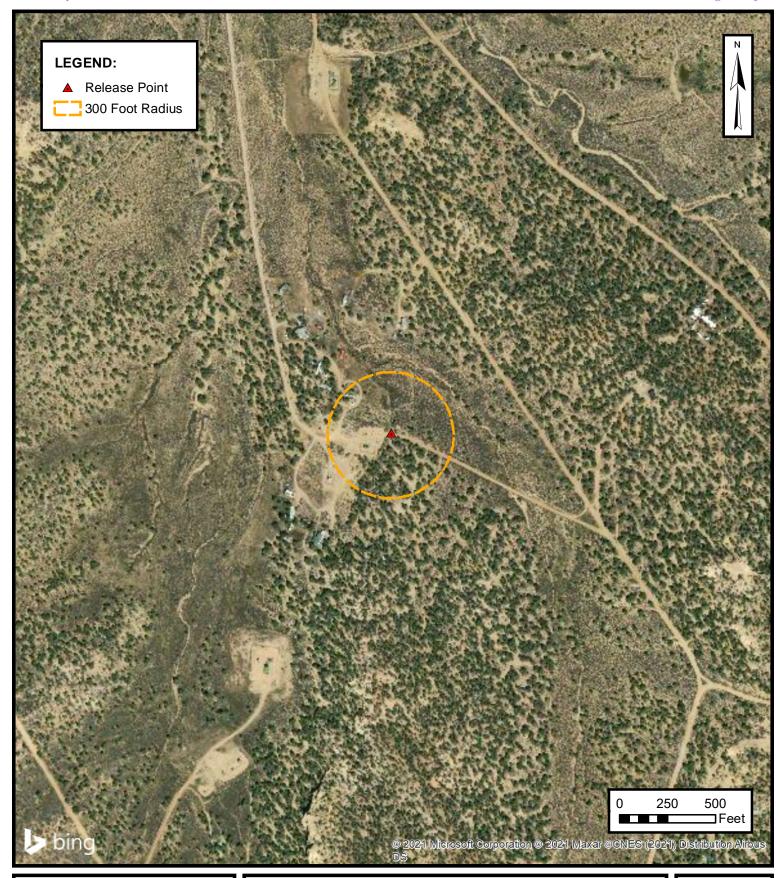
ENTERPRISE FIELD SERVICES, LLC ATLANTIC BLS #22 (8/16/21)

Unit Letter C, S3 T30N R10W, San Juan County, New Mexico 36.845777° N, 107.872627° W

PROJECT NUMBER: 05A1226126

**FIGURE** 

B





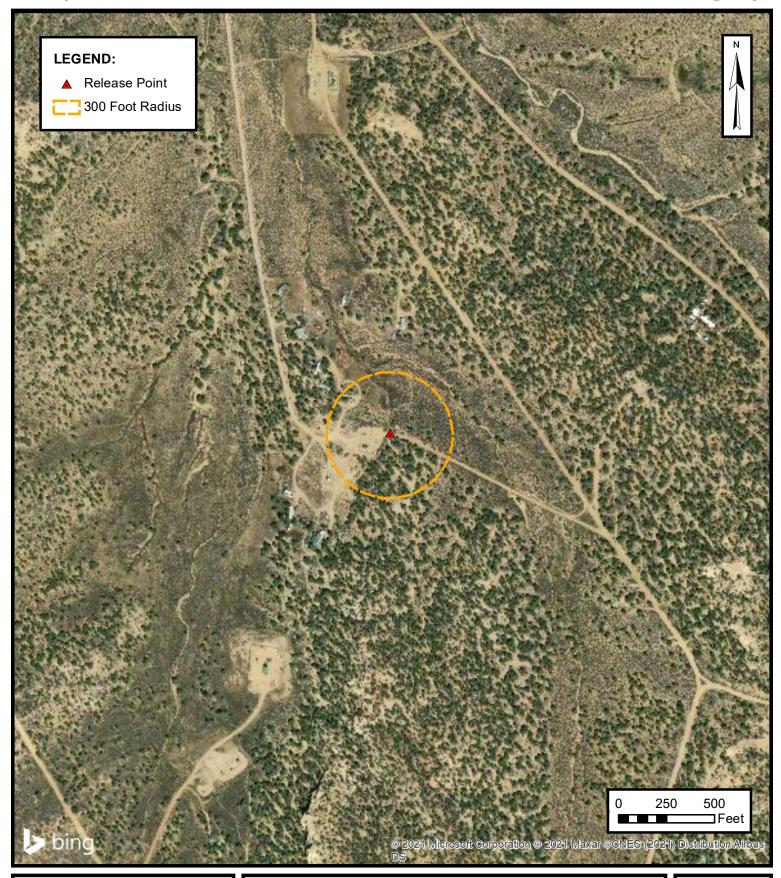
# 300 FOOT RADIUS WATERCOURSE AND DRAINAGE IDENTIFICATION

ENTERPRISE FIELD SERVICES, LLC ATLANTIC BLS #22 (8/16/21) Unit Letter C, S3 T30N R10W, San Juan County, New MexicoÁ 36.845777° N, 107.872627° W

PROJECT NUMBER: 05A1226126

**FIGURE** 

C





# 300 FOOT RADIUS OCCUPIED STRUCTURE IDENTIFICATION

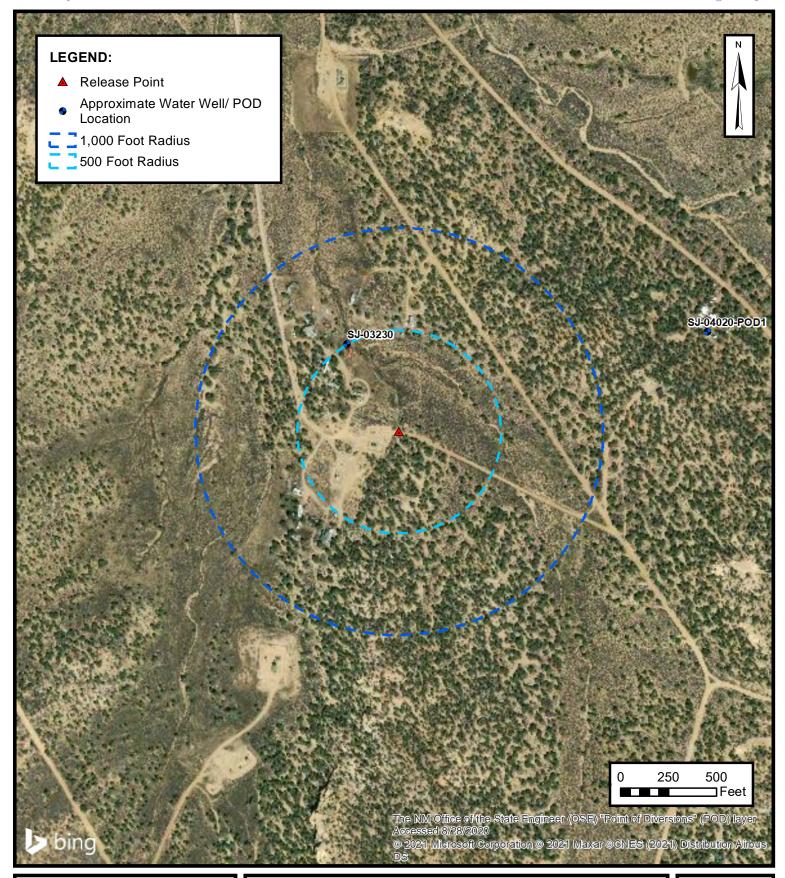
ENTERPRISE FIELD SERVICES, LLC ATLANTIC BLS #22 (8/16/21)

Unit Letter C, S3 T30N R10W, San Juan County, New MexicoÁ 36.845777° N, 107.872627° W

PROJECT NUMBER: 05A1226126

**FIGURE** 

D





# WATER WELL AND NATURAL SPRING LOCATION

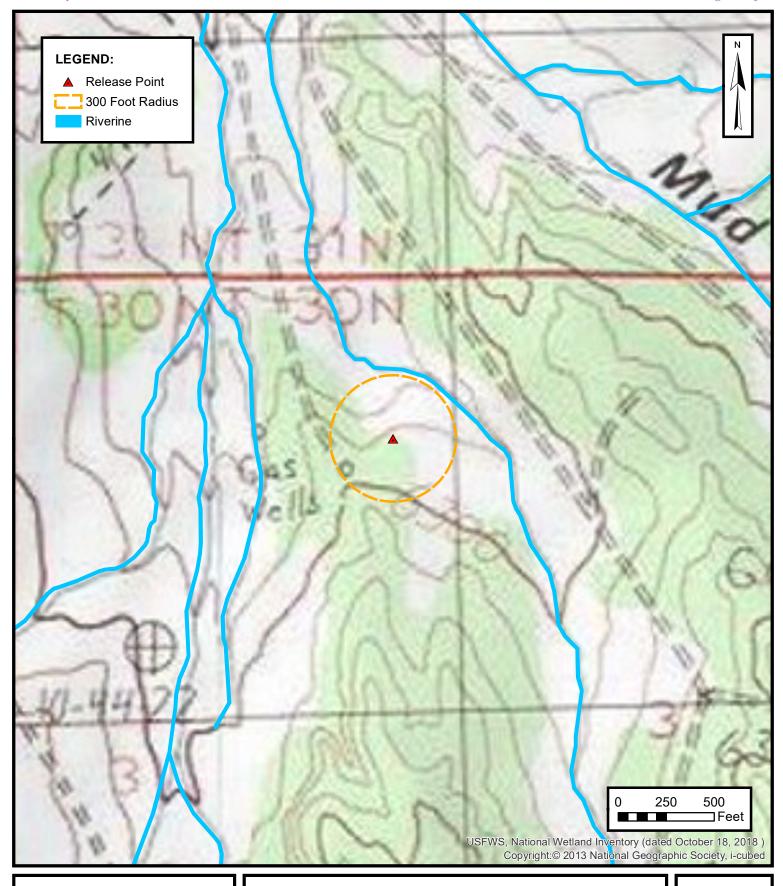
ENTERPRISE FIELD SERVICES, LLC
ATLANTIC BLS #22 (8/16/21)
Unit Letter C, S3 T30N R10W, San Juan County, New MexicoÁ

36.845777° N, 107.872627° W

PROJECT NUMBER: 05A1226126

**FIGURE** 

E





# **WETLANDS**

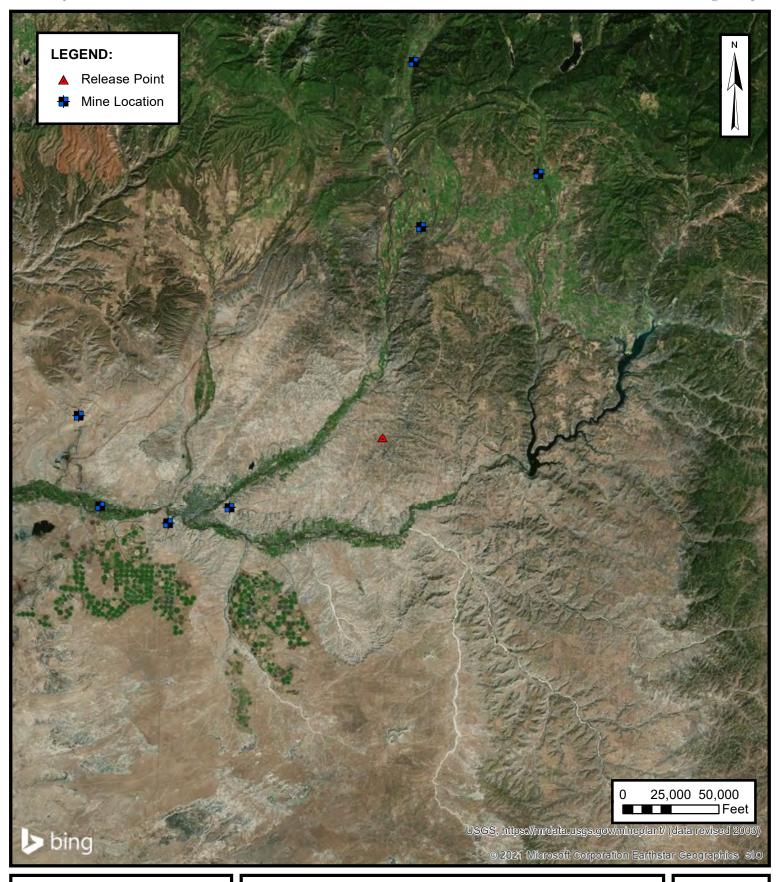
ENTERPRISE FIELD SERVICES, LLC ATLANTIC BLS #22 (8/16/21) Unit Letter C, S3 T30N R10W, San Juan County, New MexicoÁ 36.845777° N, 107.872627° W

PROJECT NUMBER: 05A1226126

FIGURE

F

Released to Imaging: 2/23/2022 9:54:54 AM





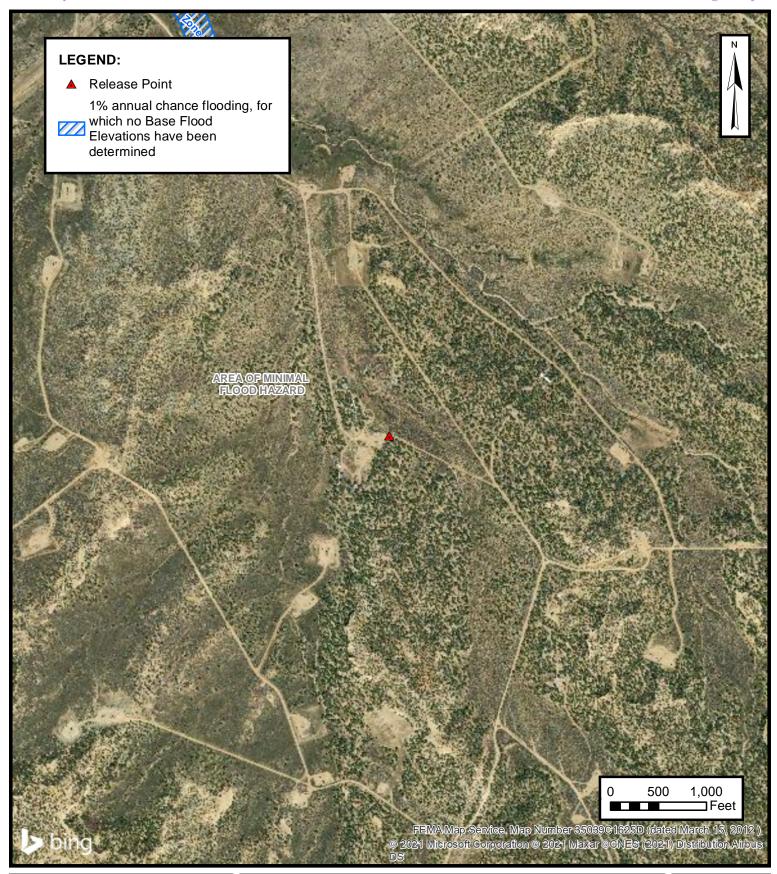
# MINES, MILLS AND QUARRIES

ENTERPRISE FIELD SERVICES, LLC
ATLANTIC BLS #22 (8/16/21)
Unit Letter C, S3 T30N R10W, San Juan County, New MexicoÁ
36.845777° N, 107.872627° W

PROJECT NUMBER: 05A1226126

**FIGURE** 

G





#### **100-YEAR FLOOD PLAIN MAP**

ENTERPRISE FIELD SERVICES, LLC ATLANTIC BLS #22 (8/16/21) Unit Letter C, S3 T30N R10W, San Juan County, New MexicoÁ 36.845777° N, 107.872627° W

PROJECT NUMBER: 05A1226126

**FIGURE** 

Н



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

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

C=the file is closed)

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

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

(In feet)

	POD											
	Sub-		Q	QQ	!					Depth	Depth	Water
POD Number	Code basin	County	64	16 4	Sec	Tws	Rng	Х	Υ	Well	Water	Column
SJ 00050	SJ	SJ	2 :	3 1	02	30N	10W	245187	4081290* 🌍	520	306	214
SJ 03230	SJ	SJ	1 :	2 1	03	30N	10W	243782	4081752* 🌍	120	70	50
SJ 03460	SJ	SJ	2	3 1	02	30N	10W	245187	4081290* 🌍	520	500	20
SJ 04020 POD1	SJ	SJ		1 2	03	30N	10W	244319	4081753 🌍	325		

Average Depth to Water: 292 feet

Minimum Depth: 70 feet

Maximum Depth: 500 feet

**Record Count: 4** 

PLSS Search:

Section(s): 3, 2, 4, 9, 10, 11 Township: 30N Range: 10W

\*UTM location was derived from PLSS - see Help

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

8/18/21 7:51 AM

(In feet)



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

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

closed)

C=the file is (quarters are 1=NW 2=NE 3=SW 4=SE)

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

	POD												
POD Number	Sub- Code basin (	County		Q 16	-	Sec	Tws	Rng	×	X Y		Depth Water	Water Column
SJ 00981	SJ	SJ					31N		244338	4083246* 🎒	164	118	46
SJ 01480	SJ	SJ		1	2	34	31N	10W	244338	4083246* 🌕	245	125	120
SJ 01946 POD1	SJ	SJ		1	2	34	31N	10W	244207	4083309 🌍	187		
SJ 03387	SJ	SJ	1	2	2	34	31N	10W	244634	4083331* 🎒	250	200	50
SJ 03544	SJ	SJ	4	4	1	35	31N	10W	245616	4082705* 🎒	325	220	105
SJ 03545	SJ	SJ	3	4	1	35	31N	10W	245416	4082705* 🌍	455	317	138
SJ 03554	SJ	SJ	1	2	4	35	31N	10W	246198	4082488* 🎒	454	317	137
SJ 03570	SJ	SJ	4	4	2	35	31N	10W	246399	4082687* 🎒	250		
SJ 03571	SJ	SJ	4	4	1	35	31N	10W	245616	4082705* 🎒	250		
SJ 03576	SJ	SJ	3	3	2	35	31N	10W	245814	4082696* 🎒	450	137	313
SJ 03624	SJ	SJ	2	1	2	34	31N	10W	244437	4083345* 🎒	165	65	100
SJ 03728 POD1	SJ	SJ	3	3	1	35	31N	10W	245017	4082714* 🎒	365	230	135
SJ 03824 POD1	SJ	SJ	1	3	1	35	31N	10W	245011	4082953 🌕	385	245	140

Average Depth to Water: 197 feet

Minimum Depth: 65 feet

Maximum Depth: 317 feet

Record Count: 13

**PLSS Search:** 

Section(s): 33, 34, 35 Township: 31N Range: 10W

\*UTM location was derived from PLSS - see Help

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

# READ INSTRUCTIONS ON BACK

Revised March 1979

# APPLICATION TO APPROPRIATE UNDERGROUND WATERS IN ACCORDANCE WITH SECTION 72-12-1 NEW MEXICO STATUTES

1.	Name and Address of Applicant:	ار پات موجع وارگ	alberi Mia	i diree Co, H. M.	ß	File No.	_SJ-1	651
	CARL L. Forst							
	Box 187	L 1108	. 43	II HA	บ9			
	Aztec N.M. F7410							
2.	Describe well location under one of the following sub		~					
	2. 4 NE 40f Sec. San July. County.	3	7	г <sub>wp.</sub> <u>Зо</u>	N	Rge. / ()	ω_	N.M.P.M., in
	b.Tract Noof Map Noof the	:						
	c.Lot No. 2 A of Block No. of the Subdivision, recorded in San Jean			Count	··-			
	d. X =feet, Y =							Zone
	in the							Grant.
	e. Give street address or route and box No. of prope distance from known landmarks 31/2 Miles E La Read The wheel to be	rty upo quita,	on whi	ch well is	to be	located, 01	location	by direction and
3.	Approximate depth (if known) Free 100 To 150							inches.
	Name of driller (if known)					<del></del>		
4.	Use of water (check appropriate box or boxes):							
	One household, non-commercial trees, lawn and	garder	not to	exceed 1	acre.			
	☑ Livestock watering.							
	☐ More than one household, non-commercial trees	, lawns	and ga	udens not	to exc	ed a total	of 1 acre.	
	<ul> <li>Drinking and sanitary purposes and the irrigation</li> <li>a commercial operation.</li> </ul>	n of n	on-con	nmercial tr	rees, sh	nrubs and	ławns in o	conjunction with
	☐ Prospecting, mining or drilling operations to disc	ovet or	develo	op natural	resour	ces.		
	Construction of public works, highways and road							
	If any of the last four were marked, give name an	d natui	re of bu	isiness und	der Rei	marks. (Ite	m 5)	
5.	Remarks:							<del></del>
			<u>-</u> .					<del></del>
						<del></del>		
	I, For t affirm and belief and that development shall not commence	that th until a	e foreg pprova	oing state: I of the pe	ments rmit h	are true to as been ob	the best o	of my knowledge
	Carl L Fourt, Applicar	ıt						
	Ву:			Date	e:	10/2	.2/5-	2
		<del></del>					======	
<b>T</b> *L	ACTION OF				,	•	·c ,	
	is application is approved for the use indicated, subjec 4 on the reverse liled or driven and the well record filed on or before.	side he	reof. T	his permit	willa	utomatical	lly expire	itions numbered unless this well is
S.E	Reynolds State Engineer			•				
	By: E.C. Barry, Water Resource Date: 11/29/82	Spec	. I,	Water	Ri	ghts D	ivisio	on 
	Date: 11/29/82					File No	_SJ-1€	))T

## **G. NERAL CONDITIONS OF APPROVAL**

- A. The maximum amount of water that may be appropriated under this permit is 3 acre feet in any calendar year.
- The well shall be drilled only by a driller licensed in the State of New Mexico in accordance with Section 72-12-12 New Mexico Statutes Annotated. A licensed driller shall not be required for the construction of a driven well; provided, that the casing shall not exceed two and three-eighths (2 3/8) inches outside diameter (Section 72-12-12).
- C. Driller's log must be filed with the State Engineer within 10 days after the well is drilled or driven. Failure to file the log within that time shall result in automatic cancellation of the permit. Log forms will be provided by the State Engineer upon request.
- D. The casing shall not exceed 7 inches outside diameter except under specific conditions in which reasons satisfactory to the State Engineer are shown.
- E. If the well under this permit is used at any time to serve more than one household, livestock in a commercial feed lot operation, or any other commercial purpose, the permittee shall comply with Specific Condition of Approval number 5(b).
- F. In the event this well is combined with other wells permitted under Section 72-12-1 New Mexico Statutes Annotated, the total outdoor use shall not exceed the irrigation of one acre of non-commercial trees, lawn, and garden, or the equivalent outside consumptive use, and the total appropriation for household and outdoor use from the entire water distribution system shall not exceed 3 acre feet per annum.

# SPECIFIC CONDITIONS OF APPROVAL

(Applicable only when so indicated on the other side of this form.)

- 1. Depth of the well shall not exceed the thickness of the (a) the valley fill or (b) Ogallala formation.
- 2. The well shall be constructed to artesian well specifications and the State Engineer shall be notified before casing is landed or cemented.
- 3. Appropriation and use of water under this permit shall not exceed a period of one year from the date of approval.
- 4. Use shall be limited to household, non-commercial trees, lawn and garden not to exceed one acre and/or stock use.
- 5. A totalizing meter shall be installed before the first branch of the discharge line from the well and the installation shall be acceptable to the State Engineer; the Engineer shall be advised of the make, model, serial number, date of installation, and initial reading of the meter prior to appropriation of water and pumping records shall be submitted to the District Supervisor; (a) for each calendar month, on or before the 30th day of the following month (b) on or before the 10th of January, April, July and October of each year for the three preceding calendar months (c) for each calendar year on or before the 30th day of January of the following year.
- 6. The well shall be plugged upon completion of the permitted use and a plugging report shall be filed with the State Engineer within 10 days.
- 7. Final approval for the use of the well shall be dependent upon a leakage test made by the State Engineer.
- 8. Use shall be limited strictly to household and/or drinking and sanitary purposes; water shall be conveyed from the well to the place of use in closed conduit and the effluent returned to the underground so that it will not appear on the surface. No irrigation of lawns, gardens, trees or use in any type of pool or pond is authorized under this permit.

# **INSTRUCTIONS**

The application shall be made in the name of the actual user of the well for the purpose specified in the application.

The application shall be executed in triplicate and forwarded with a \$1.00 filing fee to the State Engineer. A separate application must be filed for each well to be drilled or used.

If well to be used is an existing well, an explanation (and file number, if possible) should be given under Remarks. (Item 5.)

Applications for appropriation, well logs and request for information in the following basins should be addressed to the State Engineer at the location indicated:

Bluewater, Estancia, Rio Grande, Sandia and San Juan Basins

District No. 1, 2340 Menaul NE, Room 206, Albuquerque, New Mexico 87107

Capitan, Carlsbad, Fort Sumner, Hondo, Jal, Lea, Penasco, Portales, Roswell, and Upper Pecos Basins

District No. 2, Box 1717, Roswell, New Mexico 88201

Animas, Gila-San Francisco, Hot Springs, Las Animas Creek, Lordsburg, Mimbres,

Nutt-Hockett, Playas, San Simon, and Virden Valley Basins

District No. 3, Box 844, Deming, New Mexico 88030

Canadian River Basin

State Engineer, State Capitol, Bataan Memorial Bldg., Santa Fe, New Mexico 87503

# STATE ENGINEER OFFICE

# WELL RECORD

# Section 1. GENERAL INFORMATION

(A)	Street or	Post Office Ad	dress 182 L	<u> </u>				Owne	r's Well N	lo. SJ-	3230		
			c, N.M. 8										
Well			No. SJ-3							_			
	a. <u>NW</u>	½ <u>NE</u> ½	<u>NW</u> ¼	¼ of Se	ction	3T	ownship	30N Rar	nge1 (	)W	N.M.P.M.		
	b. Tract l	No	of Map No		of	the							
	c. Lot No Subdiv	ovision, recorded	of Block No I inSAN	JAUN	of	the Coun	y.						
								ystem					
(B)	Drilling C	ontractor	Bill Har	gis Sr.				_ License No	WD-150	8			
Addr	ess16	CR 3523	Flora V	ista N.	M. 874	10							
Drilli	ng Began .	7-6-200	)2Compl	eted <u>7-1</u>	0-2002	Ту	pe tools <u>C</u>	able Tool	Size	of hole_	6in.		
Eleva	ition of lan	nd surface or _			at	well is_	·····	_ ft. Total depth	of well_	120	ft.		
	pleted well		nallow 🗀 ar					upon completion					
Com	pieted wen	113		on 2. PRIN					or work		111		
	Depth	in Feet	Thickness			·	r-Bearing F		1	stimated	1		
	From	To	in Feet						(gall	lons per i	minute)		
	88	105	17	Col				nd,small gravel		_			
								· .					
				Section	n 3. RECO	RD OF	CASING						
1	iameter inches)	Pounds per foot	Threads		in Feet		Length (feet)	Type of Sho	se		Perforations		
	4 1/2		per in.	<u>Тор</u> О	Botton 120	1	20			From 70	120		
	7	20		0	10		Surface	casing		**************************************			
	······································				10		Julluco	Cubing		· <u></u>			
<u> </u>	Depth	in Feet	Section Hole	n 4. RECO Sac		DDING Cubic							
	From	То	Diameter	of M	- 1	of Ce			od of Pla				
	0	120						Clear Wat	e A Z	L 20			
									ZTEO				
										9	1		
<u></u>	· · · · · · · · · · · · · · · · · · ·	<u> </u>			l					<b>9</b>			
Dt	-: 0 - 1	.4			on 5. PLUG				CEXIO	<b>=</b> /			
							_	Depth in			abic Feet		
							- No.	Тор	Botton		f Cement		
	ging appro	-					2						
			State Engi	neer Repres	entative		- 3						
-				FOR USE	OF STATI	E ENGII	NEER ONL						
Date	Received	7-19-0	2002		0	uad		FWL _		FSI			
r	ile No	SJ-3	230					Location No.					

Section 6 LOG OF HOLL Thickness Depth in Feet Color and Type of Material Encountered in Feet From Yellow Sandstone 20 20 0 Fine Gray Sandstone 50 30 20 Fine Hard Pan Sandstone 10 50 60 Blue + Gray Sandstone \* Clay 28 60 88 Course Blue Water Sand + Small Gravel 17 105 88 15 Sandy Shale , Blue 120 105

Section 7. REMARKS AND ADDITIONAL INFORMATION

Gravel Pack From () to 120' 1/2 in. round gravel Cement Surface 0 to 10'

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1 ( d Section 5 need be completed.

POD NUMBER (WELL NUMBER)



STATE ENGINEER OFFICE AZTEC, NEW MEXICO

2012 AUG 16 AM 11: 01

OSE FILE NUMBER(S)

NOI							SI	4020	POI	<b>)</b>	
LOCATION	WELL OWNE		-				PHONE (OPT	•			
3	James A.						432-464-	0002	070.4		
GENERAL AND WELL	1207 La F						Andrews		STATE Texas	79	ZIP 9714
AND	WELL			DEGREES		SECONDS			-		<u> </u>
ZAL.	LOCATION (FROM GPS		ATITUDE	36	50	49.70 N		/ REQUIRED: ONE TE QUIRED: WGS 84	NTH OF A SE	COND	
ENE		LC	ONGITUDE	107	52	3.10 W	BATOMIKE	QUIRED. WGS 84			
1. G	1			ON TO STREET ADDRE			iler, next to	the small wel	l house.		
	(2.5 ACRE)	·	(10 ACRE)	(40 ACRE)	(160 ACRE)	SECTION		TOWNSHIP		RANGE	
AL.	<b>14</b>		1/4	NW ¼	NE ¼		3	30	✓ NORTH  SOUTH	10	☐ EAST ✓ WEST
OPTIONAL	SUBDIVISION NAME LOT NUMBER BLOCK NUMBER UN									UNIT/TRA	CT
2.0	HYDROGRAP	HIC SURV	/EY		-			MAP NUMBER		TRACT NI	JMBER
	LICENSE NUN	/BER	NAME OF LICE	ENSED DRILLER				NAME OF WELL D	RILLING COM	IPANY	
	Terry Hood Western Water Wells										
N	325						OLE DEPTH (FT) DEPTH WATER FIRST ENCOUNTERED (FT)				
3. DRILLING INFORMATION	COMPLETED WELL IS: ARTESIAN DRY HOLE SHALLOW (UNCONFINED)							STATIC WATER LE	VEL IN COM	PLETED WE	LL (FT)
VFO	DRILLING FLUID: AIR MUD ADDITIVES - SPECIFY:										
J. O.	DRILLING ME	THOD:	ROTARY	HAMMER	CABLE TOO	L OTHE	R - SPECIFY:				
ILL	DEPTH (		BORE HOL	1	1			NECTION INSIDE DIA. CASINO			SLOT
DR	FROM	ТО	DIA. (IN)	M.	ATERIAL	TYPE	(CASING)	CASING (IN) THICKN		ESS (IN)	SIZE (IN)
۳,	•										
						_					
-	DEPTH (		THICKNES (FT)	s Fo				ATER-BEARING S			YIELD
RATA	FROM	ТО	(11)		(INCLUDE WAT	ER-BEAKING	CAVITIES OF	R FRACTURE ZON	(ES)		(GPM)
	_								******		
RIN											
BEA											
rer		-	<u> </u>								
4. WATER BEARING ST	METHOD USE	D TO EST	IMA FE YIELD OF	WATER-BEARING STRA	TA			TOTAL ESTIMATE	O WELL YIEL	D (GPM)	
	FOR OSE IN		アイアン() T REE	<u> </u>	POD NUI	MBER DA	01	TRN NUMBE		(Version 6/	/9/08)
	LOCATION		3017.	M1.03.5	3/0	FO	νι	1 TATA HOMBE	·* •	PAGE I	OF 2
				<del>v, v <i>v o</i> · ·</del>							

UMP	TYPE OF PUMP: SUBMERSIE			☐ JET ☐ CYLINDER	☐ NO PUMP – WELL NOT EQUIPPED☐ OTHER – SPECIFY:						
<u>   </u>	ANNULAR		DEPTI-	l (FT)	BORE HOLE DIA. (IN)	MATERIAL TYPE AND SIZE  AMOUNT (CUBIC FT)			OD OF EMENT		
	SEAL	AND									
5.8	GRAVE	L PACK									
<u></u>					<u> </u>						
	DEPTH (FT)		THICKNESS		COLOR AND TYPE OF MATERIAL ENCOUNTERED			WATER			
	FROM	то	(F)	Γ)	(INCL	UDE WATER-BEARING CAVITIES OR FRACTI	JRE ZONES)	BEAF	UNG?		
İ						79		☐ YES	□ NO		
								☐ YES	□ NO		
								☐ YES	□ NO		
								☐ YES	□ NO		
3								YES	□ NO		
₩.								☐ YES	□ NO		
ō								☐ YES	□ NO		
0								☐ YES	□NO		
2								☐ YES	□ №		
S								YES	□NO		
GEOLOGIC LOG OF WELL							·	☐ YES	□ NO		
9								☐ YES	□NO		
				<del></del>				☐ YES	□ №		
								☐ YES	□NO		
		_					and the second s	☐ YES	□ NO		
								☐ YES	□NO		
								☐ YES	□ NO		
		!	ATTACH	ADDITION	AL PAGES AS NE	EDED TO FULLY DESCRIBE THE GEOLOGIC	LOG OF THE WELL				
			METHOD:	BAILE	R DUMP	☐ AIR LIFT ☐ OTHER - SPECIFY:					
ONAL INFO	WELL	. TEST				ATA COLLECTED DURING WELL TESTING, AND DRAWDOWN OVER THE TESTING PERIO		ME, END TI	IME,		
A N	ADDITION	JAI STATEN	MENTS OR EXPL	ANATIONS							
	· · · · · · · · · · · · · · · · · · ·										
7. TEST & ADDIT	permit v	was evel	r filed and s	so an afte	r-the-fact well	permit was issued. This Well log is b	eing submitted to	satisfy the	9		
જ	condition	ons of ap	proval.					2			
ESI								2012 AUI	753		
7.7								2			
<u> </u>	I								<del>- 82</del>		
#	THE UN	DERSIGN	ED HEREBY ( D OF THE AB	CERTIFIES T SOVE DESCI	THAT, TO THE BE RIBED HOLE AN	EST OF HIS OR HER KNOWLEDGE AND BELII O THAT HE OR SHE WILL FILE THIS WELL RI	EF, THE FOREGOING IS ECORD WITH THE STA	S A TR <del>U</del> E A ATE E <b>nd</b> INI	ND C		
2						ON OF WELL DRILLING:			多田		
N.	_		()	1//	<i>/</i> .	0/11/2017		5	ÒВ		
8. SIGNATURE		Jan	er U.	XX	ins_	8/16/2012		A	図到		
	(	ノ	SIGNATUR	E OF DRIE	ter owner	DATE	180.00		<u>ිස</u>		
					• · · · · · · · · · · · · · · · · · · ·				,		

FOR OSE INTERN	NAL USE			WELL RECORD & LOG	(Version 6/9/08)
FILE NUMBER	57-4010	POD NUMBER	PODI	TRN NUMBER	
LOCATION	30N.10N.03, 210				PAGE 2 OF 2



# STATE OF NEW MEXICO

# STATE ENGINEER OFFICE SANTA FE

S. E. REYNOLDS STATE ENGINEER

BATAAN MEMORIAL BUILDING STATE CAPITOL SANTA FE, NEW MEXICO 87503

SJ- 1651

November 29, 1982

Mr. Carl L. Foust Box 187 Aztec, New Mexico 87410

Dear Mr. Fous:

Enclosed is your copy of the above-numbered permit which has been approved subject to all the general conditions of the approval stated on the reverse side of the permit and the specific conditions of the approval numbered 4 stated on the reverse side of the permit.

Well may only be drilled by a licensed driller and a well log must be filed within 10 days of completion of the well.

Also enclosed is Receipt No.  $\underline{102317}$  covering the \$1.00 filing fee.

Very truly yours,

S.E. Reynolds State Engineer

E.C. Barry

Water Resources

Spec I

Water Rights Division

dg
enc1.
cc - J.T. Smith

TRN #237725 @

READ INSTRUCTIONS ON BACK

Revised June 1991

# APPLICATION TO APPROPRIATE UNDERGROUND WATERS IN ACCORDANCE WITH SECTION 72-12-1 NEW MEXICO STATUTES

1.	Name and mailing address of applicant:				File No	SJ-3	230		_
	Tonia Goelz								
	182 CR 2772								
	Aztec, NM 87410								
2.	Describe well location under one of the	following	g subheadir	ıgs:					
	a. NW w NE w NW w o	of Sec	3 County.	_ Twp	30N	Rge	10W	NMPH	١,
	b. X = feet, Zone in the	Y =			feet,	New Mexico	Coordina	te Sysi Gran	
3.	Approximate depth (if known)1	501	feet; outsi	de diame	ter of casi	ng <u>7</u>		_ inche	es.
	Name of driller (if known)		Bill	Hargi	S		,	9	
4.	Use of water (check use applied for):								
_	$\underline{X}$ One household, non-commercial trees	, lawn and	d garden no	ot to exc	eed one acr	e.		2,	
_	Livestock watering.								
_	More than one household, non-commerc	cial tree:	s, lawns ar	nd garder	ns not to ex	ceed a tota	al of one	ယ္ <b>စ</b> စ္တဲ့	で 終品
-	Drill and test a well intended to be in conjunction with the building or		_	, drinkir	ng and sanit	ary or sto	ck water p	ourpose	ර s
-	Drinking and sanitary purposes and conjunction with a commercial opera		ation of n	on-comme	cial trees,	shrubs and	d lawns ig	STATE	,02 J
-	Prospecting, mining or drilling ope	rations t	o discover	or deve	lop natural	resources.	,		
-	Construction of public works, highw	ays and r	oads.				[ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]		ယ
	If any of the last three items were mar	ked, give	name and	nature o	f business u	ınder Remari	ks (Item 5	i).	
5.	Remarks:						XICO		 
							r <sub>y</sub>	<del>(10</del>	<u></u>
	Tonia Goelz  crowledge and belief and that development  Temura Streets	, affirm shall no	that the fo	oregoing	statements	are true to	o the best	of my	 d.
	Ву:			Da	ite: Ju	ıly 3, 2	002	· · · · · ·	<del></del>
	ACTIO	N OF S	STATE 1	engin	EER				
cor	s application is approved for the use ditions numbered $\frac{1a~\&}{\text{comatically expire}}$ unless this well in $\frac{1}{\text{July}}$ 3, 2003	4		on the	reverse sid	e hereof.	This peri	mit wi	ιί
The		la s	L.						
Dat	Bill Enenbach e: July 3, 2002	-			File No	SJ-32	30	<del></del> .	

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conditions

- The maximum amount of water that may be appropriated under this permit is 3 acre-feet in any year.
- The well shall be drilled by a driller licensed in the State of New Mexico in accordance with Section 72-12-12 New Mexico Statutes Annotated. A licensed driller shall not be required for the construction of a driven well; provided, that the casing shall not exceed two and three-eights (2 3/8) inches outside diameter (Section 72-12-12).
- Driller's well record must be filed with the State Engineer within 10 days after the well is drilled or driven. Failure to file the well record within that time shall result in automatic cancellation of the permit. Well record forms will be provided by the State Engineer upon request.
- The casing shall not exceed 7 inches outside diameter except under specific conditions in which reasons satisfactory to the State Engineer are shown.
- E. If the well under this permit is used at any time to serve more than one household or livestock in a commercial feed lot operation, or for drinking and sanitation purposes in conjunction with a commercial operation, the permittee shall comply with Specific Conditions of Approval number 5(b).
- In the event this well is combined with other wells permitted under Section 72-12-1 New Mexico Statutes Annotated, the total outdoor use shall not exceed the irrigation of one acre of non-commercial trees, laws, and garden, or the equivalent outside consumptive use, and the total appropriation for household ark outdoor use from the entire water distribution system shall not exceed 3 acre-feet in any year.
- If artesian water is encountered, all rules and regulations pertaining to the drilling and casing of artesian wells shall be complied with.
- H & I See side margins.

#### SPECIFIC CONDITIONS OF APPROVAL

(Applicable only when so indicated on the other side of this form.)

- Depth of the well shall not exceed the thickness of the (a) valley fill or (b) Ogallala formation.
- The well shall be constructed to artesian well specifications and the State Engineer shall be notified before casing is landed or cemented.
- Appropriation and use of water under this permit shall not exceed a period of one year from the date of
- Use shall be limited to household, non-commercial trees, lawn and garden not to exceed one acre and/or stock use.
- A totalizing meter shall be installed before the first branch of the discharge line from the well and the installation shall be acceptable to the State Engineer; the Engineer shall be advised of the make, model, serial number, date of installation, and initial reading of the meter prior to appropriation of water; pumping records shall be submitted to the District Supervisor: (a) for each calendar month, on or before the 10th day of the following month (b) on or before the 10th of January, April, July and October of each year for the three preceding calendar months (c) for each calendar year on or before the 10th day of January of the following year.
- The well shall be plugged upon completion of the permitted use, and a plugging report shall be filed with the State Engineer within 10 days.
- Final approval for the use of the well shall be dependent upon a leakage test made by the State Engineer.
- Use shall be limited strictly to household, drinking and sanitary purposes; water shall be conveyed from the well to the place of use in closed conduit and the effluent returned to the underground so that it will not appear on the surface. No irrigation of lawns, gardens, trees or use in any type of pool or pond is authorized under this permit.
- No water shall be used from this well unless and until a permit has been issued to an applicant who intends to use the water for any of the purposes described in § 72-12-1.

## INSTRUCTIONS

The application shall be made in the name of the actual user of the well for the purpose specified in the

The application shall be filed in triplicate and forwarded with a \$5.00 filing fee to the State Engineer. A separate application must be filed for each well to be drilled or used.

If well to be used is an existing well, an explanation (and the file number, if possible) should be given

Applications for appropriation, well records and requests for information in the following basins should be addressed to the State Engineer at the location indicated.

Bluewater, Estancia, Rio Grande, Sandia, Gallup and XXXXXXXX Basins  Office of the State Engineer 121 Tijeras, NE., Suite 2000 Albuquerque, NM 87102-3400

Capitan, Carisbad, Curry County, Fort Summer, Hondo, Jal, Lea County, Penasco, Portales, Roswell, Tucumcari and Upper Pecos Basins District No. 2, 1900 West Second Street, Roswell, NM 88201

Animas, Gila-San Francisco, Lordsburg, Mimbres, Nutt-Hockett, Playas, San Simon and Virden Valley Basins District No. 3, P.O. Box 844, Deming, NM 88031

Lower Rio Grande, Tularosa, Hueco, Las Animas Creek and Hot Springs Basins District No. 4, 133 Wyatt Drive, Suite 3, Las Cruces, NM 88005

Canadian River Basin

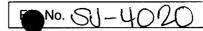
State Engineer Office, P.O. Box 25102, Santa Fe, NM 87504-5102

San Juan Basin State Engineer Office 100 S. Oliver Aztec, NM 87410

# **SUPPLEMENTAL INSTRUCTION**

If the well under this permit is to be used for livestock watering on state or federal land, proof of the following must be provided as part of this application: (1) applicant is legally entitled to place his livestock on the land where the water is to be used; (2) applicant has been granted access to the drilling site and has permission to occupy the portion of the land as is necessary to drill and operate the well.

FFICIAL RECEIPT NUMBER 5-01		DATE	LUU J	FILENO. 31-323	0
OTAL RECEIVED: \$	RECEIVED: _	five	· · · · · · · · · · · · · · · · · · ·	DOLLARS CHECK NO	CASH:
ROM: Tonia G	2001Z	BANK NAME:			
		Bell Enoubo	eh.	(TITLE)	
STRUCTIONS: Indicate the number of a	ctions to the left o	f the appropriate type of filing. Comple	ete the rece	ipt <b>informatio</b> n. <b>Original</b> to payor; <b>pi</b>	nk copy to MSI
llow copy to Water Rights - Santa Fe, ar	d goldenrod cop	y for District file. If you make a mistake	e, <b>void</b> origin	nal <b>and all copies and submit to MSD</b>	along with val
ceipts and the weekly report.  Ground Water Rights Filing Fees (411	840) <b>B</b> . S	urface Water Rights Filing Fees (411		D. Hearing Deposit (411890)	\$
1. Declaration of Water Right 2. Application to Appropriate;	\$ 1.00	<ul> <li>1. Declaration of Water Right</li> <li>2. Declaration of Livestock Dam</li> </ul>	\$ 1.00 \$ 1.00	E. Reproduction of Documents (419740) 20¢/copy, limit 10	
Domestic, Stock, Other Use  3. Application for Test, Exploratory,	\$ 5.00	<ul> <li>3. Application to Change Point of Diversion</li> </ul>	\$25.00	copies of each document.	\$
or Observation Well	\$ 5.00	<ul> <li>4. Application to Change Place and/or Purpose of Use</li> </ul>	\$50.00	F. Water Right Determination	\$
4. Application to Change Location Domestic Well	\$ 5.00	_ 5. Application to Change Point of	Ψοσ.σσ	G. Certification	\$
<ul><li>5. Application to Repair or Deepen</li><li>6. Application to Dewater</li></ul>	\$ 5.00 \$ 5.00	Diversion and Place and/or Purpose of Use	\$50.00	H. Other (Specify - Not for Filing Fees)	æ
7. Application to Appropriate Irrig.,		<ul> <li>6. Notice of Intent to Appropriate</li> <li>7. Application to Appropriate</li> </ul>	\$25.00 \$25.00	ior rilling rees)	Ψ
Mun., Ind., or Com. Use 8. Application to Combine Wells		_ 8. Application for Extension of			
and/or Use 9. Application for Supplemental	\$25.00	Time  9. Certificate of Construction	\$50.00 \$25.00		
Well		_ 10. License to Appropriate _ 11. Application to Enlarge of	\$25.00		
10. Application to Change Location of Non-72-12-1 Well	\$25.00	Amend	\$25.00	COMMENTS:	
11. Application to Change Place 12. Application to Change Location	\$25.00	_ 12. Other (As per 72-2-6.J NMSA 1978) (Specify:)	(VAR)		
of Well and Place and/or	\$50.00	_ 13. Application to Change Point of Diversion and Place and/or			
Purpose of Use  13. Application for Extension of		Purpose of Use from Ground to	450.00		<b>&amp;</b> &
Time (Specify:)  14. Certificate and License (for each	\$25.00 1	Surface Water	\$50.00		
permit therein) (VAR)  15. Application for Plan of		Miscellaneous Fees (411840)  1. Application to Construct Flood-			
Replacement	\$25.00	Control Dam. Same as #6 below			
16. Other (As per Art. 6-2 of Rules and Regulations) Specify:	\$25.00	<ul> <li>2. Application for Well Driller's License</li> </ul>	\$50.00		3 商品
	(VAR)	<ul> <li>3. Application for Renewal of Well Driller's License</li> </ul>			
17. Application to Change Point of	(VAI I)	4. Application to Amend Well			<del>*</del> 8"
Diversion and Place and/or Purpose of Use from Surface to		Driller's License  5. Issue of Certified Letter	\$ 5.00 \$ 5.00		
Ground Water	\$50.00	6. Review of Plans for Safety of			
	100	Dams (\$10.00 + \$2.00/\$1,000 of estimated construction cost)	(VAR)		



### **NEW MEXICO OFFICE OF THE STATE ENGINEER**



# APPLICATION FOR PERMIT TO USE UNDERGROUND WATERS IN ACCORDANCE WITH SECTIONS 72-12-1.1, 72-12-1.2, OR 72-12-1.3 NEW MEXICO STATUTES



For fees, see State Engineer website: http://www.ose.state.nm.us/

1. APPLICANT(S)							
Name: James A. Shinn	******	Na	me:				
Contact or Agent:	check here if Agent	Co	ntact or A	Agent:	ch	eck here K	ent SIAIE E
Mailing Address: 1207 La Paz		Ma	iling Add	ress:		ယ်	
City: Andrews		City	<b>/</b> :	,		<u> </u>	ENG POS
State: TX	Zip Code: <b>79714</b>	Sta	te:		Zip	Code:	엉킀
Phone: <b>432-464-0002</b> Phone (Work): <b>575-394-5583</b>	⊠ Home ☐ Cell		one: one (Wor	rk):		Home  Cel	I
E-mail (optional): jashinn3@msn.c	om	E-n	nail (optio	onal):			
R. WELL LOCATION Required: Coo WGS84). District II (Roswell) and D NM State Plane (NAD83) - In feet				PLSS location in	•	· —	
UTM (NAD83) - In meters	UTM Zone 13N UTM Zone 12N		_	(in meters): g (in meters):			
Lat/Long (WGS84) - To 1/10 <sup>th</sup> of second	Latitude: 36 Longitude: -107		deg deg	50 52	min min	49.7 3.1	sec sec
Other Location Information (complet	e the below, if applicable):		<del></del>			1	
PLSS Quarters or Halves: N/2	2 NW/4 NE/4 S	Section:	03	Township:	30N	Range:	10W
County: San Juan							
Land Grant Name (if applicable):							
Lot No: Block No:	Unit/Tract:		Subdivi	sion:			
Hydrographic Survey:			Мар:		Tra	act:	
Other description relating point of div 198 Road 2772, Aztec,				<sup>r:</sup> Physical 181-494	Addres	s is	
Point of Diversion is on Land Own	ned by (Required): James A.	. And Ire	ene Shin	n Recorded In E	Book 119	3, Page 697	
	FOR OSE INTERNAL USE			Application	for Permit	, Form wr-01, Re	ev 3/8/12
	File Number:			Trn Numbe	r: 61	3041	

POD No.

Log Due Date:

Sub-basin:

3. PURPOSE OF USE				
☐ Domestic use for one household				
Livestock watering				
☐ Domestic use for more than one hou	sehold. Number of househol	lds		
☐ Drinking and sanitary uses that are i		·	ommercial, or i	non-profit facility
☐ Prospecting, mining or drilling opera	•	_	•	•
☐ Construction of public works, highwa	·			
☐ Domestic use for one household and				
☐ Domestic use for multiple household	<del>-</del>			
☐ Domestic well to accompany a hous	<del>-</del>	ructed for sale		
4. WELL INFORMATION				
File Information: (If existing well, provid new well, leave blank, as OSE must as		well is to be replace	ement, repaire	ed or deepened, or supplemental. If
OSE Well No.(If Existing)		New Well No. (pro	ovided by OSE	S.I-4020
Driller Name: Terry Hood		Driller License N		7 50 4020
Approximate Depth of Well (feet): 325.	00	Outside Diameter	of Well Casir	ng (inches): 6.00
☐ Replacement well	Repair or Deepen:		Supplem	
(List all existing wells if more than one):			1 ''	o. for all wells this will supplement):
,	☐ Clean out well to ori	ginai depth	`	
	☐ Deepen well from _	to ft.		
	☐ Other (Explain):			
	ACKNOWL	EDGEMENT		STATE AZTI 1912 AU
I, We (name of applicant(s)), James A.	Shinn			ن <u>جُوَّ</u>
, <u>, , , , , , , , , , , , , , , , , , </u>	Print Name(	s)		- SM
affirm that the foregoing statements are	true to the best of (my, our) k	nowledge and belie	ef.	
$\sim$ $\Omega M/M$				ඩ වූ මූ
Januar (1. XXX	m			<u> </u>
Applicant Signature		Applicant Sign	nature	
AC	CTION OF THE STATE ENGI	NEER (FOR OSE	USE ONLY)	
This application is	approved subject to the attac	ched general and sp	oecific conditio	ns of approval.
Witness my hand and seal this 3	day of August	20 <b>12</b>	, for the S	tate Engineer,
BURNIAN MANAN	1	Savannah L	indeav	
Signature Signature	<del>(p</del>	Print	illusay	
		,		
	FOR OSE INTERNAL USE		Application fo	r Permit, Form wr-01, Rev 3/8/12
The second of th	File Number:	1	Trn Number:	
1	Sub-basin:	POD No.		Log Due Date:

# NEW MEXICO OFFICE OF THE STATE ENGINEER APPLICATION FOR PERMIT TO USE UNDERGROUND WATERS IN ACCORDANCE WITH SECTIONS 72-12-1.1, 72-12-1.2, AND 72-12-1.3 NEW MEXICO STATUTES

### **INSTRUCTIONS**

1. The application shall be made in the name of the actual user of the well for the purpose specified in the application (if the agent is submitting the application, check the agent box).

2. The application shall be filed with the appropriate filing fee.

3. A separate application must be filed for each well to be drilled or used.

4. If well to be used is an existing well, an explanation (and the file number, if possible) should be given under Remarks (Item 5).

FEE SCHEDULE FOR APPLICATIONS
72-12-1.1 (domestic) = \$125.00
72-12-1.2 (livestock) = \$5.00
72-12-1.3 (temporary) = \$5.00
Replacement well = \$ 75.00
Supplemental well= \$125.00
Repair or Deepen = \$ 75.00

Amend Domestic Use = \$ 75.00

- 5. If well is to be used for livestock watering on state or federal land, proof of the following must be included as part of the application; (a) applicant is legally entitled to place his or her livestock on the land where the water is to be used, (b) applicant has been granted access to the drilling site and has permission to occupy the portion of the land as is necessary to drill and operate the well.
- 6. An application to drill a well on land owned by another person, the state of New Mexico, the federal government, or another entity shall be accompanied by written consent of the landowner.
- 7. For an application for drinking and sanitary uses that are incidental to the operations of a governmental, commercial, or non-profit facility, the applicant shall demonstrate that no alternative water supply is reasonably accessible or available.
- 8. An application for a 72-12-1.1 domestic well to serve multiple households shall be filed with documentation listing the number of households to be served by the well, the owner's contact information for each household to be served, and a description of the legal lot of record for each household to be served. A copy of a well share agreement may be filed to support the claim that the 72-12-1.1 domestic well will serve more than one household.
- 9. The Office of the State Engineer may require an application to be filed with a deed or purchase contract and plat of survey on file with the appropriate county.
- 10. See General Conditions of Approval for more information.

Application for permit, well records and requests for information in the following basins should be addressed to the Office of the State Engineer at:

Bluewater, Estancia, Gallup, Middle Rio Grande, Northern Tularosa, and Sandia Basins District No. 1. 5550 San Antonio Dr. NE, Albuquerque, NM 87109 Phone # 505-383-4000

Capitan, Carlsbad, Casey Lingo, Curry County, Fort Sumner, Hagerman Canal, Hondo, Jal, Lea County, Peñasco, Roswell-Artesian, and Portales Basins

District No. 2. 1900 West Second St., Roswell, NM 88201 Phone # 575-622-6521

Animas, Cloverdale, Gila-San Francisco, Hachita, Lordsburg Valley, Mimbres, Mount Riley, Nutt-Hockett, Playas, San Simon, Virden Valley, and Yaqui Basins

District No. 3. P.O. Box 844, Deming, NM 88031 Phone # 575-546-2851

Lower Rio Grande, Southern Tularosa, Hueco, Las Animas Creek, Salt, and Hot Springs Basins District No. 4. 1680 Hickory Loop, Suite J, Las Cruces, NM 88005. Phone # 575-524-6161

### San Juan Basin

District No. 5. 100 Gossett Drive, Suite A, Aztec, NM 87410 Phone # 505-334-4571

Northern Rio Grande and Upper Pecos Basins

District No. 6. P.O. Box 25102, Santa Fe, NM 87504-5102 Phone # 505-827-6120

Canadian River, Clayton, and Tucumcari Basins

District No. 7. P.O. Box 481, 301 East 9th Street, Cimarron, NM 87714 Phone # 575-376-2918

2012 AUG -3 PM 5: 01

# NEW MEXICO OFFICE OF THE STATE ENGINEER APPLICATION FOR PERMIT TO USE UNDERGROUND WATERS IN ACCORDANCE WITH SECTIONS 72-12-1.1, 72-12-1.2, or 72-12-1.3 NEW MEXICO STATUTES

### **GENERAL CONDITIONS OF APPROVAL**

- 06A The maximum amount of water that may be appropriated under this permit is 1.0 acre-feet in any year.
- The well shall be drilled by a driller licensed in the State of New Mexico in accordance with Section 72-12-12 New Mexico Statutes Annotated. A licensed driller shall not be required for the construction of a driven well; provided, that the casing shall not exceed two and three-eighths (2 3/8) inches outside diameter (Section 72-12-12).
- Of Driller's well record must be filed with the State Engineer within 20 days after the well is drilled or driven. Well record forms will be provided by the State Engineer upon request, or may be printed from the OSE website at <a href="www.ose.state.nm.us">www.ose.state.nm.us</a>, under applications & forms.
- O6D The casing shall not exceed 7 inches outside diameter except under specific conditions in which reasons satisfactory to the State Engineer are shown.
- To request a change to the use of water authorized under this permit, the permittee shall file an application with the State Engineer.
- An application for a new 72-12-1.1 domestic well permit where the proposed point of diversion is to be located on the same legal lot of record as an operational 72-12-1.1 domestic well shall be treated as an application for a supplemental well.
- 06G If artesian water is encountered, all rules and regulations pertaining to the drilling and casing of artesian wells shall be complied with.
- The drilling of the well and amount and uses of water permitted are subject to such limitations as may be imposed by a court or by lawful municipal or county ordinance which are more restrictive than the conditions of this permit and applicable State Engineer regulations.
- The permittee shall utilize the highest and best technology available to ensure conservation of water to the maximum extent practical.
- The well shall be set back a minimum of 50 feet from an existing well of other ownership unless a variance has been granted by the State Engineer. The State Engineer may grant a variance for a replacement well or to allow for maximum spacing of the well from a source of groundwater contamination. The well shall be set back from potential sources of contamination in accordance with rules and regulations of the New Mexico Environment Department.
- Pursuant to Section 72-8-1 NMSA, the permittee shall allow the State Engineer and his representatives entry upon private property for the performance of their respective duties, including access to the well for meter reading and water level measurement.
- The permit is subject to cancellation for non-compliance with the conditions of approval or if otherwise not exercised in accordance with the terms of the permit.
- The right to divert water under this permit is subject to curtailment by priority administration as implemented by the State Engineer or a court.
- O6N In the event of any change of ownership to this permit the new owner shall file a change of ownership form with the State Engineer in accordance with Section 72-1-2.1 NMSA.
- This well permit shall automatically expire unless the well is completed and the well record is filed with the State Engineer within one year of the date of issuance of the permit. It is the responsibility of the permit holder to ensure that the well record has been properly filed with the State Engineer.

# NEW MEXICO OFFICE OF THE STATE ENGINEER APPLICATION FOR PERMIT TO USE UNDERGROUND WATERS IN ACCORDANCE WITH SECTIONS 72-12-1.1, 72-12-1.2, or 72-12-1.3 NEW MEXICO STATUTES CONDITIONS OF APPROVAL (Domestic One Household)

FILE NUMBER: S

SJ-4020

PERMITTEE:

James A. Shinn

- 1. If applicable, the well being replaced shall be plugged upon completion of the replacement well. A plugging report shall be filed with the State Engineer within 20 days of the well being plugged. (Condition 06-6b)
- 2. The total diversion from all wells under this permit shall not exceed <u>1.0</u> acre-foot per annum. (Condition 06-10)
- 3. This permit authorizes the diversion of water for domestic use to serve a single household. The total diversion of water under this permit shall not exceed <u>1.0</u> acre-foot per year. The diversion of water for domestic use may include the watering of non-commercial trees, lawn and garden not to exceed one acre. (Condition 06-11)
- 4. Any diversion of water made in excess of the authorized maximum diversion amount in any calendar year shall be repaid with twice the amount of the over-diversion during the following calendar year. Repayment shall be made by either: (a) reducing the diversion during the following calendar year from the well that is the source of the over-diversion; or (b) acquiring or leasing a valid, existing consumptive use water right in an amount equal to the repayment amount and submitting to the state engineer for his approval a plan for the proposed repayment during the following calendar year. The plan for the proposed repayment shall be on a form prescribed by the state engineer. (Condition 06-18)
- 5. Well Record shall be due on or before August 3, 2013.

Witness my h	and and seal this <u>3rd</u>	day of, A.D., 2012.
STATE ENGINEER OFFICE AZTEC, NEW MEXICO 2012 AUG - 3 PM 5: 02		Scott A. Verhines, P.E.  New Mexico State Engineer  By Savannah Lindsay  Water Rights Division  District 5
Trn Desc.:	A	File Number: SJ-4020
Log Due Date: _	August 3, 2013	Trn Number:



# STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER AZTEC

Scott A. Verhines, P.E. State Engineer

100 Gossett Drive, Suite A Aztec, New Mexico 87410 (505) 334-4571

August 15, 2012

James A. Shinn 1207 La Paz Andrews, TX 79714

Permit File No. SJ-4020

Dear Mr. Shinn:

Your application for an after the fact Permit to Use Underground Waters in Accordance with Section 72-12-1 New Mexico Statutes submitted has been approved. Enclosed you will find an original of the permit for your records, along with a receipt for the \$125 filing fee. The number of your Permit to Appropriate Underground Waters is **SJ-4020**.

Our office must receive a driller's Well Record for your water well permit by the expiration date of August 3, 2013. If the Well Record is not submitted to this office by the expiration date, you will need to reapply for a new permit. This form was sent to you via electronic mail with further instructions. Please include your permit file number, **SJ-4020**, in all communications.

If you have any questions, feel free to contact me.

Sincerely,

Savannah Lindsay Water Rights Division

Enclosure

cc:

Aztec File WATERS Aztec Reading

# OFFICE OF THE STATE ENGINEER/INTERSTATE STREAM COMMISSION - AZTEC OFFICE

020H-403	7	CITY: TO VIVE TO THE TABLE TO THE THE TO THE	INSTRUCTIONS: Indicate the number of actions to the left of the appropriate type of filing. Complete the receipt information. Original to payor; pink copy to Program Support/ASD along with other valid receipts. remains in district office, and goldenrod copy to accompany application being filed. If you make an error, void original and all copies and submit to Program Support/ASD along with other valid receipts.	C. Miscellaneous Fees	1. Application for Well Driller's License \$50.00 2. Application for Renewal of Well	Driller's License \$50.00			D. Reproduction of Documents	@ 0.20¢/copy \$	Man(c)		E. Certification		F. Other		G. Comments:	,	11. CONE 2100 F							
The FILE NO.:	O DOLLARS	ם	nformation. <b>Original</b> t il and all copies and sub		\$ 10.00 \$ 25.00		00:01	\$ 10.00 \$ 25.00	25.00	\$100.00	\$100.00		\$200.00			\$200.00 \$ 50.00		\$100.00	00:07	\$ 25.00	5.00	•			1	
		ORESS: A CONTROL OF CO	e type of filing. Complete the receipt in filed. If you make an error, void origina	ırface Water Rights Filing Fees	Declaration of Water Right Amended Declaration	Declaration of Livestock Water	Application for Livestock Water	Impoundment Application to Appropriate	Notice of Intent to Appropriate	Application to Change Point of Diversion	Application to Change Place and/or Purpose of Use	Application to Change Point of Diversion and Place and/or Purpose	of Use	Application to Change Point of Diversion and Place and/or Purpose of	Use from Ground Water to Surface	Water Application for Extension of Time	Supplemental Well to a Surface Right	Return Flow Credit	Proof of Application of Water to	Beneficial Use Water Davelonment Plan	Change of Ownership of Water Right					
DATE		ADI	e left of the appropriate	B. Su			4.	.00	]	.' — 00:	25.00	25.00		25.0010.	25.00	50.00		25.0013.	11	50.00	17.		5.00		5.00	2.00
OFFICIAL RECEIPT NUMBER: 5-4635	: RECEIVED:	RECEIVED BY:	TTONS: Indicate the number of actions to the in district office, and <b>goldenrod</b> copy to accom	A. Ground Water Rights Filing Fees	Declaration of Water Right \$ 1 Application to Appropriate or Supple-	<del>\$</del> 4	, leepen	72-12-1 Well \$ 75.00 Application for Replacement	72-12-1 Well \$ 75.00	Application to Change Purpose of Use 72-12-1 Well \$ 75.00	Application to Appropriate Irrig., Mun., or Comm. Use	Supplemental \$\frac{1}{2}\$	Application to Change Point of	Diversion of Non 72-12-1 Well \$ 25. Application to Change Place or	₩	Application to Change Point of Diversion and Place and/or Purpose of Use \$ 50.	₩	Proof of Application to Beneficial Use \$ 25.		Surface Water to Ground Water \$ 50.  Application to Change Point of Diversion	and Place and/or Purpose of Use from	<del>(A)</del> 1	Application for Test, Expl. Observ. Well \$ 5 Change of Ownership of Water Right \$ 7	•	Non 72-12-1 Well \$ 5. Application for Replacement Well	₩.
OFFICI	TOTAL:	PAYOR: ZIP:	INSTRUC	A. Gro	)  -  -  -	۳		5.	•	<b>.</b>	7.	∞ 	9	15		11.	12.	13.	<del>.</del>	Ť.	<u>:</u>	ţ	17.	T	ō.	į



### Dear Customer:

Enclosed is your Watercheck report and suggestions as to what you can do to correct any problems which may have been found. On your report the Date Analyzed is the date when all tests were completed. Coliform bacteria and many of the other tests were started on the Date Received.

Your results are presented in four columns, as follows:

- 1) Analysis performed: shows the material analyzed.
- 2) Maximum Contaminant Level (MCL): acceptable levels as recommended by the U.S. Environmental protection Agency or by one of the agencies listed in the footnotes.
- Detection Levels: the level at which our instruments and procedures are able to produce results within normally acceptable limits of accuracy. However, we are constantly striving to reduce our detection limits in order to provide our customers with the most meaningful analysis possible. Therefore, when we find a contaminant present in concentrations below our detection level we will report it for "information purposes" only. (see 4c below)
- 4) Level Detected: what we found in your water expressed in "parts per million". This is also sometimes written as "milligrams per liter" or "ppm" or "mg/l".
  - a) "nd" indicates that analytical procedures did not find this material in your water.
  - b) "\*" indicates that the level detected exceeded the recommended safe level or MCL.
  - c) When we are able to identify the presence of a contaminant below our detection level we report these findings. However, it must be understood that the level reported is too low to have been measured within our normal limits of accuracy.

We have analyzed your water for two types of contamination...

1) unhealthy chemicals and bacteria and 2) unpleasant but not unhealthy compounds.

The sample contained some elements which may be troublesome to your family's lifestyle. The water is hard and contains manganese at a level which may be staining laundry and causing objectionable mineral build-up on your tubs and showers. Hard water shortens the life of your water heaters and probably causes you to use more soaps, shampoos and cleaning products than you would use with soft water. A water softener with sufficient capacity will cure these problems and is readily available from a reputable water conditioning dealer in your area.

The level of total dissolved solids and sulfates may be lending an unpleasant taste or odor to your drinking water. If this is the case you can obtain clean, good tasting water for drinking, cooking and ice making through the use of a "third faucet" drinking water reverse osmosis filter or a distillation device.

Your water is turbid which may be contributing an unpleasant taste and odor to your drinking water. Filtration devices or filtration plus oxidation using ozone or chlorine as the oxidation agent should cure the problem.

Now only you can determine when the next checkup should be made, but remember that ground water is always moving...like a very slow river, and as it moves it dissolves or absorbs metals and chemicals from the soil through which it passes.

Stay alert to the possibility of change caused by leaking buried chemical and gasoline storage tanks, fertilizers and pesticides if you live in a farming community, brine intrusion from oil and gas drilling, and even a drop in pH (acidity) caused by acid rain.

If you live near a landfill it is probably a good idea to have an analysis run every year or two to insure that no toxic substances are being leached out of the fill by rainfall and have found their way into your well.

Best of all, do what you can to remain informed about the water you may be drinking, and if you have any doubts at all as to its quality have it analyzed again...hopefully by National Testing Laboratories. In addition we stand ready to answer whatever questions you may have...if we know the answers. We will do what we can to help.

Sincerely,

J. Quome Torl
F. Jerome Tone

President

FJT/sh

DATE COLLECTED	DATE REC. D	DATE COMPLETED	SAMPLE CODE
09/16/91	09/20/91	09/30/91	9330677

CUSTOMER ADDRESS JAMES A. SHINA 198 ROAD 2772 AZTEC, NM 87410-

# TESTING LABORATORIES INC. 6151 Wilson Mills Road Cleveland, OH 44143 (216) 449-2525

### DRINKING WATER **ANALYSIS** RESULTS

NATIONAL

### DEALER ADDRESS CULLIGAN OF FARMINGTON 209 W. BROADWAY FARMINGTON, NM 87401-

NOTE: "\*" indicates that the MCL (Maximum Contaminant Level) has been exceeded. or in the case of pH is either too high OR too low. "ND" indicates that none of this contaminant has been detected at or above our detection level. "\*\*" Result may be invalid due to lack of "Time Collected" or because the sample has exceeded the 30-hour time frame. "BD" Bacteria destroyed due to lack of collection information or because the sample has exceeded the 48-hour time frame. TNTC-Too Numerous To Count NBS-No Bacteria Submitted Analysis performed MCL |Detection| Level ! (mg/1) | Level |Detected Microbiological: Total coliform (organism/100ml) 0 0.0 and the bely may the cold the test that the test to the test to the test th Inorganic chemicals - metals: 0.05 0.002 ND 1.0 0.30 ND 0.01 0.002 ND 0.05 0.004 ND Arsenic Barium Cadmium Chromium Copper 0.004 0.020 0.002 1.0 ND > Iron 0.081 ND 0.3 Lead 0.05 ND > Manganese 0.05 0.004 0.59\* Mercury 0.0002 0.002 ND Nickel 0.15 0.02 ND Selenium 0.01 0.002 ND Silver 0.05 0.002 ND Sodium \*\* \*\* \*\* 1.0 233 -> Zinc 0.004 5.0 Inorganic chemicals - other, and physical factors: 10.0 → Alkalinity (Total as CaCO3) 165 ND 0.6 ND \*\*\* \*\*\* \*\*\* Chloride 250 250 10.0 4.0 0.50 10 0.5 Fluoride Nitrate as N 10 Nitrite as N \*\*\* .... \*\*\* 0.5 NO → Sulfate 250 10.0 1745\* → Hardness (suggested limit = 100) 10.0 1400\* Total Dissolved Solids
Turbidity

Total Dissolved Solids 7.7 Total Dissolved Solids 500 20.0 Turbidity (Turbidity Units) 1.0 0.1 3477\* 1.4\* Organic chemicals - trihalomethanes; المراحة الم Bromoform 0.004 ND Bromodichloromethane \*\*\* \*\*\* 0.002 ND Chloroform ----0.002 ND Dibromochloromethane 0.004 0.002 ND Total THMs (sum of four above) 0.1 Organic chemicals - volatiles: the me per man me tops may per ten any pany con any pany and any one one con the ten and they was the con-Benzene 0.005 0.001 ND Vinyl Chloride 0.002 , 0.001 ND Carbon Tetrachloride 0.005 0.001 ND 1.2-Dichloroethane 0.005 0.001

_	page	2.	Samp1	e code:	93306	77
Analysis performed		!	MCL	:	ion  Lev	
			(mg/l)	! Leve	l  Dete	cted
Trichloroethylene			0.005	0.00	1 ND	)
1,4-Dichlorobenzene			0.075	0.00		
1,1-Dichloroethylene			0.007	0.00		
1,1,1,-Trichloroethane			0.20	0.00	1 ND	1
Bromobenzene			11.05 FF0 1960	0.00	2 ND	)
Bromomethane			** **	0.00	2 ND	)
Chlorobenzene				0.00	1 ND	)
Chloroethane			*** *** ***	0.00	2 ND	1
Chloroethylvinyl ether			nu	0.00		
Chloromethane				0.00		
2-Chlorotoluene				0.00		
4-Chlorotoluene	n )			0.00		
Dibromochloropropane (DBC	P)			0.00		
Dibromomethane 1,2-Dichlorobenzene			FT 81 10	0.00		
1,3-Dichlorobenzene			** ***	0.00		
Dichlorodifluoromethane			mar grow pur	0.00		
1.1-Dichloroethane				0.00		
Trans-1,2-Dichloroethylen	<b>=</b>		w	0.00		
cis-1,2-Dichloroethylene				0.00		
Dichloromethane			m- 100 mir	0.00		
1,2-Dichloropropane				0.00	2 ND	Ŀ
trans-1,3-Dichloropropene			*** ***	0.00	2 ND	
cis-1,3-Dichloropropene				0.00	2 ND	
2,2-Dichloropropane				0.00	2 ND	
1,1-Dichloropropene			** ***	0.00	2 ND	
1,3-Dichloropropane			No. 10. No.	0.00		
Ethylbenzene			1750 S404 NAS	0.00		
Ethylenedibromide (EDB)			· · · · · ·	0.00		
Styrene				0.00		
1,1,1,2-Tetrachloroethane				0.00		
1.1.2.2-Tetrachloroethane Tetrachloroethylene (PCE)				0.00		
Trichlorobenzene(s)			erne page pener	0.00		
1,1,2-Trichloroethane			100 at 100	0.00		
Trichlorofluoromethane				0.00		
1,2,3-Trichloropropane			A-10.0 Mars	0.00		
Toluene			NAME AND ADD	0.00		
Xylene			MTM NOW (MA)	0.00	1 ND	
Organic chemicals - pest:	icides	5, h	nerbici	des & P	C8s	
Alachlor			*** *** ***	0.00		
Atrazine				0.05	O ND	
Chlordane			0.02	0.01	ND	
Aldrin				0.00		
Dichloran				0.00		
Dieldren				0.00		
Endrin			0.0002	0.00		
Heptachlor			0.01	0.00		
Heptachlor Epoxide Hexachlorobenzene			0.02	0.00		
Hexachloropentadiene			0.02	0.00		
Lindane			0.004	0.00		
Methoxychlor			0.1	0.05		
PCBs			0.008	0.00		
Pentachloronitrobenzene				0.00		
Silvex 2,4,5-TP			0.01	0.00	5 ND	
Simazine				0.05		
Toxaphene			0.005	0.00		
Trifluralin				0.00	5 ND	

I certify that the analyses performed for this report are accurate, and that the laboratory tests were conducted by methods approved by the U.S. Environmental Protection Agency or variations of these EPA methods. These test results are intended to be used for informational purposes only and may not be used for regulatory compliance.

0.1

0.010

ND

PRESIDENT, NATIONAL TESTING LABORATORIES, INC.

2.4-D

REV. 2-91

Received by OCD: 1/20/2022 8:03:03 AM 4H = 30-045-225238 = 30-045-20886

5050

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

Operator MERIDIAN OIL Location: Unit J Sec. 2 Twp 30 Rng 10
Name of Well/Wells or Pipeline Serviced ATLANTIC D COM C #4A
ATLANTIC D COM G #8 cps 1313w
Elevation 6516 Completion Date 11/2/88 Total Depth 460 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. 220'
Depths gas encountered: N/A
Type & amount of coke breeze used: N/A
Depths anodes placed: 410', 395', 385', 356', 344', 350, 227 2200 200
Depths vent pipes placed: 438'
Vent pipe perforations: 240' MAY 31 1991
Remarks: gb #2 Oll CON. Div

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

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

Bad

! 10 3, 2

!# 20

Completion Date 11/2/88

Ins. Union Check Good

No. Sacks Mud Used

# 19

#9280 # 1027 C

No. 2 C.P. Cable Usea

Received by OCD: 1/20/2022 8:03:03 AM FM-07-0238 (Peys 10-82 Drilling Log (Attach Hereto) 124 Fell Name, Line or Plant: Work Order ATLAUTIC 1313W 48992A Anage Type: 2"x60 1-2-30-10 Durion Deprit Orilled Depth Logges Drilling Rig Time Total Lhs. Coke Used 460 448 Anode Depth \* 3 385 1 6 344 1 7 3 7 6 1 4 8 32 8 24 35-6 25 350 Anode Output (Amps) # 6 3. 8 1= 2 2.3 #3 2.8 # 4 3.2 \* 5 3. 9 #12.6 Anoge Depth # 11 # 14 # 16 Anoge Output (Amps: = 11 # 13 2 14 !# 15 × 16 Total Circuit Resistance No. 8 C.P. Jable Usea .84 Volts !Amps 14.8 Ohms 12.4 Remarks: NATER AT 220 DID NOT GET WATER SAMPLE, HAD TO STAFT INSTALLED 438 of 1" VEHT 240

WELL CASING CATHODIC PROTECTION CONSTRUCTION REPORT DAILY LOG · 122 25.00 1 - 3-35

Size Bit:

G 7/4"

×7 3.6

a 17

S 17

Lost Carculation Mar'l Used

1=8 3.1

= 18

# 18

1026867 555-EC41-001-00-7 All Construction Completed (Signature)

4170.00

Rectifier Size: \_\_\_\_ Addn'l Depth\_\_\_

52 Depth Credit:\_\_

10 Extra Cable:\_ Ditch & 1 Cable:\_

Direct & Coole:

25' Meter Pole: Õ 201 Heter Pole:

10' Stub Pole:

Junction Box:

TAX 214.60 214.42 XX AL 4506.60 4502.820K93 TO TAL

6. B. \* 1

Released to Imaging: 2/23/2022 9:54:54 AM

	Drill N	o. <u>3</u>
	.,, /	DRILLER'S WELL LOG
		DComc 4/ADate 11-2-88
County_s	SAN J	UAN State New Mex
		if moved from original staked position show dista
		:
and direc	non moved	
FROM	TO	FORMATION — COLOR — HARDNESS
_0	260	SANdstore.
260	305	Shale
305	325	SANdstone
325	360	Shale
360	380	Spudstone
380	420	Shale
420	460	SANdstone
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<del></del> ,	<u> </u>	
Mud		Bron Lime
	Mar— b ==	
Rock Bit I		Make
Remarks:	WHITE	

Shop age 51 of 179
Date:

By:
File:

Atlantic D com C #4-A

SE 2-30-10 CONTRACT Z

1313W

57220-21

		CONTRACT Z
	Static 600 W= 0.85 2"x 2"x 48" Graphite Anodes	PRIVER SAID MAKING WATER @ 200'. PRIVED to 220'. Next A.M. Blow WATER. MAKING MORE
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 nC4 11.93 72.15 IC5 13.85	20.4 80.6	water @ 260.5 Gals fer Min. Person Ated 220 of 1" Puc vent Pipe Installed 420 of 1" for vent Pipe Slupayed sacks of coke.
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 28.05 C2 9.64 42.08 C3 9.67	10 .4 901.2 (2) .7 1.2 20 .4 400 .9 (1) .3 .6 30 .4 10 1.1	
	46 .3 20 + 50 .4 50 .7	P & DRived  40 U 16 A Rectifien  54 u 6 Pale  Hole Pepth = -80  Titch & I Cable = 232'
0	.7 70 1.1 1.1 ① 80 1.6 1.5 ③ 90 1.5	Exten Cable = 178"
MW Gs. gais/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	1.3_ 8 3 00 1.3 1.1- 0 10 .4 .2 20 .2	① 400 1.2 2.7 ② 360 1.2 2.1 ④ 350 1.6 2.8 ⑤ 340 1.5 2.6 ⑥ 330 1.8 3.0
37 E	30 1.6- 6 1.5 40 1.4- 5 1.5 50 1.4- D 1.3-	(a) 330 1.8 3.0 (b) 305 1.4 2.4 (c) 295 1.4 3.0 (d) 285 1.9 3.5 (d) 275 1.2 2.8
	60 ,9 - 3 50 .6	volts 12.0 Amps 12.5 OHMS 0.96

32. 4-1-1

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

•	Analysis No. 1-9	0412 Date	12-12-78	~~~~
1	Operator	Well Name	ATLANTIC D COM C #4.	A 1313W
	Location S# 2-30-10	County	State	<del></del>
	Field	Formation	L	<del></del>
	Sampled From 1313	s w		<del></del>
	Date Sampled	Ву		
			Surface Csg. Press	
	ppm Sodium 129	epm 6	ppm epm Chloride 20 .6	
	Calcium 420	21	Bicarbonate 288 5	
	Magnesium 65	5	Sulfate 1250 26	·
	Iron PRESENT		Carbonate 0 0	
	H2S ABSENT		Hydroxide 0 0	<del></del>
	cc: D.C.Adams R.A.Ullrich E.R.Paulek J.W.McCarthy A.M.Smith W.B.Shropshire File	•	Total Solids Dissolved 2474  pH 7.3  Sp. Gr. 1.0033 at  Resistivity 420 ohm-cm at 75  Barnett Ellsbury  Chemist	o <sub>F</sub>
20	Na 25 20 15	10 5 0	5 10 15 20	25 C1 10
	Ca			HCO <sub>3</sub> 10
	Мg			S04 10
	Fe			CO <sub>3</sub> 4
		Scale:	epm	L ,

# 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. 2 Twp30 Rng10
Name of Well/Wells or Pipeline Servi	ced ATLANTIC D COM C #4
	cps 366w
Elevation 6489' Completion Date 11/5/76	Total Depth 337' Land Type* N/A
Casing, Sizes, Types & Depths N/A	
If Casing is cemented, show amounts	& types used N/A
If Cement or Bentonite Plugs have be	en placed, show depths & amounts used
Depths & thickness of water zones wi	th description of water when possible:
Fresh, Clear, Salty, Sulphur, Etc	110' - 130'
Depths gas encountered: N/A	
Type & amount of coke breeze used:	5200 lbs.
Depths anodes placed: 320', 310', 290',	280', 245' <b>DEGET</b>
Depths vent pipes placed: N/A	WAY 3 1 1991
Vent pipe perforations: 225'	OIL CON. DIV
Remarks: gb #2	i 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.

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

### WELL CASING

### CATHODIC PROTECTION CONSTRUCTION REPORT

## 17   Part   P	# 10 # 10 # 20
11	# 10 # 10 # 20
Total Lbs. Coke Used Lost Circulation Mat'l Used No. Sacks Mud Used    Sacks	# 20 # 20
Dee Depth 320 # 310 # 3290 # 4280 # 5245 # 6 # 7 # 8 # 9 # 9 # 9 # 9 # 9 # 9 # 9 # 9 # 9	# 20 # 20
38	# 20 # 20
All Construction Complete 2,648.00  2,648.00  2,648.00  2,648.00  2,633.50  GROUND BED LAYOUT SKETCH	# 20 # 20
All Construction Complete  2,648.00  -39.00 DEPTH C redit  24.50 SURS, CABLE  2,633.50  GROUND BED LAYOUT SKETCH  1 # 12 # 13 # 14 # 15 # 16 # 17 # 18 # 19  No. 8 C.P. Cable Used  No. 2 C.P. Cable  # 10 / # 17 # 18 # 19  No. 8 C.P. Cable Used  No. 2 C.P. Cable  # 10 / # 17 / # 18 # 19  No. 2 C.P. Cable  # 10 / # 17 / # 18 # 19  No. 2 C.P. Cable  # 10 / # 10	# 20
ad Circuit Resistance Amps 10.5 Ohms 1.12 No. 8 C.P. Cable Used No. 2 C.P. Call II.8 No. 11.12 No. 8 C.P. Cable Used No. 2 C.P. Call II.8 No. 11.12 No. 8 C.P. Cable Used No. 2 C.P. Call II.8 No. 2 C	
Amps 10.5 ohms 1.12  Marks: DRILLER SAID WATER & +#5'/10'-130'  VENT PERF 225'  5 2 SACKS SLURRY  All Construction Complete  24.50 Surf, CA ble  C. WHinis  (Signature)	
All Construction Complete  2,648.00  2,648.00  24.50 Surf. CAble  2,633.50  GROUND BED LAYOUT SKETCH  GROUND BED LAYOUT SKETCH	
2,633,50 GROUND BED LAYOUT SKETCH	
2,633,50 GROUND BED LAYOUT SKETCH	ed
2,633,50 GROUND BED LAYOUT SKETCH	
105.34	
2,738,84	
312.00 Coke	
213.40 ± 25p. 50.00 m,se	,
# 3,314.24	
7 -, -, - 7	
<b>6 1 6 1</b>	

### El Paso Natural Gas Company ENGINEERING CALCULATION

Sheet: \_\_\_of\_\_ Date: By: ##-5-74

MW	ga	is/mol
16 04	C <sub>1</sub>	6.4
30 07	C2	10 12
44.10	Сз	10 42
58.12	ıC4	12 38
58.12	nC4	11 93
72 15	1C5	13 85
72.15	nC5	13 71
86.18	ıC6	15 50
86 18	C <sub>6</sub>	15.57
100 21	iC7	17.2

C<sub>7</sub> 17 46 C<sub>8</sub> 19.39

C3<sup>2</sup> 9 67

9 64

100.21

114 23 28.05

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MW	MISC gai	s/mol
32 00	02	3 37
28 01	СО	4 19
44 01	CO <sub>2</sub>	6 38
64.06	SO <sub>2</sub>	5 50
34 08	H <sub>2</sub> S	5 17
28 01	N <sub>2</sub>	4 16
2 02	H <sub>2</sub>	3 38

### EL PASO NATURAL GAS COMPANY DRILLING DEPARTMENT

MORNING  Total Mon In Crew  Finther  Total Mon In Crew  Total Mon In C				_				DRIL	LING DEPARTMENT						DAILY DRILLING F	REPORT
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11 - 130 Sand wet  37 + 170 Sand wet  270 - 178 Shale  178 - 183 Sand wet  83 - 184 Shale  36 - 205 Sand wet  05 - 215 Shale  15 - 245 Sand wet  45 - 270 Shale			te ,						$\overline{}$						,	
37 + 170 5 and wet  REMARKS -  170 - 178   3hole  178 - 183 5 and wet  183 - 184   1hole  186-205   5 and wet  15 - 245 5 and wet  15 - 270   5hole  15 - 270   5hole								•							, \	
37+170 Sand wet  REMARKS-  170-178 Shale  178-183 Sand wet  83-184 Shale  36-205 Sand wet  05-215 Shale  15-245 Sand wet  45-270 Shale			<u> </u>											V	N	
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SIGNED: ToolpusherCompany Supervisor				; \$	SIGN	I <b>FD:</b>	On.				,	Company Super	vi soi			

3513

# 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 Sec. 35 Twp 31 Rng 10
Name of Well/Wells or Pipeline Servi	cedATLANTIC C #1, #13, #201
	cps 2082w
Elevation 6390' Completion Date 1/23/89 Casing, Sizes, Types & Depths	Total Depth 300' Land Type* N/A
If Casing is cemented, show amounts	& types usedN/A
If Cement or Bentonite Plugs have been N/A	en placed, show depths & amounts used
Depths & thickness of water zones wi	th description of water when possible:  140' NO SAMPLE
Depths gas encountered: N/A	
Type & amount of coke breeze used:	N/A
Depths anodes placed: 285', 277', 269',	261', 250', 230', 165', 155'
Depths vent pipes placed: N/A	DECEMBER
Vent pipe perforations: N/A	Was a series with the series of the series o
Remarks: gb #4	MAY31/1991/ U
	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.

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

# WELL CASING CATHOLIC PROTECTION CONSTRUCTION REPORT DAILY LOG

Comp 1-27-89

Completion Date/-23-89 Drilling Log (Attach Hereto) CPS # Work Order Ins. Union Check 78 NW Atlantic Ø Good ☐ Bad 2082u 3188A 72" x60 Drilling Rig Time 00 Lost Circulation Mat'l Used Depth Drilled Anode Depth \*2170 x3285 #7250 #8230 in 5 269 #6261 " 9 165 " 10 155 \*1/80 Anode Output (Amps) i# 6 3 4 1, 9 3, 9 E 8 2.8 # 3 4.5 \*4 4.8 \*5 A.8 in 7 4. ( #15,2 # 10 Anode Depth # 18 # 14 # 15 # 16 # 17 # 19 # 13 Anode Output (Amps) # 18 # 19 # 20 # 11 # 12 # 13 # 15 # 17 No. 8 C.P. Cable Used No. 2 C.P. Cable Used Total Circuit Resistance 19.2 Ohms er soid water was at 140, no water wes faten. Drilled to 380' on first only logged to 240' loaded 140' of perforated vent pipe. Moved over 25' and drille hole with mud to 300, logged to 300 16 Rectifier Size: 40 All Construction Completed Addn'l Depth\_ Depth Credit: 200 340 24 Extra Cable:\_ Ditch & 1 Cable: 345 70 25 'Meter Pole: 20' Meter Pole: 10' Stub Pole: 15 8.50 Junction Box: コスケーロロ 4074.00 669.00 -700 001 81601 241.50 158.50 , 225.00/ 382W Released to Imaging:

The second control of the second control of

Mud Bran Lime Rock Bit Number A Make Remarks: Water 1 40  Driller A Driller	FROM TO FORMATION - COLOR - HARDNESS  O 40 Sand Charal  196 Sand Chara  200 Sand Sand  200 Sand  200 Sand	Drill No. 10  Drill No. 10  DRILLER'S WELL LOG  S. P. No. 201  Client B Hab Prospect  County B Hab State  County B Hab State  County B Hab State  and direction moved:
Mud Brom Lime Remarks: Make  Driller Maging: 2/23/2022 9:54:54 AM	FROM TO FORMATION - COLOR - HARDNESS  O 20 Send & Crayel  O 60 Send Charles  O 20 Send Charles  O 260 Send	Drill No. 10  Drill No. 10  Drill No. 10  Drill No. 10  Drill LER'S WEIL LOG  At Han 41'C C Date 1-23-89  Client 20  Client 20  Prospect  County At Hole  State  State  and direction moved:



### 30-045- 22977

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS

NORTHWESTERN NEW MEXICO

(Submit 3 copies to OCD Aztec Office)

Operator MERIDIAN OIL	Location: Unit SE Sec. 34 Twp 31 Rng 10
Name of Well/Wells or Pipeline Se	rviced ATLANTIC B #9A
· · · · · · · · · · · · · · · · · · ·	cps 1449w
Elevation 6278 Completion Date 7/9	/79 Total Depth 370' Land Type* N/A
Casing, Sizes, Types & Depths	N/A
If Casing is cemented, show amoun	ts & types usedN/A
If Cement or Bentonite Plugs have	been placed, show depths & amounts used
Depths & thickness of water zones	
Depths & thickness of water zones Fresh, Clear, Salty, Sulphur, Etc	- 140' SAMPLE TAKEN
Depths & thickness of water zones  Fresh, Clear, Salty, Sulphur, Etc  Depths gas encountered: N/A	• 140' SAMPLE TAKEN
	. 140' SAMPLE TAKEN  : 48 SACKS  O', 310', 295', 280', 240', 230' 220 210'
Depths & thickness of water zones  Fresh, Clear, Salty, Sulphur, Etc  Depths gas encountered: N/A  Type & amount of coke breeze used	- 140' SAMPLE TAKEN  : 48 SACKS  0', 310', 295', 280', 240', 230', 220', 210'
Depths & thickness of water zones  Fresh, Clear, Salty, Sulphur, Etc  Depths gas encountered: N/A  Type & amount of coke breeze used  Depths anodes placed: 340', 330', 32	- 140' SAMPLE TAKEN  : 48 SACKS  0', 310', 295', 280', 240', 230', 220', 210'
Depths & thickness of water zones  Fresh, Clear, Salty, Sulphur, Etc  Depths gas encountered: N/A  Type & amount of coke breeze used  Depths anodes placed: 340', 330', 32  Depths vent pipes placed: 370	: 48 SACKS 0', 310', 295', 280', 240', 230', 220', 210'  MAY 3 1 1991

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.

<sup>\*</sup>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

Completion Date 7-9-79 Drilling Log (Attach Hereto). CONTRACT #2 CPS No. SE 34-31-10 1449W Type & Size Bit Used
6 3/4 Work Order No. 10-2"X60" DURIRON 57327-2 Circulation Mat'l Used Total Drilling Rig Time # 2 330 # 3 **320** # 4 310 # 5 295 # 6 280 # 7 240 # 8 230 # 9 220 |# 10 210 # 1 **3.0** # 4 **3.4** . # 6 2.0 1#-7-1.9 ± 8 2.6 # 9 2.6 Anode Depth Anode Output (Amps) Total Circuit Resistance Amps /3.3 Ohms 0.90 Remarks: StAtic GOO'NW=0.82. DRiller SAIDWATOR @140'. 4 GALS PER MIN. INSTAlled 370'051"PUC VENT Pipe, PERSORATED 260'051"PUE VENT Pip Sluppyed 48 SACKS of COKC. 40-16 RectificR. EXTRA CAble = 250 Stub Pole Ditch & I CAble : 383' Hole: CRedit = -130' All Construction Completed GROUND BED LAYOUT SKETCH 111 DISTRIBUTION: WHITE - Division Corrosion Office YELLOW - Area Corrosion Office PINK - Originator File

DRILLING DEPARTMENT DAILY DRILLING REPORT WELL NO. RIG NO. REPORT NO. MORNING DAYLIGHT EVENING . Driller Total Men In Crew Driller Total Men In Crew Driller Total Men In Crew FROM FORMATION WT-BIT R.P.M. FROM FORMATION WT-BIT R.P.M. FROM то FORMATION WT-BIT R.P.M. NO. DC\_\_\_\_SIZE\_\_\_\_LENG.\_\_ NO. DC\_\_\_\_SIZE\_\_\_\_LENG.\_\_ NO. DC \_\_\_\_ SIZE \_\_\_\_ LENG. BIT NO. BIT NO. BIT, "O. NO. DC\_\_\_\_SIZE\_\_ NO. DC\_ SIZE LENG. NO. DC\_\_\_\_SIZE \_\_\_\_ LENG.\_ SERIAL NO. STANDS SERIAL NO. STANDS SER \_ NO. STANDS SIZE SINGLES SIZE SINGLES SINGLES SIZE DOWN ON KELLY DOWN ON KELLY TYPE DOWN ON KELLY TYPE TYPE MAKE TOTAL DEPTH MAKE TOTAL DEPTH MAKE TOTAL DEPTH MUD RECORD MUD, ADDITIVES USED AND RECEIVED MUD RECORD MUD, ADDITIVES USED AND RECEIVED MUD RECORD MUD, ADDITIVES USED AND RECEIVED Wt. Vis. Time Vis. Wt. Vis. Time 马和杨龙 TIME BREAKDOWN TIME BREAKDOWN TIME BREAKDOWN FROM REMARKS -REMARKS -REMARKS ~ SIGNED: Toolpusher OBusut

### El Paso Natural Gas Company ENGINEERING CALCULATION

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÷ \	Atlantic B#9-A	1449W Contract#		4-31-10	5732	7-21
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	404 16A Rootifica					
	5-146.00/0	-	Instalised 370	105111PUCU	ent Pipe	
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# EL PASO NATURAL GAS COMPANY SAN JUAN DIVISION FARMINGTON, NEW MEXICO PRODUCTION DEPARTMENT WATER ANALYSIS

Analysis No. 1-9	0622	Date_	7-11-7	9	
Operator EPN	Well	Name_	ATLANT	CIC B #9A	
Location SE 34-3	31-10 County	SAN	JUAN	_State	1771
Field	Form	ation_		· · · · · · · · · · · · · · · · · · ·	
Sampled From CPS	1449 W 140'	·····			
Date Sampled		Ву			
Tbg. Press.	Csg. Press.		S		
ppm	_epm			PPm .	
Sodium 161			Chloride	28	1
Calcium 616	31		Bicarbonat	e 161	3
Hagnesium 47	4		Sulfate	1850	38
Iron PRESENT		-	Carbonate_	0	0
H <sub>2</sub> S ABSENT	***************************************		Hydroxide_	0	0
cc: D.C.Adams R.A.Ullrich E.R.Paulek	•		• •	ds Dissolv	ed <u>3308</u>
J.W.McCarthy A.M.Smith W.B.Shropshire			Sp. Gr	1.0039 at	60°F
File			Resistivit	y 300 ohm	-cm at 74 °F
C. B. O'Nan				Cherl Te	million mil
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Received by OCD: 1/20/2022 8:03:03 AM 9=30-045-10072 126=30-045-23044 120-30-045-27148

4299

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

Operator	MERIDIAN OIL	Location:	Unit SW Sec. 34	Twp31_Rng10
Name of We	ll/Wells or Pipeline Servi	ced <u>ATLANT</u>	IC B #9, #26,	
	ATLANTIC B COM #220			cps 372w
Elevation_6	5192'Completion Date 10/17/74	Total Dep	oth 260' Land	Type* N/A
Casing, Si	zes, Types & Depths <u>N/A</u>			
If Casing	is cemented, show amounts	& types use	ed N/A	
If Cement	or Bentonite Plugs have be	en placed,	show depths &	amounts used
Depths & th	hickness of water zones wi	th descript	cion of water	when possible:
Fresh, Cle	ar, Salty, Sulphur, Etc	N/A 40' FI	M =	ש
Depths gas	encountered: N/A		MAY 31	
	unt of coke breeze used:			1.3
Depths ano	des placed: 245', 235', 220',	210', 200',	190 4, 180', 130'	, 120', 110'
Depths vent	t pipes placed: N/A			
Vent pipe p	perforations: 210'			
Remarks: <u>Eg</u> l	#2 FIRST HOLE (240') HIT GAS	POCKET. RIG	BURNED DOWN.	
		_		

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.

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

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

WELL CASING

CATHODIC PROTECTION CONSTRUCTION REPORT

DAILY LOG

Drilling Log (Attach Hereto).

Type & Size	KAN Bit Used		<u>"</u>		000	1-3/N	- 10 W	Work Order	72 W 73 O K	· · · · · · · · · · · · · · · · · · ·
Anode Hole D	epth ,	Т	otal Drilling Ri	g Time To	tal Lbs. Coke Us	sed Lost Circ	ulation Mat'l Us	ed No. Sacks N	Mud Used	
Anode Depth		191	42.0	414	4.04	10-	100			
‡ 1 2 4 5	# 2	157	# 3 <b>220</b>	# 4 2/0	# 5 200	= 6 <b>/ 40</b>	#7/80	= 8 130	= 9 /20	# 10 <b>]   0</b>
Anode Output # 1 <b>1.0</b>	`	1.9	#3 1.8	# 4 2.4	# 5 <b>3.0</b>	# 6 4.2	#7 1.7	= 8 2.1	#9 5.0	# 10 3.6
Anode Depth	<del>-</del>			1	1	1	1	1	<del>-</del>	
<i>t</i> 11	# 12		# 13	# 14	# 15	# 16	<b>#</b> 17	<b>#</b> 18	# 19	<b>#</b> 20
Anode Output	(Amps)	. • .		<del> </del>	<del> </del>	<del> </del>	1		1	<del>                                     </del>
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Remarks: Hole = 1 Drilled with Air To 240 Hit 623 POCKET Rig BUYNED DOWN Oriller soid Water @ 40' To 60' ON Hole #1 prilled Hole NO. 2 WITH MUD. VENT HOSE PERFORATED 210

- Gue Bil IA

All Construction Completed

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(dBed#1

GROUND BED LAYOUT SKETCH

Received by OCD: 1/20/202258:03:03 AM

## EL PASO NATURAL GAS COMPANY ENGINEERING DEPARTMENT

Sheet Page 07 of 179

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### -STORM WATER WELL DRILLING INC.

DIAMOND CORE DRILLING
DIAMOND DRILLING EQUIPMENT
SECUTING
POUNDATION TESTING
MINING
QUARRYING
SHAFT SINKING

Drill.

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

GENERAL OFFICE

BAILEY OFFICE SALL 1-838-4821

WATER WELL DRILLING

MINING

SHAFT SINKING

WATER WELL DRILLING

AD

D

MINING

HOLE (303) 270-9303

HOLE AT

3 72 W

Date 10-17-74

Owner \_\_\_\_\_\_

Location AZTEC

\_State \_\_\_\_\_\_County \_\_\_\_\_

From	То	Formation	Color	Hardness
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Total Hours

Equipment Down Time

Hours Drilling

Driller

Helper

C.P.S. Time \_\_\_\_\_

S.W.W.D.I. Time \_\_\_\_\_

Total Footage \_\_\_\_\_

Approval of C.P.S. Engineer \_\_\_\_\_

Helper

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

Operator TENNECO Location: Unit NW Sec. 3 Twp 30 Rng 10
Name of Well/Wells or Pipeline Serviced ATLANTIC B #8A
cps 1448w
Elevation 6296 Completion Date 7/6/79 Total Depth 360 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. 120' SAMPLE TAKEN
Depths gas encountered: N/A
Type & amount of coke breeze used: 44 SACKS
Depths anodes placed: 320', 310', 300', 290', 280', 270', 260', 250', 240', 230'
Depths vent pipes placed: 350'
Vent pipe perforations: 260'
W WAS 1 221
Remarks: gb #1 NOT A MERIDIAN WELL.  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.

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

WELL CASING

CATH	IODIC	PROT	ECTION	CONS	TRUC	TIC:	ON"R	EP	OR	Ţ
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Drilling Log (Attach Here	to) <b>C</b> (	D NTRACT	DAILY	e spt	gwa De s	ompletion Da	e <b>7-6</b>	79
Well Name ATANT	CB#8				•	CPS No.	1448h	
	6314					Work Order	<u> </u>	
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Anode Depth # 2 3/7	3 00	# 4 290	# 5 <b>280</b>	#6270	# 7 <b>260</b>	#8 250	# 9 2 40	# 10 <b>2</b> 3
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	#713	# 14	#:155. <sup>25</sup>	# 16		#18.2	# 19	#:20
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DISTRIBUTION:

WHITE - Division Corrosion Office YELLOW - Area Corrosion Office

PINK – Originator File

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# EL PASO NATURAL GAS COMPANY SAN JUAN DIVISION

# PRODUCTION DEPARTMENT WATER ANALYSIS

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DRILLING DEPARTMENT

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### 30-045- 22996

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

OperatorTENNECO	Location: Unit NW Sec. 34 Twp 31 Rng 10
Name of Well/Wells or Pipeline Servi	ced ATLANTIC B #7A
	cps 1447w_
Elevation 6243'Completion Date 7/6/79	Total Depth 400' Land Type* N/A
Casing, Sizes, Types & Depths	N/A
If Casing is cemented, show amounts	& types usedN/A
If Cement or Bentonite Plugs have be	en placed, show depths & amounts used
Depths & thickness of water zones wi	th description of water when possible:
Fresh, Clear, Salty, Sulphur, Etc	81' - 155' SAMPLE TAKEN
Depths gas encountered: N/A	
Type & amount of coke breeze used:	51 SACKS
Depths anodes placed: 385', 375', 365',	355', 345', 335', 325', 315', 305', 275'
Depths vent pipes placed: 400'	<b>DECEIAE</b>
Vent pipe perforations: 280'	MAY 31 1991
Remarks: gb #1 NOT A MERIDIAN WELL.	OIL CON. DIV.)
	DIST. 3

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

WELL CASING

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Type & Size Bit Used		NW 34-				Valido
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GROUND BED LAYOUT SKETCH

115'

DISTRIBUTION:

WHITE - Division Corrosion Office YELLOW - Area Corrosion Office

PINK - Originator File

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

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Operator E	PNG We	11 Name_	ATLANTIC	В #7А		•
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Received by OCD:  $1/20/202248:03:03 \pm 18 = 30-045-22780$ 

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

Operator TENNECO	Location: UnitNE Sec 34 Twp31 Rng10
Name of Well/Wells or Pipeline Service	ed ATLANTIC B #7, #18
	cps 336w
Elevation6298' Completion Date5/16/72	Total Depth 300' Land Type* N/A
Casing, Sizes, Types & Depths N/A	
If Casing is cemented, show amounts &	types usedN/A
If Cement or Bentonite Plugs have been	n placed, show depths & amounts used
Depths & thickness of water zones with Fresh, Clear, Salty, Sulphur, Etc	A CARIUPA
Depths gas encountered: N/A	
Type & amount of coke breeze used:	5900 lbs. DIST. 3
Depths anodes placed: 260', 250', 225',	215', 205', 175', 155', 140', 130', 120'
Depths vent pipes placed: N/A	
Vent pipe perforations: 260'	· · · · · · · · · · · · · · · · · · ·
Remarks: <u>Gb #2</u> not a MERIDIAN well	<u>-                                      </u>

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

Form 7-238 (Rev. 1-69)

## WELL CASING CATHODIC PROTECTION CONSTRUCTION REPORT DAILY LOG

T John D

Drilling Log (Attach Hereto).

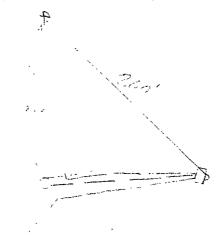
Completion Date <u>5-16-72</u>

Well Name / Location   Location   VE34-3)-10   CPS No.   335 W												
Type & Size Bit Used 63/4 Work Order No. 184-52115-50-20												
node Hole Depth    Total Drilling Rig Time   Total Lbs. Coke Used   Lost Circulation Mat/1 Used   No. Sacks Mud Us												
Anode Depth = 2 250	# 3 225	= 4 215	* 5 205	= 6 175	=7155	= 814D	= 9 130	# 10 12D				
Anode Output (Amps)	#33.2	= 4 3. °C	= 5 2.8	± 6 Z.9	=74,5	= 85,7	±95.8	# 10 513				
	# 13	# 14	# 15	# 16	± 17	# 18	# 19	<b># 20</b>				
Anode Output (Amps) # 11 # 12	# 13	   <b>=</b> 14	# 15	¦ # 16	  ≈ 17	i  ≈ 18	# 19	# 20				
		Ohms /		No. 8 C.P. Cat	ole Used		No. 2 C.P. Ca	ole Used				
Remarks:	Sola 13	inter of	1 120%	Drill )	with a	ir-51	oped I	rilling				
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Place Water Level Mas Below 140;												
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All Construction Completed

Harris - Include

GROUND BED LAYOUT SKETCH



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## EL PASO NATURAL GAS COMPANY ENGINEERING DEPARTMENT

Sheet Page 81 of 179

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								TIME BREAKDOWN			A	TOTAL DEPTH	DOWN ON KELLY	SINGLES	STANDS	NO. DCSIZE	NO. DCSIZE					FORMATION	Total Men In Crew	NG	DATE 5-/6	DAILY DRILLING REPORT
											D RECEIVED					LENG.	LENG.					T-81T			19/2	

6 - 30-045-10047 20 - 30-045-23496

4297

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

Operator TENNECO Location: UnitSW Sec.	33 Twp31 Rng10
Name of Well/Wells or Pipeline Serviced ATLANTIC B #6, #2	0
	cps 371w
Elevation 6294' Completion Date 11/5/76 Total Depth 292' La	and 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	s & amounts used
Depths & thickness of water zones with description of water	er when possible:
Fresh, Clear, Salty, Sulphur, Etc. 90'	
m se	EIVEM
Depths gas encountered: N/A	1111
Type & amount of coke breeze used: 48 SACKS OIL CO	31 1991
Depths anodes placed: 275', 265', 255', 185', 175'	
Depths vent pipes placed: N/A	
Vent pipe perforations: 185'	
Remarks: gb #2 not a MERIDIAN well.	

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

Form 7-238 (Rev. 1-69)

WELL CASING

CATHODIC PROTECTION CONSTRUCTION REPORT

DAILY LOG

Drilling Log (Attach Hereto).

Completion Date

	<u>.</u>							withing a post of the state of
Well Name  ATLAN	1c. B#6	Lo	SW 3	3-31-	-10	CPS No.	710	
Type & Size Bit Used			<u> </u>	<u></u>		Work Ord	er No.	
Anode Hole Depth	Total Drilling	Rig Time	Total Lbs. Coke		Circulation Mat	'l Used No. Sack	<del></del>	
Anode Depth	265   3 255	# 4 \$ 85	# 135	, I ¦# 6	# 7	# 8	#9	#:10
Anode Output (Amps) # 1 2 # 2		# 43.4	# 5 <b>3.9</b>	1# 6	# 7	I# 8	#9	# 10"
Anode Depth # 11 # 12	# 13	# 14	<b>#</b> 15	# 16	# 17	# 18	# 19	# 20
Anode Output (Amps) # 11	1	# 14	# 15	# 16	# 17	# 18	# 19	# 20
Total Circuit Resista	Amps 10	Ohms	1-12	No. 8 C.P	. Cable Used	-	No. 2 C.P.:c	able Used
			,				ر <b>4</b> ردي	with the special property

Remarks: DRILLER SAID WATER @ 105"

Vent Perf. 185"

SLUBRY HB SACKS

All Construction Completed

2,593.70 288,00 Cole

**GROUND BED LAYOUT SKETCH** 

213.40 INSP. 50,00 Misc.

Original & 1 Copy All Reports

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16.04 C <sub>1</sub> 6.4 30.07 C <sub>2</sub> 10.12	20	1:0							1		1	. ,				eg o le	4	
44.10 C3 10.42		1.0			*****	**********						,		:				<b>E</b>
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86.18 iC <sub>6</sub> 15.50	40	10	3 P	'		,	The state of the s	,				1	,		,			<b>*</b>
86.18 C <sub>6</sub> 15.57 100.21 iC <sub>7</sub> 17.2		์ ร	1 ,			,	1	1	: 1		<u> </u>	1	,	i ;	٠,	٠, ١	治器	
100.21 C7 17.46	10	6		PARTIE AND AND AND AND AND AND AND AND AND AND	PERSONAL LINES AND	1					-					- * * * * * * * * * * * * * * * * * * *	SE	個性

C8 19.39 C2 9.64 C3 9.67 28.05 42.08 . .

114.23

MW	MISC. gal	s/mol
32.00	02	3.37
28.01	co	4.19
44.01	CO <sub>2</sub>	6.38
64 06	SO <sub>2</sub>	5.50
34.08	H <sub>2</sub> S	5.17
28.01	N <sub>2</sub>	4.16
2.02	H <sub>2</sub>	3.38

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SIGNED: Toolpusher

Company Supervisor

### 30-045- 22994

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

Operator_TENNECO	Location: Unit NW Sec. 33 Twp 31 Rng 10
Name of Well/Wells or Pipeline Service	edATLANTIC B #6A
	cps 1446w
Elevation 6167 Completion Date 7/12/79	Total Depth 300' 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	·
Depths & thickness of water zones with	h description of water when possible:
Fresh, Clear, Salty, Sulphur, Etc	SAMPLE TAKENED
Depths gas encountered: N/A	MAY 31 1991
Type & amount of coke breeze used:	OIL CON. DIV.
Depths anodes placed: 270', 260', 245', 23	
Depths vent pipes placed: 300'	
Vent pipe perforations: 200'	
Remarks: gb #1 NOT A MERIDIAN WELL.	FIRST HOLE(300') CAVED. LOST 2 ANODES
AND 300' OF VENT PIPE.	

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

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

#### WELL CASING CATHODIC PROTECTION CONSTRUCTION REPORT

Drilling Log (Attach Here	to).	CON THAC	7 2	2 X6	o Duriou	Completion Dat	te <b>7/12</b> ,	/79
Well Name ATLANTIC	B #64	Loce				CPS No.	446 4	/
Type & Size Bit Used	34"					Work Order	No. <b>25 -2</b> ]	
Anode Hole Depth 300 7. D. 300	Total Drilling F	, , ,	19 SACK		rculation Mat'l U			
Anode Depth # 1 2 7 0 # 2 260	# 3 245	4230	# 5 <b>2 2 0</b>	# 6 <b>Z</b> 10	# 7 200°	#8/90	#9/45	# 10 /35
# 1 2. 3 # 2 2.9	#81.4	# 4 1.9	# 5 2.5	#64,0	# 7 · <b>4.</b> 2	#8 3. 2	#93.5	- # 10 <b>3.9</b>
Anode Depth # 11 /20 # 12	# 13	# 14	# 15	# 16	# 17	# 18	# 19	# 20
# 11 <b>2.6</b> # 12	# 13	# 14	# 15	# 16	# 17	# 18	# 19	# 20
Total Circuit Resistance Volts //. 8 / Ar	nps / <b>3</b> .7	A Ohms	. 86	No. 8 C.P. Co	able Used		No. 2 C.P. C	able Used
Remarks: STATIC	600 N	=.96 V	Dr	12ter	said w	A Ter A	T 100'	Approx.

10-15 gAL/MIN. Prifled To 300. Logged 300. INSTALLED 200' of 1 P.V.C. VENT Pipe, PerferATed 200. HAD A Bridge ABore \*3 Anode, INSTALLED "11 Anode TO REPLACE . T.

PITCH 41 CABLE = 151 exTrA LAble = 96' Hole DepTh -200'

All Construction Completed

GROUND BED LAYOUT SKETCH

Pole + 40VIGA Red>

### ATLANTIC B = 6A

م	P	2	 14	4	6	W
			 		_	

Aprox 10-15-gAL, /MIN.

MW	ga	ls/mol
16 04	C <sub>1</sub>	6 4
30.07	C <sub>2</sub>	10 12
44.10	Сз	10.42
58.12	ıC4	12.38
58.12	nC4	11.93
72.15	1C5	13 85
72.15	nC5	13.71
86.18	ıC6	15.50
86.18	C <sub>6</sub>	15.57
100 21	ıC7	17 2
100.21	C7	17.46
114.23	C <sub>8</sub>	19.39
28.05	C2 <sup>:</sup>	9.64
42.08	C3:	9.67

/00-	-	
10 -	-	
-	2.0.	
30-		-
	2.1 - 2.3	- <b>(3</b> )
<u>۔ یہ ح</u>	2.2 =	- <i>(</i> <b>9</b> )

10 - 2,0	Drilled To 300: Logged 300'. 1115 TALLED 300' of 1" PUC. VENT Pipe, Perfer A Ted 200'.
20 - 2.0	HAD A Bridge ABOVE #3  ANOde. INSTALLED 11 AMODE  TO REPLACE IT.
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1,5 ° 60 - 1,3	7/12/29 H 20 Hrs TO TAL
1.0 809 1.0 90-2.0-8	
2.8: 200-2,8-6 2.7	1-270-1.9-2.3 2-260-24-29 3-245-1.5-1.4
10-2,5-6 20-1,7-8	4-230-1.6 -1.9 5-220-22-25 6-210-3.4-4.0 7-200-4.0-4.2
30-1.6-9 1.3 40-1.4 14-3	8-190-25-3.2 9-145-2.4-3.5 10-125-3.0-3.9 11=120-2.5-2.6
50-1.3 50-2.0-3	,. ,
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2-260-24-2		
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5220-22 0-22 min 22 m		
6-2,0-3,1-4. 7-200-4,0-4.		
1-190-25-3.	2	
9-145-24-3. 10-125-3.0-3.5		
11=120-2.5-2.6	_	· V - yell hay nathodolog com

Date:
By:

### ATLANTIC B 6A

-		AILAMI C B	
	CPS-1446 W	NW 33-31-10	W.O. 57325-21
	100-,7	Driller 100: PA	rilled To 280' AML
MW gals/mol 16.04 C <sub>1</sub> 6.4 30.07 C <sub>2</sub> 10.12	10-,6		d. oft. Drilled To Logged, 300 MAKCING 15-120 GAL/MIN
44.10     C3     10.42       58.12     iC4     12.38       58.12     nC4     11.93	20—, 8	IASTAL. VCNT	Pipes Perfer ATEd 2002
72.15: iC5 13.85 72.15: nC5 13.71 86.18: iC6 15.50 86.18: C6 15.57	30-1.0 		ed cokeing. Hole
100.21 IC7 17 2 100.21 C7 17.46 114.23 C8 19.39 28.05 C2 9.64	50 1, 7	ANode	hoke.
42.08 C3 9.67	60 - 1.2	Moved	Rig +577H7ed
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### EL PASO NATURAL GAS COMPANY

### SAN JUAN DIVISION

### FARMINGTON, NEW MEXICO

### PRODUCTION DEPARTMENT WATER ANALYSIS

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Will Replease	DRILLING DEPARTME
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#### 30-045-22522

## 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. 2 Twp 30	0 Rng 10
Name of Well/Wells or Pipeline Serviced ATLANTIC D COM D #5A	
cps 1209	9w
Elevation N/A Completion Date 6/22/78 Total Depth 420' Land Type*	N/A
Casing, Sizes, Types & DepthsN/A	
If Casing is cemented, show amounts & types usedN/A	-
If Cement or Bentonite Plugs have been placed, show depths & amoun	ts used
Depths & thickness of water zones with description of water when p Fresh, Clear, Salty, Sulphur, Etc. DAMP AT 120' WATER AT 145'	
Depths gas encountered: N/A	
Type & amount of coke breeze used: N/A	
Depths anodes placed: 385', 375', 360', 350', 340', 315', 250', 240', 230',	210'
Depths vent pipes placed: N/A	
Vent pipe perforations: N/A	
Remarks: gb #1	
CON: BITE	

<sup>\*</sup>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 PAILY LOG

						1 1	1. 78
Drilling Log (Attach Hereto).				Co	ompletion Date	<u>6-1</u>	2-78
Well Arme ATLANTIC Com D Type & Size Bit Used	#SA-ocat	Nu	12-3	0-10		2090	
1 ype & Size Bit Used 6 3/4"					Work Order!	191-2	1
Anode Hole Depth Total Drilling Rig	Time Tota	al Lbs. Coke Us	ed Lost Circu	lation Mat'l Us	ed No. Sacks M	ud Used	
= 1 385 = 2 375 = 360	= 4 <b>350</b>	= 5340	76 31S	= 7 250	= 8 240	= 9 230	# 10 <b>2 / 0</b>
Anode Output (Amps) # 1 3, 7 # 2 4.2 # 3 4-8	# 4 4.6	= 5 3.6	≈ 6 <b>3.0</b>	z-7- 2.6	* 8 2.5	#9 <b>Z.7</b>	# 10 <b>3.4</b> .
Anode Depth # 12 # 13	i I	' 	# 16	‡ 17	÷ 18	# 19	# 20
Anode Output (Amps) # 11 # 12 # 13	i  ≈ 14	¦ ¦≉_15		 	i ≈ 18	# 19	# 20 ·
Total Circuit Resistance Volts Amps /0.2	Ohms	93	No. 8 C.P. Cabi	le Used	,	No. 2 C.P. Cal	ole Used
Remarks: STATIC = 6	00'5E	- 90					
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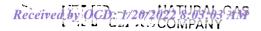
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EL PASO NATURAL GAS COMPANY
DRILLING DEPARTMENT

Atlantic #5A

#### DAILY DRILLING REPORT

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HISTORY F, ge 97 of 179

#### SAN JUAN DIVISION LABORATORY

ANALYSIS NO. 1-9230 DATE COMPLETED 7-6-78

WELL NAME	LOCATION S T R	DATE	GAL./ - DAY	PPM T.D.S.	pН	PPM CHLORIDES	PP11 SULFA
ones A #1A MV	10-28-8	6-20	24	7452	7.0	4320	7840
lones A #1A PC	10-28-8	6-20	1	39	6.8	13	1000
lughes #4A	20-29-8	6-20	54	6858	7.2	4830	1280
ay A #5A	18-29-8	6-20	38	7632	7.1	6320	2500
ay #1A	17-29-8	6-20	80	6670	7.4	6390	500
ay A #1A	17-29-8	6-20	106	7527	7.4	7170	1000
ay #3A	18-29-8	6-20	42	6913	6.7	7170	1000
ay A #2A	7-29-8	6-20	96	5887	7.6	6320	64
1 Paso #1A	20-29-9	6-17	8	9493	6.8	6745	7080
ansfield #2A /241-V/	19-30-9	6-19		1019	7.3	24	1520
uigley #1A 1275W	6-30-9	6-19		430	7.1	20	600
lorance #2A 1220W	21-30-9	6-19		1373	7.3	16	2520
an Juan #11A 1252W	11-30-10	- 6-19		636	6.4	24	800
un Ray A #1A 1263W	15-30-10	6-19		210	6.2	8 .	600
tlantic D Com #5A 1209W	12-30-10	6-19		1493	6.6	16	3000
ernaghan #4A 1237W	30-31-8	6-19		432	7.3	12	600
ernaghan #2A 1235W	28-31-8	6-19		190	7.2	16	680
ernaghan #1A 1234W	33-31-8	6-19		571	6.9	32	800
alker 1A 1271W	31-31-9	6-19		1664	7.0	32	3520
tlantic A #8A 1199W	29-31-10	6-19		2637	7.1	152	5560
tlantic "C" 4A 1200W	31-31-10	6-19		6720	7.7	504	9800
cott #4A 1258W	17-31-10	6-19		4506	7.0	186	7760
rookhaven Com A-1 1212W	16-31-10	6-19		3979	6.7	270	6920

· 5-30-045-09857 16-30-045-21333

4/920

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

Operator MERIDIAN OIL Location: Unit SW Sec. 2 Twp 30 Rng 10
Name of Well/Wells or Pipeline Serviced ATLANTIC D COM D #5. ATLANTIC D
COM_O #16cps_326w
Elevation 6464' Completion Date 11/7/73 Total Depth 360' 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. WATER STANDING AT 170' AFTER 12 HRS.
Depths gas encountered: N/A
Type & amount of coke breeze used: 6200 lbs.
Depths anodes placed: 340', 310', 265', 255', 245', 235', 225', 215', 205', 190'
Depths vent pipes placed: N/A
Vent pipe perforations: 230' DECEIVE
Remarks: qb_#2 MAY31 1991
OIL CON, DIV

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

O Ed Bel # 1

## EL PASO NATURAL GAS COMPANY ENGINEERING DEPARTMENT

Sheet Page 900 of 179

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Company Supervisor

SIGNED: Toolpusher \_\_\_

EL PASO NATURAL GAS COMPANY

Form 22-2 (Rev. 1-61)

DRILLING DEP ARTMENT

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

(Submit 3 copies to OCD Aztec Office)

Operator MERIDIAN OIL	Location: Unit SE Sec. 3 Twp 30 Rng 10
Name of Well/Wells or Pipeline Servi	ced KOCK #1A
	cps 1498w
Elevation 6464 Completion Date 9/18/80	Total Depth 420' Land Type* N/A
Casing, Sizes, Types & Depths	N/A
If Casing is cemented, show amounts	& types used N/A
If Cement or Bentonite Plugs have be	en placed, show depths & amounts used
Depths & thickness of water zones wi	th description of water when possible:
Fresh, Clear, Salty, Sulphur, Etc	160'
Depths gas encountered: N/A	
Type & amount of coke breeze used:	4000 lbs.
Depths anodes placed: 375', 365', 355',	345', 335', 325', 315', 305', 295'
Depths vent pipes placed: 400'	
Vent pipe perforations: 280'	DECEIW? - N
Remarks: gb #1, 96#2	MAY 3 1 1994 U
' U	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.

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS

NORTHWESTERN NEW MEXICO

(Submit 3 copies to OCD Aztec Office)

Operator MERIDIAN OIL	Location: Unit SE Sec. 3 Twp 30 Rng 10
Name of Well/Wells or Pipeline Serv	icedKOCH #1A
	cps 1498w
Elevation 64641 Completion Date 9/18/8	O Total Depth 180' Land Type* N/A
Casing, Sizes, Types & Depths	N/A
If Casing is cemented, show amounts	& types usedN/A
If Cement or Bentonite Plugs have b	een placed, show depths & amounts used
Depths & thickness of water zones w	ith description of water when possible:
Fresh, Clear, Salty, Sulphur, Etc	
Depths gas encountered: N/A	j
Type & amount of coke breeze used:_	17 SACKS
Depths anodes placed: 160'	
Depths vent pipes placed: 180'	DECEIVED
Vent pipe perforations: 80'	MAYSPIAGO
Remarks: gb #2	Oil CON Die
	DIST. 3

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

### WELL CASING CATHODIC PROTECTION CONSTRUCTION REPORT DAILY LOG

Drilling Log (	(Attach Here:	to).	ı	2" × 6	0" Duriro	, C	Completion Do	te <b>7-10</b>	-00
Koch 1	*IA	- 1-1-1-1-1		5 E 3 - 3 0 - 1 (	D		149 2	ı ω	
Type & Size B	it Used Rock						Work Order <b>5773</b>		
Anode Hole De	pth	Total Drilling Ric	J Time T	otal Lbs. Coke U	sed Lost Circ	culation Mat'l U		<u> </u>	
Anode Depth							<u> </u>		110
Anode Output (		i .	1		≈ 6 <b>32</b> 5	= 7 <b>315</b>	= 8 <b>305</b>	24 <u>5</u>	≈ 10 <b>  LO</b>
= 1 <b>2.8</b> Anode Depth	# 2 <b>2.9</b>	# 3 <b>2.6</b>	= 4 3.1	= 5 <i>5.</i> 2	<i>⊭</i> 6 <b>3. 4</b>	# 7.5.7	* 5.0	= 9 4.6	≈ 10 <b>2.7</b>
= 11	# 12	‡ 13	# 14	# 15	# 16	z 17	z= 18	# 19	# 20
Anode Output ( # 11	(Amps)	# 13	= 14	¦  ≉ 15	# 16	= 17	¦  ≈ 18	‡ 19	. 20
Total Circuit F		mps 18./		. 65	No. 8 C P Cal	ble Used		No. 2 C.P. Co	able Used
	<u> </u>								
		600 E = .7		•					
Driller	SAIDW	ATEPAT	60 por	ught wi	aterto a	BURFAL	e nexta	m. Drille	ed to
200' w	AITED	15min &c	Aught	WATER S	AMPLe	HUST (	PILLED	420 Lo	9 403
INST	400 Ve	NT 280	SERF.	HolecA	red whil	eLoad	ING AFT	R#9 Re	sponded
#10 wo	uld N	ot go IN	hole pr	45T /30'.	DRILLES	1 24d h	Le 180	Hit a KA	vel 120-13
BLEW DR	v lace	d water A	TISE IN	45 mid 1:	75'TD - 18	O VENT PIE	e-KO RORE	i. Sturrie	ed 175Ac
STUB PO		O WHICK IS	1 100 10	-10/m N 1	<u> </u>				
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## El Paso Natural Gas Company ENGINEERING CALCULATION

1498W Koch#1ASe 3-30-10-57738-21 ST&E=.77 wgood 9-(close OFFSET PC well drawing made spaine 1980)
A+LANTICB#23 ST 95 SE=.85 No union Not yet Tied in

MW	ga	ls/mol
16 04	C <sub>1</sub>	6 4
30.07	C <sub>2</sub>	10 12
44 10	С3	10 42
58 12	ıC4	12.38
58 12	nC4	11.93
72 15	ıC5	13 85
72.15	nC5	13 71
86 18	ıC6	15 50
86 18	C <sub>6</sub>	15 57
100.21	ıC7	17 2
100 21	C <sub>7</sub>	17 46
114 23	Св	19 39
28 05	C2 <sup>±</sup>	9 64
42 08	C3:	9 67

		7000	75   108 WD7074   1081   YET   11CW   11
	N 10.		DRILLER SAID WATER AT 160'
	JEW YELS	) IN WIN	CAUGHT WATERSAMPLE
	DENE SAD	chepe usmin	Orilled to 420' Logged 403' INST 400 FT OF CASING
1	Stoleter	0.	403 INST 400 FT OF CASING
140	3 40 a	1.2	with 280 Perf. Hole caved
	.3 .1	1.8 - 4	AT 133 FT AFTER #9 ANODE
50	.5 ,6 50	1.5	Responded could not get
	.7 ,8	1.5-3	#10 PASTIBBET 23 SACKSCOKE
(0	1.6 1.6 1.6	1.7	#1 DRILLED Second hole
. >4.7	THE PROPERTY OF A PROPERTY OF A SECOND STREET	17-2 m	25 FT OFFSET WATER ZONE
70	.6 .7 70	1.7	120 to 130' IN 9 FAULL Believed this is where FirsthoLecared
	.6 .6	1.7-1	this is where FIRSThoLe LAVE
80	16 , 80	1.0	DRILLED 180' Logged 176' INST 180' VENT Pipe With
	.5	,9	INSTIBO VENTPIPE WITH
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	.9 .9 10:	·	1+5 OWN WATER AFTER
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DRILLING DEPARTMENT

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

Analysis No. 1-10061	Date12-2-80	
Operator El Paso Natural Gas	Well Name Kock #1A	,
Location SE 3-30-10	County San Juan St	tate
Field Kutz	Formation	
Sampled From CPS 1498 W.@ 160'		
Date Sampled 9-9-80	ByRobert Bab	nick
Tbg. Press Csg	Surface Csg.	Press.
ppm epm Sodium 57 2.5	Chloride 28	epm 0.8
Calcium 408 20.4	Bicarbonate 137	2.3
Magnesium 56 4.6	Sulfate 1175	24.4
Iron	Carbonate 0	0
H <sub>2</sub> S	Hydroxide 0	0
cc: C.B. O'Nan	Total Solids Dissolved_	2204
R.A. Ullrich E.R. Paulek	рН8.0	,
J.W. McCarthy A.M. Smith	Sp. Gr9964 At	60°F
W.B. Shropshire D.C. Adams	Resistivity 400 oh	m-cm at 77 °F
File	Jennie 1	Pod
	Chemis	t AB
25 20 15 10 5	5 0 5 10	15 20 35
Na	5 10	15 20 25 C1 10
Ca		# # FCO, 10
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## DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS NORTHWESTERN NEW MEXICO (Submit 3 copies to OCD Aztec Office)

Operator MERIDIAN OIL L	ocation: UnitE Sec. 9 Twp 30Rng 10
Name of Well/Wells or Pipeline Service	d SUNRAY E #1A, #3
	cps 1470w
Elevation 6502 Completion Date 9/10/80	Total Depth 380' Land Type* N/A
Casing, Sizes, Types & Depths	N/A
<del></del>	
If Casing is cemented, show amounts &	types used <u>N/A</u>
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. 30	' SAMPLE TAKEN
Depths gas encountered: N/A	
Type & amount of coke breeze used:	
Depths anodes placed: 320', 310', 300', 29	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s
Depths vent pipes placed: 375'	
Vent pipe perforations: 360'	
Remarks: gb #1	OIL EON BIV.
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<sup>\*</sup>Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee. If Federal or Indian, add Lease Number.

### WELL CASING CATHODIC PROTECTION CONSTRUCTION REPORT DAILY LOG

Drilling Log (Attach Here	to).	(2	"X60" Þ	oution)	C	Completion Da	te	0/80
Well Name 5 UNRAY	E #1-A	Loca		-,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		CPS No.		
SUNBAY Type & Size Bit Used	E 23		SE 9	-30-10		/4	470 W	
Type & Size Bit Used	3/4"					Work Order	No. 5747/	
Anada Hala Danth	Total Drilling F	lig Time To	otal Lbs. Coke U	sed Lost Circ	culation Mat'l U	sed No. Sacks	<i>54843</i> Mud Used	- / /
380 7. D. 375			- <del></del>		<del></del>		1	<del></del>
Anode Depth # 1 320 # 2 3/0	,   , ,	# 4 270	-5280	1 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	7740	1 - 8 270	; , , , , , , , , , , , , , , , , , , ,	i 210
Anode Output (Amps)	# 3 <b>3 0 0</b>	1 4 2 70	1	1	1	1	i	1 10 2 7 9
#12.4 #22.4	# 3 3.0	# 4 3.1	# 5 <b>].</b> ]	#6 2.4	1=73.4	= 8 3, 4	₹9 <b>2</b> , 7	# 10 2, 4
Anode Depth # 11 # 12	# 13	# 14	# 15	# 16	# 17	;  # 18	# 19	! !# 20
Anode Output (Amps)	1			1			1	
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Total Circuit Resistance   Volts /2.2   A	mps / 3. 7	Ohms	.89	No. 8 C.P. Ca	pie Osea		No. 2 C.P. C	ible Used
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Remarks: <u>STATIE</u>	ON S	MURAY	E 1-A	600	w = .7	8 V INSU	LATEL L	INIONS OK
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# EL PASO NATURAL GAS COMPANY SAN JUAN DIVISION FARMINGTON, NEW MEXICO PRODUCTION DEPARTMENT WATER ANALYSIS

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Page 114 of 179

Received by OCD: 1/20/2022 8:03:03 AM 30-045-23164 #5 30-045-20852

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. 9 Twp 30 Rng 10
Name of Well/Wells or Pipeline Serv	iced SUNRAY E #2A, #5
	cps 1471w
Elevation 6346 Completion Date 9/9/80	Total Depth 340' Land Type* N/A
Casing, Sizes, Types & Depths	N/A
If Casing is cemented, show amounts	& types usedN/A
If Cement or Bentonite Plugs have be	een placed, show depths & amounts used
Depths & thickness of water zones wi	ith description of water when possible:
Fresh, Clear, Salty, Sulphur, Etc	90'
Depths gas encountered: N/A	
Type & amount of coke breeze used:	N/A
Depths anodes placed: 300', 260', 250',	240' 230 220', 210' 200', 190'
Depths vent pipes placed: 340'	DEGRIAR
Vent pipe perforations: 260'	MAY 9 1 1991
Remarks: gb #1	JIL CON, DIV.
NA E	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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Form 7-238 (Rev. 1-69)

#### WELL CASING CATHODIC PROTECTION CONSTRUCTION REPORT DAILY LOG

Drilling Log (Attach Hereto).	(2 × 60	" Purion	)	Completion Dat	e <u>9/9/</u>
Well Name SHAIRAY E 2 A SUHRAY E 5	Location	9-30-10		CPS No.	1471 W
Type & Size Bit Used ( 3/4  Anode Hole Depth / Total Drilling Rig			A Lorent Land	Work Order	No.57472 54943
3 +0 T. D. 3 + 0 Anode Depth					du Osed
# 1 300 # 2 260 # 3 250 Anode Output (Amps)		!	1	ł	=9 190
# 1	# 4 <b>5. 8</b>   # 5 <b>3</b>   # 15	# 16	= 7 <b>5.9</b>	= 8 5,4	# 19
Anode Output (Amps)	# 14 # 15	# 16	  ≈ 17	= 18	# 19
Total Circuit Resistance Volts //.9 Amps 23.6		No. 8 C.P. C	Cable Used		No. 2 C.P. Cabl-
Remarks: STATIC ON SUNTA	y E 2 A	600' E = .8	32 V ]	rusulate d	UNION C
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settle out used			_	_	
DITCH +1 dAble = 1	. /				ction Completed
extra cable = 13	· ¬		Λ	's É	
20 MeTer Loop pole	GROUND	BED LAYOUT SKE	тсн /	(Sig	mature)
10 Stub pole			E-2A	4 X1. Ry.	, 18h.
60 V 30 A Rec T. V	/	l	= *5	4 Nr. Ry.	1)tr. 0
Hole Depth - 160'V					

6346

Original & 1 Copy All Reports

DRILLING DEPARTMENT

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- •	SUNDAY E 2	A C.PS. # 147	1 W W.O. 57472-21
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30-045-09662

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

Operator MERIDIAN OIL Location: UnitSW Sec.9 Twp 30 Rng 10
Name of Well/Wells or Pipeline Serviced SUNRAY E #2
cps 256w
Elevation 6395' Completion Date 11/18/74 Total Depth 500' 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. N/A GORING
Fresh, Clear, Salty, Sulphur, Etc. N/A DECEMBER 1
Depths gas encountered: N/A MAY 31'1991
Type & amount of coke breeze used: N/A DIST. 3
Depths anodes placed: 345', 335', 325', 315', 280', 270', 260', 250', 240', 210'
Depths vent pipes placed: N/A
Vent pipe perforations: 340'
Remarks: gb #2 DRILLED TO 400' ON 8/13/74, WATER AT 130'. HOLE CAVED. MOVED BACK OVER
SAME HOLE 11/18. NO WATER. ONE ANODE AT 375' HOLE CAVED OR BRIDGE AT 360'. CONDEM ANODE.
If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included.
*Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee. If Federal or Indian, add Lease Number.

### WELL CASING CATHODIC PROTECTION CONSTRUCTION REPORT DAILY LOG

10 Completion Date 11-18-74

Drilling Log (Attach Hereto).

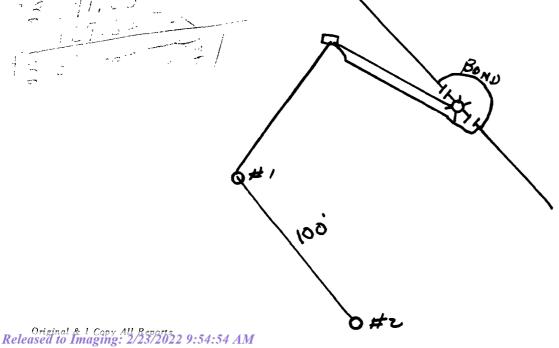
Well Name	ray 1	= #2		TW 9-3	0-10		CPS No.	256 u	)
Type & Size	Bit Used	3/4					Work Order	No. 3/30	
Anode Hole I	Depth <b>()</b>	Total Drilling R.	ig Time To	otal Lbs. Coke U	sed Lost Circ	culation Mat(1 U	<del></del>		
Anode Depth	<sub># 2</sub> 333	5 # 3 <b>325</b>	= 4315	= 5 <b>280</b>	= 6 Z 70	= 7 <b>Z60</b>	= 8 2 50	= 9 240	= 10 Z/
Anode Outpu		1		= 5 5.0	5.Z	± 7 <b>5.</b> ≥	· 8 <b>5 · 8</b>	= 9 <b>5.</b> 2	# 10 <b>4.</b>
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: 11	# 12	# 13	<b>‡</b> 14	‡ 15	<b>#</b> 16	<b>≈</b> 17	<b>≈</b> 18	# 19	‡≈ 20
Anode Outpu	(Amps)		:		1	1	1	1	
: 11	<b>≠</b> 12	# 13	= 14	± 15	<b>#</b> 16	= 17	≈ 18	# 19	= 20
Total Circui	Resistance		<del>'</del>		No. 8 C P. Ca	ble Usea		No. 2 C.P. Ca	ble Used

Remarks: Drilled to 400 p. 8-13-74, Driller said water at 130-150-Hole Coved, Rig on Next Location, Moved Back over Some hole 11-18-74, Bridge at 175' Nowater-Drilled With Mud to 500-Thin Down Mud With Pump Hose, one Anode at 375; Hole Coved or Bridge at 360, Could Not Get Anode Back or Pump Hose Down - Condem this Anode Vent Perforated 340 to Condemed Anode - Pump to 5' of Surface

GROUND BED LAYOUT SKETCH

#2.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00 · in = 12.00





### STORM WATER WELL DRILLING INC.

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

WATER WELL DRILLING

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

GENERAL OFFICE 14991 W. 44TH AVENUE

BAILEY OFFICE CALL 1-838-4821

Owner CP5 II 25 356 W  Location City State County  From To Formation Color Hardness  0 400 Refer To bell Took, Wash Hole Down From 175th 400 420 High Washed Stringer Med 420 440 Africe Blue to the med 440 450 Shale Blue to the med 450 460 Charle thank The med 460 500 Candy Stale Sheet Brown M  To Desplace Many  Total Hours  Equipment Down Time Hours Drilling Oritle I Rupp  Helper Helper Helper Helper Helper Helper Helper  Helper  CP.S. Engineer	Drill CP	650		Date //	1-18-74
Location City State County  From To Formation Color Hardness  0 400 Refer To Eld Park  400 Refer To Eld Park  400 Refer To Eld Park  400 Refer To Eld Park  400 Refer To Eld Park  400 Refer To Eld Park  400 Refer To Bright Medical Stringer  440 450 Refer To Bright Medical Shirt Brown Medical Shirt Brown Medical Shirt Brown Medical Shirt Brown Medical Shirt Brown Medical Shirt Brown Medical Shirt Brown Medical Shirt Brown Medical Shirt Brown Medical Shirt Brown Medical Shirt Brown Medical Shirt Brown Medical Shirt Brown Medical Shirt Brown Medical Shirt Brown Medical Shirt Brown Medical Shirt Brown Medical Shirt Brown Medical Shirt Brown Medical Shirt Brown Medical Shirt Brown Medical Shirt Brown Medical Shirt Brown Medical Shirt Brown Medical Shirt Brown Medical Shirt Brown Medical Shirt Brown Medical Shirt Brown Medical Shirt Brown Medical Shirt Brown Medical Shirt Brown Medical Shirt Brown Medical Shirt Brown Medical Shirt Brown Medical Shirt Brown Medical Shirt Brown Medical Shirt Brown Medical Shirt Brown Medical Shirt Brown Medical Shirt Brown Medical Shirt Brown Medical Shirt Brown Medical Shirt Brown Medical Shirt Brown Medical Shirt Brown Medical Shirt Brown Medical Shirt Brown Medical Shirt Brown Medical Shirt Brown Medical Shirt Brown Medical Shirt Brown Medical Shirt Brown Medical Shirt Brown Medical Shirt Brown Medical Shirt Brown Medical Shirt Brown Medical Shirt Brown Medical Shirt Brown Medical Shirt Brown Medical Shirt Brown Medical Shirt Brown Medical Shirt Brown Medical Shirt Brown Medical Shirt Brown Medical Shirt Brown Medical Shirt Brown Medical Shirt Brown Medical Shirt Brown Medical Shirt Brown Medical Shirt Brown Medical Shirt Brown Medical Shirt Brown Medical Shirt Brown Medical Shirt Brown Medical Shirt Brown Medical Shirt Brown Medical Shirt Brown Medical Shirt Brown Medical Shirt Brown Medical Shirt Brown Medical Shirt Brown Medical Shirt Brown Medical Shirt Brown Medical Shirt Brown Medical Shirt Brown Medical Shirt Brown Medical Shirt Brown Medical Shirt Brown Medical Shirt Brown Me	Owner	1P5 #	256 h	/	
From To Formation Color Hardness  0 400 Refer To the Ford  Wash Hole Down From 175th  400 420 Apple W Land Stringer Med  424 440 A 50 Ababe Blue + Typ med  450 460 Afabe Blue + Typ med  450 500 Anale Blue Tod. Med  From To Displace Med  To Displace Med  To Displace Med  To Displace Med  To Displace Med  Total Hours  Equipment Down Time S.W.W.D.I. Time  Hours Drilling Approval of  C.P.S. Engineer  Approval of  C.P.S. Engineer					
Desplace Multiple  O 400 Refer To tell food,  Wash Hole Down Frozy 175th  Wash Hole Down Frozy 175th  Wash Hole Down Frozy 175th  Wash Hole Down Frozy 175th  Wash Hole Down Time  Hours Drilling  C.P.S. Time  S.W.W.D.I. Time  Total Footage  Driller J. Aupp  Approval of  C.P.S. Engineer	City		State	County	
Wash Hole Down from 15th  400 420 Alaple W Land Stringer Med  420 450 Alaple W Land Stringer Med  440 450 Alaple Blue + Tyly med  450 500 Candy Since Sheet Field med  To Displace Mud 9 Am  To Displace Mud 9 Am  Total Hours  Equipment Down Time  Hours Drilling  Driller Augus  Approval of  C.P.S. Engineer	From	То	Formation	Color	Hardness
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Total Hours C.P.S. Time S.W.W.D.I. Time Total Footage Driller J. Bupp Approval of C.P.S. Engineer	400	420	Steply Wysan	ed Stringer	med
Total Hours C.P.S. Time S.W.W.D.I. Time Total Footage Approval of Helper C.P.S. Engineer	420	440	of hour Blu	e + July	mil
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Driller — Approval of Helper — C.P.S. Engineer —					
Helper C.P.S. Engineer					
	_ , , ,				
	•			J. I.O. Engineer	

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Date: Page 121 of 179

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Received by OCD: 1/20/2022 8:03:03 AM30 - 045-20782 #221 30-045-27051

### 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_SE_Sec.9	Twp30 Rng 10
Name of We	ell/Wells or Pipeline Ser	viced SUNRAY E #3, #221	
		ср	s 2070w
Elevation_	6470'Completion Date 9/10/	80 Total Depth 380' Land	Type* N/A
Casing, Si	zes, Types & Depths	N/A	
If Casing	is cemented, show amount	s & types used <u>N/A</u>	
	-	been placed, show depths &	amounts used
		with description of water	<b>-</b> .
Depths gas	encountered: N/A		
Type & amo	unt of coke breeze used:	N/A	
Depths and	des placed: 320', 310', 300'	, 290', 280', 270', 240', 230',	220', 210'
Depths ven	t pipes placed: 375'	DECEIAF	
Yent pipe	perforations: 360'	MAY 3 1 1991	
Remarks:	36 #1, 96+2, 96+3	OIL CON. DIV	
	10 , 0	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

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

CATHODIC PROTECTION CONSTRUCTION REPORT
DAILY LOG

Drilling Log (Attach Her	ею). 🗆 🛪 ЭЭ	(2	"X 60" E	eurion)	Co	mpletion Da	te	0/80			
Well Name 5 4 HRAY	E		ation		<del></del>	CPS No.		27			
Type & Size Bit Used	F 3		5E 9	-30-10			1470 WDO				
6	<del>34</del> "					Work Order	No. 5747/ 54843				
Anode Hole Depth 380 7. D. 37.5	Total Drilling Ric	g Time	Total Lbs. Coke U	sed Lost Circ	culation Mat'l Us	ed No. Sacks N					
Anode Depth # 1 320 # 2 3/0	#3300	# 4 270	# 5 <b>2 80</b>	# 6 Z 70	#7240'	#8 230	#9 <b>220</b>	# 10 <b>21</b>			
Anode Output (Amps) # 1 2 . 4   # 2 2 . 4	1	# 4 3. 1	# 5 <b>3. 3</b>	#6 2.4	1	#8 3,4	1	# 10 <b>2</b> ,			
Anode Depth # 11 # 12	# 13	# 14	;# 15	# 16	# 17	# 18	# 19	!# 20			
Anode Output (Amps)	1	† · · · · · · · · · · · · · · · · · · ·	1		1	†	+				
# 11	# 13	<b>#</b> 14	# 15	# 16 No. 8 C.P. Ca	# 17	# 18	# 19	± 20			
Total Circuit Resistance	Smns /7 7	Ohms	c a	No. 8 C.P. Ca	ble Used		No. 2 C.P. C	able Used			
Volts /2.2	Amps / 3. 7	Onnis	. 89	<del></del>							
Remarks: STATIE	0 M C4	WRAY	E "1-A	600	W = .71	8 V 7454	LATEL C	AMIONE I			
		,	_					<u> </u>			
SULLTAY E 3		,				•					
Drifter SAIL	WATER A	T 30.	Approx. 3	GAL. /Min	Took w	ATEX SA	uple.	Drille			
To 380. Los	sed 175,	INST	111ed 37	5'0f	1" P. V. C.	VEHT	Pipe Pe	rferAl			
,							<del></del>				
360.											
		<u></u>	<u> </u>	1 1/1/2010							
20 MeTer 1 10' STub 1	• •					All Constru	ction Complet	ed			
60V 30A R					0/6	1 95	11				
					7	(Si	gnature)				
Hole DepTh	-/25		GROUND BED I	AYOUT SKET	_ #	7 76		(a. O.T.			
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•		E 1-A CPS 1470	w, o. 51471-21
	SUARAÝ	E 3 SE9-30-10	54843-19
	40-	210- 1.5- 0 1.6	Obiller Said WATER AT 30' Approx. 3 gALXMIN. Took WATE SAMPLE. Drilled To 380
MW gals/mol	50-	20- 1.8 - 9	Logged 375', TASTALLED 375' of 1"P.V.C. VENT Pipe.
30.07 C <sub>2</sub> 10.12 44.10 C <sub>3</sub> 10.42 58.12 iC4 12.38 58.12 nC4 11.93	60-6	2./ 3 2.1 - 0 2.1	Perfer Ated 360'.
72.15 iC5 13.85 72.15 nC5 13.71 88.18 iC6 15.50	>09	40- 2.2 - 9 1.8	
86.18 C6 15.57 100.21 iC7 17 2 100.21 C7 17.46	806	50- 1,2 1,2	12,2 V. 13.7 A. = .89 s
114.23 C8 19.39 28.05 C2 9.64 42.08 C3 9.67	906	60-1.2	9/10/80
	1006	70- 1.8 - G	J.
	10 7	80- 2, 2 - © 2.0	0
* · · ·	20-,9	90- 1.9 - (4) 1. <b>9</b>	
	306	300- 1.9 - B	
	.5	10- 1.3 - 0 1.5 •	
MISC.	50 - ,5	20- 1.5 - 0 .8	
MW gats/mol 32.00 O2 3.37 28.01 CO 4.19 44.01 CO2 6.38	606	30- ,4 ,5 40- ,7	1-320- 1.8-2.4 2-310- 1.8-2.4
84.06 SOn 5.50	708	.6	3-300- 2.3-3.0 4-290- 2.5-3.1 5-280- 2.4-3.3
28.01 N2 4.16 2.02 H2 3.38	90-9	60- 22	6-290- 1.9 - 2.4
	200- 8	2.3	8-130- 25 -3.4 9-230- 00 -2.7
	/,0	506 60- 2.0 2.3 70- 2.0 375 T.D, 80- Daille To	5-280- 2.4-3.3 6-290- 1.9 -2.4 7-240- 2.5 -3.4 8-130- 2.5 -3.4 9-220- 2.0 -2.7 10-210- 1.7 -2.4

### 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 I Sec. 9 Twp30 Rng 10
Name of Well/Wells or Pipeline Service	ced SUNRAY E #3, #221
	cps 2070w
Elevation6470' Completion Date 1/11/89	Total Depth 420' Land Type* N/A
Casing, Sizes, Types & Depths	N/A
If Casing is cemented, show amounts &	types used N/A
If Cement or Bentonite Plugs have bee	en placed, show depths & amounts used
Depths & thickness of water zones wit	th description of water when possible: 110' NO SAMPLE
Depths gas encountered: N/A	
Type & amount of coke breeze used:	N/A
Depths anodes placed: 325', 315', 235', 1	180', 170'
Depths vent pipes placed: N/A	
Vent pipe perforations: 250'	MAY31 1991, U
Remarks: gb #2 HOLE BRIDGED LOST #6 &	7 ANODES. 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.

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

42's -- 12

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

Operator MERIDIAN OIL INC. Location: Unit I Sec. 9 Twp 30 Rng 10
Name of Well/Wells or Pipeline Serviced SUNRAY E #3, #221
cps 2070w
Elevation <sub>6470</sub> Completion Date 1/11/89 Total Depth 280 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. N/A
Depths gas encountered: N/A
Type & amount of coke breeze used: N/A
Depths anodes placed: 260', 250', 240', 230', 220'
Depths vent pipes placed: N/A
Vent pipe perforations: 200' MAY 3 1 1991
Remarks: gb #3 Oil CON D!
——————————————————————————————————————

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.

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

### WELL CASING CATHODIC PROTECTION CONSTRUCTION REPORT DAILY LOG

comp	1-13-89

Drilling Log (Attach Her	reto)	Ø							C	ompletion D	ate <u> 1-11-8</u>	39
CPS #	Well Name	e, Line or Plant:	#3	7	, ,	Vork Order	: #		Static:		Ins. Union Check	
2070-0	Su	NRAY "E"	# 221			3417A			600'NE= .70		Z Good	☐ Bad
Location:	1	Anode Size:	- 1	Anode Type				Size B	bit. 63/4	1		
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Anode Output (Amps)					i 1			1		1	ì	! !
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# 11 # 12 Anode Output (Amps)		# 13	# 14		# 15		# 16	#	17	# 18	# 19	# 20
# 11 # 12		# 13	<b># 14</b>		! ¦# 15		# 16	  #	17	# 18	# 19	# 20
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165	190	Shale
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380	300	SANdstone
300	345	Shale
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Driller Rousie Brown

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

Operator MERIDIAN OIL	Location: Unit NW Sec. 10 Twp 30 Rng 10
Name of Well/Wells or Pipeline Servic	ed SAN JUAN #10A, SUNRAY A #6
	cps 1362w
Elevation 6466'Completion Date 4/2/79	Total Depth 480' Land Type* N/A
Casing, Sizes, Types & Depths	N/A
If Casing is cemented, show amounts &	types usedN/A
If Cement or Bentonite Plugs have bee	n placed, show depths & amounts used
Depths & thickness of water zones wit	h description of water when possible:
Fresh, Clear, Salty, Sulphur, Etc	DAMP AT 160'. WET AT 180'
Depths gas encountered: N/A	
Type & amount of coke breeze used:	50 SACKS
Depths anodes placed: 435', 425', 415', 4	05', 355', 340', 295', 285', 260', 245'
Depths vent pipes placed: 435' OF	1" PVC DIE DEELVE
Vent pipe perforations: 255'	MAY 3 1' 1991
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.

<sup>\*</sup>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	

Completion Date 4-2-79 Drilling Log (Attach Hereto). Well Name San Juan = 10A CPS No. 1362 W -SUN Ray A II 6 VW10-30-10 Work Order No. 57259-21 Type & Size Bit Used 55254-21 Anode Hole Depth 480° Total Drilling Rig Time Total Lbs. Coke Used Lost Circulation Mat'l Used No. Sacks Mud Used 1099ed 470' JO SACKS | = 5 355 | = 6 340 | = 7 295 | = 8 285 # 1 **U** 3**5** |# 3 415 |# 9 260 |# 10 245 #4405 Anode Output (Amps) 1<sub># 6</sub> 3,5 #-7-- 3.3 #1 3.5 # 4 3.9 # 5 4,5 1#8 3.4 #3 3.4 #9 3.5 # 10 4.2 Anode Depth # 11 # 13 # 14 # 15 # 16 # 17 # 18 # 19 # 20 Anode Output (Amps) # 13 # 15 # 18 Total Circuit Resistance No. 8 C.P. Cable Used .65 18.4 'Ohms Amps Remarks: DRIVER Said damp at 160' Walted 15 min. NO WATER WET DT 180' 20 MN made approx 5 gal. RON 435' I'VENT P, De Sack coke BReeze STURRYED # 10A All Construction Completed DITCH + / cable 2971 EXTRE CABLE 144 120' METER Pole GROUND BED LAYOUT SKETCH 40VIGA Rect. DISTRIBUTION: WHITE - Division Corrosion Office YELLOW - Area Corrosion Office PINK - Originator File

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Page 133 of 179

Date: <u>4.2.7</u>
By: \_\_\_\_\_

SAN JUAN# 10A NW 10-30-10 W/O 57259-21 STATIC-600'W

SUNRAY A# 6 NW 10-30-10 W/0 55254-21 STATIC- 176

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30.07	C <sub>2</sub>	10.12
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58.12	IC4	12.38
58.12	nC4	11.93
72.15	iC5	13 85
72.15	nC5	13.71
86.18	iC6	15.50
86 18 <sup>-</sup>	C <sub>6</sub>	15 57
100.21	iC7	17 2
100.21	C7	17.46
114.23	C <sub>8</sub>	19.39
28.05	C2 <sup>:</sup>	9.64
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**APPENDIX C** 

Executed C-138 Solid Waste Acceptance Form

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

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

Form C-138 Revised 08/01/11

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

#### REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address:	
Enterprise Field Services, LLC, 614 Reilly Ave, Farmington NM 87401	PayKey: RB21200
, ————————————————————————————————————	PM: Maron O'Brien
	AFE: N54736
2. Originating Site: Atlantic BL S#22	
Attainte BE 5#22	
3. Location of Material (Street Address, City, State or ULSTR): UL C Section 3 T30N R10W; 36.845735, -107.872680  Aug	/sep 2021
4. Source and Description of Waste:	
Source: Remediation activities associated with a natural gas pipeline leak.	<u>.</u>
Description: Hydrocarbon/Condensate impacted soil associated natural gas pipeline release.  Estimated Volume 50 yd / bbls Known Volume (to be entered by the operator at the end of the ha	11/20 /00
Estimated Volume _50 yd)/ bbls Known Volume (to be entered by the operator at the end of the ha	ul) $\frac{1022/55}{2}$ yd <sup>3</sup> /bbls
5. GENERATOR CERTIFICATION STATEMENT OF WASTE STA	ATUS
I, Thomas Long Thomas Long, representative or authorized agent for Enterprise Products Operating do here	
1, Thomas Long , representative or authorized agent for Enterprise Products Operating do here	eby
Generator Signature certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environment	atal Protection Agency's July 1988
regulatory determination, the above described waste is: (Check the appropriate classification)	ital Flotection Agency 8 July 1988
RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operat	ions and are not mixed with non-
exempt waste. Operator Use Only: Waste Acceptance Frequency Monthly Weekly	
RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste subpart D, as amended. The following documentation is attached to demonstrate the above-describe the appropriate items)	as defined in 40 CFR, part 261,
☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (	Provide description in Box 4)
GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FO	R LANDFARMS
I, Thomas Long 8-18-2021, representative for Enterprise Products Operating authorizes Enterprise Representative for Enterprise Products Operating authorizes Enterprise Representative for Enterprise Products Operating authorizes Enterprise Representative for Enterprise Products Operating authorizes Enterprise Representative for Enterprise Products Operating authorizes Enterprise Products Operating authorizes Enterprise Products Operating authorizes Enterprise Products Operating authorizes Enterprise Products Operating authorizes Enterprise Products Operating authorizes Enterprise Products Operating authorizes Enterprise Products Operating authorizes Enterprise Products Operating authorizes Enterprise Products Operating authorizes Enterprise Products Operating Enterprise Products Operating Enterprise Products Operating Enterprise Products Operating Enterprise Products Operating Enterprise Products Operating Enterprise Products Operating Enterprise Products Operating Enterprise Products Operating Enterprise Products Operating Enterprise Products Operating Enterprise Products Operating Enterprise Products Operating Enterprise Products Operating Enterprise Products Operating Enterprise Products Operating Enterprise Products Operating Enterprise Products Operating Enterprise Products Operating Enterprise Products Operating Enterprise Products Operating Enterprise Products Operating Enterprise Products Operating Enterprise Products Operating Enterprise Products Operating Enterprise Products Operating Enterprise Products Operating Enterprise Products Operating Enterprise Products Operating Enterprise Products Operating Enterprise Products Operating Enterprise Products Operating Enterprise Products Operating Enterprise Products Operating Enterprise Products Operating Enterprise Products Operating Enterprise Products Operating Enterprise Products Operating Enterprise Products Operating Enterprise Products Operating Enterprise Products Operating Enterprise Products Operating Enterprise Products Operating Enterprise Produc	virotech, Inc. to complete
I, <u>Gree Crabbrae</u> , representative for <u>Envirotech, Inc.</u> representative samples of the oil field waste have been subjected to the paint filter test and tested for ch have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of the representative samples are attached to demonstrate the above-described waste conform to the req 19.15.36 NMAC.	of 19.15.36 NMAC. The results
5. Transporter: Halo and Subcontractors	
OCD Permitted Surface Waste Management Facility	
Name and Facility Permit #: Envirotech Inc. Soil Remediation Facility * Permit #: NM 01-0011 Address of Facility: Hilltop, NM Method of Treatment and/or Disposal:  Evaporation Injection Treating Plant Landfarm Landfill	☐ Other
Waste Acceptance Status:	
	Maintained As Permanent Record)
PRINT NAME: Greg Crabbree  SIGNATURE: TITLE: Enviro MANAgen  TELEPHONE NO.:  Surface Waste Management Facility Authorized Agent  505-632-0615	DATE: <u>8/19/2</u> /



APPENDIX D

Photographic Documentation

#### SITE PHOTOGRAPHS

Closure Report Enterprise Field Services, LLC Atlantic BLS #22 (8/16/21) Ensolum Project No. 05A1226151



#### Photograph 1

Photograph Description: View of in-process excavation activities (Excavation A).



#### Photograph 2

Photograph Description: View of in-process activities (Excavation A).



#### Photograph 3

Photograph Description: Final view of Excavation A.



#### SITE PHOTOGRAPHS

Closure Report Enterprise Field Services, LLC Atlantic BLS #22 (8/16/21) Ensolum Project No. 05A1226151



#### Photograph 4

Photograph Description: Final view of Excavation A.



#### Photograph 5

Photograph Description: Final view of Excavation B.



#### Photograph 6

Photograph Description: View of Excavation A after initial restoration.



#### **SITE PHOTOGRAPHS**

Closure Report Enterprise Field Services, LLC Atlantic BLS #22 (8/16/21) Ensolum Project No. 05A1226151



#### Photograph 7

Photograph Description: View of Excavation B after initial restoration.





**APPENDIX E** 

Regulatory Correspondence

From: Long, Thomas

To: "Smith, Cory, EMNRD (Cory.Smith@state.nm.us)"

Cc: Stone, Brian

Subject: FW: Atlantic BLS #22 - UL C Section 3 T30N R 10W; 36.845777, -107.872627 - Incident # nAPP2123630210

**Date:** Tuesday, August 31, 2021 7:27:00 AM

Attachments: processed-77519947-ad04-4cdf-9f2b-9be54fc6385a CYymqLSK.jpeq

output-682bdadc-ee26-4e2a-b95c-eaced657d41a VpBEE5F9.jpeq

Rpt 2108E58 Atlantic BLS-22 Final v1.pdf

Atlantic B LS 22.pdf

#### Cory,

Please find the attaches site sketches and lab reports for the Atlantic BLS #22 release site. All sample results are below the NMOCD Tier I remediation standard. Entperise will backfill the excavations with clean imported fill material. If you have any questions, please call or email.

Thomas J. Long
Senior Environmental Scientist
Enterprise Products Company
614 Reilly Ave.
Farmington, New Mexico 87401
505-599-2286 (office)
505-215-4727 (Cell)
tilong@eprod.com



**From:** Long, Thomas

Sent: Thursday, August 26, 2021 12:21 PM

To: 'Smith, Cory, EMNRD (Cory.Smith@state.nm.us)' <Cory.Smith@state.nm.us>

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

Subject: FW: Atlantic BLS #22 - UL C Section 3 T30N R 10W; 36.845777, -107.872627 - Incident #

nAPP2123630210

#### Cory,

This email is a notification that Entperise will be collecting soil samples for laboratory analysis at the Atlantic BLS #22 excavation tomorrow August, 27, 2021 at 10:00 a.m. If you have any questions, please call or email.

Thomas J. Long
Senior Environmental Scientist
Enterprise Products Company
614 Reilly Ave.
Farmington, New Mexico 87401
505-599-2286 (office)
505-215-4727 (Cell)
tilong@eprod.com



From: Long, Thomas

**Sent:** Tuesday, August 24, 2021 2:16 PM

To: 'Smith, Cory, EMNRD (Cory.Smith@state.nm.us)' < Cory.Smith@state.nm.us>

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

Subject: Atlantic BLS #22 - UL C Section 3 T30N R 10W; 36.845777, -107.872627 - Incident #

nAPP2123630210

Cory,

This email is a notification that Entperise will be collecting soil samples for laboratory analysis at the Atlantic BLS #22 excavation tomorrow August 25, 2021 at 2:00 p.m. 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





**APPENDIX F** 

Table 1 – Soil Analytical Summary



### TABLE 1 Atlantic BLS #22 (8/16/21) SOIL ANALYTICAL SUMMARY

Sample I.D.	Date	Sample Type	Sample Depth	Benzene	Toluene	Ethylbenzene	Xylenes	Total BTEX1	TPH	ТРН ТРН ТРН		Total Combined	Chloride
		C- Composite	(Feet)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	GRO	DRO			(mg/kg)
		G - Grab										(GRO/DRO/MRO) <sup>1</sup>	
									(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
	Mexico Energy, Mineral & Natural Resources Department Oil Conservation Division Closure Criteria (Tier I)			10	NE	NE	NE	50				100	600
					Exc	cavation A Com	posite Soil Sa	mples					
S-1	8.25.21	С	0 to 8	<0.017	<0.035	< 0.035	<0.070	ND	<3.5	<9.6	<48	ND	<60
S-2	8.25.21	С	0 to 16	<0.018	<0.035	< 0.035	<0.070	ND	<3.5	<9.5	<47	ND	<60
S-3	8.25.21	С	0 to 16	<0.018	<0.037	< 0.037	0.096	0.096	<3.7	<9.5	<47	ND	<60
S-4	8.25.21	С	0 to 16	<0.017	<0.034	<0.034	<0.068	ND	<3.4	<8.7	<44	ND	<59
S-5	8.25.21	С	0 to 16	<0.019	<0.039	< 0.039	<0.078	ND	<3.9	<9.0	<45	ND	<60
S-6	8.25.21	С	0 to 16	<0.018	<0.036	< 0.036	<0.071	ND	<3.6	<10	<50	ND	<60
S-7	8.25.21	С	0 to 16	<0.019	<0.038	<0.038	<0.077	ND	<3.8	<9.4	<47	ND	<60
S-8	8.25.21	С	0 to 8	<0.019	< 0.039	< 0.039	<0.078	ND	<3.9	<9.8	<49	ND	<60
S-9	8.25.21	С	8 to 16	<0.017	<0.034	< 0.034	<0.068	ND	<3.4	<9.4	<47	ND	<60
S-10	8.25.21	С	16	<0.017	<0.034	< 0.034	<0.068	ND	<3.4	<9.3	<47	ND	<61
S-11	8.25.21	С	16	<0.016	<0.032	<0.032	<0.064	ND	<3.2	<9.9	<50	ND	<60
					Ex	cavation B Com	posite Soil Sa	mples					
S-12	8.27.21	С	0 to 15	<0.021	<0.042	<0.042	<0.083	ND	<4.2	<9.6	<48	ND	<60
S-13	8.27.21	С	0 to 10	<0.019	<0.039	< 0.039	<0.077	ND	<3.9	<9.5	<47	ND	<60
S-14	8.27.21	С	0 to 10	<0.017	< 0.033	< 0.033	<0.067	ND	<3.3	<9.5	<47	ND	<60
S-15	8.27.21	С	0 to 10	<0.020	<0.039	<0.039	<0.079	ND	<3.9	<9.7	<49	ND	<60
S-16	8.27.21	С	0 to 15	<0.081	<0.16	<0.16	1.1	1.1	27	9.2	<44	36	<60
S-17	8.27.21	С	0 to 15	<0.090	<0.18	<0.18	<0.36	ND	<18	<9.9	<49	ND	<60
S-18	8.27.21	С	10 to 15	<0.084	0.23	0.34	4.6	5.2	78	17	<45	95	<60

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

ND = Not Detected above the Practical Quantitation Limits or Reporting Limits

NE = Not established

mg/kg = milligram per kilogram

BTEX = Benzene, Toluene, Ethylbenzene, and Xylenes

TPH = Total Petroleum Hydrocarbon

GRO = Gasoline Range Organics

DRO = Diesel Range Organics

MRO = Motor Oil/Lube Oil Range Organics

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



APPENDIX G

Laboratory Data Sheets & Chain of Custody Documentation



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

August 30, 2021

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

FAX

RE: Atlantic BLS-22 OrderNo.: 2108E58

#### Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 11 sample(s) on 8/26/2021 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 8/30/2021

8/26/2021 9:48:45 AM

8/26/2021 9:48:45 AM

8/26/2021 9:48:45 AM

8/26/2021 9:48:45 AM

B80829

B80829

B80829

B80829

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-1

 Project:
 Atlantic BLS-22
 Collection Date: 8/25/2021 2:00:00 PM

 Lab ID:
 2108E58-001
 Matrix: MEOH (SOIL)
 Received Date: 8/26/2021 6:45:00 AM

Result **RL Oual Units DF** Date Analyzed **Batch** Analyses **EPA METHOD 300.0: ANIONS** Analyst: VP Chloride ND 60 mg/Kg 20 8/26/2021 10:00:08 AM 62207 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) ND 9.6 mg/Kg 8/26/2021 12:58:51 PM 62204 Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 8/26/2021 12:58:51 PM 62204 Surr: DNOP 70-130 151 S %Rec 8/26/2021 12:58:51 PM 62204 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 8/26/2021 9:48:45 AM G80829 3.5 mg/Kg 1 Surr: BFB 104 %Rec 8/26/2021 9:48:45 AM G80829 70-130 **EPA METHOD 8021B: VOLATILES** Analyst: NSB ND 8/26/2021 9:48:45 AM B80829 Benzene 0.017 mg/Kg

ND

ND

ND

97.9

0.035

0.035

0.070

70-130

mg/Kg

mg/Kg

mg/Kg

%Rec

1

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

Qualifiers:

Toluene

Ethylbenzene

Xylenes, Total

Surr: 4-Bromofluorobenzene

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

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Date Reported: 8/30/2021

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-2

 Project:
 Atlantic BLS-22
 Collection Date: 8/25/2021 2:05:00 PM

 Lab ID:
 2108E58-002
 Matrix: MEOH (SOIL)
 Received Date: 8/26/2021 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analys	: VP
Chloride	ND	60		mg/Kg	20	8/26/2021 10:12:33 AM	62207
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analys	:: SB
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	8/26/2021 1:08:50 PM	62204
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	8/26/2021 1:08:50 PM	62204
Surr: DNOP	139	70-130	S	%Rec	1	8/26/2021 1:08:50 PM	62204
EPA METHOD 8015D: GASOLINE RANGE						Analys	: NSB
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	8/26/2021 10:12:16 AM	G80829
Surr: BFB	105	70-130		%Rec	1	8/26/2021 10:12:16 AM	G80829
EPA METHOD 8021B: VOLATILES						Analys	: NSB
Benzene	ND	0.018		mg/Kg	1	8/26/2021 10:12:16 AM	B80829
Toluene	ND	0.035		mg/Kg	1	8/26/2021 10:12:16 AM	B80829
Ethylbenzene	ND	0.035		mg/Kg	1	8/26/2021 10:12:16 AM	B80829
Xylenes, Total	ND	0.070		mg/Kg	1	8/26/2021 10:12:16 AM	B80829
Surr: 4-Bromofluorobenzene	97.9	70-130		%Rec	1	8/26/2021 10:12:16 AM	B80829

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

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Date Reported: 8/30/2021

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-3

 Project:
 Atlantic BLS-22
 Collection Date: 8/25/2021 2:10:00 PM

 Lab ID:
 2108E58-003
 Matrix: MEOH (SOIL)
 Received Date: 8/26/2021 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: VP
Chloride	ND	60		mg/Kg	20	8/26/2021 10:24:58 AM	62207
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analyst	: SB
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	8/26/2021 1:18:49 PM	62204
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	8/26/2021 1:18:49 PM	62204
Surr: DNOP	148	70-130	S	%Rec	1	8/26/2021 1:18:49 PM	62204
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	8/26/2021 10:35:53 AM	G80829
Surr: BFB	106	70-130		%Rec	1	8/26/2021 10:35:53 AM	G80829
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.018		mg/Kg	1	8/26/2021 10:35:53 AM	B80829
Toluene	ND	0.037		mg/Kg	1	8/26/2021 10:35:53 AM	B80829
Ethylbenzene	ND	0.037		mg/Kg	1	8/26/2021 10:35:53 AM	B80829
Xylenes, Total	0.096	0.073		mg/Kg	1	8/26/2021 10:35:53 AM	B80829
Surr: 4-Bromofluorobenzene	99.6	70-130		%Rec	1	8/26/2021 10:35:53 AM	B80829

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

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Date Reported: 8/30/2021

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-4

 Project:
 Atlantic BLS-22
 Collection Date: 8/25/2021 2:15:00 PM

 Lab ID:
 2108E58-004
 Matrix: MEOH (SOIL)
 Received Date: 8/26/2021 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: VP
Chloride	ND	59		mg/Kg	20	8/26/2021 10:37:22 AM	62207
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analyst	: SB
Diesel Range Organics (DRO)	ND	8.7		mg/Kg	1	8/26/2021 1:28:48 PM	62204
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	8/26/2021 1:28:48 PM	62204
Surr: DNOP	146	70-130	S	%Rec	1	8/26/2021 1:28:48 PM	62204
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	ND	3.4		mg/Kg	1	8/26/2021 10:59:33 AM	G80829
Surr: BFB	105	70-130		%Rec	1	8/26/2021 10:59:33 AM	G80829
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.017		mg/Kg	1	8/26/2021 10:59:33 AM	B80829
Toluene	ND	0.034		mg/Kg	1	8/26/2021 10:59:33 AM	B80829
Ethylbenzene	ND	0.034		mg/Kg	1	8/26/2021 10:59:33 AM	B80829
Xylenes, Total	ND	0.068		mg/Kg	1	8/26/2021 10:59:33 AM	B80829
Surr: 4-Bromofluorobenzene	98.7	70-130		%Rec	1	8/26/2021 10:59:33 AM	B80829

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

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Date Reported: 8/30/2021

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-5

 Project:
 Atlantic BLS-22
 Collection Date: 8/25/2021 2:20:00 PM

 Lab ID:
 2108E58-005
 Matrix: MEOH (SOIL)
 Received Date: 8/26/2021 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analysi	: VP
Chloride	ND	60		mg/Kg	20	8/26/2021 10:49:47 AM	62207
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst	: SB
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	8/26/2021 1:38:47 PM	62204
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	8/26/2021 1:38:47 PM	62204
Surr: DNOP	137	70-130	S	%Rec	1	8/26/2021 1:38:47 PM	62204
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	ND	3.9		mg/Kg	1	8/26/2021 11:23:11 AM	G80829
Surr: BFB	107	70-130		%Rec	1	8/26/2021 11:23:11 AM	G80829
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.019		mg/Kg	1	8/26/2021 11:23:11 AM	B80829
Toluene	ND	0.039		mg/Kg	1	8/26/2021 11:23:11 AM	B80829
Ethylbenzene	ND	0.039		mg/Kg	1	8/26/2021 11:23:11 AM	B80829
Xylenes, Total	ND	0.078		mg/Kg	1	8/26/2021 11:23:11 AM	B80829
Surr: 4-Bromofluorobenzene	99.4	70-130		%Rec	1	8/26/2021 11:23:11 AM	B80829

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

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

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Date Reported: 8/30/2021

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-6

 Project:
 Atlantic BLS-22
 Collection Date: 8/25/2021 2:25:00 PM

 Lab ID:
 2108E58-006
 Matrix: MEOH (SOIL)
 Received Date: 8/26/2021 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: VP
Chloride	ND	60		mg/Kg	20	8/26/2021 11:27:00 AM	62207
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst	SB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	8/26/2021 1:48:47 PM	62204
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/26/2021 1:48:47 PM	62204
Surr: DNOP	131	70-130	S	%Rec	1	8/26/2021 1:48:47 PM	62204
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	8/26/2021 11:46:50 AM	G80829
Surr: BFB	108	70-130		%Rec	1	8/26/2021 11:46:50 AM	G80829
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.018		mg/Kg	1	8/26/2021 11:46:50 AM	B80829
Toluene	ND	0.036		mg/Kg	1	8/26/2021 11:46:50 AM	B80829
Ethylbenzene	ND	0.036		mg/Kg	1	8/26/2021 11:46:50 AM	B80829
Xylenes, Total	ND	0.071		mg/Kg	1	8/26/2021 11:46:50 AM	B80829
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	8/26/2021 11:46:50 AM	B80829

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

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

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Date Reported: 8/30/2021

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-7

 Project:
 Atlantic BLS-22
 Collection Date: 8/25/2021 2:30:00 PM

 Lab ID:
 2108E58-007
 Matrix: MEOH (SOIL)
 Received Date: 8/26/2021 6:45:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	ND	60	mg/Kg	20	8/26/2021 11:39:25 AM	62207
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	8/27/2021 2:28:44 PM	62204
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	8/27/2021 2:28:44 PM	62204
Surr: DNOP	118	70-130	%Rec	1	8/27/2021 2:28:44 PM	62204
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	3.8	mg/Kg	1	8/26/2021 12:10:29 PM	G80829
Surr: BFB	107	70-130	%Rec	1	8/26/2021 12:10:29 PM	G80829
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.019	mg/Kg	1	8/26/2021 12:10:29 PM	B80829
Toluene	ND	0.038	mg/Kg	1	8/26/2021 12:10:29 PM	B80829
Ethylbenzene	ND	0.038	mg/Kg	1	8/26/2021 12:10:29 PM	B80829
Xylenes, Total	ND	0.077	mg/Kg	1	8/26/2021 12:10:29 PM	B80829
Surr: 4-Bromofluorobenzene	98.7	70-130	%Rec	1	8/26/2021 12:10:29 PM	B80829

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

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Date Reported: 8/30/2021

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-8

 Project:
 Atlantic BLS-22
 Collection Date: 8/25/2021 2:35:00 PM

 Lab ID:
 2108E58-008
 Matrix: MEOH (SOIL)
 Received Date: 8/26/2021 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: VP
Chloride	ND	60		mg/Kg	20	8/26/2021 11:51:49 AM	62207
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analyst	SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	8/26/2021 2:10:32 PM	62204
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/26/2021 2:10:32 PM	62204
Surr: DNOP	135	70-130	S	%Rec	1	8/26/2021 2:10:32 PM	62204
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	ND	3.9		mg/Kg	1	8/26/2021 12:34:19 PM	G80829
Surr: BFB	109	70-130		%Rec	1	8/26/2021 12:34:19 PM	G80829
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.019		mg/Kg	1	8/26/2021 12:34:19 PM	B80829
Toluene	ND	0.039		mg/Kg	1	8/26/2021 12:34:19 PM	B80829
Ethylbenzene	ND	0.039		mg/Kg	1	8/26/2021 12:34:19 PM	B80829
Xylenes, Total	ND	0.078		mg/Kg	1	8/26/2021 12:34:19 PM	B80829
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	8/26/2021 12:34:19 PM	B80829

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

Page 8 of 15

Date Reported: 8/30/2021

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-9

 Project:
 Atlantic BLS-22
 Collection Date: 8/25/2021 2:40:00 PM

 Lab ID:
 2108E58-009
 Matrix: MEOH (SOIL)
 Received Date: 8/26/2021 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: VP
Chloride	ND	60		mg/Kg	20	8/26/2021 12:04:14 PM	62207
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst	: SB
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	8/26/2021 2:20:30 PM	62204
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	8/26/2021 2:20:30 PM	62204
Surr: DNOP	132	70-130	S	%Rec	1	8/26/2021 2:20:30 PM	62204
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	ND	3.4		mg/Kg	1	8/26/2021 1:22:00 PM	G80829
Surr: BFB	111	70-130		%Rec	1	8/26/2021 1:22:00 PM	G80829
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.017		mg/Kg	1	8/26/2021 1:22:00 PM	B80829
Toluene	ND	0.034		mg/Kg	1	8/26/2021 1:22:00 PM	B80829
Ethylbenzene	ND	0.034		mg/Kg	1	8/26/2021 1:22:00 PM	B80829
Xylenes, Total	ND	0.068		mg/Kg	1	8/26/2021 1:22:00 PM	B80829
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	8/26/2021 1:22:00 PM	B80829

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

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Date Reported: 8/30/2021

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-10

 Project:
 Atlantic BLS-22
 Collection Date: 8/25/2021 2:45:00 PM

 Lab ID:
 2108E58-010
 Matrix: MEOH (SOIL)
 Received Date: 8/26/2021 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: VP
Chloride	ND	61		mg/Kg	20	8/26/2021 12:16:39 PM	62207
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst	SB
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	8/26/2021 2:30:28 PM	62204
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	8/26/2021 2:30:28 PM	62204
Surr: DNOP	132	70-130	S	%Rec	1	8/26/2021 2:30:28 PM	62204
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	ND	3.4		mg/Kg	1	8/26/2021 1:45:50 PM	G80829
Surr: BFB	110	70-130		%Rec	1	8/26/2021 1:45:50 PM	G80829
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.017		mg/Kg	1	8/26/2021 1:45:50 PM	B80829
Toluene	ND	0.034		mg/Kg	1	8/26/2021 1:45:50 PM	B80829
Ethylbenzene	ND	0.034		mg/Kg	1	8/26/2021 1:45:50 PM	B80829
Xylenes, Total	ND	0.068		mg/Kg	1	8/26/2021 1:45:50 PM	B80829
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	8/26/2021 1:45:50 PM	B80829

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

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Date Reported: 8/30/2021

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-11

**Project:** Atlantic BLS-22
 Collection Date: 8/25/2021 2:50:00 PM

 **Lab ID:** 2108E58-011
 Matrix: MEOH (SOIL)
 Received Date: 8/26/2021 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: VP
Chloride	ND	60		mg/Kg	20	8/26/2021 12:29:04 PM	62207
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst	SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	8/26/2021 2:40:27 PM	62204
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/26/2021 2:40:27 PM	62204
Surr: DNOP	136	70-130	S	%Rec	1	8/26/2021 2:40:27 PM	62204
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	ND	3.2		mg/Kg	1	8/26/2021 2:09:46 PM	G80829
Surr: BFB	114	70-130		%Rec	1	8/26/2021 2:09:46 PM	G80829
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.016		mg/Kg	1	8/26/2021 2:09:46 PM	B80829
Toluene	ND	0.032		mg/Kg	1	8/26/2021 2:09:46 PM	B80829
Ethylbenzene	ND	0.032		mg/Kg	1	8/26/2021 2:09:46 PM	B80829
Xylenes, Total	ND	0.064		mg/Kg	1	8/26/2021 2:09:46 PM	B80829
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	8/26/2021 2:09:46 PM	B80829

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

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#### Hall Environmental Analysis Laboratory, Inc.

WO#: **2108E58 30-Aug-21** 

Client: ENSOLUM
Project: Atlantic BLS-22

Sample ID: MB-62207 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 62207 RunNo: 80822

Prep Date: **8/26/2021** Analysis Date: **8/26/2021** SeqNo: **2852485** Units: **mg/Kg** 

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

Chloride ND 1.5

Sample ID: LCS-62207 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 62207 RunNo: 80822

Prep Date: 8/26/2021 Analysis Date: 8/26/2021 SeqNo: 2852486 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 93.2 90 110

#### Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 12 of 15

#### Hall Environmental Analysis Laboratory, Inc.

2108E58 30-Aug-21

WO#:

**Client: ENSOLUM Project:** Atlantic BLS-22

Sample ID: LCS-62204

Sample ID: MB-62203 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 62203 RunNo: 80815

Prep Date: 8/26/2021 Analysis Date: 8/26/2021 SeqNo: 2851609 Units: %Rec

SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result LowLimit HighLimit Qual Surr: DNOP S 15 10.00 148 70 130

Sample ID: MB-62204 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 62204 RunNo: 80814 Prep Date: 8/26/2021 Analysis Date: 8/26/2021 SeqNo: 2853083 Units: mg/Kg SPK value SPK Ref Val %REC LowLimit **RPDLimit** Analyte Result PQL HighLimit %RPD Qual Diesel Range Organics (DRO) ND 10 Motor Oil Range Organics (MRO) ND 50

TestCode: EPA Method 8015M/D: Diesel Range Organics

Surr: DNOP 70 130 11 10.00 109

Client ID: LCSS Batch ID: 62204 RunNo: 80814

SampType: LCS

Prep Date: 8/26/2021 Analysis Date: 8/26/2021 SeqNo: 2853084 Units: mg/Kg

Result SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte PQL LowLimit Qual Diesel Range Organics (DRO) 45 10 50.00 89.4 68.9 141 Surr: DNOP 97.0 4.8 5.000 70 130

Sample ID: LCS-62203 TestCode: EPA Method 8015M/D: Diesel Range Organics SampType: LCS

Client ID: LCSS Batch ID: 62203 RunNo: 80848

Prep Date: 8/26/2021 Analysis Date: 8/27/2021 SeqNo: 2853731 Units: %Rec

SPK value SPK Ref Val %REC %RPD **RPDLimit** Result PQL LowLimit HighLimit Qual Surr: DNOP 5.1 5.000 101 70 130

Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded Н

Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

Value above quantitation range

Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Limit Page 13 of 15

#### Hall Environmental Analysis Laboratory, Inc.

WO#: 2108E58 30-Aug-21

**Client: ENSOLUM Project:** Atlantic BLS-22

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

PBS Client ID: Batch ID: G80829 RunNo: 80829

Prep Date: Analysis Date: 8/26/2021 SeqNo: 2852239 Units: mg/Kg

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

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 1100 1000 107 70 130

Sample ID: 2.5ug gro Ics SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: G80829 RunNo: 80829

Prep Date: Analysis Date: 8/26/2021 SeqNo: 2852245 Units: mg/Kg

Qual Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Gasoline Range Organics (GRO) 27 5.0 25.00 0 106 78.6 131 Surr: BFB 1200 1000 116 70

130

#### Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

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### Hall Environmental Analysis Laboratory, Inc.

WO#: **2108E58** 

30-Aug-21

Client: ENSOLUM
Project: Atlantic BLS-22

Sample ID: mb	Samp <sup>-</sup>	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: PBS	•	h ID: <b>B8</b>		F	RunNo: <b>80829</b>					
Prep Date:	Analysis [	Date: <b>8/</b>	26/2021	5	SeqNo: 2	852319	Units: mg/K	ίg		
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	0.99		1.000		99.1	70	130			

Sample ID: 100ng btex Ics	Samp	Гуре: <b>LC</b>	pe: LCS TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batc	h ID: <b>B8</b>	0829	RunNo: <b>80829</b>							
Prep Date:	Analysis [	Date: 8/	26/2021	\$	SeqNo: 2	852326	Units: mg/k	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.90	0.025	1.000	0	89.9	80	120				
Toluene	0.92	0.050	1.000	0	91.9	80	120				
Ethylbenzene	0.92	0.050	1.000	0	91.9	80	120				
Xylenes, Total	2.7	0.10	3.000	0	90.9	80	120				
Surr: 4-Bromofluorobenzene	1.0		1.000		99.6	70	130				

#### Qualifiers:

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

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

Page 15 of 15



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

### Sample Log-In Check List

Client N	Name:	ENSOLUM		Work (	Order Number	2108	3E58			RcptNo: 1	
Receive	ed By:	Cheyenne	Cason	8/26/202	1 6:45:00 AM			Chul			
Comple	ted By:	Cheyenne	Cason	8/26/202	1 7:00:38 AM			Chul			
Reviewe	ed By:	IO	)	8.26.	7.5						
Chain	of Cust	<u>ody</u>								_	
1. Is Ch	nain of Cu	stody compl	ete?			Yes	<b>V</b>	No		Not Present	
2. How	was the s	ample delive	ered?			Cou	<u>rier</u>				
Log Ir 3. Was	77 a	ot made to c	ool the sampl	es?		Yes	<b>✓</b>	No		NA 🗆	
4. Were	all samp	les received	at a temperat	ure of >0° C to	o 6.0°C	Yes	<b>V</b>	No		NA 🗆	
5. Sam	ple(s) in p	roper contai	ner(s)?			Yes	<b>V</b>	No			
6. Suffic	cient samp	ole volume fo	or indicated te	st(s)?		Yes	<b>✓</b>	No			
7. Are s	amples (e	except VOA a	and ONG) pro	perly preserve	d?	Yes	<b>V</b>	No			
8. Was	preservat	ive added to	bottles?			Yes		No	<b>V</b>	NA 🗆	
9. Rece	ived at lea	ast 1 vial with	n headspace ·	<1/4" for AQ V	OA?	Yes		No		NA 🗸	/
10. Were	any sam	ple containe	ers received b	oken?		Yes		No	<b>✓</b>	# of preserved	
		rk match bot ncies on cha	tle labels? ain of custody)			Yes	<b>V</b>	No			12 unless noted)
12. Are m	natrices c	orrectly ident	tified on Chair	of Custody?		Yes	<b>✓</b>	No		Adjusted?	
			ere requested	?		Yes	<b>V</b>			/	x 8/26/c
		g times able stomer for a	to be met? uthorization.)			Yes	<b>V</b>	No		Checked by:	2010616
Special	Handli	ng (if app	licable)								
15. Was	client no	ified of all di	screpancies v	vith this order?		Yes		No		NA 🗸	
	Person	Notified:	PARTITION TO BE A PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTI	en de Productor de la constante de la constante de la constante de la constante de la constante de la constante	Date:	nodeczórtacke	woodanessa	NOTICE CONTRACTOR AND ASSESSMENT	HERE PRINT		
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Turn-Around Time:	- Standard	Project Name.		Atlan	Project #:	O5A 12	Project Manager:			Sampler:	On Ice:	# of Coolers:	Cooler Temp(including CF):	Container Type and #	1402 (ar	-									-3		Received by:	Received by:	Se Co
Chain-of-Custody Record		)))]		S. Ric Grande, SuiteA	01418		Ksummer saerso am, com	1000	☐ Level 4 (Full Validation)	npliance				Sample Name	5-1	2-5	2.2	5-4	5-3	5.6	53	2-2	5-8	2-10	5.11		d by:	ı by:	The Transfer of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of th
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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

September 01, 2021

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

**FAX** 

RE: Atlantic B LS 22 OrderNo.: 2108G24

#### Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 7 sample(s) on 8/28/2021 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

**CLIENT: ENSOLUM** 

# Analytical Report Lab Order 2108G24

Date Reported: 9/1/2021

### Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: S-12

Project: Atlantic B LS 22 Collection Date: 8/27/2021 9:00:00 AM

**Lab ID:** 2108G24-001 **Matrix:** MEOH (SOIL) **Received Date:** 8/28/2021 9:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	ND	60	mg/Kg	20	8/30/2021 7:25:21 AM	62258
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	8/29/2021 4:53:11 AM	62255
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	8/29/2021 4:53:11 AM	62255
Surr: DNOP	111	70-130	%Rec	1	8/29/2021 4:53:11 AM	62255
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.2	mg/Kg	1	8/30/2021 10:39:25 AM	62241
Surr: BFB	110	70-130	%Rec	1	8/30/2021 10:39:25 AM	62241
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.021	mg/Kg	1	8/30/2021 10:39:25 AM	62241
Toluene	ND	0.042	mg/Kg	1	8/30/2021 10:39:25 AM	62241
Ethylbenzene	ND	0.042	mg/Kg	1	8/30/2021 10:39:25 AM	62241
Xylenes, Total	ND	0.083	mg/Kg	1	8/30/2021 10:39:25 AM	62241
Surr: 4-Bromofluorobenzene	99.4	70-130	%Rec	1	8/30/2021 10:39:25 AM	62241

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

Page 1 of 12

Date Reported: 9/1/2021

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-13

 Project:
 Atlantic B LS 22
 Collection Date: 8/27/2021 9:05:00 AM

 Lab ID:
 2108G24-002
 Matrix: MEOH (SOIL)
 Received Date: 8/28/2021 9:30:00 AM

Analyses	Result	RL Qu	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	ND	60	mg/Kg	20	8/30/2021 7:37:46 AM	62258
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	8/29/2021 5:16:58 AM	62255
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	8/29/2021 5:16:58 AM	62255
Surr: DNOP	108	70-130	%Rec	1	8/29/2021 5:16:58 AM	62255
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	3.9	mg/Kg	1	8/30/2021 11:03:01 AM	62241
Surr: BFB	104	70-130	%Rec	1	8/30/2021 11:03:01 AM	62241
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.019	mg/Kg	1	8/30/2021 11:03:01 AM	62241
Toluene	ND	0.039	mg/Kg	1	8/30/2021 11:03:01 AM	62241
Ethylbenzene	ND	0.039	mg/Kg	1	8/30/2021 11:03:01 AM	62241
Xylenes, Total	ND	0.077	mg/Kg	1	8/30/2021 11:03:01 AM	62241
Surr: 4-Bromofluorobenzene	97.1	70-130	%Rec	1	8/30/2021 11:03:01 AM	62241

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

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### **Analytical Report**

Lab Order **2108G24**Date Reported: **9/1/2021** 

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-14

 Project:
 Atlantic B LS 22
 Collection Date: 8/27/2021 9:10:00 AM

 Lab ID:
 2108G24-003
 Matrix: MEOH (SOIL)
 Received Date: 8/28/2021 9:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	ND	60	mg/Kg	20	8/30/2021 7:50:10 AM	62258
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	8/29/2021 5:40:45 AM	62255
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	8/29/2021 5:40:45 AM	62255
Surr: DNOP	109	70-130	%Rec	1	8/29/2021 5:40:45 AM	62255
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	3.3	mg/Kg	1	8/30/2021 11:26:41 AM	62241
Surr: BFB	107	70-130	%Rec	1	8/30/2021 11:26:41 AM	62241
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.017	mg/Kg	1	8/30/2021 11:26:41 AM	62241
Toluene	ND	0.033	mg/Kg	1	8/30/2021 11:26:41 AM	62241
Ethylbenzene	ND	0.033	mg/Kg	1	8/30/2021 11:26:41 AM	62241
Xylenes, Total	ND	0.067	mg/Kg	1	8/30/2021 11:26:41 AM	62241
Surr: 4-Bromofluorobenzene	99.6	70-130	%Rec	1	8/30/2021 11:26:41 AM	62241

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

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

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Date Reported: 9/1/2021

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-15

 Project:
 Atlantic B LS 22
 Collection Date: 8/27/2021 9:15:00 AM

 Lab ID:
 2108G24-004
 Matrix: MEOH (SOIL)
 Received Date: 8/28/2021 9:30:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	ND	60	mg/Kg	20	8/30/2021 8:02:35 AM	62258
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	8/29/2021 6:04:29 AM	62255
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/29/2021 6:04:29 AM	62255
Surr: DNOP	119	70-130	%Rec	1	8/29/2021 6:04:29 AM	62255
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	3.9	mg/Kg	1	8/30/2021 11:50:15 AM	62241
Surr: BFB	105	70-130	%Rec	1	8/30/2021 11:50:15 AM	62241
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.020	mg/Kg	1	8/30/2021 11:50:15 AM	62241
Toluene	ND	0.039	mg/Kg	1	8/30/2021 11:50:15 AM	62241
Ethylbenzene	ND	0.039	mg/Kg	1	8/30/2021 11:50:15 AM	62241
Xylenes, Total	ND	0.079	mg/Kg	1	8/30/2021 11:50:15 AM	62241
Surr: 4-Bromofluorobenzene	97.1	70-130	%Rec	1	8/30/2021 11:50:15 AM	62241

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

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Date Reported: 9/1/2021

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-16

 Project:
 Atlantic B LS 22
 Collection Date: 8/27/2021 9:20:00 AM

 Lab ID:
 2108G24-005
 Matrix: MEOH (SOIL)
 Received Date: 8/28/2021 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: VP
Chloride	ND	60		mg/Kg	20	8/30/2021 8:14:59 AM	62258
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst	: SB
Diesel Range Organics (DRO)	9.2	8.7		mg/Kg	1	8/29/2021 6:28:09 AM	62255
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	8/29/2021 6:28:09 AM	62255
Surr: DNOP	108	70-130		%Rec	1	8/29/2021 6:28:09 AM	62255
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	27	16		mg/Kg	5	8/30/2021 12:13:48 PM	62241
Surr: BFB	145	70-130	S	%Rec	5	8/30/2021 12:13:48 PM	62241
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.081		mg/Kg	5	8/30/2021 12:13:48 PM	62241
Toluene	ND	0.16		mg/Kg	5	8/30/2021 12:13:48 PM	62241
Ethylbenzene	ND	0.16		mg/Kg	5	8/30/2021 12:13:48 PM	62241
Xylenes, Total	1.1	0.33		mg/Kg	5	8/30/2021 12:13:48 PM	62241
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	5	8/30/2021 12:13:48 PM	62241

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

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Date Reported: 9/1/2021

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-17

 Project:
 Atlantic B LS 22
 Collection Date: 8/27/2021 9:25:00 AM

 Lab ID:
 2108G24-006
 Matrix: MEOH (SOIL)
 Received Date: 8/28/2021 9:30:00 AM

Analyses	Result	RL Qu	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	ND	60	mg/Kg	20	8/30/2021 8:27:23 AM	62258
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	8/29/2021 6:51:49 AM	62255
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/29/2021 6:51:49 AM	62255
Surr: DNOP	104	70-130	%Rec	1	8/29/2021 6:51:49 AM	62255
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	18	mg/Kg	5	8/30/2021 12:37:25 PM	62241
Surr: BFB	109	70-130	%Rec	5	8/30/2021 12:37:25 PM	62241
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.090	mg/Kg	5	8/30/2021 12:37:25 PM	62241
Toluene	ND	0.18	mg/Kg	5	8/30/2021 12:37:25 PM	62241
Ethylbenzene	ND	0.18	mg/Kg	5	8/30/2021 12:37:25 PM	62241
Xylenes, Total	ND	0.36	mg/Kg	5	8/30/2021 12:37:25 PM	62241
Surr: 4-Bromofluorobenzene	99.8	70-130	%Rec	5	8/30/2021 12:37:25 PM	62241

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

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### **Analytical Report**

Lab Order **2108G24**Date Reported: **9/1/2021** 

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-18

 Project:
 Atlantic B LS 22
 Collection Date: 8/27/2021 9:30:00 AM

 Lab ID:
 2108G24-007
 Matrix: MEOH (SOIL)
 Received Date: 8/28/2021 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: VP
Chloride	ND	60		mg/Kg	20	8/30/2021 8:39:47 AM	62258
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst	: SB
Diesel Range Organics (DRO)	17	9.0		mg/Kg	1	8/29/2021 7:15:29 AM	62255
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	8/29/2021 7:15:29 AM	62255
Surr: DNOP	109	70-130		%Rec	1	8/29/2021 7:15:29 AM	62255
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	78	17		mg/Kg	5	8/30/2021 1:24:43 PM	62241
Surr: BFB	217	70-130	S	%Rec	5	8/30/2021 1:24:43 PM	62241
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.084		mg/Kg	5	8/30/2021 1:24:43 PM	62241
Toluene	0.23	0.17		mg/Kg	5	8/30/2021 1:24:43 PM	62241
Ethylbenzene	0.34	0.17		mg/Kg	5	8/30/2021 1:24:43 PM	62241
Xylenes, Total	4.6	0.34		mg/Kg	5	8/30/2021 1:24:43 PM	62241
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	5	8/30/2021 1:24:43 PM	62241

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

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

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#### Hall Environmental Analysis Laboratory, Inc.

01-Sep-21

2108G24

WO#:

Client: ENSOLUM
Project: Atlantic B LS 22

Sample ID: MB-62258 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: **62258** RunNo: **80882** 

Prep Date: 8/30/2021 Analysis Date: 8/30/2021 SeqNo: 2855226 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-62258 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 62258 RunNo: 80882

Prep Date: 8/30/2021 Analysis Date: 8/30/2021 SeqNo: 2855227 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 91.3 90 110

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

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

Page 8 of 12

#### Hall Environmental Analysis Laboratory, Inc.

WO#: **2108G24** 

01-Sep-21

Client: ENSOLUM
Project: Atlantic B LS 22

Sample ID: MB-62255	SampT	уре: МЕ	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics				
Client ID: PBS	Batch	ID: <b>62</b>	255	RunNo: <b>80889</b>									
Prep Date: 8/28/2021	Analysis D	ate: 8/	29/2021	S	SeqNo: 2	854722	Units: mg/K	(g					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Diesel Range Organics (DRO)	ND	10											
Motor Oil Range Organics (MRO)	ND	50											
Surr: DNOP	11		10.00		107	70	130						
Sample ID: LCS-62255	SampT	ype: <b>LC</b>	s	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics				
Client ID: LCSS	Batch	ID: <b>62</b>	255	RunNo: <b>80889</b>									
Prep Date: 8/28/2021	Analysis D	ate: 8/	29/2021	S	SeqNo: 2	854723	Units: mg/K	(g					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Diesel Range Organics (DRO)	45	10	50.00	0	90.0	68.9	141						
Surr: DNOP	4.8		5.000		96.5	70	130						
Sample ID: 2108G24-001AM	CompT	una. MC		т	(O - 1 - E								
Campie ID. 2100G24-001AW	<b>S</b> Sampi	ype: <b>M</b> \$	•	res	(Code: El	PA Method	8015M/D: Die	esei Range	Organics				
Client ID: <b>S-12</b>	•	ype: <b>w:</b> iD: <b>62</b>			tcoae: <b>Ei</b> RunNo: <b>8</b>		8015M/D: Die	esel Range	e Organics				
•	•	ID: <b>62</b>	255	R		0889	Units: mg/K	J	e Organics				
Client ID: S-12	Batch	ID: <b>62</b>	255 (29/2021	R	RunNo: 86 GeqNo: 26	0889		J	RPDLimit	Qual			
Client ID: <b>S-12</b> Prep Date: <b>8/28/2021</b> Analyte	Batch Analysis D	i ID: <b>62</b> ate: <b>8/</b>	255 (29/2021	R	RunNo: 86 GeqNo: 26	0889 854727	Units: mg/K	(g	J	Qual			
Client ID: S-12 Prep Date: 8/28/2021 Analyte	Batch Analysis D Result	ID: <b>62</b> ate: <b>8/</b> PQL	<b>255</b> <b>29/2021</b> SPK value	R S SPK Ref Val	RunNo: 8 SeqNo: 2 %REC	0889 854727 LowLimit	Units: mg/K	(g	J	Qual			
Client ID: S-12 Prep Date: 8/28/2021 Analyte Diesel Range Organics (DRO)	Batch Analysis D Result 45 4.6	n ID: <b>62</b> ate: <b>8/</b> PQL 9.8	255 29/2021 SPK value 49.07 4.907	SPK Ref Val	RunNo: 8 SeqNo: 2 %REC 91.4 94.6	0889 854727 LowLimit 15 70	Units: mg/K HighLimit	(g %RPD	RPDLimit	Qual			
Client ID: S-12 Prep Date: 8/28/2021 Analyte Diesel Range Organics (DRO) Surr: DNOP	Batch Analysis D Result 45 4.6 SD SampT	n ID: <b>62</b> ate: <b>8/</b> PQL 9.8	255 29/2021 SPK value 49.07 4.907	SPK Ref Val 0	RunNo: 8 SeqNo: 2 %REC 91.4 94.6	0889 854727 LowLimit 15 70 PA Method	Units: mg/K HighLimit 184 130	(g %RPD	RPDLimit	Qual			
Client ID: S-12 Prep Date: 8/28/2021 Analyte Diesel Range Organics (DRO) Surr: DNOP  Sample ID: 2108G24-001AM	Batch Analysis D Result 45 4.6 SD SampT	PQL 9.8 9.8 9.8	255 29/2021 SPK value 49.07 4.907	SPK Ref Val 0	RunNo: 86 SeqNo: 26 %REC 91.4 94.6 tCode: El	0889 854727 LowLimit 15 70 PA Method 0889	Units: mg/K HighLimit 184 130	%RPD	RPDLimit	Qual			
Client ID: S-12 Prep Date: 8/28/2021 Analyte Diesel Range Organics (DRO) Surr: DNOP  Sample ID: 2108G24-001AM: Client ID: S-12	Batch Analysis D Result 45 4.6 SD SampT Batch	PQL 9.8 9.8 9.8	255 29/2021 SPK value 49.07 4.907 6D 255 29/2021	SPK Ref Val 0	RunNo: 86 ReqNo: 26 REC 91.4 94.6 RCOde: El	0889 854727 LowLimit 15 70 PA Method 0889	Units: mg/K HighLimit 184 130 8015M/D: Die	%RPD	RPDLimit	Qual			
Client ID: S-12 Prep Date: 8/28/2021 Analyte Diesel Range Organics (DRO) Surr: DNOP  Sample ID: 2108G24-001AM: Client ID: S-12 Prep Date: 8/28/2021	Batch Analysis D Result 45 4.6  SD SampT Batch Analysis D	PQL 9.8 9.8 9.8 9.8 9.8	255 29/2021 SPK value 49.07 4.907 6D 255 29/2021	SPK Ref Val 0 Test	RunNo: 86 ReqNo: 26 %REC 91.4 94.6 tCode: El	0889 854727 LowLimit 15 70 PA Method 0889 854728	Units: mg/K HighLimit 184 130  8015M/D: Die Units: mg/K	%RPD esel Range	RPDLimit e Organics				
Client ID: S-12 Prep Date: 8/28/2021 Analyte Diesel Range Organics (DRO) Surr: DNOP  Sample ID: 2108G24-001AM: Client ID: S-12 Prep Date: 8/28/2021 Analyte	Batch Analysis D Result 45 4.6 SD SampT Batch Analysis D Result	PQL 9.8 9.8 9.8 9.8 9.8 9.8 9.8 9.8 9.8	255 29/2021 SPK value 49.07 4.907 6D 255 29/2021 SPK value	SPK Ref Val  0  Tes:  R S SPK Ref Val	RunNo: 8/ ReqNo: 2/ %REC 91.4 94.6 tCode: El RunNo: 8/ SeqNo: 2/ %REC	0889 854727 LowLimit 15 70 PA Method 0889 854728 LowLimit	Units: mg/K HighLimit 184 130  8015M/D: Die Units: mg/K HighLimit	%RPD esel Range  %RPD	RPDLimit  e Organics  RPDLimit				
Client ID: S-12 Prep Date: 8/28/2021  Analyte Diesel Range Organics (DRO) Surr: DNOP  Sample ID: 2108G24-001AM: Client ID: S-12 Prep Date: 8/28/2021  Analyte Diesel Range Organics (DRO)	Batch Analysis D Result 45 4.6  SD SampT Batch Analysis D Result 45	PQL 9.8 9.8 9.8 9.9 9.9	255 29/2021 SPK value 49.07 4.907  6D 255 29/2021 SPK value 49.50 4.950	SPK Ref Val  0  Tesi  R  S  SPK Ref Val  0	RunNo: 86 SeqNo: 26  %REC 91.4 94.6  tCode: El RunNo: 86 SeqNo: 26  %REC 91.1 93.7	0889 854727 LowLimit 15 70 PA Method 0889 854728 LowLimit 15 70	Units: mg/K HighLimit 184 130  8015M/D: Did Units: mg/K HighLimit 184	esel Range (g  %RPD  0.532	RPDLimit  Property of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of				
Client ID: S-12 Prep Date: 8/28/2021 Analyte Diesel Range Organics (DRO) Surr: DNOP  Sample ID: 2108G24-001AM: Client ID: S-12 Prep Date: 8/28/2021 Analyte Diesel Range Organics (DRO) Surr: DNOP	Batch Analysis D Result 45 4.6  SD SampT Batch Analysis D Result 45 4.6  SampT	PQL 9.8 9.8 9.8 9.9 9.9	255 29/2021 SPK value 49.07 4.907  6D 255 29/2021 SPK value 49.50 4.950  BLK	SPK Ref Val 0 Test R SPK Ref Val 0	RunNo: 86 SeqNo: 26  %REC 91.4 94.6  tCode: El RunNo: 86 SeqNo: 26  %REC 91.1 93.7	0889 854727  LowLimit 15 70 PA Method 0889 854728  LowLimit 15 70 PA Method	Units: mg/K HighLimit 184 130 8015M/D: Die Units: mg/K HighLimit 184 130	esel Range (g  %RPD  0.532	RPDLimit  Property of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of				

Client ID:	LCSS	Batch ID:	62246

Result

13

**PQL** 

SampType: LCS

TestCode: EPA Method 8015M/D: Diesel Range Organics

70

HighLimit

130

%RPD

**RPDLimit** 

Qual

Batch ID: **62246** RunNo: **80889** 

10.00

Prep Date: 8/27/2021 Analysis Date: 8/28/2021 SeqNo: 2854738 Units: %Rec

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

SPK value SPK Ref Val %REC LowLimit

#### Qualifiers:

Analyte

Surr: DNOP

Sample ID: LCS-62246

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

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

Page 9 of 12

#### Hall Environmental Analysis Laboratory, Inc.

01-Sep-21

2108G24

WO#:

Client: ENSOLUM
Project: Atlantic B LS 22

Sample ID: LCS-62246 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 62246 RunNo: 80889

Prep Date: 8/27/2021 Analysis Date: 8/28/2021 SeqNo: 2854738 Units: %Rec

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

Surr: DNOP 5.0 5.000 101 70 130

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

Page 10 of 12

#### Hall Environmental Analysis Laboratory, Inc.

WO#: 2108G24

01-Sep-21

**Client: ENSOLUM Project:** Atlantic B LS 22

Sample ID: mb-62241 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 62241 RunNo: 80896

Prep Date: 8/27/2021 Analysis Date: 8/30/2021 SeqNo: 2855133 Units: mq/Kq

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

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 1100 1000 107 70 130

Sample ID: Ics-62241 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 62241 RunNo: 80896

Prep Date: 8/27/2021 Analysis Date: 8/30/2021 SeqNo: 2855134 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 5.0 25.00 O 107 78.6 131

116

70

130

1000 Sample ID: mb-62243 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 62243 RunNo: 80896

1200

Prep Date: 8/27/2021 Analysis Date: 8/30/2021 SeqNo: 2855152 Units: %Rec

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

Surr: BFB 1100 1000 111 70 130

Sample ID: Ics-62243 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 62243 RunNo: 80896

Analysis Date: 8/30/2021 Prep Date: 8/27/2021 SeqNo: 2855153 Units: %Rec

Analyte Result SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 1200 1000 70 Surr: BFB 120 130

#### Qualifiers:

Surr: BFB

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Н
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

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### Hall Environmental Analysis Laboratory, Inc.

WO#: **2108G24** 

01-Sep-21

Client: ENSOLUM
Project: Atlantic B LS 22

Sample ID: <b>mb-62241</b>	SampT	ype: ME	BLK	Tes	tCode: El						
Client ID: PBS	Batch	n ID: <b>62</b> 2	241	F	RunNo: 8	0896					
Prep Date: 8/27/2021	Analysis D	ate: <b>8/</b>	30/2021	9	SeqNo: 2	855181	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	ND	0.025									
Toluene	ND	0.050									
Ethylbenzene	ND	0.050									
Xylenes, Total	ND	0.10									
Surr: 4-Bromofluorobenzene	1.0		1.000		99.8	70	130				

Sample ID: LCS-62241	SampT	s	TestCode: EPA Method 8021B: Volatiles						•	
Client ID: LCSS	Batch ID: <b>62241</b> RunNo: <b>80896</b>				0896					
Prep Date: 8/27/2021	Analysis D	Date: 8/	30/2021	SeqNo: <b>2855182</b>			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val %REC LowLimit		HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.98	0.025	1.000	0	97.9	80	120			
Toluene	0.98	0.050	1.000	0	98.5	80	120			
Ethylbenzene	0.98	0.050	1.000	0	98.2	80	120			
Xylenes, Total	2.9	0.10	3.000	0	97.6	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	70	130			

Sample ID: mb-62243	SampTyp	oe: MBLK	TestC	Code: EPA Method	l 8021B: Volati	les		
Client ID: PBS	Batch II	D: <b>62243</b>	RunNo: <b>80896</b>					
Prep Date: 8/27/2021	Analysis Dat	te: <b>8/30/2021</b>	Se	qNo: <b>2855200</b>	Units: %Rec			
Analyte	Result	PQL SPK value	SPK Ref Val	%REC LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0	1.000		102 70	130			

Sample ID: LCS-62243	SampType: <b>LCS</b>			Tes						
Client ID: LCSS	Batch	ID: <b>62</b>	243	F	RunNo: 8	0896				
Prep Date: 8/27/2021	Analysis Date: 8/30/2021			SeqNo: <b>2855201</b>			Units: %Red	;		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1 000		101	70	130			

#### Qualifiers:

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

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

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

### Sample Log-In Check List

Website: clients.hallenvironmental.com **ENSOLUM** Client Name: Work Order Number: 2108G24 RcptNo: 1 Received By: **Desiree Dominguez** 8/28/2021 9:30:00 AM Completed By: Desiree Dominguez 8/28/2021 9:40:05 AM Reviewed By: DAD 8/28/21 Chain of Custody 1. Is Chain of Custody complete? No Not Present Yes 🗸 2. How was the sample delivered? Courier 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 NA 🗌 5. Sample(s) in proper container(s)? Yes 🗸 No 6. Sufficient sample volume for indicated test(s)? Yes 🗸 No 7. Are samples (except VOA and ONG) properly preserved? Yes 🗸 No No 🗸 NA 🗌 8. Was preservative added to bottles? Yes 9. Received at least 1 vial with headspace <1/4" for AQ VOA? NA 🗸 No Yes Yes No 🗸 10. Were any sample containers received broken? # of preserved bottles checked 11. Does paperwork match bottle labels? Yes 🗸 No 🔲 for pH: (Note discrepancies on chain of custody) <2 or >12 unless noted) Adjusted? No 🗌 12. Are matrices correctly identified on Chain of Custody? Yes 🗸 Yes 🗸 No 🗌 13. Is it clear what analyses were requested? Checked by: CUS/28/4 14. Were all holding times able to be met? Yes 🗸 No (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Yes No 🗌 NA 🗸 Person Notified: Date: By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions: 16. Additional remarks: 17. Cooler Information Cooler No Temp °C Condition Seal Intact Seal No Seal Date Signed By

1.1

Good

Yes

Received by OCD: 1/20/2022	8:03:03 AM		+				Page 178 of 179
NTAL							port.
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District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

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

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

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

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

CONDITIONS

Action 73736

#### **CONDITIONS**

Operator:	OGRID:
Enterprise Field Services, LLC	241602
PO Box 4324	Action Number:
Houston, TX 77210	73736
	Action Type:
	[C-141] Release Corrective Action (C-141)

#### CONDITIONS

Created By		Condition Date
nvelez	None	2/23/2022