

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

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Enterprise Field Services, LLC	OGRID: 241602
Contact Name: Thomas Long	Contact Telephone: 505-599-2286
Contact email: tjlong@eprod.com	Incident # (assigned by OCD): nAPP2124533703
Contact mailing address: 614 Reilly Ave, Farmington, NM 87401	

Location of Release Source

Latitude **36.845013** Longitude **-107.870609** (NAD 83 in decimal degrees to 5 decimal places)

Site Name Atlantic BLS #22	Site Type Natural Gas Gathering Pipeline
Date Release Discovered: 09/01/2021	Serial Number (if applicable): N/A

Unit Letter	Section	Township	Range	County
C	3	30N	10W	San Juan

Surface Owner: State Federal Tribal Private (Name: Marc and Marcia Yoos)

Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input checked="" type="checkbox"/> Condensate	Volume Released (bbls): 3-5 BBLS	Volume Recovered (bbls): None
<input checked="" type="checkbox"/> Natural Gas	Volume Released (Mcf): 0.281 MCF	Volume Recovered (Mcf): None
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units):	Volume/Weight Recovered (provide units)

Cause of Release: On September 1, 2021, Enterprise discovered another release of natural gas liquids from the Atlantic BLS #22 pipeline during repairs and remediation activities associated with a previous release on the BLS #22 pipeline. The pipeline was temporarily out of service for the repairs and remediation for the other release. No liquids were observed on the ground surface. The release was underground. Liquids are present in the subsurface. The release was located in a small ephemeral wash (blue line) on a topographic map. No residences were affected. No emergency services responded. Remediation was completed on September 3, 2021. The final excavation dimensions measured approximately 33 feet long by 18 feet wide by 20 feet deep. Approximately 240 cubic yards of hydrocarbon impacted soil was excavated and transported to a New Mexico Oil Conservation Division (NMOCD) approved land farm. A third party closure report is included with this "Final." C-141.

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

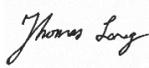
The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled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

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

- A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Thomas Long Title: Senior Environmental Scientist

Signature:  Date: 1-20-2022

email: tjlong@eprod.com Telephone: (505) 599-2286

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by:  Date: 02/23/2022

Printed Name: Nelson Velez Title: Environmental Specialist – Adv



CLOSURE REPORT

Property:

**Atlantic BLS #22 (9/1/21)
Unit Letter C, S3 T30N R10W
San Juan County, New Mexico**

New Mexico EMNRD OCD Incident ID No. NAPP2124533703

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:

A handwritten signature in blue ink, appearing to read "L. Daniell".

Landon Daniell
Staff Geologist

A handwritten signature in black ink, appearing to read "Kyle Summers".

Kyle Summers, CPG
Sr. Project Manager

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CLOSURE REPORT

**Atlantic BLS #22 (9/1/21)
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 (9/1/21) (Site)
Incident ID	NAPP2124533703
Location:	36.845013° North, 107.870609° 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 September 1, 2021, Enterprise discovered a release on the Atlantic BLS #22 pipeline during repairs and remediation of a different release on the same pipeline. The pipeline was already isolated and locked out of service by Enterprise due to the previous repairs. Enterprise immediately 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). Seven PODs (SJ-00050, SJ-01048, SJ-01651, SJ-03460, SJ-

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Enterprise Field Services, LLC
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November 15, 2021



03230, SJ-04020-POD1, and SJ-03728-POD1) were identified within a one-mile radius of the Site. Of those seven, only PODs SJ-00050, SJ-03230, SJ-03460, and SJ-03728 POD1 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 0.73 miles from the Site, and approximately 102 feet higher in elevation than the Site (approximately 6,294 feet). The records for these PODs indicate 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 0.20 miles from the Site and approximately 33 feet lower in elevation than the Site. The record for this POD indicates a depth to water of 70 feet bgs. As plotted by the OSE on the interactive map, POD SJ-03728 POD1 is approximately 0.95 miles from the Site and approximately 53 feet higher in elevation than the Site. The record for this POD indicates a depth to water of 230 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, 9 are located within approximately one mile 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 located approximately 0.14 miles west of the site and is approximately 2 feet higher in elevation than the Site (6,294 feet). 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 located approximately 0.53 miles northeast of the site and is approximately 16 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 located approximately 0.58 miles northwest of the site and is approximately 102 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 located approximately 0.79 miles east of the site. The records for this CPW did not indicate an elevation, but it appears to be approximately 91 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 located approximately 0.91 miles north of the site and is approximately 51 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 located approximately 0.90 miles northeast of the site and is approximately 108 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 located approximately 0.66 miles southwest of the site and is approximately 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 located approximately 1.0 miles south of the site and is approximately 172 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 located approximately 0.95 miles southeast of the site and is approximately 170 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 located within 300 feet of a NM EMNRD OCD-defined continuously flowing watercourse or significant watercourse. An unnamed ephemeral wash intersects the release area (**Figure C, Appendix B**).
- The Site is not located within 200 feet of a lakebed, sinkhole, or playa lake.
- The Site is not located within 300 feet of a permanent residence, school, hospital, institution, or church (**Figure D, Appendix B**).

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- No springs, or private domestic fresh water wells used by less than five households for domestic or stock watering purposes were identified within 500 feet of the Site (**Figure E, Appendix B**).
- No fresh water wells or springs were identified within 1,000 feet of the Site. The residences located within the 1,000 feet may 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 Statutes Annotated (NMSA) 1978, Section 3-27-3.
- Based on information identified in the U.S. Fish & Wildlife Service National Wetlands Inventory Wetlands Mapper, the Site is not 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 ¹	Method	Limit
Chloride	EPA 300.0 or SM4500 Cl B	600 mg/kg
TPH (GRO+DRO+MRO) ²	EPA SW-846 Method 8015	100 mg/kg
BTEX ³	EPA SW-846 Method 8021 or 8260	50 mg/kg
Benzene	EPA SW-846 Method 8021 or 8260	10 mg/kg

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

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

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

3.0 SOIL REMEDIATION ACTIVITIES

On September 1, 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. (Halo) provided heavy equipment and labor support, while Ensolum provided environmental consulting support.

The final excavation measured approximately 33 feet long and 18 feet wide at the maximum extents. The maximum depth of the excavation measured approximately 20 feet bgs. The lithology encountered during the completion of remediation activities consisted primarily of unconsolidated silty sand.

An estimated total of 240 cubic yards of petroleum hydrocarbon affected soil was 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 (8/16/21) site. Unaffected soils resulting from additional excavation to expose more pipeline for wrapping or replacement was also inadvertently transported to the landfarm. The excavation

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was backfilled with imported fill and fill provided by the landowner and was subsequently contoured and compacted to provide a suitable driving surface.

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

4.0 SOIL SAMPLING PROGRAM

Ensolum field screened the soil samples from the excavation utilizing a 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 13 composite soil samples (S-1 through S-13) 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 excavator bucket was utilized to obtain fresh aliquots from each area of the excavation. Regulatory correspondence is provided in **Appendix E**.

On September 3, 2021, a sampling event was performed at the Site. The NM EMNRD OCD was notified of the sampling event although no representative was present during sampling activities. Composite soil samples S-1 (0'-11'), S-4 (0'-12'), S-5 (0'-20'), S-7 (13'-20'), S-8 (0'-20'), S-9 (0'-13'), S-10 (0'-11'), S-12 (0'-11'), and S-13 (11'-20') were collected from vertical or near vertical walls of the excavation. Composite soil samples S-2 (0'-11') and S-3 (0'-13') were collected from the sloped floors/end-wall on the eastern side of the excavation. Composite soil samples S-6 (20') and S-11 (11'-13') were collected from the floors 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 benzene, BTEX, TPH, and chloride laboratory analytical results or laboratory practical quantitation limits (PQLs) / reporting limits (RLs) associated with the composite soil samples (S-1 through S-13) to the applicable NM EMNRD OCD Tier I 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-6 and S-7 indicate total BTEX concentrations of 0.16 mg/kg and 0.10 mg/kg, respectively, 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

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laboratory PQLs/RLs, which are less than the applicable NM EMNRD OCD closure criteria of 50 mg/kg.

- The laboratory analytical results for the composite soil samples indicate 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 result for composite soil sample S-2 indicates a chloride concentration of 69 mg/kg, which is less than the applicable NM EMNRD OCD closure criteria of 600 mg/kg. The laboratory analytical results for the remaining 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 excavation was backfilled with clean imported fill and unaffected fill provided by the landowner. The majority of the excavation was located in the road and was backfilled and compacted to provide a suitable driving surface.

8.0 FINDINGS AND RECOMMENDATION

- Thirteen 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 240 cubic yards of petroleum hydrocarbon affected soil was 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,

Closure Report
Enterprise Field Services, LLC
Atlantic BLS #22 (9/1/21)
November 15, 2021



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.

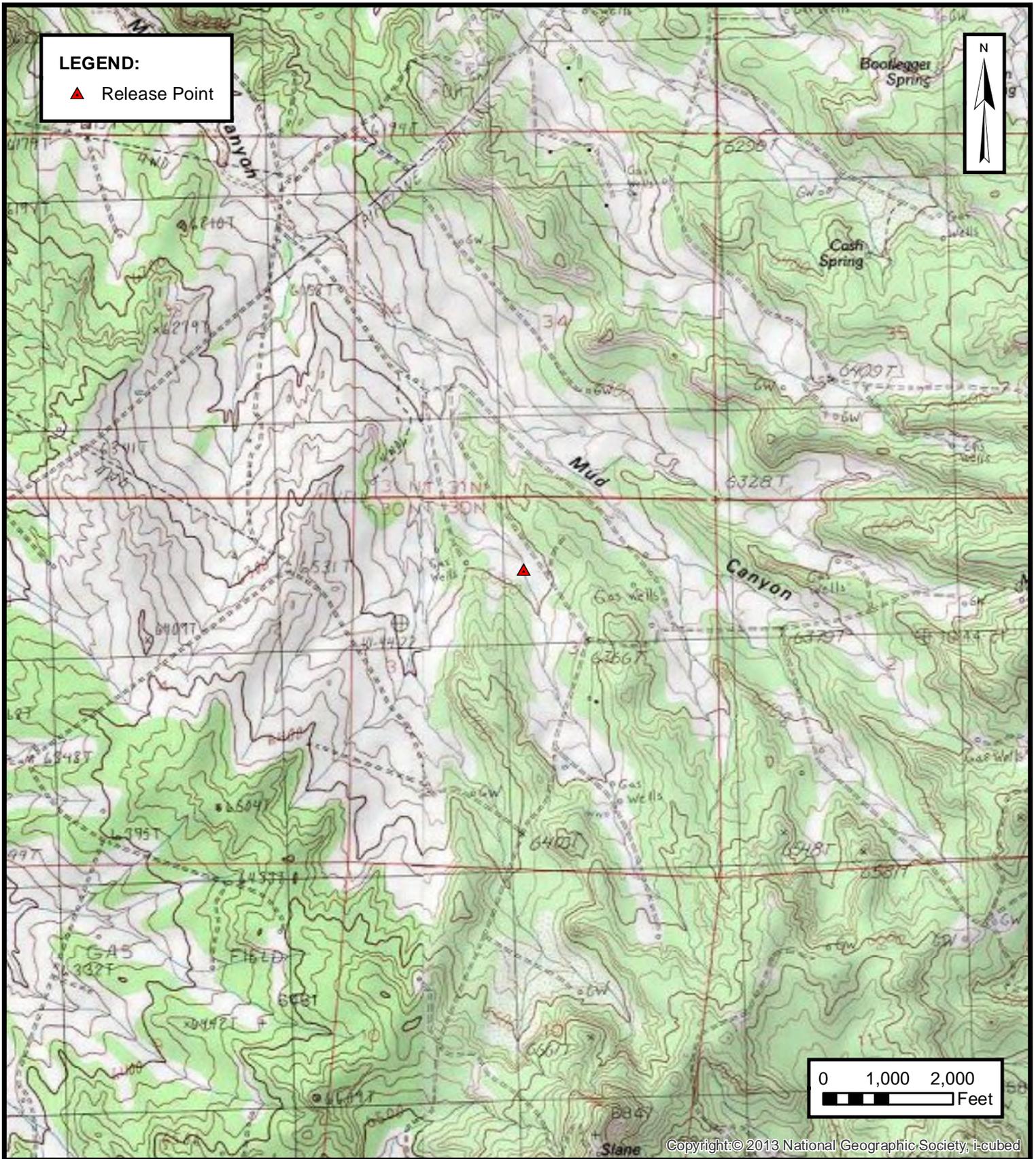
9.3 Reliance

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.



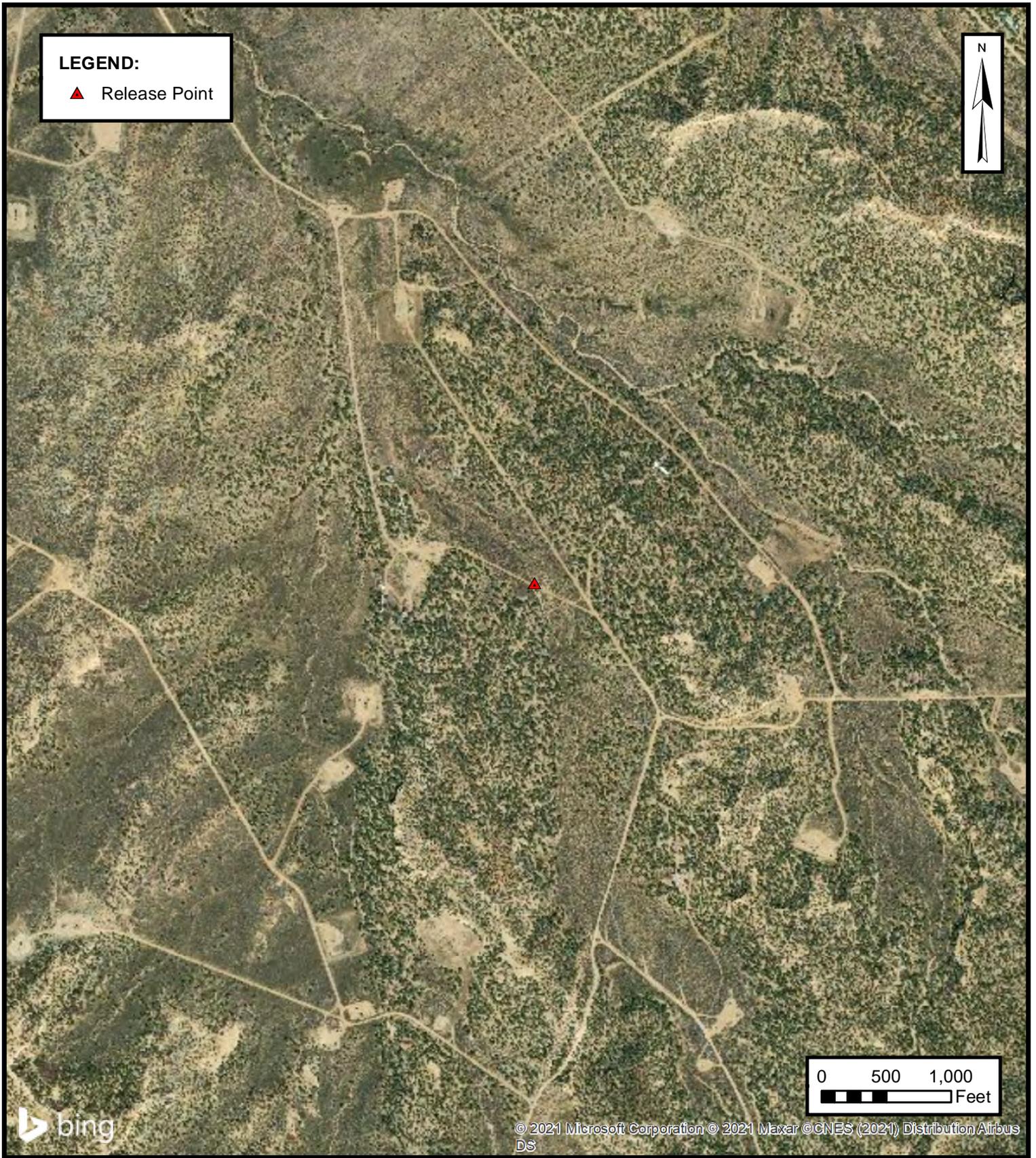
APPENDIX A

Figures



TOPOGRAPHIC MAP
 ENTERPRISE FIELD SERVICES, LLC
 ATLANTIC BLS #22 (9/1/21)
 Unit Letter C, S3 T30N R10W, San Juan County, New Mexico
 36.845013° N, 107.870609° W
 PROJECT NUMBER: 05A1226154

FIGURE
1



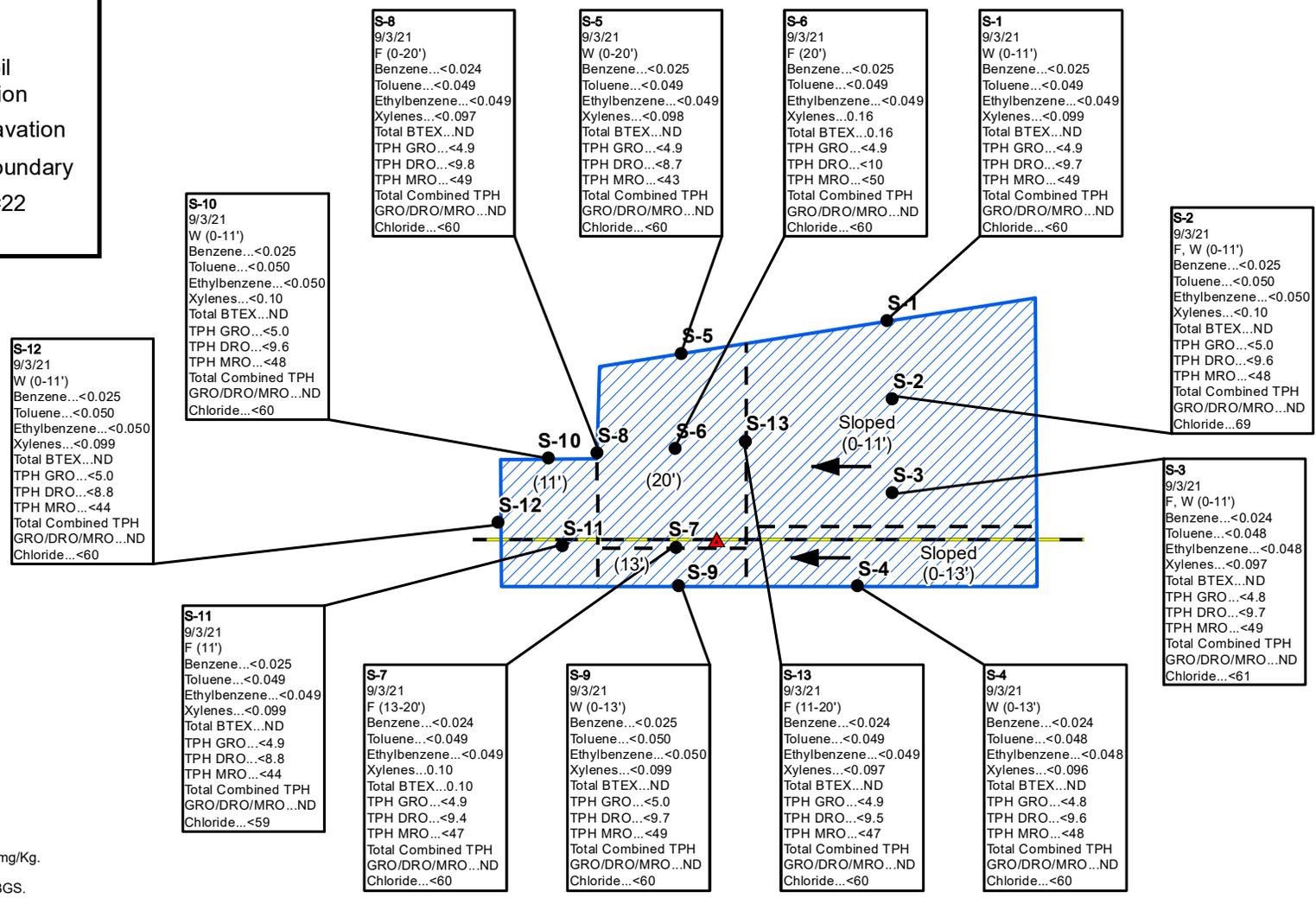
ENSOLUM
Environmental & Hydrogeologic Consultants

SITE VICINITY MAP
ENTERPRISE FIELD SERVICES, LLC
ATLANTIC BLS #22 (9/1/21)
Unit Letter C, S3 T30N R10W, San Juan County, New Mexico
36.845013° N, 107.870609° W
PROJECT NUMBER: 05A1226154

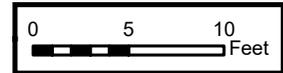
FIGURE
2

LEGEND:

- ▲ Release Point
- Composite Soil Sample Location
- ▨ Extent of Excavation
- - Excavation Boundary
- Atlantic B LS#22 Pipeline



NOTES:
 All Concentrations Are Listed in mg/Kg.
 All Depths Are Listed in Feet BGS.
 W- Wall Sample
 F- Floor Sample



SITE MAP WITH SOIL ANALYTICAL RESULTS

ENTERPRISE FIELD SERVICES, LLC
 ATLANTIC BLS #22 (9/1/21)
 Unit Letter C, S3 T30N R10W, San Juan County, New Mexico
 36.845013° N, 107.870609° W

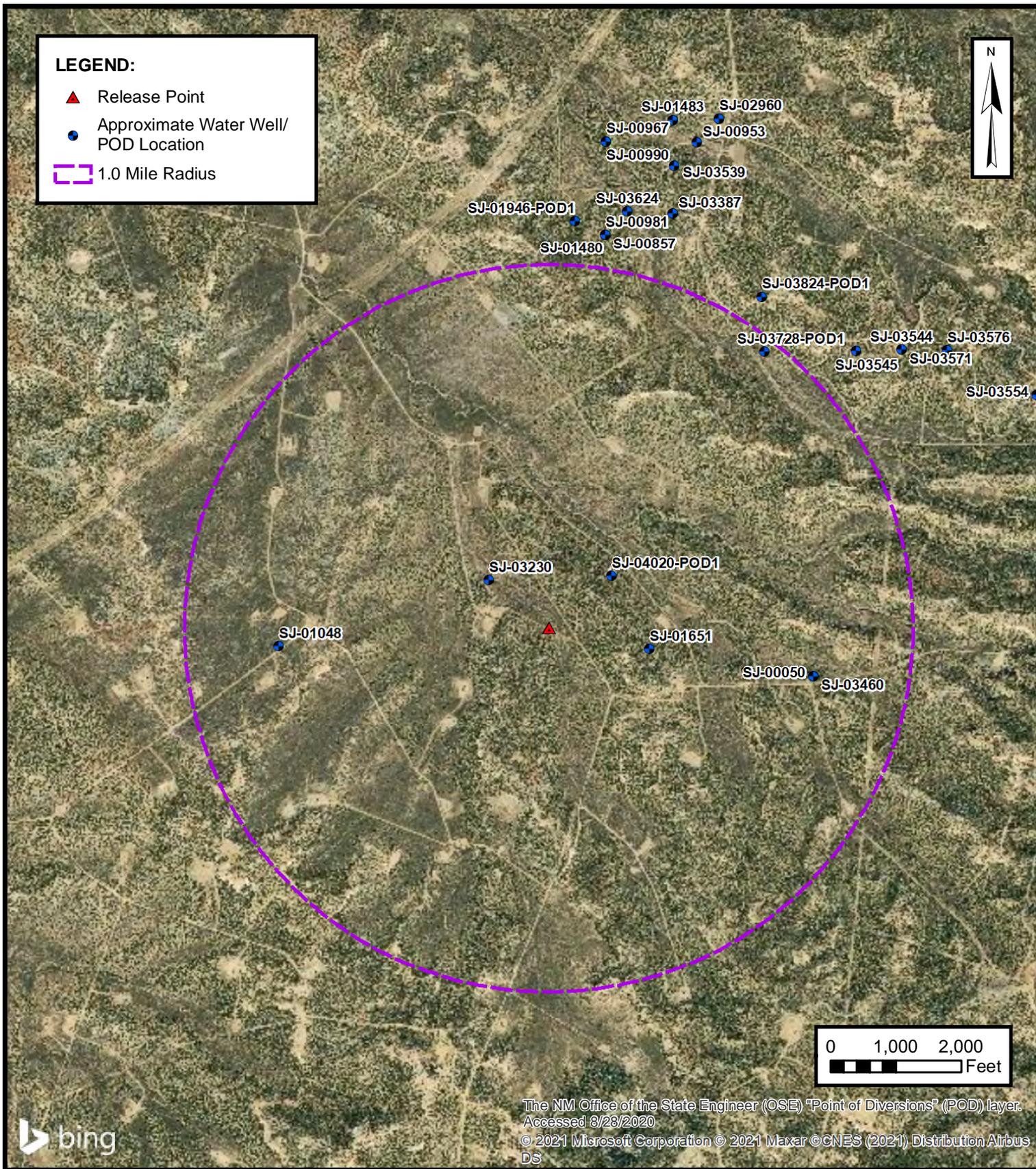
PROJECT NUMBER: 05A1226154

**FIGURE
3**



APPENDIX B

Siting Figures and Documentation



1.0 MILE RADIUS WATER WELL/ POD LOCATION MAP

ENTERPRISE FIELD SERVICES, LLC
ATLANTIC BLS #22 (9/1/21)

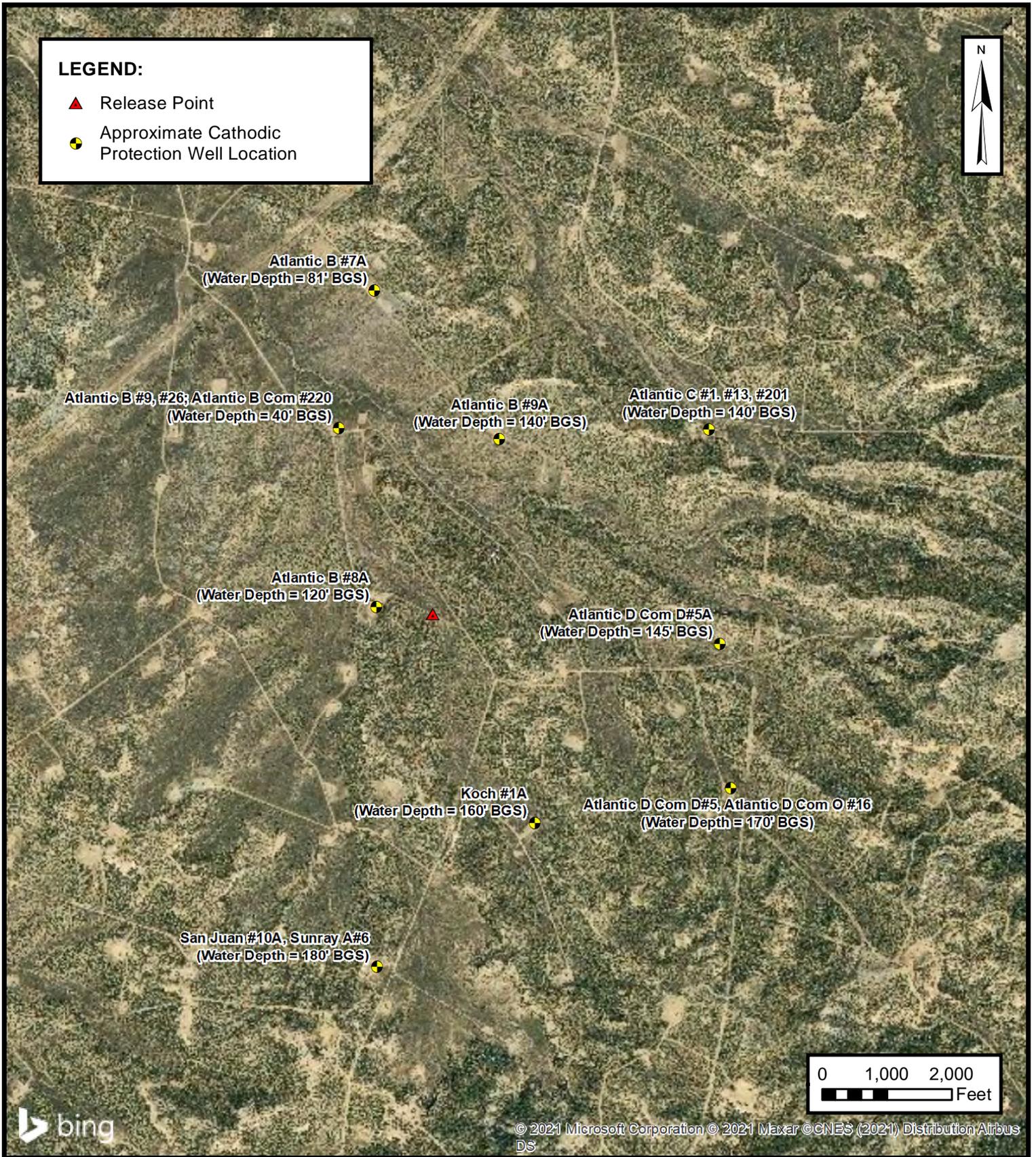
Unit Letter C, S3 T30N R10W, San Juan County, New Mexico
36.845013° N, 107.870609° W

PROJECT NUMBER: 05A1226154

FIGURE

A





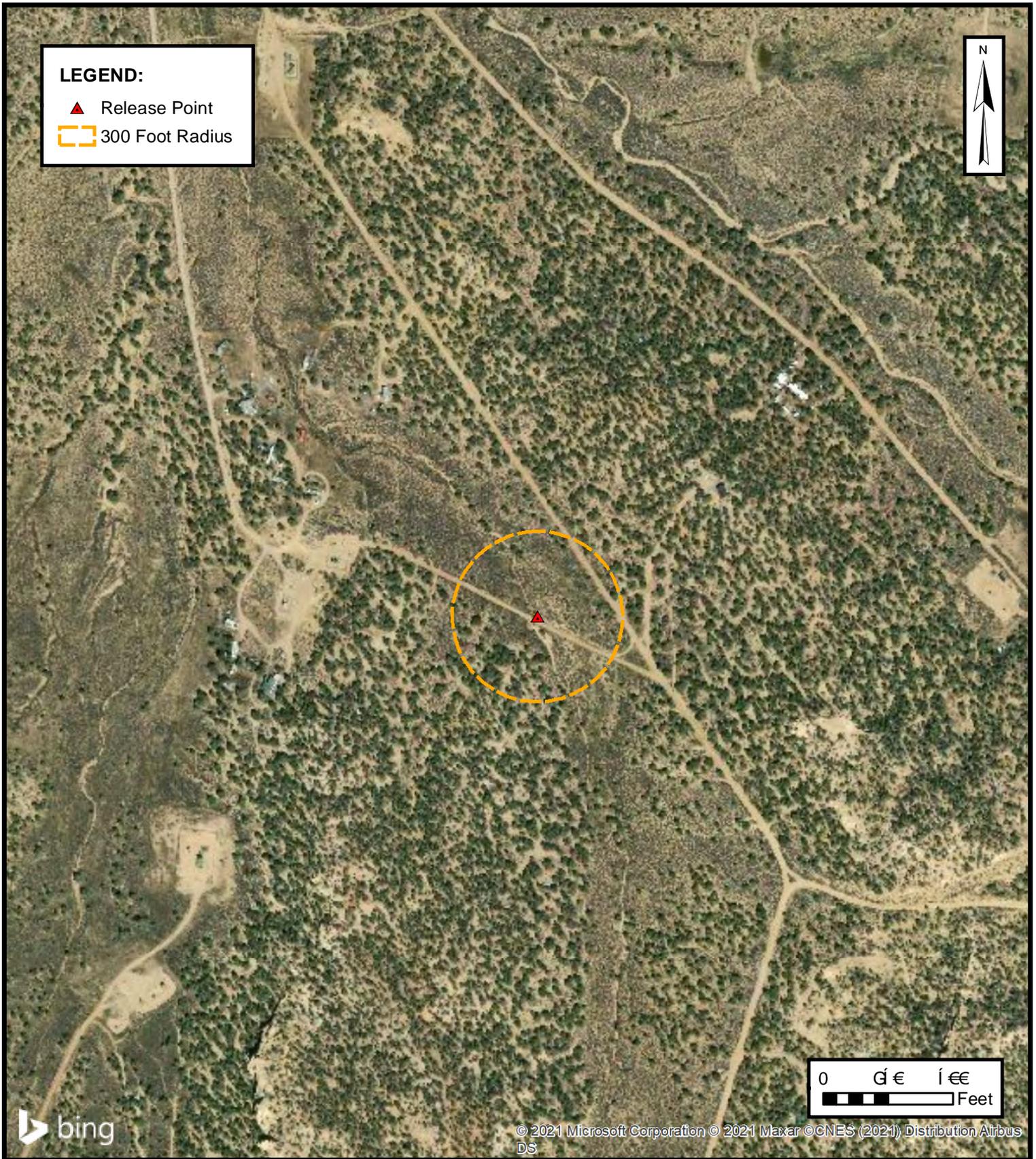
© 2021 Microsoft Corporation © 2021 Maxar © CNES (2021) Distribution Airbus DS



Environmental & Hydrogeologic Consultants

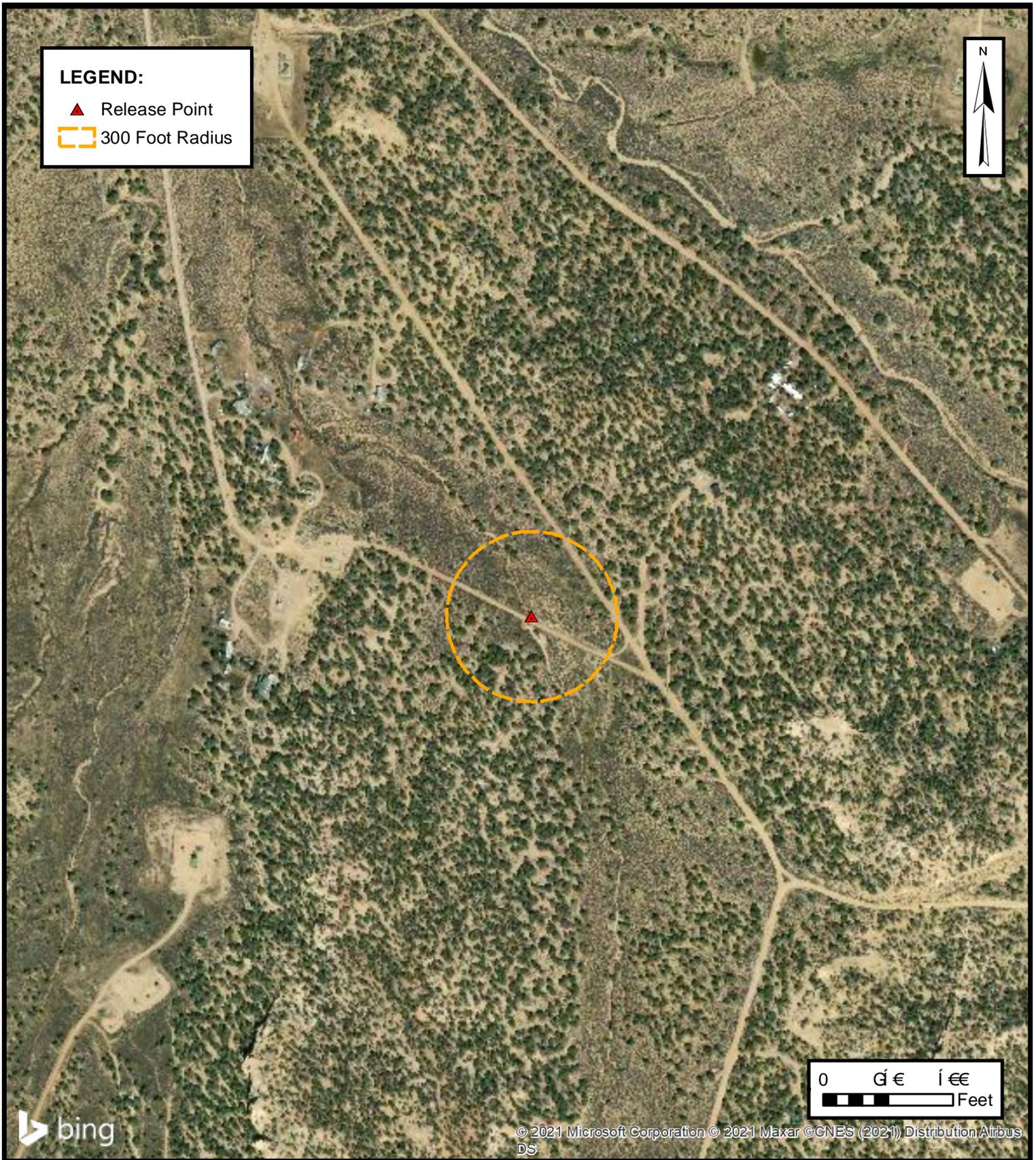
**CATHODIC PROTECTION WELL RECORDED
DEPTH TO WATER**
 ENTERPRISE FIELD SERVICES, LLC
 ATLANTIC BLS #22 (9/1/21)
 Unit Letter C, S3 T30N R10W, San Juan County, New Mexico
 36.845013° N, 107.870609° W
 PROJECT NUMBER: 05A1226154

**FIGURE
B**



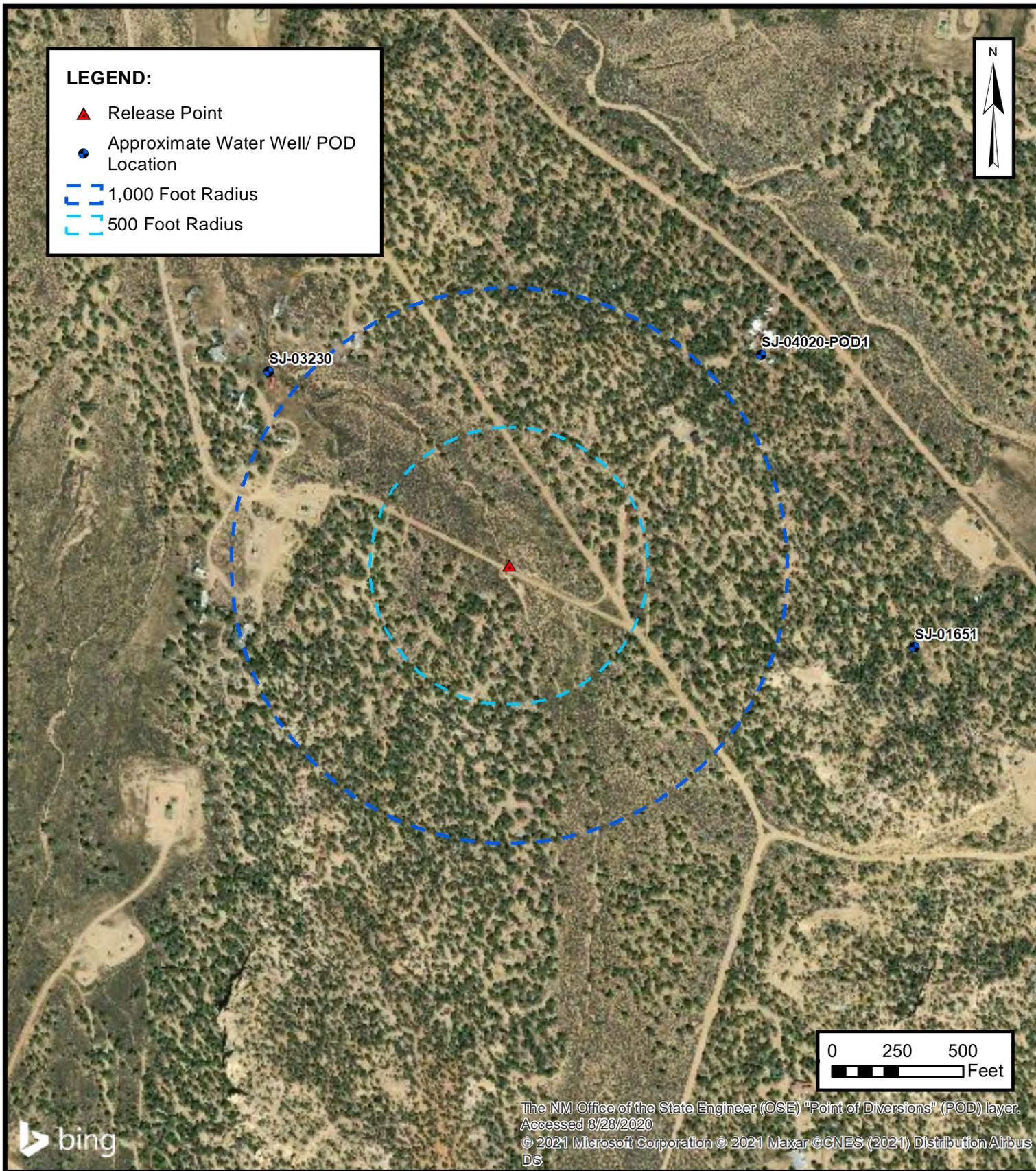
**300 FOOT RADIUS
WATERCOURSE AND DRAINAGE IDENTIFICATION**
 ENTERPRISE FIELD SERVICES, LLC
 ATLANTIC BLS #22 (9/1/21)
 Unit Letter C, S3 T30N R10W, San Juan County, New Mexico
 36.845013° N, 107.870609° W
 PROJECT NUMBER: 05A1226154

**FIGURE
C**



**300 FOOT RADIUS
 OCCUPIED STRUCTURE IDENTIFICATION**
 ENTERPRISE FIELD SERVICES, LLC
 ATLANTIC BLS #22 (9/1/21)
 Unit Letter C, S3 T30N R10W, San Juan County, New Mexico
 36.845013° N, 107.870609° W
 PROJECT NUMBER: 05A1226154

**FIGURE
 D**



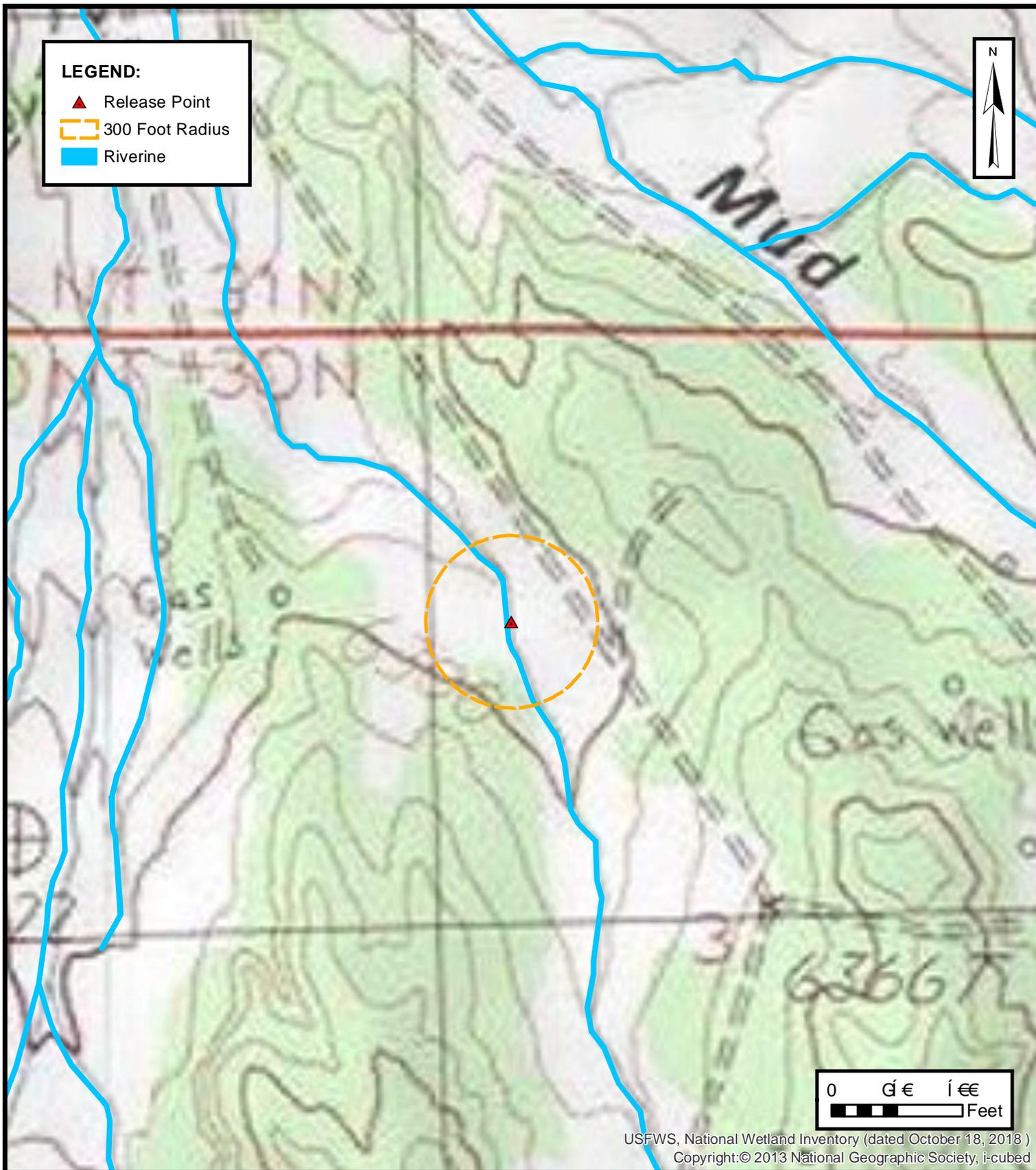
ENSOLUM
 Environmental & Hydrogeologic Consultants

WATER WELL AND NATURAL SPRING LOCATION

ENTERPRISE FIELD SERVICES, LLC
 ATLANTIC BLS #22 (9/1/21)
 Unit Letter C, S3 T30N R10W, San Juan County, New Mexico
 36.845013° N, 107.870609° W

PROJECT NUMBER: 05A1226154

FIGURE
E



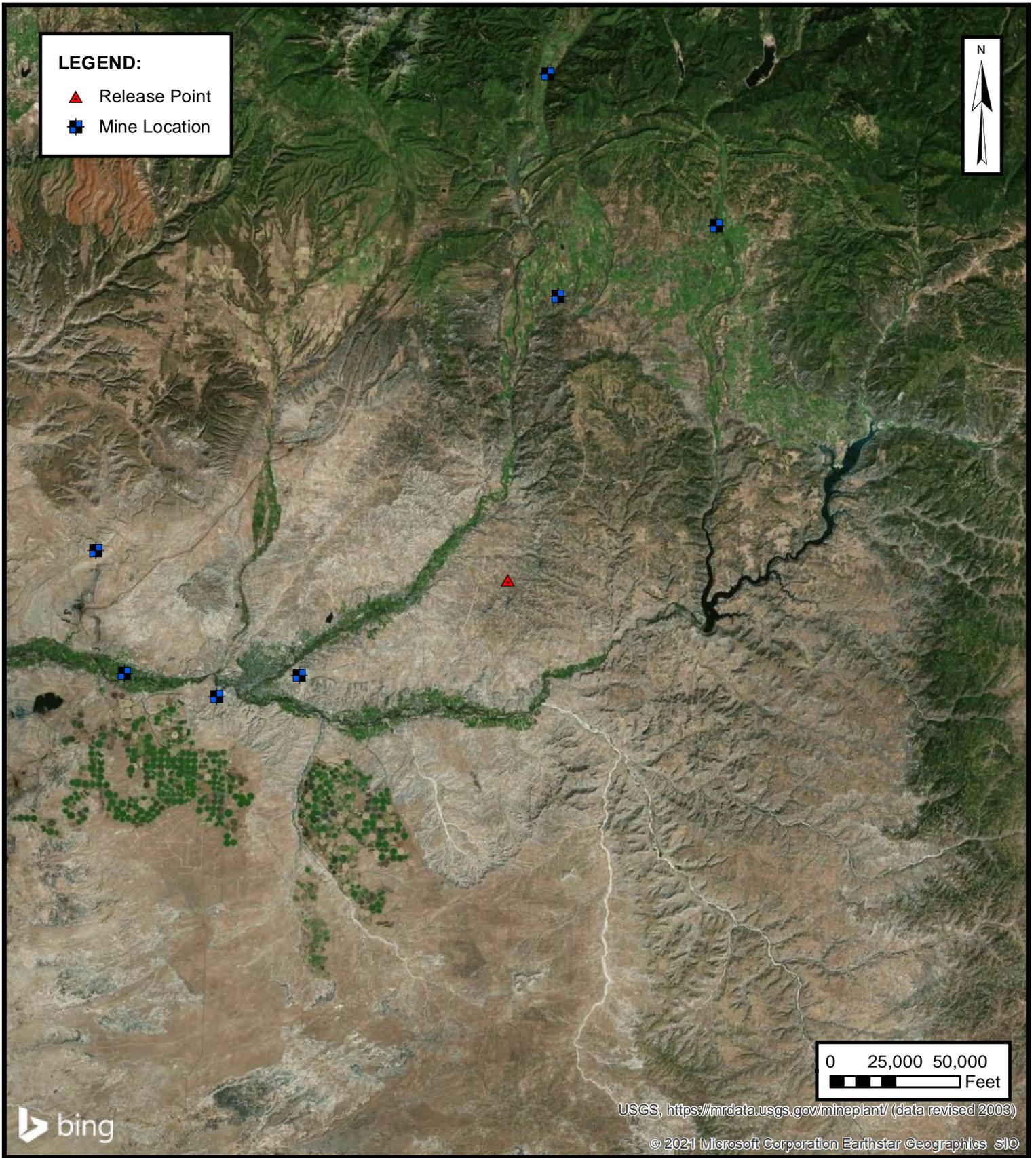
WETLANDS

ENTERPRISE FIELD SERVICES, LLC
 ATLANTIC BLS #22 (9/1/21)
 Unit Letter C, S3 T30N R10W, San Juan County, New Mexico
 36.845013° N, 107.870609° W

PROJECT NUMBER: 05A1226154

FIGURE

F



ENSOLUM
Environmental & Hydrogeologic Consultants

MINES, MILLS AND QUARRIES

ENTERPRISE FIELD SERVICES, LLC
ATLANTIC BLS #22 (9/1/21)
Unit Letter C, S3 T30N R10W, San Juan County, New Mexico
36.845013° N, 107.870609° W

PROJECT NUMBER: 05A1226154

FIGURE

G



ENSOLUM
Environmental & Hydrogeologic Consultants

100-YEAR FLOOD PLAIN MAP

ENTERPRISE FIELD SERVICES, LLC
 ATLANTIC BLS #22 (9/1/21)
 Unit Letter C, S3 T30N R10W, San Juan County, New Mexico
 36.845013° N, 107.870609° W

PROJECT NUMBER: 05A1226154

FIGURE

H



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 Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
SJ 00050	SJ	SJ	SJ	2	3	1	02	30N	10W	245187	4081290*	520	306	214
SJ 03230	SJ	SJ	SJ	1	2	1	03	30N	10W	243782	4081752*	120	70	50
SJ 03460	SJ	SJ	SJ	2	3	1	02	30N	10W	245187	4081290*	520	500	20
SJ 04020 POD1	SJ	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.



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 Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column	
SJ 00981	SJ	SJ	SJ	1	2	34	31N	10W	244338	4083246*		164	118	46	
SJ 01480	SJ	SJ	SJ	1	2	34	31N	10W	244338	4083246*		245	125	120	
SJ 01946 POD1	SJ	SJ	SJ	1	2	34	31N	10W	244207	4083309		187			
SJ 03387	SJ	SJ	SJ	1	2	2	34	31N	10W	244634	4083331*		250	200	50
SJ 03544	SJ	SJ	SJ	4	4	1	35	31N	10W	245616	4082705*		325	220	105
SJ 03545	SJ	SJ	SJ	3	4	1	35	31N	10W	245416	4082705*		455	317	138
SJ 03554	SJ	SJ	SJ	1	2	4	35	31N	10W	246198	4082488*		454	317	137
SJ 03570	SJ	SJ	SJ	4	4	2	35	31N	10W	246399	4082687*		250		
SJ 03571	SJ	SJ	SJ	4	4	1	35	31N	10W	245616	4082705*		250		
SJ 03576	SJ	SJ	SJ	3	3	2	35	31N	10W	245814	4082696*		450	137	313
SJ 03624	SJ	SJ	SJ	2	1	2	34	31N	10W	244437	4083345*		165	65	100
SJ 03728 POD1	SJ	SJ	SJ	3	3	1	35	31N	10W	245017	4082714*		365	230	135
SJ 03824 POD1	SJ	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

228062

1. Name and Address of Applicant:

Carl L. Foust
Box 187
Aztec N.M. 87410

STATE ENGINEER
SANTA FE, N.M.

File No. SJ-1651

'82 NOV 23 AM 11 09

2. Describe well location under one of the following subheadings:

a. 1/4 NE 1/4 of Sec. 3 Twp. 30N Rge. 10W N.M.P.M., in SAN JUAN County.

b. Tract No. of Map No. of the

c. Lot No. 2 H of Block No. of the Subdivision, recorded in SAN JUAN County.

d. X = feet, Y = feet, N.M. Coordinate System Zone in the Grant.

e. Give street address or route and box No. of property upon which well is to be located, or location by direction and distance from known landmarks 3 1/2 Miles East on Heart Canyon Road Turn Right To Y In Road Then Left To Lot

3. Approximate depth (if known) From 100' to 150' feet; outside diameter of casing 4 1/2 inches.

Name of driller (if known)

4. Use of water (check appropriate box or boxes):

- [X] One household, non-commercial trees, lawn and garden not to exceed 1 acre.
[X] Livestock watering.
[] More than one household, non-commercial trees, lawns and gardens not to exceed a total of 1 acre.
[] Drinking and sanitary purposes and the irrigation of non-commercial trees, shrubs and lawns in conjunction with a commercial operation.
[] Prospecting, mining or drilling operations to discover or develop natural resources.
[] Construction of public works, highways and roads.

If any of the last four were marked, give name and nature of business under Remarks. (Item 5)

5. Remarks:

I, Carl L. Foust, affirm that the foregoing statements are true to the best of my knowledge and belief and that development shall not commence until approval of the permit has been obtained.

Carl L. Foust, Applicant

By:

Date: 10/22/82

ACTION OF STATE ENGINEER

This application is approved for the use indicated, subject to all general conditions and to the specific conditions numbered 4 on the reverse side hereof. This permit will automatically expire unless this well is drilled or driven and the well record filed on or before November 30, -1983

S.E. Reynolds, State Engineer

By: E.C. Barry, Water Resource Spec. I, Water Rights Division

Date: 11/29/82

File No. SJ-1651

GENERAL CONDITIONS OF APPROVAL

- A. The maximum amount of water that may be appropriated under this permit is 3 acre feet in any calendar year.
- B. 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) Owner of well Tonia Goelz Owner's Well No. SJ-3230
 Street or Post Office Address 182 CR 2772
 City and State Aztec, N.M. 87410

Well was drilled under Permit No. SJ-3230 and is located in the:

- a. NW ¼ NE ¼ NW ¼ _____ ¼ of Section 3 Township 30N Range 10W N.M.P.M.
- b. Tract No. _____ of Map No. _____ of the _____
- c. Lot No. _____ of Block No. _____ of the _____
 Subdivision, recorded in SAN JAUN County.
- d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in the _____ Grant.

(B) Drilling Contractor Bill Hargis Sr. License No. WD-1508

Address 16 CR 3523 Flora Vista N.M. 87410

Drilling Began 7-6-2002 Completed 7-10-2002 Type tools Cable Tool Size of hole 6 in.

Elevation of land surface or _____ at well is _____ ft. Total depth of well 120 ft.

Completed well is shallow artesian. Depth to water upon completion of well 70 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
88	105	17	Course Blue Water Sand, small gravel	3

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To
4 1/2	sch 80	plas.	0	120	20		70	120
7	20		0	10	Surface Casing			

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				
0	120				Clear Water

Section 5. PLUGGING RECORD

Plugging Contractor _____

Address _____

Plugging Method _____

Date Well Plugged _____

Plugging approved by: _____

State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received 7-19-2002 Quad _____ FWL _____ FSL _____

File No. SJ-3230 Use Domestic Location No. 30N.10W.3.121

STATE ENGINEER OFFICE
 AZTEC, N.M. MEXICO
 02 JUL 19 PM 4 00



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

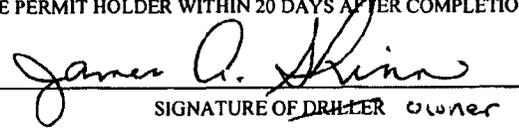
www.ose.state.nm.us

STATE ENGINEER OFFICE
AZTEC, NEW MEXICO

2012 AUG 16 AM 11:01

1. GENERAL AND WELL LOCATION	POD NUMBER (WELL NUMBER)				OSE FILE NUMBER(S) SJ-4020 POD1									
	WELL OWNER NAME(S) James A. Shinn				PHONE (OPTIONAL) 432-464-0002									
	WELL OWNER MAILING ADDRESS 1207 La Paz				CITY Andrews		STATE Texas		ZIP 79714					
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE	MINUTES 36	SECONDS 50	49.70 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84								
	LONGITUDE	107	52	3.10 W										
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS 198 Road 2772, Aztec, NM 87410. Well is located uphill side of the trailer, next to the small well house.														
2. OPTIONAL	(2.5 ACRE) ¼		(10 ACRE) ¼		(40 ACRE) NW ¼		(160 ACRE) NE ¼		SECTION 3		TOWNSHIP 30		RANGE 10	
											<input checked="" type="checkbox"/> NORTH <input type="checkbox"/> SOUTH		<input type="checkbox"/> EAST <input checked="" type="checkbox"/> WEST	
	SUBDIVISION NAME				LOT NUMBER				BLOCK NUMBER		UNIT/TRACT			
HYDROGRAPHIC SURVEY								MAP NUMBER		TRACT NUMBER				
3. DRILLING INFORMATION	LICENSE NUMBER		NAME OF LICENSED DRILLER Terry Hood				NAME OF WELL DRILLING COMPANY Western Water Wells							
	DRILLING STARTED		DRILLING ENDED		DEPTH OF COMPLETED WELL (FT) 325		BORE HOLE DEPTH (FT)		DEPTH WATER FIRST ENCOUNTERED (FT)					
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)								STATIC WATER LEVEL IN COMPLETED WELL (FT)					
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD <input type="checkbox"/> ADDITIVES - SPECIFY:													
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY:													
	DEPTH (FT)		BORE HOLE DIA. (IN)		CASING MATERIAL		CONNECTION TYPE (CASING)		INSIDE DIA. CASING (IN)		CASING WALL THICKNESS (IN)		SLOT SIZE (IN)	
	FROM	TO												
4. WATER BEARING STRATA	DEPTH (FT)		THICKNESS (FT)		FORMATION DESCRIPTION OF PRINCIPAL WATER-BEARING STRATA (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)						YIELD (GPM)			
	FROM	TO												
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA								TOTAL ESTIMATED WELL YIELD (GPM)						

FOR OSE INTERNAL USE				WELL RECORD & LOG (Version 6/9/08)			
FILE NUMBER SJ-4020		POD NUMBER POD1		TRN NUMBER		PAGE 1 OF 2	
LOCATION 30N. 10W. 03. 210							

5. SEAL AND PUMP	TYPE OF PUMP: <input checked="" type="checkbox"/> SUBMERSIBLE <input type="checkbox"/> JET <input type="checkbox"/> NO PUMP - WELL NOT EQUIPPED <input type="checkbox"/> TURBINE <input type="checkbox"/> CYLINDER <input type="checkbox"/> OTHER - SPECIFY:						
	ANNULAR SEAL AND GRAVEL PACK	DEPTH (FT)		BORE HOLE DIA. (IN)	MATERIAL TYPE AND SIZE	AMOUNT (CUBIC FT)	METHOD OF PLACEMENT
		FROM	TO				
6. GEOLOGIC LOG OF WELL	DEPTH (FT)		THICKNESS (FT)	COLOR AND TYPE OF MATERIAL ENCOUNTERED (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)	WATER BEARING?		
	FROM	TO			<input type="checkbox"/> YES	<input type="checkbox"/> NO	
	ATTACH ADDITIONAL PAGES AS NEEDED TO FULLY DESCRIBE THE GEOLOGIC LOG OF THE WELL						
7. TEST & ADDITIONAL INFO	WELL TEST METHOD: <input type="checkbox"/> BAILER <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> OTHER - SPECIFY:						
	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.						
	ADDITIONAL STATEMENTS OR EXPLANATIONS: The Well Log is being submitted by the owner and filled out to the best of his ability. This well was drilled in 1991 and no permit was ever filed and so an after-the-fact well permit was issued. This Well log is being submitted to satisfy the conditions of approval.						
8. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:						
	 SIGNATURE OF DRILLER owner			8/16/2013 DATE			

STATE ENGINEER OFFICE
 AZTEC, NEW MEXICO
 2012 AUG 16 AM 11:01

FOR USE INTERNAL USE		WELL RECORD & LOG (Version 6/9/08)	
FILE NUMBER	SN-4020	POD NUMBER	POD1
LOCATION	30N. 10N. 03. 210	TRN NUMBER	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. Foust:

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. 102317 covering the \$1.00 filing fee.

Very truly yours,

S.E. Reynolds
State Engineer

By: *E.C. Barry*

E.C. Barry
Water Resources
Spec I
Water Rights Division

dg
encl.
cc - J.T. Smith

405-0765
#505

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-3230
Tonia Goelz
182 CR 2772
Aztec, NM 87410

2. Describe well location under one of the following subheadings:
a. NW $\frac{1}{4}$ NE $\frac{1}{4}$ NW $\frac{1}{4}$ of Sec. 3 Twp. 30N Rge. 10W NMPH,
in San Juan County.
b. X = _____ feet, Y = _____ feet, New Mexico Coordinate System
Zone in the _____ Grant.

3. Approximate depth (if known) 150 feet; outside diameter of casing 7 inches.
Name of driller (if known) Bill Hargis

4. Use of water (check use applied for):
 One household, non-commercial trees, lawn and garden not to exceed one acre.
 Livestock watering.
 More than one household, non-commercial trees, lawns and gardens not to exceed a total of one acre.
 Drill and test a well intended to be used for domestic, drinking and sanitary or stock water purposes in conjunction with the building or dwelling unit.
 Drinking and sanitary purposes and the irrigation of non-commercial trees, shrubs and lawns in conjunction with a commercial operation.
 Prospecting, mining or drilling operations to discover or develop natural resources.
 Construction of public works, highways and roads.

5. Remarks: _____

02 JUL 26 PM 3:46
STATE ENGINEER'S OFFICE
AZTEC, NEW MEXICO
02 JUL 3 PM 4:00

I, Tonia Goelz, affirm that the foregoing statements are true to the best of my knowledge and belief and that development shall not commence until approval of the permit has been obtained.

Tonia Goelz, Applicant

By: _____ Date: July 3, 2002

ACTION OF STATE ENGINEER

This application is approved for the use indicated, subject to all general conditions and to specific conditions numbered 1a & 4 on the reverse side hereof. This permit will automatically expire unless this well is drilled or driven and the well record filed on or before July 3, 2003.

Thomas C. Turney, State Engineer
By: Bill Enenbach
Bill Enenbach

Date: July 3, 2002 File No. SJ-3230

STATE ENGINEER OFFICE/INTERSTATE STREAM COMMISSION - AZTEC

OFFICIAL RECEIPT NUMBER 5-01765 DATE 7-3-2002 FILE NO. SJ-3230

TOTAL RECEIVED: \$ 5.00 RECEIVED: five DOLLARS CHECK NO CASH: []

FROM: Tonia Goelz BANK NAME:

RECEIVED BY: (Signature) Bill Eneboech (TITLE)

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 MSD; yellow copy to Water Rights - Santa Fe, and goldenrod copy for District file. If you make a mistake, void original and all copies and submit to MSD along with valid receipts and the weekly report.

- A. Ground Water Rights Filing Fees (411840)
1. Declaration of Water Right \$ 1.00
2. Application to Appropriate; Domestic, Stock, Other Use \$ 5.00
3. Application for Test, Exploratory, or Observation Well \$ 5.00
4. Application to Change Location Domestic Well \$ 5.00
5. Application to Repair or Deepen \$ 5.00
6. Application to Dewater \$ 5.00
7. Application to Appropriate Irrig., Mun., Ind., or Com. Use \$25.00
8. Application to Combine Wells and/or Use \$25.00
9. Application for Supplemental Well \$25.00
10. Application to Change Location of Non-72-12-1 Well \$25.00
11. Application to Change Place \$25.00
12. Application to Change Location of Well and Place and/or Purpose of Use \$50.00
13. Application for Extension of Time (Specify:) \$25.00
14. Certificate and License (for each permit therein) (VAR) \$25.00
15. Application for Plan of Replacement \$25.00
16. Other (As per Art. 6-2 of Rules and Regulations) Specify: \$25.00
17. Application to Change Point of Diversion and Place and/or Purpose of Use from Surface to Ground Water \$50.00

- B. Surface Water Rights Filing Fees (411840)
1. Declaration of Water Right \$ 1.00
2. Declaration of Livestock Dam \$ 1.00
3. Application to Change Point of Diversion \$25.00
4. Application to Change Place and/or Purpose of Use \$50.00
5. Application to Change Point of Diversion and Place and/or Purpose of Use \$50.00
6. Notice of Intent to Appropriate \$25.00
7. Application to Appropriate \$25.00
8. Application for Extension of Time \$50.00
9. Certificate of Construction \$25.00
10. License to Appropriate \$25.00
11. Application to Enlarge of Amend \$25.00
12. Other (As per 72-2-6.J NMSA 1978) (Specify:) (VAR)
13. Application to Change Point of Diversion and Place and/or Purpose of Use from Ground to Surface Water \$50.00

- C. Miscellaneous Fees (411840)
1. Application to Construct Flood-Control Dam. Same as #6 below
2. Application for Well Driller's License \$50.00
3. Application for Renewal of Well Driller's License \$20.00
4. Application to Amend Well Driller's License \$ 5.00
5. Issue of Certified Letter \$ 5.00
6. Review of Plans for Safety of Dams (\$10.00 + \$2.00/\$1,000 of estimated construction cost) (VAR)

- D. Hearing Deposit (411890) \$
E. Reproduction of Documents (419740) 20¢/copy, limit 10 copies of each document. \$
F. Water Right Determination \$
G. Certification \$
H. Other (Specify - Not for Filing Fees) \$

COMMENTS:
02 JUL 26 PM 9:36
STATE ENGINEER OFFICE
ALBUQUERQUE, NEW MEXICO

No. SJ-4020

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	Name:
Contact or Agent: check here if Agent <input type="checkbox"/>	Contact or Agent: check here if Agent <input type="checkbox"/>
Mailing Address: 1207 La Paz	Mailing Address:
City: Andrews	City:
State: TX Zip Code: 79714	State: Zip Code:
Phone: 432-464-0002 <input checked="" type="checkbox"/> Home <input type="checkbox"/> Cell Phone (Work): 575-394-5583	Phone: <input type="checkbox"/> Home <input type="checkbox"/> Cell Phone (Work):
E-mail (optional): jashinn3@msn.com	E-mail (optional):

STATE ENGINEER OFFICE
 AZTEC, NEW MEXICO
 2117 AUG -3 PM 5:01

2. WELL LOCATION Required: Coordinate location must be New Mexico State Plane (NAD 83), UTM (NAD 83), or Lat/Long (WGS84). District II (Roswell) and District VII (Cimarron) customers, provide a PLSS location in addition to above.

NM State Plane (NAD83) - In feet	NM West Zone <input type="checkbox"/> NM Central Zone <input type="checkbox"/> NM East Zone <input type="checkbox"/>	X (in feet): Y (in feet):
UTM (NAD83) - In meters	UTM Zone 13N <input type="checkbox"/> UTM Zone 12N <input type="checkbox"/>	Easting (in meters): Northing (in meters):
Lat/Long (WGS84) - To 1/10 th of second	Latitude: 36 deg	50 min 49.7 sec
	Longitude: -107 deg	52 min 3.1 sec
Other Location Information (complete the below, if applicable):		
PLSS Quarters or Halves: N/2 NW/4 NE/4 Section: 03 Township: 30N Range: 10W		
County: San Juan		
Land Grant Name (if applicable):		
Lot No:	Block No:	Unit/Tract: Subdivision:
Hydrographic Survey:	Map:	Tract:
Other description relating point of diversion to common landmarks, streets, or other: Physical Address is 198 Road 2772, Aztec, NM 87410 UPC: 2-057-179-181-494		
Point of Diversion is on Land Owned by (Required): James A. And Irene Shinn Recorded In Book 1193, Page 697		

FOR OSE INTERNAL USE

Application for Permit, Form wr-01, Rev 3/8/12

File Number:	Trn Number: 513041
Sub-basin:	POD No. Log Due Date:

3. PURPOSE OF USE

Domestic use for one household
 Livestock watering
 Domestic use for more than one household. Number of households _____
 Drinking and sanitary uses that are incidental to the operations of a governmental, commercial, or non-profit facility
 Prospecting, mining or drilling operations to discover or develop natural resources
 Construction of public works, highways and roads
 Domestic use for one household and livestock watering
 Domestic use for multiple households and livestock watering
 Domestic well to accompany a house or other dwelling unit constructed for sale

4. WELL INFORMATION

File Information: (If existing well, provide OSE no. & indicate below if well is to be replacement, repaired or deepened, or supplemental. If new well, leave blank, as OSE must assign no.)

OSE Well No.(If Existing)	New Well No. (provided by OSE) SJ-4020
Driller Name: Terry Hood	Driller License Number:
Approximate Depth of Well (feet): 325.00	Outside Diameter of Well Casing (inches): 6.00

<input type="checkbox"/> Replacement well (List all existing wells if more than one):	<input type="checkbox"/> Repair or Deepen: <input type="checkbox"/> Clean out well to original depth <input type="checkbox"/> Deepen well from _____ to _____ ft. <input type="checkbox"/> Other (Explain):	<input type="checkbox"/> Supplemental well (List OSE No. for all wells this will supplement):
--	--	--

5. ADDITIONAL STATEMENTS OR EXPLANATIONS

Well was drilled in Summer 1991 by Terry Hood. Current well pump is 1 horsepower pump installed at a depth of 260 or 280 feet.

ACKNOWLEDGEMENT

I, We (name of applicant(s)), James A. Shinn Print Name(s)
 affirm that the foregoing statements are true to the best of (my, our) knowledge and belief.

James A. Shinn Applicant Signature
 Applicant Signature

2012 AUG -3 PM 5:01
 STATE ENGINEER OFFICE
 AZTEC, NEW MEXICO

ACTION OF THE STATE ENGINEER (FOR OSE USE ONLY)

This application is approved subject to the attached general and specific conditions of approval.

Witness my hand and seal this 3 day of August 20 12, for the State Engineer,

By: Savannah Lindsay Signature
 Savannah Lindsay Print

FOR OSE INTERNAL USE

Application for Permit, Form wr-01, Rev 3/8/12

File Number:	Trn Number:	
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).
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.

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

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
STATE ENGINEER OFFICE
AZTEC, NEW MEXICO

**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.
- 06B 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).
- 06C 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 www.ose.state.nm.us, under applications & forms.
- 06D The casing shall not exceed 7 inches outside diameter except under specific conditions in which reasons satisfactory to the State Engineer are shown.
- 06E To request a change to the use of water authorized under this permit, the permittee shall file an application with the State Engineer.
- 06F 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.
- 06H 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.
- 06I The permittee shall utilize the highest and best technology available to ensure conservation of water to the maximum extent practical.
- 06J 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.
- 06K 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.
- 06L 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.
- 06M The right to divert water under this permit is subject to curtailment by priority administration as implemented by the State Engineer or a court.
- 06N 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.
- 06O 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.

STATE ENGINEER OFFICE
AZTEC, NEW MEXICO
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
CONDITIONS OF APPROVAL
(Domestic One Household)

FILE NUMBER: 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 1.0 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 1.0 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 hand and seal this 3rd day of August, A.D., 2012.

Scott A. Verhines, P.E.
New Mexico State Engineer

By Savannah Lindsay
Savannah Lindsay
Water Rights Division
District 5

STATE ENGINEER OFFICE
AZTEC, NEW MEXICO
2012 AUG -3 PM 5: 02

Trn Desc.: _____ 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,

A handwritten signature in cursive script that reads "Savannah Lindsay".

Savannah Lindsay
Water Rights Division

Enclosure

cc: Aztec File
WATERS
Aztec Reading

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

OFFICIAL RECEIPT NUMBER: 5-4635 DATE: 1/20/2022 FILE NO.: 17-4026
TOTAL: RECEIVED: DOLLARS CHECK NO.: CASH:
PAYOR: ADDRESS: CITY: STATE:
ZIP: RECEIVED BY:

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; yellow copy 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.

A. Ground Water Rights Filing Fees

- 1. Declaration of Water Right \$ 1.00
2. Application to Appropriate or Supplement Domestic 72-12-1 Well \$125.00
3. Application for Stock Well \$ 5.00
4. Application to Repair or Deepen 72-12-1 Well \$ 75.00
5. Application for Replacement 72-12-1 Well \$ 75.00
6. Application to Change Purpose of Use 72-12-1 Well \$ 75.00
7. Application to Appropriate Irrig., Mun., or Comm. Use \$ 25.00
8. Application for Supplemental Non 72-12-1 Well \$ 25.00
9. Application to Change Point of Diversion of Non 72-12-1 Well \$ 25.00
10. Application to Change Place or Purpose of Use Non 72-12-1 Well \$ 25.00
11. Application to Change Point of Diversion and Place and/or Purpose of Use \$ 50.00
12. Application for Extension of Time \$ 25.00
13. Proof of Application to Beneficial Use \$ 25.00
14. Application to Change Point of Diversion and Place and/or Purpose of Use from Surface Water to Ground Water \$ 50.00
15. Application to Change Point of Diversion and Place and/or Purpose of Use from Ground Water to Ground Water \$ 50.00
16. Application for Test, Expl. Observ. Well \$ 5.00
17. Change of Ownership of Water Right \$ 2.00
18. Application to Repair or Deepen Non 72-12-1 Well \$ 5.00
19. Application for Replacement Well Non 72-12-1 Well \$ 5.00

B. Surface Water Rights Filing Fees

- 1. Declaration of Water Right \$ 10.00
2. Amended Declaration \$ 25.00
3. Declaration of Livestock Water Impoundment \$ 10.00
4. Application for Livestock Water Impoundment \$ 10.00
5. Application to Appropriate \$ 25.00
6. Notice of Intent to Appropriate \$ 25.00
7. Application to Change Point of Diversion \$100.00
8. Application to Change Place and/or Purpose of Use \$100.00
9. Application to Change Point of Diversion and Place and/or Purpose of Use \$200.00
10. Application to Change Point of Diversion and Place and/or Purpose of Use from Ground Water to Surface Water \$200.00
11. Application for Extension of Time \$ 50.00
12. Supplemental Well to a Surface Right \$100.00
13. Return Flow Credit \$100.00
14. Proof of Completion of Works \$ 25.00
15. Proof of Application of Water to Beneficial Use \$ 25.00
16. Water Development Plan \$100.00
17. Change of Ownership of Water Right \$ 5.00

C. Miscellaneous Fees

- 1. Application for Well Driller's License \$50.00
2. Application for Renewal of Well Driller's License \$50.00
3. Application to Amend Well Driller's License \$50.00

D. Reproduction of Documents

@ 0.20¢/copy
Map(s)

E. Certification

F. Other

G. Comments:

Handwritten notes in the comments section.



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.
- 3) 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.

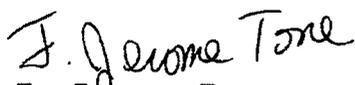
Now only you can determine when the next checkup should be made, but remember that ground water is always moving...like a very slow river, and as it moves it dissolves or absorbs metals and chemicals from the soil through which it passes.

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,


F. Jerome Tone
President

FJT/sh

DATE COLLECTED	DATE RECEIVED	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-

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

DRINKING WATER ANALYSIS RESULTS

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 (mg/l)	Detection Level	Level Detected
--------------------	------------	-----------------	----------------

Microbiological:

Total coliform (organism/100ml)	0	0.0	BD
---------------------------------	---	-----	----

Inorganic chemicals - metals:

Arsenic	0.05	0.002	ND
Barium	1.0	0.30	ND
Cadmium	0.01	0.002	ND
Chromium	0.05	0.004	ND
Copper	1.0	0.004	ND
→ Iron	0.3	0.020	0.081
! → Lead	0.05	0.002	ND
! → Manganese	0.05	0.004	0.59*
Mercury	0.002	0.0002	ND
Nickel	0.15	0.02	ND
Selenium	0.01	0.002	ND
Silver	0.05	0.002	ND
! → Sodium	---	1.0	233
→ Zinc	5.0	0.004	0.25

Inorganic chemicals - other, and physical factors:

→ Alkalinity (Total as CaCO3)	---	10.0	165
Chloride	250	10.0	ND
Fluoride	4.0	0.50	0.6
Nitrate as N	10	0.5	ND
Nitrite as N	---	0.5	ND
→ Sulfate	250	10.0	1745*
→ Hardness (suggested limit = 100)	---	10.0	1400*
pH (Standard Units)	6.5-8.5	---	7.7
Total Dissolved Solids	500	20.0	3477*
Turbidity (Turbidity Units)	1.0	0.1	1.4*

Organic chemicals - trihalomethanes:

Bromoform	---	0.004	ND
Bromodichloromethane	---	0.002	ND
Chloroform	---	0.002	ND
Dibromochloromethane	---	0.004	ND
Total THMs (sum of four above)	0.1	0.002	ND

Organic chemicals - volatiles:

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	ND

page 2. Sample code: 9330677

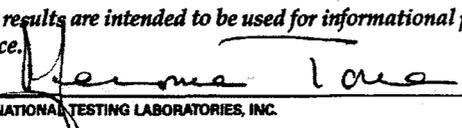
Analysis performed	MCL (mg/l)	Detection Level	Level Detected
Trichloroethylene	0.005	0.001	ND
1,4-Dichlorobenzene	0.075	0.001	ND
1,1-Dichloroethylene	0.007	0.001	ND
1,1,1,-Trichloroethane	0.20	0.001	ND
Bromobenzene	----	0.002	ND
Bromomethane	----	0.002	ND
Chlorobenzene	----	0.001	ND
Chloroethane	----	0.002	ND
Chloroethylvinyl ether	----	0.002	ND
Chloromethane	----	0.002	ND
2-Chlorotoluene	----	0.001	ND
4-Chlorotoluene	----	0.001	ND
Dibromochloropropane (DBCP)	----	0.001	ND
Dibromomethane	----	0.002	ND
1,2-Dichlorobenzene	----	0.001	ND
1,3-Dichlorobenzene	----	0.001	ND
Dichlorodifluoromethane	----	0.002	ND
1,1-Dichloroethane	----	0.002	ND
Trans-1,2-Dichloroethylene	----	0.002	ND
cis-1,2-Dichloroethylene	----	0.002	ND
Dichloromethane	----	0.002	ND
1,2-Dichloropropane	----	0.002	ND
trans-1,3-Dichloropropene	----	0.002	ND
cis-1,3-Dichloropropene	----	0.002	ND
2,2-Dichloropropane	----	0.002	ND
1,1-Dichloropropene	----	0.002	ND
1,3-Dichloropropene	----	0.002	ND
Ethylbenzene	----	0.001	ND
Ethylenedibromide (EDB)	----	0.001	ND
Styrene	----	0.001	ND
1,1,1,2-Tetrachloroethane	----	0.002	ND
1,1,2,2-Tetrachloroethane	----	0.002	ND
Tetrachloroethylene (PCE)	----	0.002	ND
Trichlorobenzene(s)	----	0.002	ND
1,1,2-Trichloroethane	----	0.002	ND
Trichlorofluoromethane	----	0.002	ND
1,2,3-Trichloropropane	----	0.002	ND
Toluene	----	0.001	ND
Xylene	----	0.001	ND

Organic chemicals - pesticides, herbicides & PCBs			

Alachlor	----	0.005	ND
Atrazine	----	0.050	ND
Chlordane	0.02	0.01	ND
Aldrin	----	0.005	ND
Dichloran	----	0.005	ND
Dieldren	----	0.002	ND
Endrin	0.0002	0.0002	ND
Heptachlor	0.01	0.002	ND
Heptachlor Epoxide	----	0.002	ND
Hexachlorobenzene	0.02	0.005	ND
Hexachloropentadiene	----	0.005	ND
Lindane	0.004	0.004	ND
Methoxychlor	0.1	0.05	ND
PCBs	0.008	0.004	ND
Pentachloronitrobenzene	----	0.005	ND
Silvex 2,4,5-TP	0.01	0.005	ND
Simazine	----	0.050	ND
Toxaphene	0.005	0.005	ND
Trifluralin	----	0.005	ND
2,4-D	0.1	0.010	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.


PRESIDENT, NATIONAL TESTING LABORATORIES, INC.

REV. 2-81

4A = 30-045-22523
8 = 30-045-20886

5056

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', 335', 220', 200', 170'

Depths vent pipes placed: 438'

Vent pipe perforations: 240'

Remarks: qb #2

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OIL CON. Div
DIST. 3

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

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

FM-07-0238 (Rev. 10-62)

WELL CASING
CATHODIC PROTECTION CONSTRUCTION REPORT
DAILY LOG

Completion Date 11/2/88

Redbull
Drilling Log (Attach Hereto)

649

CP#	Well Name, Line or Plant:	Work Order #	State:	Ins. Union Check
1313W	ATLANTIC D COM C-4A	48992A		<input type="checkbox"/> Good <input type="checkbox"/> Bad
Location:	Anode Size:	Anode Type:	Size Bit:	
J-2-30-10	2" x 60"	DURION	6 3/4"	
Depth Drilled	Depth Logged	Drilling Rig Time	Total Lbs. Coke Used	Lost Circulation Mat'l Used
460	448			
Anode Depth				
# 1 410	# 2 395	# 3 385	# 4 356	# 5 350
# 6 344	# 7 336	# 8 328	# 9 280	# 10 270
Anode Output (Amps):				
# 1 2.6	# 2 2.3	# 3 2.8	# 4 3.2	# 5 3.9
# 6 3.8	# 7 3.6	# 8 3.1	# 9 3.9	# 10 3.2
Anode Depth				
# 11	# 12	# 13	# 14	# 15
# 16	# 17	# 18	# 19	# 20
Anode Output (Amps):				
# 11	# 12	# 13	# 14	# 15
# 16	# 17	# 18	# 19	# 20
Total Circuit Resistance	No. 8 C.P. Cable Used		No. 2 C.P. Cable Used	
Volts 12.4	Amps 14.8	Ohms .84		

Remarks: WATER AT 220', DID NOT GET WATER SAMPLE, HAD TO START 1WD. AT 180'. INSTALLED 438' OF 1" VENT PIPE, (PVC) PENETRATED 240'.

1026867

555-ECU1-001-00-7

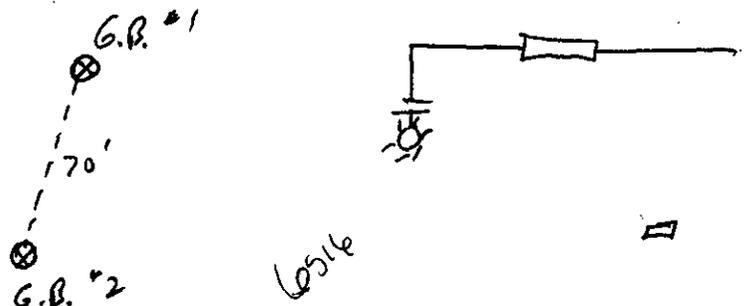
G.B. 4170.00

Rectifier Size: V A
 Addn'l Depth: 0
 Depth Credit: -52 3.50 -182.00
 Extra Cable: 10' 24 2.50 2.40
 Ditch & 1 Cable: 70' 170 52.50 49.00
~~Ditch & 2 Cable:~~
 25' Meter Pole: 0
 20' Meter Pole: 0
 10' Stub Pole: 0
 Junction Box: 1

All Construction Completed

JE Miller
(Signature)

249.00
~~4292.00~~ 4288.40
 TAX 214.60 214.42
 TOTAL 4506.60 4502.82 OK 93



D. CRASS DRILLING CO.

Drill No. 3

DRILLER'S WELL LOG

S. P. No. Atlantia Decon #4A Date 11-2-88
Client Meridian Oil Co. Prospect _____
County SAN JUAN State New Mex.

If hole is a redrill or if moved from original staked position show distance and direction moved: _____

FROM	TO	FORMATION — COLOR — HARDNESS
<u>0</u>	<u>260</u>	<u>SANDstone.</u>
<u>260</u>	<u>305</u>	<u>Shale</u>
<u>305</u>	<u>325</u>	<u>SANDstone.</u>
<u>325</u>	<u>360</u>	<u>Shale</u>
<u>360</u>	<u>380</u>	<u>SANDstone</u>
<u>380</u>	<u>420</u>	<u>Shale</u>
<u>420</u>	<u>460</u>	<u>SANDstone</u>

Mud _____ Bron _____ Lime _____

Rock Bit Number _____ Make _____

Remarks: Water @ 220'

Driller Ronnie Brown

ATLANTIC D COM C #4-A

SE 2-30-10
 CONTRACT # 2

1313W

57220-21

MW		gals/mol
18.04	C1	8.4
30.07	C2	10.12
44.10	C3	10.42
58.12	iC4	12.38
58.12	nC4	11.93
72.15	iC5	13.85
72.15	nC5	13.71
86.18	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

MW	MISC.	gals/mol
32.00	O2	3.37
28.01	CO	4.19
44.01	CO2	6.38
64.06	SO2	5.50
34.08	H2S	5.17
28.01	N2	4.16
2.02	H2	3.38

Static 600' W = 0.85
 2' x 2' x 48" Graphite Anodes

DRILLER SAID MAKING WATER @ 200'. DRILLED TO 220'. NEXT A.M. BLOW WATER. MAKING MORE WATER @ 260'. 5 GALS PER MIN. PERFORATED 220' OF 1" PVC VENT PIPE. INSTALLED 420' OF 1" PVC VENT PIPE STURRYED SACKS OF COKE.

200	.4	80	.6
	.4		.6
10	.4	90	1.2 (2)
	.7		1.2
20	.4	400	.9 (1)
	.3		.6
30	.4	10	1.1
	.4		.8
40	.3	20	
	.4		
50	.4		
	.5		
60	.7		
	.7		
70	1.1		
	1.1 (10)		
80	1.6		
	1.5 (9)		
90	1.5		
	1.3 (8)		
300	1.3		
	1.1 (7)		
10	.4		
	.2		
20	.2		
	.9		
30	1.6 (6)		
	1.5		
40	1.4 (5)		
	1.5		
50	1.4 (4)		
	1.3		
60	.9 (3)		
	.7		
70	.6		
	.4		

+ D & DRILLED

40V 16A Rectifier
 Stub Pole
 Hole Depth = -80
 Ditch Cable = 232'
 EXTRA Cable = 178'

①	400	1.2	2.7
②	390	1.4	2.8
③	360	1.2	2.1
④	350	1.6	2.8
⑤	340	1.5	2.6
⑥	330	1.8	3.0
⑦	305	1.4	2.4
⑧	295	1.4	3.0
⑨	285	1.9	3.5
⑩	275	1.2	2.8

VOLTS 12.0
 AMPS 12.5
 OHMS 0.96

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

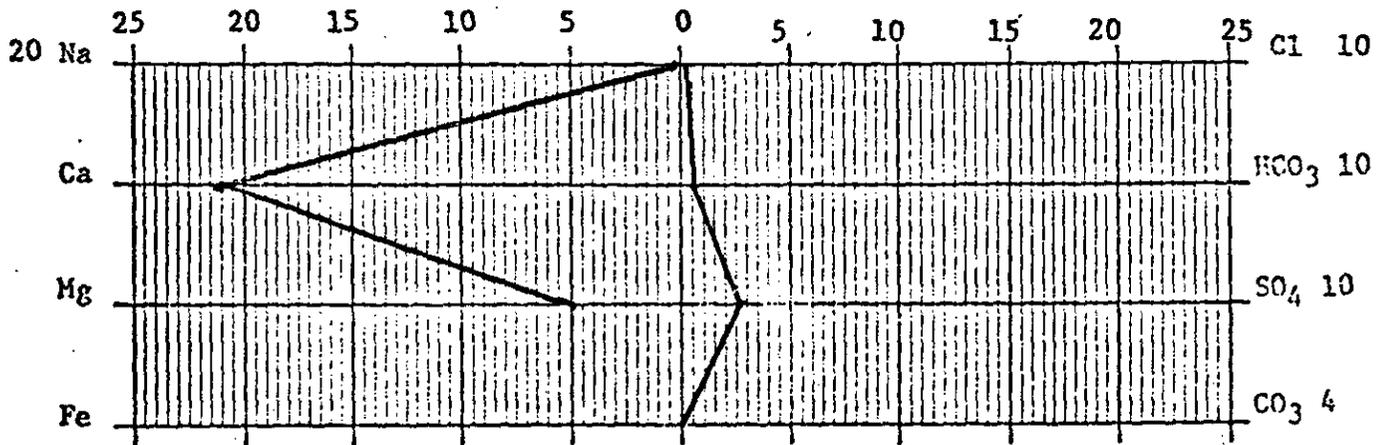
Analysis No. 1-9412 Date 12-12-78
 Operator _____ Well Name ATLANTIC D COM C #4A 1313W
 Location S# 2-30-10 County _____ State _____
 Field _____ Formation _____
 Sampled From 1313 W
 Date Sampled _____ By _____

Tbg. Press.	Csg. Press.	Surface Csg. Press
ppm	epm	ppm epm
Sodium <u>129</u>	<u>6</u>	Chloride <u>20</u> <u>.6</u>
Calcium <u>420</u>	<u>21</u>	Bicarbonate <u>288</u> <u>5</u>
Magnesium <u>65</u>	<u>5</u>	Sulfate <u>1250</u> <u>26</u>
Iron <u>PRESENT</u>		Carbonate <u>0</u> <u>0</u>
H ₂ S <u>ABSENT</u>		Hydroxide <u>0</u> <u>0</u>

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 60°F
 Resistivity 420 ohm-cm at 75°F

Barnett Ellsbery
 Chemist



Scale: epm

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 Twp 30 Rng 10

Name of Well/Wells or Pipeline Serviced 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 been placed, show depths & amounts used
N/A

Depths & thickness of water zones with description of water when possible:
Fresh, Clear, Salty, Sulphur, Etc. 110' - 130'

Depths gas encountered: N/A

Type & amount of coke breeze used: 5200 lbs.

Depths anodes placed: 320', 310', 290', 280', 245'

Depths vent pipes placed: N/A

Vent pipe perforations: 225'

Remarks: qb #2

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OIL CON. DIV
DIST. 3

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

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

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

WELL CASING
CATHODIC PROTECTION CONSTRUCTION REPORT
DAILY LOG

LOGGED

Drilling Log (Attach Hereto)

Completion Date 11-5-76

Well Name ATLANTIC DCOM #4		Location NE 2-30-10				CPS No. 366W				
Type & Size Bit Used 6 3/4 #7						Work Order No. 52472 55132				
Anode Hole Depth Log 337	Total Drilling Rig Time		Total Lbs. Coke Used 5254Ks		Lost Circulation Mat'l Used		No. Sacks Mud Used			
Anode Depth	# 1	# 2	# 3	# 4	# 5	# 6	# 7	# 8	# 9	# 10
	320	310	290	280	245					
Anode Output (Amps)	# 1	# 2	# 3	# 4	# 5	# 6	# 7	# 8	# 9	# 10
	3.0	3.0	2.5	2.7	3.5					
Anode Depth	# 11	# 12	# 13	# 14	# 15	# 16	# 17	# 18	# 19	# 20
Anode Output (Amps)	# 11	# 12	# 13	# 14	# 15	# 16	# 17	# 18	# 19	# 20
Total Circuit Resistance	Volts 11.8		Amps 10.5		Ohms 1.12		No. 8 C.P. Cable Used		No. 2 C.P. Cable Used	

Remarks: **DRILLER SAID WATER @ 105' / 110' - 130'**
VENT PERF 225'
52 SACKS SLURRY

\$2,648.00
- 39.00 Depth Credit
24.50 Surf. Cable

All Construction Completed

C. Whittier
(Signature)

2,633.50
105.34

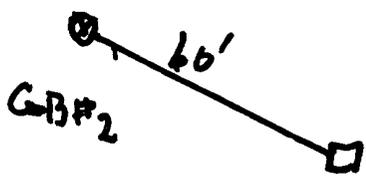
GROUND BED LAYOUT SKETCH

2,738.84

312.00 Coke
213.40 Insp.
50.00 Misc

\$3,314.24

GB #1



φ-1-



El Paso Natural Gas Company
ENGINEERING CALCULATION

Sheet: _____ of _____

Date: 11-5-76
By: _____
File: _____

ATLANTIC DECOM #4
~~#1~~ NE 2-30-10

366W
52472
~~52472~~

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
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

MW	MISC	gals/mol
32.00	O2	3.37
28.01	CO	4.19
44.01	CO2	6.38
64.06	SO2	5.50
34.08	H2S	5.17
28.01	N2	4.16
2.02	H2	3.38

100			2.0			
10		230	2.0			
20				337 T.D.		
30						
40						
50						
60						
70						
80						
90						
200	.3					
10	.4					
20	.2					
30	.4					
40	.4					
50	.5					
60	.5					
70	.8					
80	1.4 -					
90	1.3					
100	1.3					
110	1.3					
120	1.3					
130	.8					
140	.6					
150	1.0					
160	1.4 -					
170	1.4 -					
180	1.4 -					
190	1.0					
200	.4					
210	1.0 -					
220	1.1 -					
230	2.0					
240	2.0 -					

1.	320	2.5	30
2.	310	2.3	30
3.	290	1.8	25
4.	280	1.7	27
5.	245	1.1	35

VENT PERF 225'
10.5 A
11.8 V
1.12

DAILY DRILLING REPORT

LEASE _____ WELL NO. 366W CONTRACTOR _____ RIG NO. _____ REPORT NO. _____ DATE 11-5-76 19__

MORNING					DAYLIGHT					EVENING				
Driller		Total Men In Crew			Driller <u>asey</u>		Total Men In Crew			Driller		Total Men In Crew		
FROM	TO	FORMATION	WT-BIT	R.P.M.	FROM	TO	FORMATION	WT-BIT	R.P.M.	FROM	TO	FORMATION	WT-BIT	R.P.M.

BIT NO.		NO. DC	SIZE	LENG.	BIT NO.		NO. DC	SIZE	LENG.	BIT NO.		NO. DC	SIZE	LENG.		
SER.	NO.	STANDS			SERIAL NO.	SER.	NO.	STANDS			SERIAL NO.	SER.	NO.	STANDS		
SIZE		SINGLES			SIZE		SINGLES			SIZE		SINGLES				
TYPE		DOWN ON KELLY			TYPE		DOWN ON KELLY			TYPE		DOWN ON KELLY				
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			
Time	Wt.	Vis.	Time	Wt.	Vis.	Time	Wt.	Vis.	Time	Wt.	Vis.	Time	Wt.	Vis.	Time	Wt.	Vis.	

FROM	TO	TIME BREAKDOWN	FROM	TO	TIME BREAKDOWN	FROM	TO	TIME BREAKDOWN
0	7	Surface	290	320	Shale			
7	105	Sand Dry	320	340	Sandy Shale Shale			
105	110	Shale						
110	130	Sand wet						
130	137	Shale						
137	170	Sand wet						

REMARKS -	REMARKS -	REMARKS -
170-178 Shale		
178-183 Sand wet		
183-184 Shale		
184-205 Sand wet		
205-215 Shale		
215-245 Sand wet		
245-270 Shale		
270-290 Sand wet		

Water
First at 110' to 130'

SIGNED: Toolpusher _____ Company Supervisor _____

1 = 30-045-10075
13 = 30-045-21269
201 = 30-045-26965

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 L Sec. 35 Twp 31 Rng 10

Name of Well/Wells or Pipeline Serviced ATLANTIC C #1, #13, #201
cps 2082w

Elevation 6390' Completion Date 1/23/89 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 placed, show depths & amounts used
N/A

Depths & thickness of water zones with description of water when possible:
Fresh, Clear, Salty, Sulphur, Etc. 140' NO SAMPLE

Depths gas encountered: N/A

Type & amount of coke breeze used: N/A

Depths anodes placed: 285', 277', 269', 261', 250', 230', 165', 155'

Depths vent pipes placed: N/A

Vent pipe perforations: N/A

Remarks: gb #4

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MAY 31 1991
OIL CON. DIV

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

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

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

WELL CASING
CATHODIC PROTECTION CONSTRUCTION REPORT
DAILY LOG

Comp 1-27-89

Drilling Log (Attach Hereto)

Completion Date 1-23-89

CPS #	Well Name, Line or Plant:	Work Order #	Static:	Ins. Union Check						
2082W	Atlantic C 201	3188A	.78 NW	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Bad						
Location:	Anode Size:	Anode Type:	Size Bit:							
L35-31-10	2" x 60"	Puriron	6 3/4"							
Depth Drilled	Depth Logged	Drilling Rig Time	Total Lbs. Coke Used	Lost Circulation Mat'l Used	No. Sacks Mud Used					
300'	300'	long time								
Anode Depth	# 1	# 2	# 3	# 4	# 5	# 6	# 7	# 8	# 9	# 10
	180'	170'	285'	277'	269'	261'	250'	230'	165'	155'
Anode Output (Amps)	# 1	# 2	# 3	# 4	# 5	# 6	# 7	# 8	# 9	# 10
	5.2	4.6	4.5	4.8	4.8	3.4	4.1	2.8	3.9	4.7
Anode Depth	# 11	# 12	# 13	# 14	# 15	# 16	# 17	# 18	# 19	# 20
Anode Output (Amps)	# 11	# 12	# 13	# 14	# 15	# 16	# 17	# 18	# 19	# 20
Total Circuit Resistance	Volts		Amps	Ohms	No. 8 C.P. Cable Used		No. 2 C.P. Cable Used			
	12.2		19.2	635						

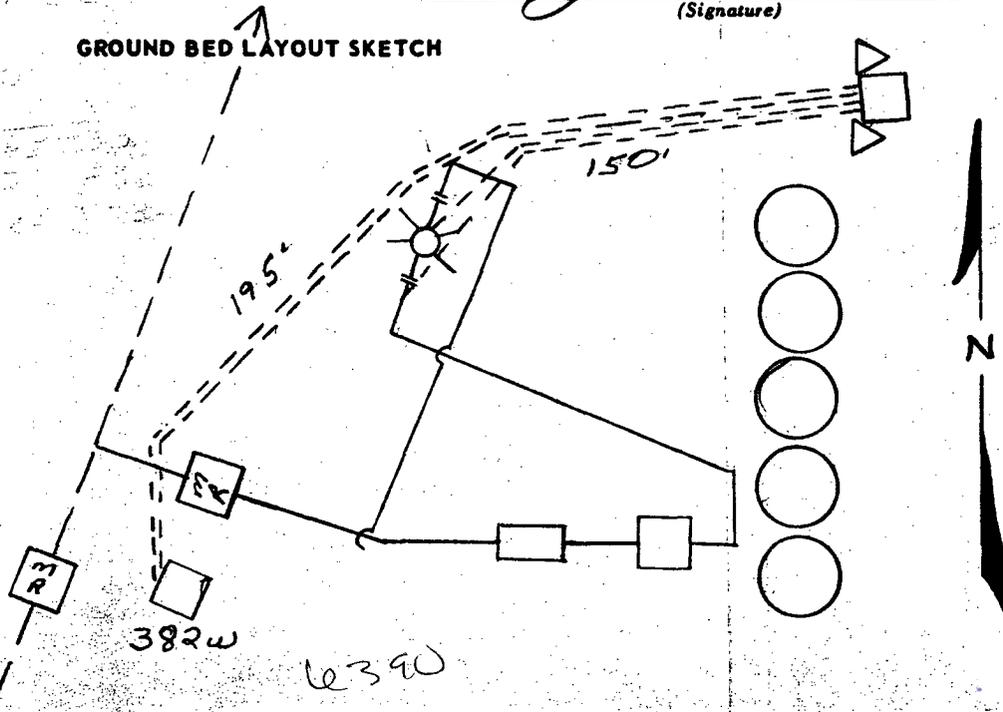
Remarks: Driller said water was at 140', no water sample was taken. Drilled to 380' on first hole and only logged to 240'. Loaded #1 & 2 anodes with 140' of perforated vent pipe. Moved over 25' and drilled second hole with mud to 300', logged to 300'.

Rectifier Size: 40 V 16 A
 Addn'l Depth: _____
 Depth Credit: 200 3.50
 Extra Cable: 340' 24
 Ditch & 1 Cable: 345' 70
 25' Meter Pole: _____
 20' Meter Pole: _____
 10' Stub Pole: 158.50
 Junction Box: 225.00

All Construction Completed

Randy Smith
(Signature)

GROUND BED LAYOUT SKETCH



4074.00
 669.00
 -700.00 ✓
 81.60 ✓
 241.50 ✓
 158.50 ✓
 225.00 ✓
 4749.60 ✓
 237.48 ✓
 4987.08

DRILLING CO.

Drill No. 10

DRILLER'S WELL LOG

Client: Atlantic C Date: 1-24-89
S. P. No. 201 Prospect _____
County B Hole State _____

If hole is a redrill or if moved from original stated position show distance and direction moved: _____

FROM	TO	FORMATION - COLOR - HARDNESS
0	40	Sand Gravel
40	60	Sandy Clay
60	190	Sandy Clay
190	200	Sandy
200	380	Shale

Mud _____ Bron _____ Lime _____

Rock Bit Number _____ Make _____
Remarks: Water 140'
180

Driller: [Signature]

DRILLING CO.

Drill No. 10

DRILLER'S WELL LOG

Client: Atlantic C Date: 1-23-89
S. P. No. 201 Prospect _____
County A Hole State _____

If hole is a redrill or if moved from original stated position show distance and direction moved: _____

FROM	TO	FORMATION - COLOR - HARDNESS
0	20	Sand & Gravel
20	40	Sandy Clay
40	60	Sandy
60	80	Shale
80	160	Sandy
160	210	Shale
210	260	Sandy
260	280	Clay
280	300	Sand

Mud _____ Bron _____ Lime _____

Rock Bit Number _____ Make _____
Remarks: Water 160'

Driller: [Signature]

968

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 Serviced 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 amounts & types used N/A

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

Depths & thickness of water zones with description of water when possible:
Fresh, Clear, Salty, Sulphur, Etc. 140' SAMPLE TAKEN

Depths gas encountered: N/A

Type & amount of coke breeze used: 48 SACKS

Depths anodes placed: 340', 330', 320', 310', 295', 280', 240', 230', 220', 210'

Depths vent pipes placed: 370'

Vent pipe perforations: 260'

Remarks: gb #1

RECEIVED
MAY 31 1991
OIL CON. DIV.
DIST. 3

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

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

WELL CASING
 CATHODIC PROTECTION CONSTRUCTION REPORT
 DAILY LOG

Drilling Log (Attach Hereto).

Contract #2

Completion Date 7-9-79

Well Name ATLANTIC B #9-A		Location SE 34-31-10			CPS No. 1449W							
Type & Size Bit Used 6 3/4		Coke Used 10-2" X 60" DURIRON			Work Order No. 57327-21							
Anode Hole Depth 370'	Total Drilling Rig Time	Coke Used 48 SACKS	Lost Circulation Mat'l Used 0	No. Sacks Mud Used 0								
Anode Depth	# 1	# 2	# 3	# 4	# 5	# 6	# 7	# 8	# 9	# 10		
	340	330	320	310	295	280	240	230	220	210		
Anode Output (Amps)	# 1	# 2	# 3	# 4	# 5	# 6	# 7	# 8	# 9	# 10		
	3.0	3.3	4.2	3.4	1.7	2.0	1.9	2.6	2.6	3.3		
Anode Depth	# 11	# 12	# 13	# 14	# 15	# 16	# 17	# 18	# 19	# 20		
Anode Output (Amps)	# 11	# 12	# 13	# 14	# 15	# 16	# 17	# 18	# 19	# 20		
Total Circuit Resistance	Volts 12.0				Amps 13.3		Ohms 0.90		No. 8 C.P. Cable Used		No. 2 C.P. Cable Used	

Remarks: Static 600' NW = 0.82. DRILLER SAID WATER @ 140'. 4 GALS PER MIN.
INSTALLED 370' OF 1" PVC VENT PIPE, PERFORATED 260' OF 1" PVC VENT PIPE
SLURRIED 48 SACKS OF COKE.

40-16 Rectifier. EXTRA CABLE = 250'

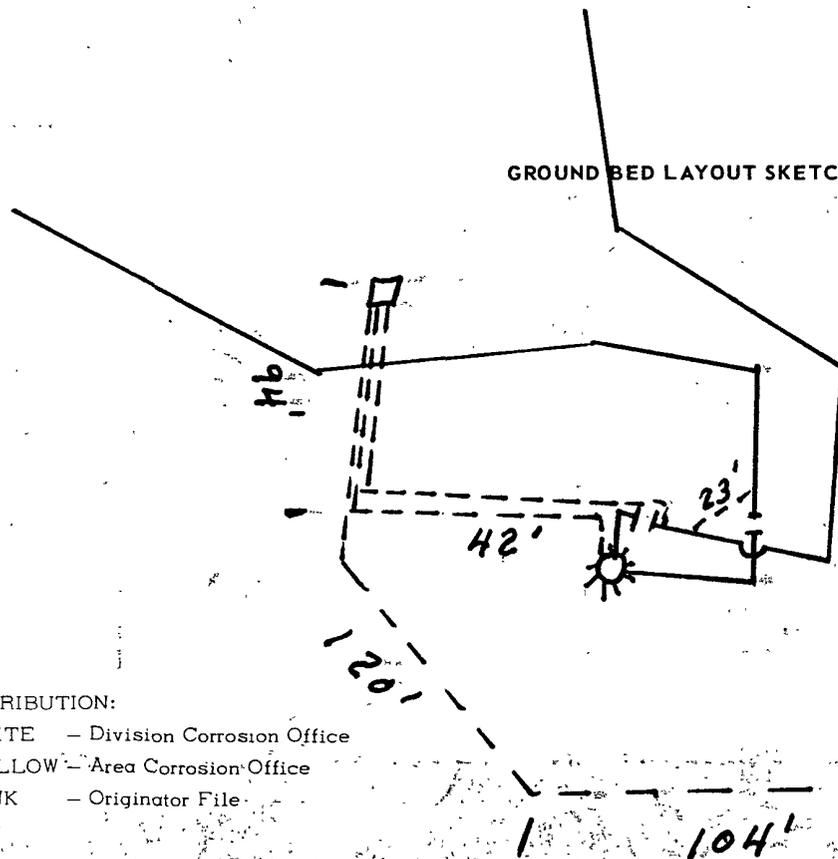
Stub Pole DITCH & CABLE = 383'

Hole credit = -130'

All Construction Completed

W. L. Lutz
 (Signature)

GROUND BED LAYOUT SKETCH



DISTRIBUTION:

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

DRILLING DEPARTMENT

DAILY DRILLING REPORT

1H49W

Contract # 2

LEASE WELL NO. CONTRACTOR *O'Brian* RIG NO. 1 REPORT NO. DATE 7-9-79 19

MORNING					DAYLIGHT					EVENING				
Driller		Total Men In Crew			Driller		Total Men In Crew			Driller		Total Men In Crew		
FROM	TO	FORMATION	WT-BIT	R.P.M.	FROM	TO	FORMATION	WT-BIT	R.P.M.	FROM	TO	FORMATION	WT-BIT	R.P.M.

BIT NO.		NO. DC	SIZE	LENG.	BIT NO.		NO. DC	SIZE	LENG.	BIT NO.		NO. DC	SIZE	LENG.
SER. NO.		STANDS			SERIAL NO.		STANDS			SERIAL NO.		STANDS		
SIZE		SINGLES			SIZE		SINGLES			SIZE		SINGLES		
TYPE		DOWN ON KELLY			TYPE		DOWN ON KELLY			TYPE		DOWN ON KELLY		
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			
Time	Wt.	Vis.				Time	Wt.	Vis.				Time	Wt.	Vis.				

FROM	TO	TIME BREAKDOWN		FROM	TO	TIME BREAKDOWN		FROM	TO	TIME BREAKDOWN	
0	35	Sand		235	275	Sand					
35	41	Shale		275	370	Shale w/ small sand streaks					
41	170	Sand	water								
170	178	Shale									
178	210	Sand - Bentonite									
210	235	Shale	Sandy								

REMARKS -

REMARKS -

REMARKS -
 674 - 370 ft
 Logged 370
 Water overwrite @ 140
 estimate 49pm water
Jerry Langley

SIGNED: Toolpusher *O'Brian* Company Supervisor

ATLANTIC B #9-A

1449W
CONTRACT #2

SE34-31-10

57327-21

MW		gals/mol
16.04	C ₁	6.4
30.07	C ₂	10.12
44.10	C ₃	10.42
58.12	iC ₄	12.38
58.12	nC ₄	11.93
72.15	iC ₅	13.85
72.15	nC ₅	13.71
86.18	iC ₆	15.50
86.18	C ₆	15.57
100.21	iC ₇	17.2
100.21	C ₇	17.46
114.23	C ₈	19.39
28.05	C ₂ ²	9.64
42.08	C ₃ ²	9.67

MW		MISC. gals/mol
32.00	O ₂	3.37
28.01	CO	4.19
44.01	CO ₂	6.38
64.06	SO ₂	5.50
34.08	H ₂ S	5.17
28.01	N ₂	4.16
2.02	H ₂	3.38

STATIC 600' NW = 0.82
40V 16A RECTIFIER
Stub Pole
10-2" x 60" DURIRON
Hole Credit = -130
EXTRA CABLE = 250'
Ditch Cable = 383'

DRILLER SAID WATER @ 140' 4 GALS PER MIN
Installed 370' of 1" PVC vent pipe
Perforate 2260 psi 1" PVC vent pipe
shipped SACKS of COKE

7-9-79 11 HRS

140	.7	90	1.1					
	.7	⑤ 90	1.2					
50	1.4	300	1.2					
	1.2		.9					
60	.7	④ 10	1.1					
	.6		2.3					
70	.6	③ 20	2.5					
	.9		2.4					
80	.8	② 30	2.1					
	.6		1.8					
90	1.3	① 40	1.7					
	2.2		1.7					
200	2.4	50	1.4					
	2.3		1.3					
⑩ 10	2.1	60	.7					
	1.7		.7					
⑨ 20	1.7	70		logged & drilled	①	340	2.1	3.0
	1.7				②	330	2.3	3.3
⑧ 30	1.5				③	320	3.5	4.2
	1.4				④	310	2.8	3.4
⑦ 40	1.3				⑤	295	1.4	1.7
	1.1				⑥	280	1.7	2.0
50	.9				⑦	240	1.5	1.9
	.7				⑧	230	1.8	2.6
60	.7				⑨	220	2.1	2.6
	.7				⑩	210	2.6	3.3
70	.7							
	.8							
⑥ ⑧ 80	1.4							
	1.4							

VOLTS 12.0
AMPS 13.3
OHMS 0.90

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

Analysis No. 1-9622 Date 7-11-79

Operator EPNG Well Name ATLANTIC B #9A

Location SE 34-31-10 County SAN JUAN State NM

Field _____ Formation _____

Sampled From CPS ~~1449-W~~ 140'

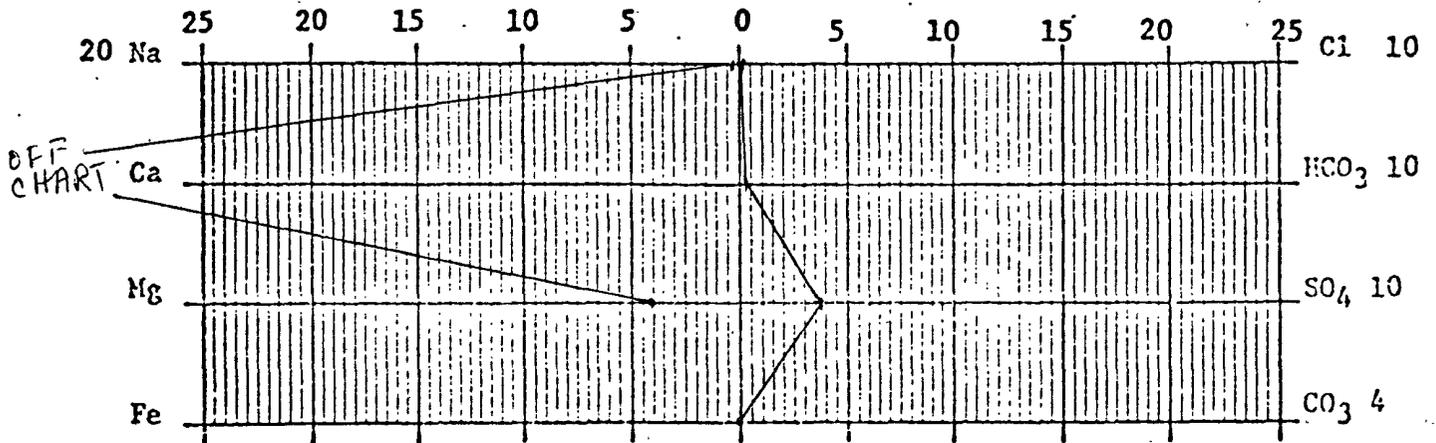
Date Sampled _____ By _____

Tbg. Press.	Csg. Press.	Surface Csg. Press
ppm	epm	ppm epm
Sodium <u>161</u>	<u>7</u>	Chloride <u>28</u> <u>1</u>
Calcium <u>616</u>	<u>31</u>	Bicarbonate <u>161</u> <u>3</u>
Magnesium <u>47</u>	<u>4</u>	Sulfate <u>1850</u> <u>38</u>
Iron <u>PRESENT</u>		Carbonate <u>0</u> <u>0</u>
H ₂ S <u>ABSENT</u>		Hydroxide <u>0</u> <u>0</u>

cc: D.C.Adams
 R.A.Ullrich
 E.R.Paulek
 J.W.McCarthy
 A.M.Smith
 W.B.Shropshire
 File
 C. B. O'Nan

Total Solids Dissolved 3308
 ..
 pH 8.4
 Sp. Gr. 1.0039 at 60°F
 Resistivity 300 ohm-cm at 74 °F

Cheryl Terwilliger
 Chemist *JWS*



Scale: epm

9= 30-045-10072
26= 30-045-23044
220= 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 Twp 31 Rng 10

Name of Well/Wells or Pipeline Serviced ATLANTIC B #9, #26,

ATLANTIC B COM #220 cps 372w

Elevation 6192' Completion Date 10/17/74 Total Depth 260' 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 40' FIRST HOLE

RECEIVED
MAY 31 1991
OIL CON. DIV
DIST 3

Depths gas encountered: N/A

Type & amount of coke breeze used: 4800 lbs.

Depths anodes placed: 245', 235', 220', 210', 200', 190', 180', 130', 120', 110'

Depths vent pipes placed: N/A

Vent pipe perforations: 210'

Remarks: qb #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.

*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

LOGGED

Drilling Log (Attach Hereto)

Completion Date 10/17/24

Well Name ATLANTIC B #9				Location SW34-31N-10W				CPS No. 372 W			
Type & Size Bit Used 6 3/4"								Work Order No. 52395			
Anode Hole Depth 160'		Total Drilling Rig Time		Total Lbs. Coke Used 4,800		Lost Circulation Mat'l Used		No. Sacks Mud Used			
Anode Depth	# 1	# 2	# 3	# 4	# 5	# 6	# 7	# 8	# 9	# 10	
	245'	235'	220'	210'	200'	190'	180'	130'	120'	110'	
Anode Output (Amps)	# 1	# 2	# 3	# 4	# 5	# 6	# 7	# 8	# 9	# 10	
	2.0	1.9	1.8	2.4	3.0	4.2	2.7	2.1	5.0	3.0	
Anode Depth	# 11	# 12	# 13	# 14	# 15	# 16	# 17	# 18	# 19	# 20	
Anode Output (Amps)	# 11	# 12	# 13	# 14	# 15	# 16	# 17	# 18	# 19	# 20	
Total Circuit Resistance	Volts 12.0				Amps 12.8		Ohms 0.93		No. 8 C.P. Cable Used 210'		No. 2 C.P. Cable Used

Remarks: Hole #1 Drilled with Air to 240' Hit Gas Pocket Rig Burned Down Driller said water @ 40' to 60' on Hole #1 Drilled Hole No. 2 with Mud. Vent Hose Perforated 210'

*One Blk 1A
Blew gas - burned rig up*

All Construction Completed

Edward R. Paulk
(Signature)

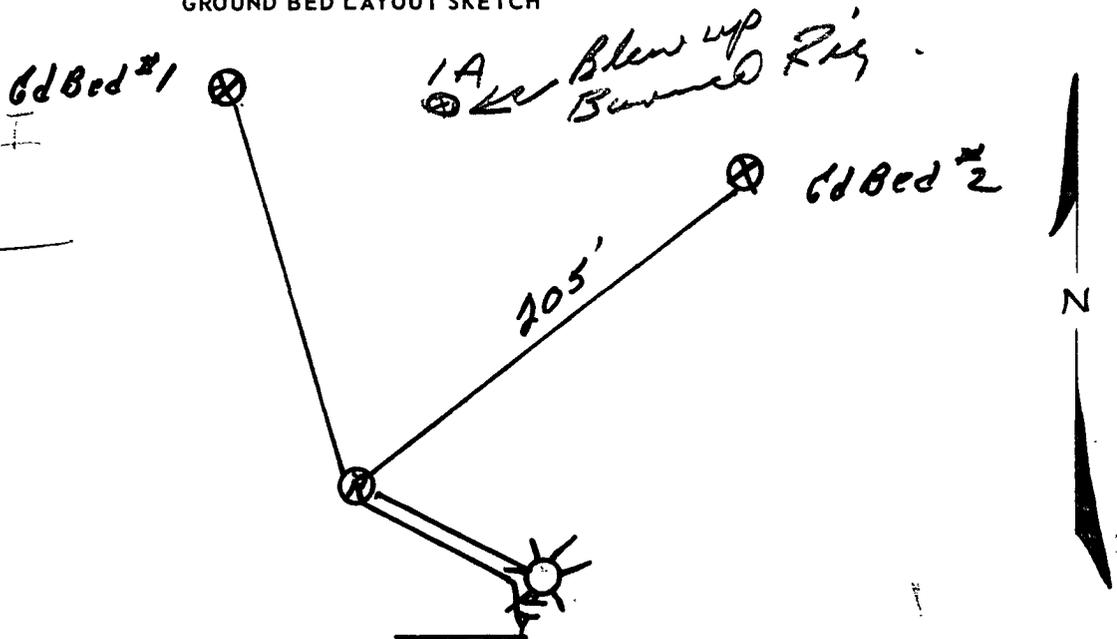
\$3,409.00
84.00 Cable

\$3,493.00
-480.00 Depth Credit

\$3,013.00
120.52 TAX

\$3,133.52

GROUND BED LAYOUT SKETCH



W 372 W

X = 4.0

1260/0
1272/0

MW gas/mol

16	CO ₂	6.4
30	ICA	9.56
44	ICA	10.42
72	ICA	13.85
72	ICA	13.85
84	ICA	15.50
100	ICA	17.2
114	ICA	19.38
28	IC ₂	8.64
42	IC ₄	12.87

14.000
H₂O

50	2.2		30	.9		Driller said water
	2.2			1.3		ON Hole #1 40' to
60	2.7		40	1.1		60' HIT gas Barnt
	2.2			1.4		up rig
70	2.3		50	2.3		Drill Hole #2 with
	2.6			2.6		Mud
80	2.2		60	BOTTOM		VENT Hose Per Drilled 210'
	1.5					
90	1.0		70			
	1.6					
100	1.3					
	1.0					
①	10	1.8			① 245	1.4 2.0
	1.9				2 235	1.3 1.9
②	20	2.6			3 220	1.2 1.8
	1.0				4 210	1.7 2.4
③	30	1.4			5 200	2.0 3.0
	.8				6 190	2.7 4.2
40	.5				7 180	1.7 2.7
	.8				8 170	1.7 2.1
50	1.0				9 120	3.1 5.0
	.9				10 110	2.0 3.0
60	.9					
	.9					
70	.8					
	.6					
④	80	1.4				
	2.2					
⑤	90	2.3				
	2.0					
⑥	200	1.8				
	1.4					
⑦	10	1.5				
	1.0					
⑧	20	1.1				
	1.2					

MW MISC. gas/mol

44	CO ₂	6.38
34	H ₂ S	5.17
28	N ₂	4.16
2	H ₂	3.38

12.0V 12.8 A 0.93

967 30-045-22975

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'

Remarks: gb #1 NOT A MERIDIAN WELL.

RECEIVED
MAY 31 1991
OIL CON. DIV. 1
DIST. 3

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

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

WELL CASING

CATHODIC PROTECTION CONSTRUCTION REPORT
 DAILY LOG

Drilling-Log (Attach Hereto)

22
 CONTRACT #2 2x60 ANODES

Completion Date 7-6-79

Well Name ATLANTIC B # 8A		Location NW 3-30-10				CPS No. 1448W					
Type & Size Bit Used 6 3/4		Work Order No. 57305-21									
Anode Hole Depth 360' logged 350'	Total Drilling Rig Time	Total --- Coke Used 44 SACKS			Lost Circulation Mat'l Used		No. Sacks Mud Used				
Anode Depth	# 1	# 2	# 3	# 4	# 5	# 6	# 7	# 8	# 9	# 10	
	320	310	300	290	280	270	260	250	240	230	
Anode Output (Amps)	# 1	# 2	# 3	# 4	# 5	# 6	# 7	# 8	# 9	# 10	
	2.9	3.5	4.0	4.3	3.5	2.3	2.9	4.8	4.3	4.0	
Anode Depth	# 11	# 12	# 13	# 14	# 15	# 16	# 17	# 18	# 19	# 20	
Anode Output (Amps)	# 11	# 12	# 13	# 14	# 15	# 16	# 17	# 18	# 19	# 20	
Total Circuit Resistance	Volts: 11.6				Amps: 15.5		Ohms: .78		No. 8 C.P. Cable Used		No. 2 C.P. Cable Used

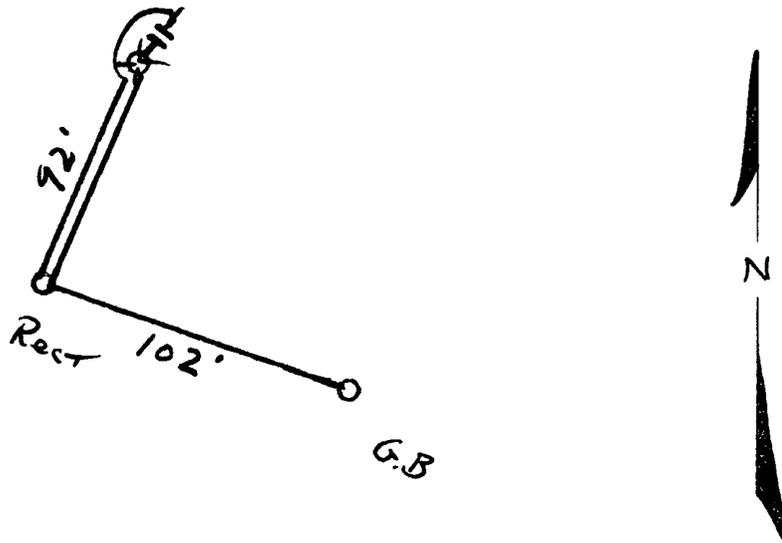
Remarks: **DRILLER SAID HIT WATER AT 120'**
INSTALLED 350' OF 1" VENT PIPE, PERFORATED 260' OF VENT PIPE
SLURRIED 44 SACK OF COKE
STATIC 600' F. 85

1 40V16A RECT
1 STUB POLE
DITCH + 1 CABLE 194'
EXTRA CABLE 112'
HOLE - 150

All Construction Completed

Willis Luyt
 (Signature)

GROUND BED LAYOUT SKETCH



DISTRIBUTION:

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

6294

ATLANTIC BZ 8A
NW 3-30-10
WID 57305-21
CPS 1448W

CONTRACT # 2 2X60 ANODES
STATIC - 600' E = .85

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
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

MW	MISC.	gals/mol
32.00	O2	3.37
28.01	CO	4.19
44.01	CO2	6.38
64.06	SO2	5.50
34.08	H2S	5.17
28.01	N2	4.16
2.02	H2	3.38

1 40V 16A Rect
1 STUB Pole
DITCH + 1 cable
EXTRA cable
Hole - 150'

DRILLER said hit WATER
AT 120'
Installed 350' of 1" VENT PIPE
PERFORATED 260' of VENT PIPE
Slurried 44 SACKS of COKE

120		70	1.3 (10)		7-6-79	10 hrs
30	1.8	80	1.5 (5)			
40	1.7	90	1.8 (5)			
	1.9		2.1 (4)			
50	1.9	300	2.4 (3)			
	1.7		2.3 (3)			
60	1.3	10	2.2 (2)			
	1.1		2.1 (2)			
	.8		1.7			
70	.8	20	1.5 (1)			
	1.2		2.1			
80	2.0	30	2.3			
	2.0		2.3			
90	1.6	40	2.3			
	1.2		2.0			
200	1.3	50	2.0 T.D			
	1.3					
10	1.7	30				
	1.7					
20	1.4					
	1.7					
30	2.1 (10)					
	2.1					
40	2.3 (5)					
	2.1					
50	2.4 (9)					
	2.1					
60	1.8 (3)					
	1.4					

320	1.9	2.9
310	2.7	3.5
300	3.4	4.0
290	3.2	4.3
280	2.5	3.5
270	1.7	2.3
260	2.2	2.9
250	3.8	4.8
240	3.3	4.3
230	3.2	4.0

V.1.6 A155 12 .79

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

Analysis No. 1-9621 Date 7-11-79

Operator EPNG Well Name ATLANTIC B #8A

Location NW 3-30-10 County SAN JUAN State NM

Field _____ Formation _____

Sampled From CPS

Date Sampled _____ By _____

Tbg. Press. _____ Csg. Press. _____ Surface Csg. Press _____

ppm epm ppm epm

Sodium 46 2 Chloride 20 1

Calcium 608 30 Bicarbonate 78 1

Magnesium 29 2 Sulfate 1550 32

Iron PRESENT Carbonate 0 0

H₂S ABSENT Hydroxide 0 0

cc: D.C.Adams
R.A.Ullrich
E.R.Paulek
J.W.McCarthy
A.M.Smith
W.B.Shropshire
File
C. B. O'Nan

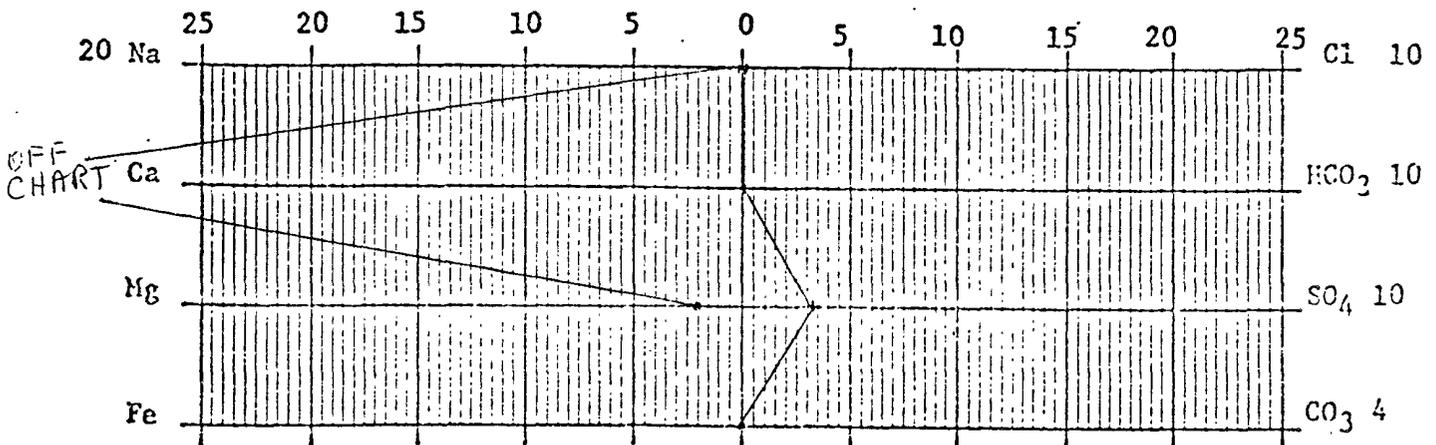
Total Solids Dissolved 2726

pH 8.5

Sp. Gr. 1.0034 at 60°F

Resistivity 340 ohm-cm at 74 °F

Chemist
Chemist *JWS*



Scale: epm

DAILY DRILLING REPORT

1448 W

Posely

LEASE _____ WELL NO. _____ CONTRACTOR _____ RIG NO. _____ REPORT NO. _____ DATE 7-6-1979

MORNING DAYLIGHT EVENING

MORNING					DAYLIGHT					EVENING				
Driller		Total Men In Crew			Driller		Total Men In Crew			Driller		Total Men In Crew		
FROM	TO	FORMATION	WT-BIT	R.P.M.	FROM	TO	FORMATION	WT-BIT	R.P.M.	FROM	TO	FORMATION	WT-BIT	R.P.M.

T.D. 360'
350'
1095'

BIT NO.		NO. DC	SIZE	LENG.	BIT NO.		NO. DC	SIZE	LENG.	BIT NO.		NO. DC	SIZE	LENG.
SEI	NO.	STANDS			SERIAL NO.	SIZE	STANDS			SERIAL NO.	SIZE	STANDS		
TYPE		DOWN ON KELLY			TYPE		DOWN ON KELLY			TYPE		DOWN ON KELLY		
MAKE		TOTAL DEPTH			MAKE		TOTAL DEPTH			MAKE		TOTAL DEPTH		
					6 3/4"									

MUD RECORD			MUD, ADDITIVES USED AND RECEIVED			MUD RECORD			MUD, ADDITIVES USED AND RECEIVED			MUD RECORD			MUD, ADDITIVES USED AND RECEIVED		
Time	Wt.	Vis.	Time	Wt.	Vis.	Time	Wt.	Vis.	Time	Wt.	Vis.	Time	Wt.	Vis.	Time	Wt.	Vis.

FROM	TO	TIME BREAKDOWN	FROM	TO	TIME BREAKDOWN	FROM	TO	TIME BREAKDOWN
0	10	SAND SURFACE	135	160	SHALE	220	230	SHALE
10	30	SAND	160	175	SANDY SHALE	230	245	SANDY SHALE
30	60	SAND STONE	175	200	SHALE	245	310	SHALE
60	90	SHALE	200	205	SANDY SHALE	310	330	SANDY SHALE
90	95	SAND STONE	205	215	SHALE	330	360	SHALE
95	135	SAND WET	215	230	SANDY SHALE			

REMARKS -

REMARKS -

REMARKS -

Water sample @ 120'

SIGNED: Toolpusher Posely Company Supervisor _____

966

30-045- 22996

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. 34 Twp 31 Rng 10

Name of Well/Wells or Pipeline Serviced 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 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. 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'

Vent pipe perforations: 280'

Remarks: gb #1 NOT A MERIDIAN WELL.

RECEIVED
MAY 31 1991
OIL CON. DIV.
DIST. 3

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

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

WELL CASING

CATHODIC PROTECTION CONSTRUCTION REPORT
 DAILY LOG

Drilling Log (Attach Hereto) CONTRACT # 2 Completion Date 7-6-79

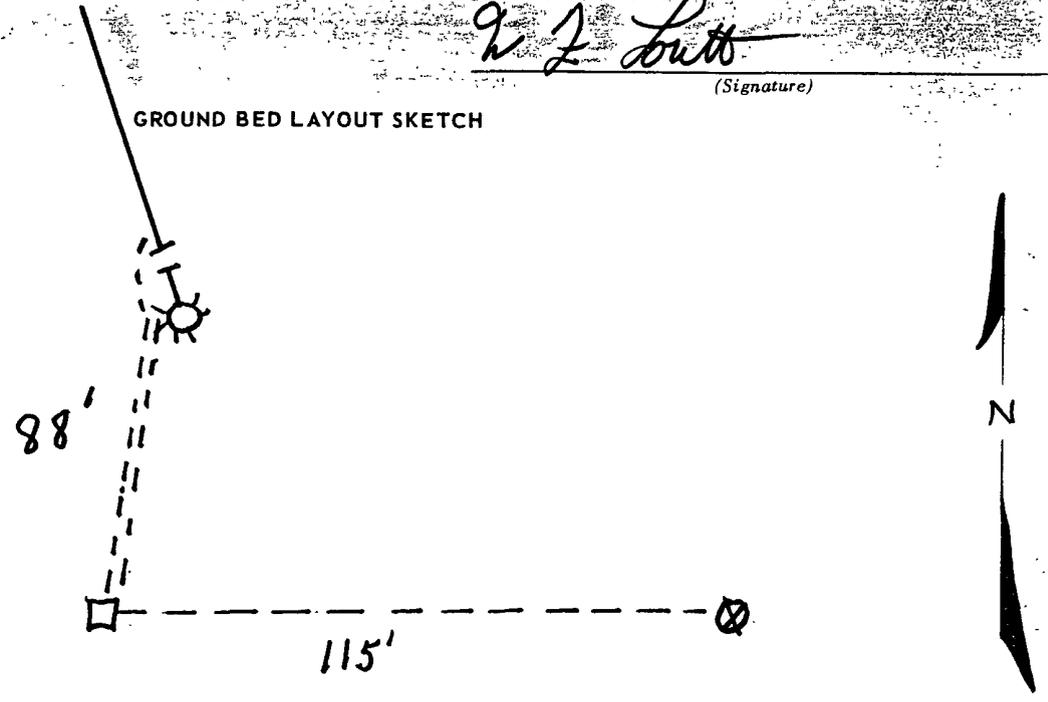
Well Name ATLANTIC B # 7-A		Location NW 34-31-10			CPS No. 1447W	
Type & Size Bit Used 6 3/4" 10-2" x 60" DURIRON		Work Order No. 57326-21				
Anode Hole Depth 400' - 400'	Total Drilling Rig Time	Total Coke Used 51 SACKS	Lost Circulation Mat'l Used 0	No. Sacks Mud Used 0		
Anode Depth	# 2	# 3	# 4	# 5	# 6	# 7
385	375	365	355	345	335	325
Anode Output (Amps)	# 2	# 3	# 4	# 5	# 6	# 7
4.8	5.6	5.0	5.1	5.0	4.5	4.7
Anode Depth	# 11	# 12	# 13	# 14	# 15	# 16
Anode Output (Amps)	# 11	# 12	# 13	# 14	# 15	# 16
Total Circuit Resistance	Volts 11.9		Amps 18.9		Ohms 0.63	
No. 8 C.P. Cable Used			No. 2 C.P. Cable Used			

Remarks: Static 600' w = 0.83. Driller said water @ 81 to 155'. Drilled to 140'. Next A.M. water standing @ 105'. 3 GALS PER MIN. Installed 400' of 1" PVC Vent Pipe. Perforated 280' of 1" PVC vent pipe. Slurried 51 SACKS OF COKE
 40V 16A Rectifier Hole credit = -100'
 20' Motor Pole EXTRA CABLE = 108'
 10' stub Pole Ditch & 1 CABLE = 203'

All Construction Completed

W. Z. Lutz
 (Signature)

GROUND BED LAYOUT SKETCH



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

6243

Date: 7-6-79

By: MPB

File: 11-36

Atlantic B #7-A 1447W NW 34-31-10 57326-21
 Static 600'w = 0.83 CONTRACT #2

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
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

DRILLER SAID WATER @ 81' to 155'
 DRILLED TO 140' next AM WATER &
 STANDING @ 105' 3 GALS PER MIN
 Installed 700' of 1" PVC vent pipe
 Perforated 250' of 1" PVC vent pipe
 Shipped 57 SACKS of COKE

Depth	Pressure	Flow	Temp	Notes
10	1.4	60	1.5	
20	1.5	70	1.1	
30	1.0	90	1.4	
40	0.9	300	1.9	
50	0.8	10	2.0	
60	1.2	20	2.3	
70	1.2	30	2.4	
80	1.0	40	2.3	
90	0.7	50	2.4	
100	0.7	60	2.2	
110	0.6	70	2.2	
120	0.7	80	2.4	
130	0.6	90	2.1	
140	0.7	400	2.1	

7-6-79 10 HRS

MW		gals/mol
32.00	O2	3.37
28.01	CO	4.19
44.01	CO2	6.38
64.06	SO2	5.50
34.08	H2S	5.17
28.01	N2	4.16
2.02	H2	3.38

①	385	2.9	4.8
②	375	3.3	5.6
③	365	2.8	5.0
④	355	3.1	5.1
⑤	345	3.2	5.0
⑥	335	3.1	4.5
⑦	325	3.4	4.7
⑧	315	3.1	4.6
⑨	305	2.4	3.6
⑩	275	2.1	3.2

Volts 11.9
 Amps 18.9
 Ohms 0.63

TDS DRILLED

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

Analysis No. 1=9620 Date 7-11-79
 Operator EPNG Well Name ATLANTIC B #7A
 Location NW 34-31-10 County SAN JUAN State NM
 Field _____ Formation _____

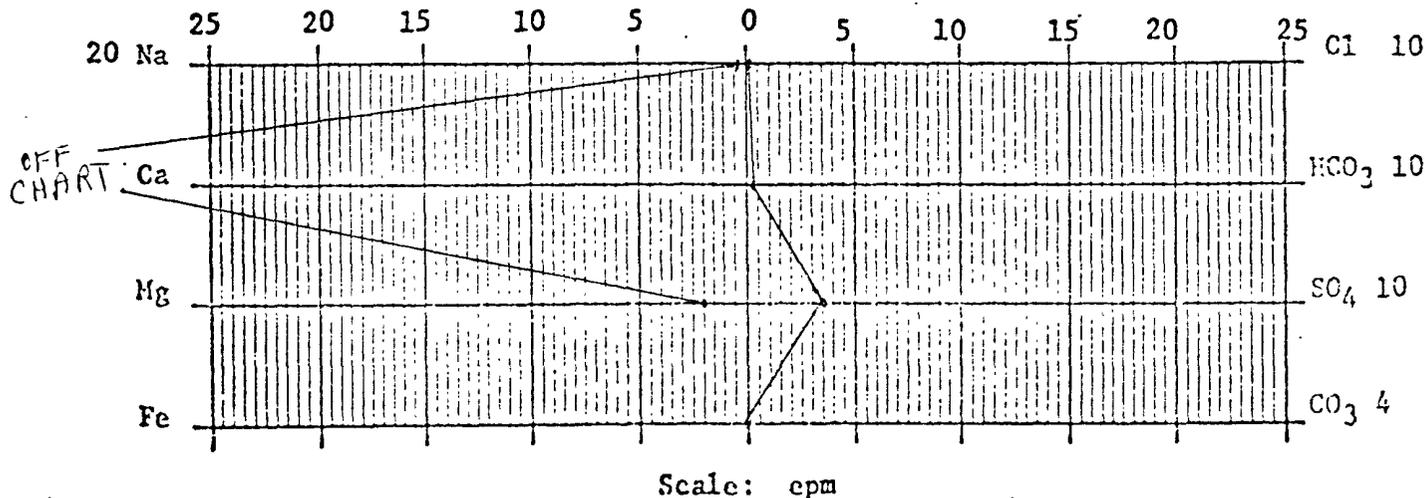
Sampled From CPS-1447W
 Date Sampled _____ By _____

Tbg. Press.	Csg. Press.	Surface Csg. Press.
ppm	epm	ppm epm
Sodium <u>184</u>	<u>8</u>	Chloride <u>16</u> <u>1</u>
Calcium <u>564</u>	<u>28</u>	Bicarbonate <u>117</u> <u>2</u>
Magnesium <u>22</u>	<u>2</u>	Sulfate <u>1700</u> <u>35</u>
Iron <u>PRESENT</u>		Carbonate <u>0</u> <u>0</u>
H ₂ S <u>ABSENT</u>		Hydroxide <u>0</u> <u>0</u>

cc: D.C.Adams
 R.A.Ullrich
 E.R.Paulek
 J.W.McCarthy
 A.M.Smith
 W.B.Shropshire
 File
 C. B. O'Nan

Total Solids Dissolved 2952
 PH 8.3
 Sp. Gr. 1.0034 at 60°F
 Resistivity 320 ohm-cm at 74 °F

Chemist
 Chemist *JWS*



DAILY DRILLING REPORT

14470

Contract # 2
O'BRIAN

LEASE WELL NO. CONTRACTOR RIG NO. 1 REPORT NO. DATE July 6 19 79

MORNING					DAYLIGHT					EVENING				
Driller		Total Men In Crew			Driller		Total Men In Crew			Driller		Total Men In Crew		
FROM	TO	FORMATION	WT-BIT	R.P.M.	FROM	TO	FORMATION	WT-BIT	R.P.M.	FROM	TO	FORMATION	WT-BIT	R.P.M.

BIT NO.		NO. DC		SIZE		LENG.		BIT NO.		NO. DC		SIZE		LENG.		BIT NO.		NO. DC		SIZE		LENG.	
SER. NO.		STANDS		SINGLES		DOWN ON KELLY		SERIAL NO.		STANDS		SINGLES		DOWN ON KELLY		SERIAL NO.		STANDS		SINGLES		DOWN ON KELLY	
MAKE		TOTAL DEPTH		MAKE		TOTAL DEPTH		MAKE		TOTAL DEPTH		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			
Time	Wt.	Vis.	Time	Wt.	Vis.	Time	Wt.	Vis.	Time	Wt.	Vis.	Time	Wt.	Vis.	Time	Wt.	Vis.	

FROM	TO	TIME BREAKDOWN	FROM	TO	TIME BREAKDOWN	FROM	TO	TIME BREAKDOWN
0	35	Sand	205	235	Sandstone			
35	81	Shale	235	240	Sandy Shale			
81	155	Sandstone - "water"	240	310	Sand			
155	185	Shale	310	400	Sandy Shale			
185	200	Sandstone						
200	205	Shale						

REMARKS -

REMARKS -

REMARKS -
400 ft w/ 6 3/4
Logged to 400
estimate water - 39 mcf
water @ 105 over nite.

SIGNED: Toolpusher *O'Brian*

Company Supervisor

#7 = 30-045-10190

#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: Unit NE Sec 34 Twp 31 Rng 10

Name of Well/Wells or Pipeline Serviced ATLANTIC B #7, #18

cps 336w

Elevation 6298' Completion Date 5/16/72 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 placed, show depths & amounts used
N/A

Depths & thickness of water zones with description of water when possible:
Fresh, Clear, Salty, Sulphur, Etc. 120'

RECEIVED

MAY 31 1991

Depths gas encountered: N/A

OIL CON. DIV.
DIST. 3

Type & amount of coke breeze used: 5900 lbs.

Depths anodes placed: 260', 250', 225', 215', 205', 175', 155', 140', 130', 120'

Depths vent pipes placed: N/A

Vent pipe perforations: 260'

Remarks: gb #2 not a MERIDIAN well.

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

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

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

WELL CASING
CATHODIC PROTECTION CONSTRUCTION REPORT
DAILY LOG

[Handwritten Signature]

Drilling Log (Attach Hereto)

Completion Date 5-16-72

Well Name <u>Atlantic #7B</u>		Location <u>NE 34-31-10</u>			CPS No. <u>336W</u>	
Type & Size Bit Used <u>6 3/4</u>				Work Order No. <u>184-52185-50-20</u>		
Anode Hole Depth <u>300</u>	Total Drilling Rig Time		Total Lbs. Coke Used <u>5900</u>	Lost Circulation Mat'l Used <u>NO</u>	No. Sacks Mud Used <u>NO (AIR DRILL)</u>	
Anode Depth						
# 1 <u>260</u>	# 2 <u>250</u>	# 3 <u>225</u>	# 4 <u>215</u>	# 5 <u>205</u>	# 6 <u>175</u>	# 7 <u>155</u>
# 8 <u>140</u>	# 9 <u>130</u>	# 10 <u>120</u>				
Anode Output (Amps)						
# 1 <u>5.2</u>	# 2 <u>5.1</u>	# 3 <u>5.2</u>	# 4 <u>5.3</u>	# 5 <u>5.8</u>	# 6 <u>2.9</u>	# 7 <u>4.5</u>
# 8 <u>5.7</u>	# 9 <u>5.8</u>	# 10 <u>5.3</u>				
Anode Depth						
# 11	# 12	# 13	# 14	# 15	# 16	# 17
# 18	# 19	# 20				
Anode Output (Amps)						
# 11	# 12	# 13	# 14	# 15	# 16	# 17
# 18	# 19	# 20				
Total Circuit Resistance				No. 8 C.P. Cable Used		No. 2 C.P. Cable Used
Volts <u>10.5</u>	Amps <u>13.0</u>	Ohms <u>0.80</u>				

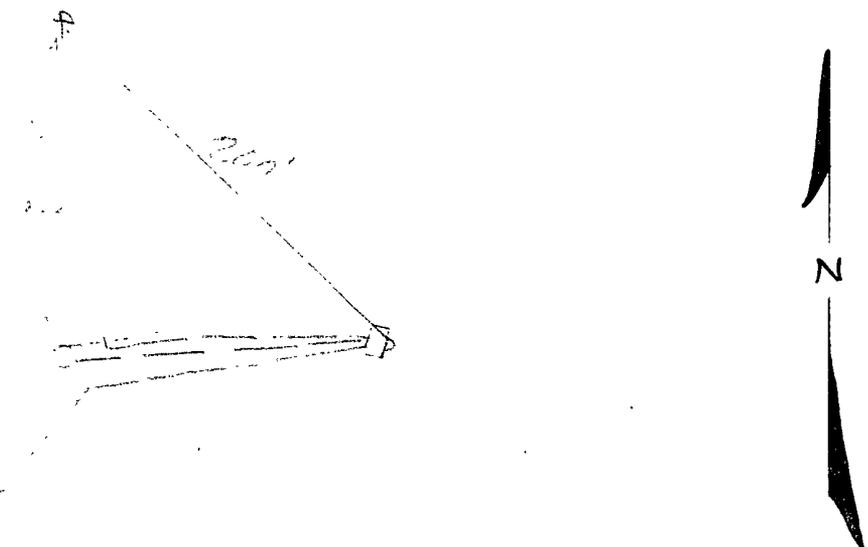
Remarks: Driller said water at 120'; Drill with air - stopped Drilling at 1:00 P.M. - Start logging at 2:00 P.M. - Water level at 170' - Fill with water & log from 120' to 170'. After Anodes were in place. Water level was below 140'. Hose Perforated 2.60' - Pump 363 Shovels Est 5900 lbs

All Construction Completed

[Handwritten Signature: Francis Paulek]

(Signature)

GROUND BED LAYOUT SKETCH



Date: _____
By: _____

226 W Atlantic #7B

MW	gas/mol
16	C1 5.4
18	C2 9.56
44	C3 10.42
58	IC4 12.38
72	NC4 11.93
72	IC4 13.85
86	NC4 13.71
86	IC4 15.30
100	C4 15.57
100	IC4 17.2
114	C7 17.46
114	C8 19.38
28	C2 9.64
42	C3 9.67

MW	MISC	gas/mol
44	CO2	6.38
34	H2S	3.17
28	N2	4.16
2	H2	3.38

Time	Pressure	Flow	Drill with air	LOG	water	cake
1:00	1.6	1.0	Drill with air			
	1.6	1.0	Driller said water at 120			
	1.41	1.0	5:30 Drilling at 1:00 AM			
	2.05		log at 7:20 AM			
	2.3		Water at 170			
	2.4		Fill with water & log from			
	2.25	10	100 TO 175"			
	2.35					
10	2.50	10				
	2.35					
	2.25	10				
	2.2					
	1.6					
	1.0					
17	1.70	1.0				
	1.5	1.55				
20	1.3					
	1.0					
	1.0					
	1.2					
	1.2					
	2.25					
	2.15					
	2.15					
	2.16					
	1.7					
	1.35					
	1.25					
	1.3					
	?					
	2.5					
	1.7					
	2.7					
	1.0					
	1.0					
	0.7					

10.5 V 13.2 H

10.5 V 13.2 H

10.5 V 13.2 H

33611

DRILLING DEPARTMENT

33611

DAILY DRILLING REPORT

LEASE *Atlantic* WELL NO. *2027-B* CONTRACTOR *Morison* RIG NO. REPORT NO. DATE *5-16* 19*72*

Driller <i>Morison</i>				Total Men In Crew				Driller				Total Men In Crew			
MORNING				DAYLIGHT				EVENING							
FROM	TO	FORMATION	WT-BIT	R.P.M.	FROM	TO	FORMATION	WT-BIT	R.P.M.	FROM	TO	FORMATION	WT-BIT	R.P.M.	
0	15	<i>loose sand</i>			120	160	<i>sandy shale</i>								
15	100	<i>dry sand shale</i>			160	200	<i>sandy shale</i>								
100	110	<i>dry fine sand</i>			200	300	<i>sandy shale</i>								
110	120	<i>small limestone</i>													
MUD RECORD				MUD, ADDITIVES USED AND RECEIVED				MUD RECORD				MUD, ADDITIVES USED AND RECEIVED			
Time	Wt.	Vis.		Time	Wt.	Vis.		Time	Wt.	Vis.		Time	Wt.	Vis.	
FROM	TO	TIME BREAKDOWN		FROM	TO	TIME BREAKDOWN		FROM	TO	TIME BREAKDOWN		FROM	TO	TIME BREAKDOWN	
REMARKS -				REMARKS -				REMARKS -				REMARKS -			

SIGNED: Toolpusher

[Signature]

Company Supervisor

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: Unit SW Sec 33 Twp 31 Rng 10

Name of Well/Wells or Pipeline Serviced ATLANTIC B #6, #20

cps 371w

Elevation 6294' Completion Date 11/5/76 Total Depth 292' 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. 90'

Depths gas encountered: N/A

Type & amount of coke breeze used: 48 SACKS

Depths anodes placed: 275', 265', 255', 185', 175'

Depths vent pipes placed: N/A

Vent pipe perforations: 185'

Remarks: qb #2 not a MERIDIAN well.

RECEIVED
MAY 31 1991
OIL CON. DIV
DIST ?

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

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

WELL CASING
CATHODIC PROTECTION CONSTRUCTION REPORT
DAILY LOG

Logged

Completion Date 11-5-76

Drilling Log (Attach Hereto)

Well Name ATLANTIC B #6			Location SW 33-31-10				CPS No. 371W		
Type & Size Bit Used 6 3/4						Work Order No. 52104			
Anode Hole Depth Log 292		Total Drilling Rig Time		Total Lbs. Coke Used 48 Sacks		Lost Circulation Mat'l Used		No. Sacks Mud Used	
Anode Depth									
# 1	275	# 2	265	# 3	255	# 4	185	# 5	175
Anode Output (Amps)									
# 1	2.2	# 2	3.7	# 3	3.9	# 4	3.4	# 5	3.9
Anode Depth									
# 11		# 12		# 13		# 14		# 15	
Anode Output (Amps)									
# 11		# 12		# 13		# 14		# 15	
Total Circuit Resistance		Volts 12.0		Amps 10.7		Ohms 1.12		No. 8 C.P. Cable Used	
								No. 2 C.P. Cable Used	

Remarks: **DRILLER SAID WATER @ 105'**
VENT PERF. 185'
SLURRY 48 SACKS

~~\$2,648.00~~
~~-174.00 Depth Credit~~
~~19.95~~

\$2,493.95
99.75 TAX

All Construction Completed

C. W. Harris
(Signature)

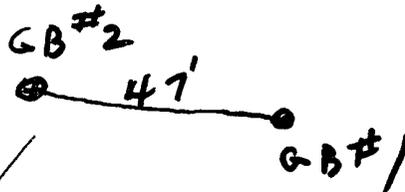
2,593.70

288.00 COKE

213.40 Insp.

50.00 Misc.

GROUND BED LAYOUT SKETCH



\$3,145.10 TOTAL



Sheet: _____ of _____
Date: _____
By: **11-5-76**
File: _____

ATLANTIC B#6

SW 33-31-10

371

52104

371W

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
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

MW	MISC. gals/mol
32.00	O2 3.37
28.01	CO 4.19
44.01	CO2 6.38
64.06	SO2 5.50
34.08	H2S 5.17
28.01	N2 4.16
2.02	H2 3.38

100	4.5				
10	9				
	1.0				
20	1.0				
	1.0				
30	1.0				
	4.1				
40	1.0				
	9				
50	6				
	5				
60	6				
	4				
70	4				
	11	X			
80	16				
	13	X			
90	6	8			
	8				
200	8				
	7				
10	7				
	7				
20	7				
	8				
30	8				
	1.0				
40	1.1				
	1.1				
50	1.4				
	2.2	X			
60	2.4				
	2.2	X			
70	1.4				
	1.4	X			
80	1.1				
	1.0				
90		292 TD			
300					

1	275	1.5-2.2
2	265	2.6-3.7
3	255	2.5-3.9
4	185	1.3-3.4
5	175	1.6-3.9

VENT PERF. 185'

10.7 A
12.0 U

= 1.12 SQ CR

Form 22-2 (Rev. 1-61)

EL PASO NATURAL GAS COMPANY
DRILLING DEPARTMENT

DAILY DRILLING REPORT

LEASE _____ WELL NO. 3710 CONTRACTOR _____ RIG NO. _____ REPORT NO. _____ DATE 1-5-76 1976

MORNING

DAYLIGHT

EVENING

MORNING				DAYLIGHT				EVENING										
Total Men In Crew				Total Men In Crew				Total Men In Crew										
Driller	FROM	TO	FORMATION	WT-BIT	R.P.M.	Driller	FROM	TO	FORMATION	WT-BIT	R.P.M.	Driller	FROM	TO	FORMATION	WT-BIT	R.P.M.	
MUD RECORD				MUD, ADDITIVES USED AND RECEIVED				MUD RECORD				MUD, ADDITIVES USED AND RECEIVED						
Time				Time				Time				Time						
WT.				WT.				WT.				WT.						
VIS.				VIS.				VIS.				VIS.						
FROM	TO	TIME BREAKDOWN		FROM	TO	TIME BREAKDOWN		FROM	TO	TIME BREAKDOWN		FROM	TO	TIME BREAKDOWN				
8-10		Surface Sand Dump																
10-75		Shale																
75-95		Sand Stone D ₄₄																
85-90		Shale																
90-105		Sand wet																
105-110		Sand wet Stone																
REMARKS -				REMARKS -				REMARKS -				REMARKS -						
110-150 3 shale																		
150-175 Sand wet																		
175-178 Sand Stone																		
178-195 Shale																		
195-220 Sand wet																		
220-245 Shale																		
245-300 Sand Shale																		

SIGNED: Toolpusher _____

Company Supervisor _____

965

B

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 Serviced ATLANTIC 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 placed, show depths & amounts used
N/A

Depths & thickness of water zones with description of water when possible:
Fresh, Clear, Salty, Sulphur, Etc. 100'

RECEIVED
MAY 31 1991
SAMPLE TAKEN

Depths gas encountered: N/A

Type & amount of coke breeze used: 39 SACKS

OIL CON. DIV.
DIST. 3

Depths anodes placed: 270', 260', 245', 230', 220', 210', 200', 190', 145', 135'

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.

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

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

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

WELL CASING
CATHODIC PROTECTION CONSTRUCTION REPORT
DAILY LOG

Drilling Log (Attach Hereto)

CONTRACT #2 2" X 60" DURATION

Completion Date 7/12/79

Well Name ATLANTIC B #6A		Location NW 33-31-10			CPS No. 1446 W							
Type & Size Bit Used 6 3/4"				Work Order No. 57325-21								
Anode Hole Depth 300' T.D. 300'	Total Drilling Rig Time	Total Lbs. Coke Used 39 SACKS	Lost Circulation Mat'l Used	No. Sacks Mud Used								
Anode Depth	# 1 270'	# 2 260'	# 3 245'	# 4 230'	# 5 220'	# 6 210'	# 7 200'	# 8 190'	# 9 145'	# 10 135'		
Anode Output (Amps)	# 1 2.3	# 2 2.9	# 3 1.4	# 4 1.9	# 5 2.5	# 6 4.0	# 7 4.2	# 8 3.2	# 9 3.5	# 10 3.9		
Anode Depth	# 11 120'	# 12	# 13	# 14	# 15	# 16	# 17	# 18	# 19	# 20		
Anode Output (Amps)	# 11 2.6	# 12	# 13	# 14	# 15	# 16	# 17	# 18	# 19	# 20		
Total Circuit Resistance	Volts 11.8 V				Amps 13.7 A		Ohms .86		No. 8 C.P. Cable Used		No. 2 C.P. Cable Used	

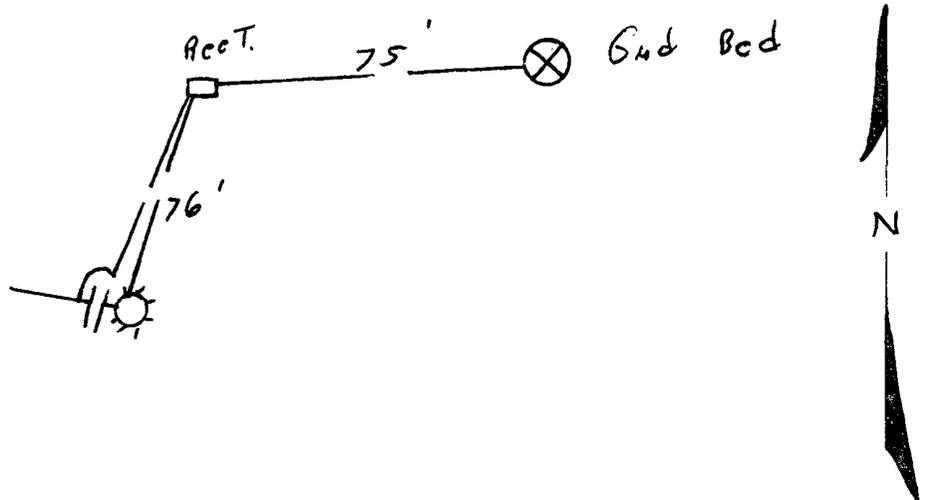
Remarks: **STATIC 600' N = .96 V** Driller said WATER AT 100' APPROX. 10-15 GAL/MIN. DRILLED TO 300'. LOGGED 300'. INSTALLED 300' OF 1" P.V.C. VENT PIPE, PERFORATED @ 200'. HAD A BRIDGE ABOVE #3 ANODE. INSTALLED #11 ANODE TO REPLACE IT.

PITCH #1 CABLE = 151'
EXTRA CABLE = 96'
HOLE DEPTH = 200'

All Construction Completed

JE Stett
(Signature)

GROUND BED LAYOUT SKETCH



Stub Pole & 40V 16A RECT.

6/16/79

ATLANTIC B # 6A

eps - 446W

NW 33-31-10

w.o. 57325-21

DRILLER SAID WATER AT 100'.
Approx. 10-15 GAL./MIN.
Drilled To 300' Logged 300'.
INSTALLED 300' of 1" PVC
VENT Pipe, Perforated 200'.
HAD A Bridge Above #3
ANODE. INSTALLED #11 ANODE
To REPLACE IT.

7/12/79
jt

20 Hrs To TAC

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
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

MW	MISC.	gals/mol
32.00	O2	3.37
28.01	CO	4.19
44.01	CO2	6.38
64.06	SO2	5.50
34.08	H2S	5.17
28.01	N2	4.16
2.02	H2	3.38

100 -
10 - 2.0
20 - 2.0 - ①
30 - 1.9
40 - 2.1 - ①
50 - 2.3
60 - 2.2 - ②
70 - 1.7
80 - 1.5
90 - 1.3
100 - 1.0
110 - 1.0
120 - .9
130 - 1.0
140 - 2.0 - ①
150 - 2.8
160 - 2.8 - ①
170 - 2.7
180 - 2.5 - ①
190 - 2.1
200 - 1.7 - ①
210 - 1.7
220 - 1.6 - ①
230 - 1.3
240 - 1.4
250 - 1.4 - ①
260 - 1.3
270 - 2.0 - ①
280 - 2.0
290 - 1.8 - ①
300 - 1.8
310 - 1.5
320 - 1.0
330 - .9
300 - T.D.

1 - 270 - 1.9 - 2.3
2 - 260 - 2.4 - 2.9
3 - 245 - 1.5 - 1.4
4 - 230 - 1.6 - 1.9
5 - 220 - 2.2 - 2.5
6 - 210 - 3.4 - 4.0
7 - 200 - 4.0 - 4.2
8 - 190 - 2.5 - 3.2
9 - 145 - 2.4 - 3.5
10 - 135 - 3.0 - 3.9
11 - 120 - 2.5 - 2.6

Sheet: _____ of _____
Date: _____
By: _____
File: _____

ATLANTIC B GA

CPS-1446 W

NW 33-31-10

W.O. 57325-21

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
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

MW	MISC.	gals/mol
32.00	O2	3.37
28.01	CO	4.19
44.01	CO2	6.38
64.06	SO2	5.50
34.08	H2S	5.17
28.01	N2	4.16
2.02	H2	3.38

100	-	.7	DRILLER SAID WATER AT 100' DRILLED TO 280' AND TWISTED OFF. DRILLED TO 300' LOGGED 300'
10	-	.6	HOLE MAKING 15-20 GAL/MIN
20	-	.8	INSTALLED 300' OF 1" P.V.C. VENT. PIPE, PERFORATED 200'
30	-	1.0	RAM 4 ANODES IN HOLE
40	-	2.1	STARTED COKEING. HOLE CAVED IN. RETRIEVED 2 ANODES. LOST 2 ANODES & VENT PIPE IN HOLE.
50	-	1.2	Moved Rig & STARTED NEW HOLE
60	-	1.2	
70	-	1.4	
80	-	1.1	
90	-	1.7	
200	-	2.8	
10	-	2.6	
20	-	1.8	
30	-	1.6	
40	-	1.6	
50	-	1.1	
60	-	1.9	
70	-	1.9	
80	-	1.9	
90	-	1.2	
200	-	T.D.	

- 1 - 280 - 2.1
- 2 - 270 -
- 3 - 260 -
- 4 - 235 -
- 5 - 225 -
- 6 - 215 -
- 7 - 205 -
- 8 - 195 -
- 9 - 170 -
- 10 - 145 -

7/11/19
JL

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

Analysis No. 1-9660 Date 8-3-79

Operator EPNG Well Name ATLANTIC B6A

Location NW 33-31-10 County SAN JUAN State NM

Field _____ Formation _____

Sampled From CPS 1446-W

Date Sampled _____ By _____

Tbg. Press. _____ Csg. Press. _____ Surface Csg. Press _____
 ppm epm ppm epm

Sodium 138 6 Chloride 28 1

Calcium 568 28 Bicarbonate 73 1

Magnesium 12 1 Sulfate 1600 33

Iron PRESENT Carbonate 0 0

H₂S ABSENT Hydroxide 0 0

cc: D.C.Adams Total Solids Dissolved 2898

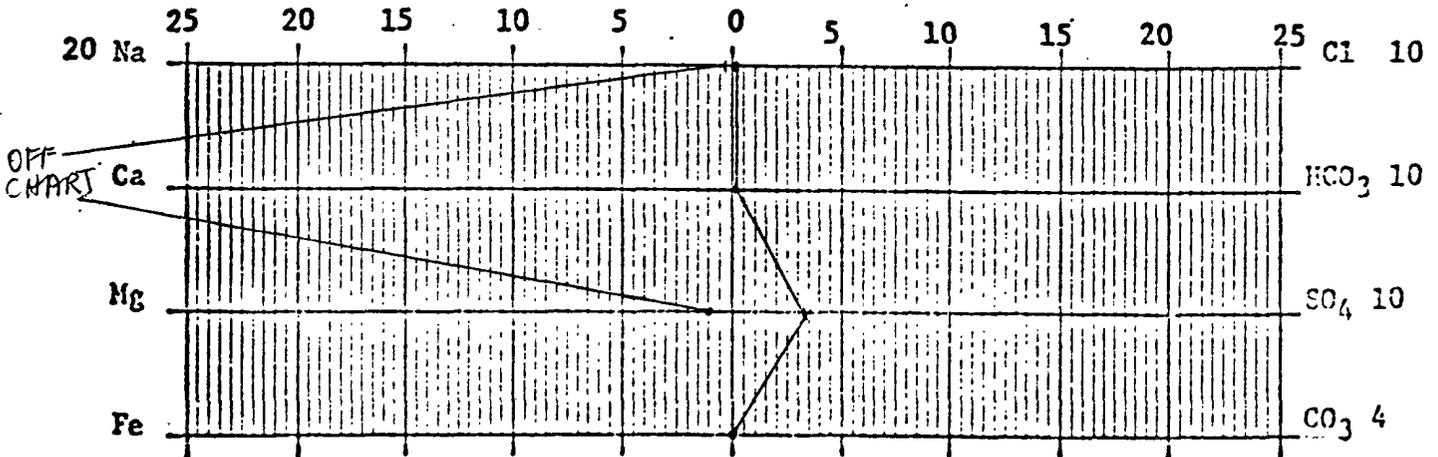
R.A.Ullrich
 E.R.Paulek
 J.W.McCarthy
 A.M.Smith
 W.B.Shropshire
 File
 C. B. O'Nan

pH 7.2

Sp. Gr. 1.0035 at 60° F

Resistivity 330 ohm-cm at 75° F

Cheryl Terwilliger
 Chemist *MS*



Scale: epm

DAILY DRILLING REPORT

1446W Redrill

Posey

DATE 11-12-1979

LEASE _____ WELL NO. _____ CONTRACTOR _____ RIG NO. _____ REPORT NO. _____ DATE _____ 1979

MORNING					DAYLIGHT					EVENING				
Driller		Total Men In Crew			Driller		Total Men In Crew			Driller		Total Men In Crew		
FROM	TO	FORMATION	WT-BIT	R.P.M.	FROM	TO	FORMATION	WT-BIT	R.P.M.	FROM	TO	FORMATION	WT-BIT	R.P.M.

T.D. 300'
LOGGED 300'

BIT NO.		NO. DC	SIZE	LENG.	BIT NO.		NO. DC	SIZE	LENG.	BIT NO.		NO. DC	SIZE	LENG.		
SE.	NO.	STANDS			SERIAL NO.	SE.	NO.	STANDS			SERIAL NO.	SE.	NO.	STANDS		
SIZE		SINGLES			TYPE		DOWN ON KELLY			MAKE		TOTAL DEPTH				

6 3/4"

MUD RECORD			MUD, ADDITIVES USED AND RECEIVED			MUD RECORD			MUD, ADDITIVES USED AND RECEIVED			MUD RECORD			MUD, ADDITIVES USED AND RECEIVED			
Time	Wt.	Vis.	Time	Wt.	Vis.	Time	Wt.	Vis.	Time	Wt.	Vis.	Time	Wt.	Vis.	Time	Wt.	Vis.	

FROM	TO	TIME BREAKDOWN	FROM	TO	TIME BREAKDOWN	FROM	TO	TIME BREAKDOWN
0	10	SANDSTONE SURFACE	78	82	SANDSTONE	172	217	SHALE
10	30	SANDSTONE	82	100	SAND (WET)	217	250	SANDY SHALE
30	35	SAND DAMP	100	110	SHALE	250	300	SHALE
35	65	SANDSTONE	110	140	SANDY SHALE			
65	70	SHALE	140	165	SHALE			
70	78	SAND (WET)	165	172	SANDY SHALE			

REMARKS -

REMARKS -

REMARKS -

APPXIMATELY 15 GAL PER MIN @ 100'

SIGNED: Toolpusher Posey

Company Supervisor Jeff Murphy



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.
97057-1125

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

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.
Description: Hydrocarbon/Condensate impacted soil associated natural gas pipeline release.
Estimated Volume 50 yd³/ bbls Known Volume (to be entered by the operator at the end of the haul) 1622/55 yd³/ bbls

5. **GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS**

I, Thomas Long *Thomas Long*, representative or authorized agent for Enterprise Products Operating do hereby
Generator Signature
certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988
regulatory determination, the above described waste is: (Check the appropriate classification)
 RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-
exempt waste. **Operator Use Only: Waste Acceptance Frequency** Monthly Weekly Per Load
 RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by
characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261,
subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check
the appropriate items)
 MSDS Information RCRA Hazardous Waste Analysis Process Knowledge Other (Provide description in Box 4)

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, Thomas Long *Thomas Long* 8-18-2021, representative for Enterprise Products Operating authorizes Envirotech, Inc. to complete
Generator Signature
the required testing/sign the Generator Waste Testing Certification.
I, Greg Crabtree, representative for Envirotech, Inc. do hereby certify that
representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples
have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results
of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of
19.15.36 NMAC.

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:
 APPROVED **DENIED (Must Be Maintained As Permanent Record)**

PRINT NAME: Greg Crabtree TITLE: Enviro Manager DATE: 8/19/21
SIGNATURE: [Signature] TELEPHONE NO.: 505-632-0615
Surface Waste Management Facility Authorized Agent



APPENDIX D

Photographic Documentation

SITE PHOTOGRAPHS

Closure Report
Enterprise Field Services, LLC
Atlantic BLS #22 (9/1/21)
Ensolum Project No. 05A1226154



<p>Photograph 1</p> <p>Photograph Description: View of in-process excavation activities.</p>	 A photograph showing an active excavation site. A yellow excavator is visible at the top of a deep, narrow trench. A black pipe is being lowered into the trench. The soil is light brown and appears to be in the process of being excavated.
<p>Photograph 2</p> <p>Photograph Description: View of the final excavation.</p>	 A photograph showing a completed excavation. A black pipe is visible, extending from the surface down into the trench. The trench walls are steep and show signs of erosion. The surrounding area is dry and hilly.
<p>Photograph 3</p> <p>Photograph Description: View of the final excavation.</p>	 A photograph showing a final view of the excavation. A black pipe is visible, extending from the surface down into the trench. The trench walls are steep and show signs of erosion. The surrounding area is dry and hilly.

SITE PHOTOGRAPHS

Closure Report
Enterprise Field Services, LLC
Atlantic BLS #22 (9/1/21)
Ensolum Project No. 05A1226154



Photograph 4

Photograph Description: View of the site after initial restoration.



Photograph 5

Photograph Description: View of the site after initial restoration.





APPENDIX E

Regulatory Correspondence

From: [Smith, Cory, EMNRD](#)
To: [Long, Thomas](#)
Cc: [Stone, Brian](#)
Subject: [EXTERNAL] RE: Atlantic BLS #22 - UL C Section 3 T30N R 10W; 36.845013, -107.870609 - Incident # NAPP2124533703
Date: Wednesday, September 8, 2021 11:26:24 AM

[Use caution with links/attachments]

Tom,

Thanks for the update.

Cory Smith • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
5200 Oakland Avenue N.E Suite 100 | Albuquerque, NM 87113
505.419.2687 | Cory.Smith@state.nm.us
<http://www.emnrd.state.nm.us/OCD/>

From: Long, Thomas <tjlong@eprod.com>
Sent: Wednesday, September 8, 2021 7:24 AM
To: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>
Cc: Stone, Brian <bmstone@eprod.com>
Subject: FW: Atlantic BLS #22 - UL C Section 3 T30N R 10W; 36.845013, -107.870609 - Incident # NAPP2124533703

Cory,

Please find the attached site sketch and lab report for the Atlantic BLS #22 excavation. All sample results are below the NMOCS Tier I remediation standard. Enterprise will backfill the excavation 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)
tjlong@eprod.com



From: Long, Thomas
Sent: Thursday, September 2, 2021 9:36 AM
To: 'Smith, Cory, EMNRD (Cory.Smith@state.nm.us)' <Cory.Smith@state.nm.us>

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

Subject: FW: Atlantic BLS #22 - UL C Section 3 T30N R 10W; 36.845013, -107.870609 - Incident # NAPP2124533703

Cory,

This email is a notification that Entperise will be collecting soil samples for laboratory analysis at the Atlantic BLS #22 excavation tomorrow, September 3, 2021 at 10:00 a.m. weather permitting. If you have any questions, please call or email.

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



From: Long, Thomas

Sent: Wednesday, September 1, 2021 8:53 AM

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

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

Subject: Atlantic BLS #22 - UL C Section 3 T30N R 10W; 36.845013, -107.870609

Cory,

This email is a notification that Entperise confirmed a release of natural gas and natural gas liquids on the Atlantic BLS #22. This is a different release from the previous one. During repairs and remediation of the first release, we located this one. It is located at UL C Section 3 T30N R 10W; 36.845013, -107.870609. It is located in a small ephemeral wash approximately 650 feet east of the first one. No liquids were observed on the ground surface. There was no fire nor did emergency services respond. The pipeline has been out of service since the first release was discovered. I will keep you informed as to when remediation activities will begin and when we will be and collecting soil samples. If you have any questions, please call or email.

Thomas J. Long
Senior Environmental Scientist
Enterprise Products Company
614 Reilly Ave.

Farmington, New Mexico 87401
505-599-2286 (office)
505-215-4727 (Cell)
tjlong@eprod.com



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



APPENDIX F

Table 1 – Soil Analytical Summary



TABLE 1
Atlantic BLS #22 (9/1/21)
SOIL ANALYTICAL SUMMARY

Sample I.D.	Date	Sample Type C - Composite G - Grab	Sample Depth (Feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX ¹ (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total Combined TPH (GRO/DRO/MRO) ¹ (mg/kg)	Chloride (mg/kg)
New Mexico Energy, Mineral & Natural Resources Department Oil Conservation Division Closure Criteria (Tier I)				10	NE	NE	NE	50				100	600
Excavation Composite Soil Samples													
S-1	9.3.21	C	0 to 11	<0.025	<0.049	<0.049	<0.099	ND	<4.9	<9.7	<49	ND	<60
S-2	9.3.21	C	0 to 11	<0.025	<0.050	<0.050	<0.10	ND	<5.0	<9.6	<48	ND	69
S-3	9.3.21	C	0 to 11	<0.024	<0.048	<0.048	<0.097	ND	<4.8	<9.7	<49	ND	<61
S-4	9.3.21	C	0 to 13	<0.024	<0.048	<0.048	<0.096	ND	<4.8	<9.6	<48	ND	<60
S-5	9.3.21	C	0 to 20	<0.025	<0.049	<0.049	<0.098	ND	<4.9	<8.7	<43	ND	<60
S-6	9.3.21	C	20	<0.025	<0.049	<0.049	0.16	0.16	<4.9	<10	<50	ND	<60
S-7	9.3.21	C	13 to 20	<0.024	<0.049	<0.049	0.10	0.10	<4.9	<9.4	<47	ND	<60
S-8	9.3.21	C	0 to 20	<0.024	<0.049	<0.049	<0.097	ND	<4.9	<9.8	<49	ND	<60
S-9	9.3.21	C	0 to 13	<0.025	<0.050	<0.050	<0.099	ND	<5.0	<9.7	<49	ND	<60
S-10	9.3.21	C	0 to 11	<0.025	<0.050	<0.050	<0.10	ND	<5.0	<9.6	<48	ND	<60
S-11	9.3.21	C	11 to 13	<0.025	<0.049	<0.049	<0.099	ND	<4.9	<8.8	<44	ND	<59
S-12	9.3.21	C	0 to 11	<0.025	<0.050	<0.050	<0.099	ND	<5.0	<8.8	<44	ND	<60
S-13	9.3.21	C	11 to 20	<0.024	<0.049	<0.049	<0.097	ND	<4.9	<9.5	<47	ND	<60

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

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

ND = Not Detected above the Practical Quantitation Limits 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



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

September 20, 2021

Kyle Summers

ENSOLUM

606 S. Rio Grande Suite A

Aztec, NM 87410

TEL: (903) 821-5603

FAX

RE: Atlantic BLS 22 September 2021

OrderNo.: 2109217

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 13 sample(s) on 9/4/2021 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued September 08, 2021.

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a white background.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2109217

Date Reported: 9/20/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-1

Project: Atlantic BLS 22 September 2021

Collection Date: 9/3/2021 10:00:00 AM

Lab ID: 2109217-001

Matrix: SOIL

Received Date: 9/4/2021 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	9/7/2021 6:54:43 AM	62404
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	9/4/2021 4:05:30 PM	62401
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/4/2021 4:05:30 PM	62401
Surr: DNOP	101	70-130		%Rec	1	9/4/2021 4:05:30 PM	62401
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/7/2021 9:39:00 AM	62400
Surr: BFB	110	70-130		%Rec	1	9/7/2021 9:39:00 AM	62400
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	9/7/2021 9:39:00 AM	62400
Toluene	ND	0.049		mg/Kg	1	9/7/2021 9:39:00 AM	62400
Ethylbenzene	ND	0.049		mg/Kg	1	9/7/2021 9:39:00 AM	62400
Xylenes, Total	ND	0.099		mg/Kg	1	9/7/2021 9:39:00 AM	62400
Surr: 4-Bromofluorobenzene	99.7	70-130		%Rec	1	9/7/2021 9:39:00 AM	62400

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

Qualifiers:			
*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Page 1 of 17

Analytical Report

Lab Order **2109217**

Date Reported: **9/20/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-2

Project: Atlantic BLS 22 September 2021

Collection Date: 9/3/2021 10:15:00 AM

Lab ID: 2109217-002

Matrix: SOIL

Received Date: 9/4/2021 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	69	60		mg/Kg	20	9/7/2021 7:07:07 AM	62404
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	9/4/2021 4:43:51 PM	62401
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/4/2021 4:43:51 PM	62401
Surr: DNOP	106	70-130		%Rec	1	9/4/2021 4:43:51 PM	62401
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/7/2021 10:02:45 AM	62400
Surr: BFB	108	70-130		%Rec	1	9/7/2021 10:02:45 AM	62400
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	9/7/2021 10:02:45 AM	62400
Toluene	ND	0.050		mg/Kg	1	9/7/2021 10:02:45 AM	62400
Ethylbenzene	ND	0.050		mg/Kg	1	9/7/2021 10:02:45 AM	62400
Xylenes, Total	ND	0.10		mg/Kg	1	9/7/2021 10:02:45 AM	62400
Surr: 4-Bromofluorobenzene	98.9	70-130		%Rec	1	9/7/2021 10:02:45 AM	62400

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2109217**

Date Reported: **9/20/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-3

Project: Atlantic BLS 22 September 2021

Collection Date: 9/3/2021 10:30:00 AM

Lab ID: 2109217-003

Matrix: SOIL

Received Date: 9/4/2021 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	61		mg/Kg	20	9/7/2021 7:19:31 AM	62404
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	9/4/2021 4:56:36 PM	62401
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/4/2021 4:56:36 PM	62401
Surr: DNOP	109	70-130		%Rec	1	9/4/2021 4:56:36 PM	62401
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/7/2021 10:26:20 AM	62400
Surr: BFB	107	70-130		%Rec	1	9/7/2021 10:26:20 AM	62400
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	9/7/2021 10:26:20 AM	62400
Toluene	ND	0.048		mg/Kg	1	9/7/2021 10:26:20 AM	62400
Ethylbenzene	ND	0.048		mg/Kg	1	9/7/2021 10:26:20 AM	62400
Xylenes, Total	ND	0.097		mg/Kg	1	9/7/2021 10:26:20 AM	62400
Surr: 4-Bromofluorobenzene	98.8	70-130		%Rec	1	9/7/2021 10:26:20 AM	62400

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2109217

Date Reported: 9/20/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-4

Project: Atlantic BLS 22 September 2021

Collection Date: 9/3/2021 10:45:00 AM

Lab ID: 2109217-004

Matrix: SOIL

Received Date: 9/4/2021 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	9/7/2021 7:31:56 AM	62404
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	9/4/2021 5:09:10 PM	62401
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/4/2021 5:09:10 PM	62401
Surr: DNOP	108	70-130		%Rec	1	9/4/2021 5:09:10 PM	62401
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/7/2021 10:49:54 AM	62400
Surr: BFB	111	70-130		%Rec	1	9/7/2021 10:49:54 AM	62400
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	9/7/2021 10:49:54 AM	62400
Toluene	ND	0.048		mg/Kg	1	9/7/2021 10:49:54 AM	62400
Ethylbenzene	ND	0.048		mg/Kg	1	9/7/2021 10:49:54 AM	62400
Xylenes, Total	ND	0.096		mg/Kg	1	9/7/2021 10:49:54 AM	62400
Surr: 4-Bromofluorobenzene	99.3	70-130		%Rec	1	9/7/2021 10:49:54 AM	62400

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

Qualifiers:			
*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order **2109217**

Date Reported: **9/20/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-5

Project: Atlantic BLS 22 September 2021

Collection Date: 9/3/2021 11:00:00 AM

Lab ID: 2109217-005

Matrix: SOIL

Received Date: 9/4/2021 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	9/7/2021 7:44:20 AM	62404
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	8.7		mg/Kg	1	9/4/2021 5:21:46 PM	62401
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	9/4/2021 5:21:46 PM	62401
Surr: DNOP	108	70-130		%Rec	1	9/4/2021 5:21:46 PM	62401
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/7/2021 11:13:46 AM	62400
Surr: BFB	107	70-130		%Rec	1	9/7/2021 11:13:46 AM	62400
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	9/7/2021 11:13:46 AM	62400
Toluene	ND	0.049		mg/Kg	1	9/7/2021 11:13:46 AM	62400
Ethylbenzene	ND	0.049		mg/Kg	1	9/7/2021 11:13:46 AM	62400
Xylenes, Total	ND	0.098		mg/Kg	1	9/7/2021 11:13:46 AM	62400
Surr: 4-Bromofluorobenzene	98.0	70-130		%Rec	1	9/7/2021 11:13:46 AM	62400

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2109217

Date Reported: 9/20/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-6

Project: Atlantic BLS 22 September 2021

Collection Date: 9/3/2021 11:15:00 AM

Lab ID: 2109217-006

Matrix: SOIL

Received Date: 9/4/2021 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	9/7/2021 7:56:45 AM	62404
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	9/4/2021 5:34:24 PM	62401
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	9/4/2021 5:34:24 PM	62401
Surr: DNOP	110	70-130		%Rec	1	9/4/2021 5:34:24 PM	62401
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/7/2021 11:37:13 AM	62400
Surr: BFB	113	70-130		%Rec	1	9/7/2021 11:37:13 AM	62400
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	9/7/2021 11:37:13 AM	62400
Toluene	ND	0.049		mg/Kg	1	9/7/2021 11:37:13 AM	62400
Ethylbenzene	ND	0.049		mg/Kg	1	9/7/2021 11:37:13 AM	62400
Xylenes, Total	0.16	0.099		mg/Kg	1	9/7/2021 11:37:13 AM	62400
Surr: 4-Bromofluorobenzene	97.4	70-130		%Rec	1	9/7/2021 11:37:13 AM	62400

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

Qualifiers:			
*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order 2109217

Date Reported: 9/20/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-7

Project: Atlantic BLS 22 September 2021

Collection Date: 9/3/2021 11:30:00 AM

Lab ID: 2109217-007

Matrix: SOIL

Received Date: 9/4/2021 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	9/7/2021 8:09:09 AM	62404
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	9/4/2021 5:46:54 PM	62401
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/4/2021 5:46:54 PM	62401
Surr: DNOP	111	70-130		%Rec	1	9/4/2021 5:46:54 PM	62401
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/7/2021 12:00:42 PM	62400
Surr: BFB	112	70-130		%Rec	1	9/7/2021 12:00:42 PM	62400
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	9/7/2021 12:00:42 PM	62400
Toluene	ND	0.049		mg/Kg	1	9/7/2021 12:00:42 PM	62400
Ethylbenzene	ND	0.049		mg/Kg	1	9/7/2021 12:00:42 PM	62400
Xylenes, Total	0.10	0.097		mg/Kg	1	9/7/2021 12:00:42 PM	62400
Surr: 4-Bromofluorobenzene	99.5	70-130		%Rec	1	9/7/2021 12:00:42 PM	62400

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

Qualifiers:			
*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order **2109217**

Date Reported: **9/20/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-8

Project: Atlantic BLS 22 September 2021

Collection Date: 9/3/2021 11:45:00 AM

Lab ID: 2109217-008

Matrix: SOIL

Received Date: 9/4/2021 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	9/7/2021 8:46:21 AM	62404
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	9/4/2021 5:59:26 PM	62401
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/4/2021 5:59:26 PM	62401
Surr: DNOP	110	70-130		%Rec	1	9/4/2021 5:59:26 PM	62401
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/7/2021 12:24:11 PM	62400
Surr: BFB	106	70-130		%Rec	1	9/7/2021 12:24:11 PM	62400
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	9/7/2021 12:24:11 PM	62400
Toluene	ND	0.049		mg/Kg	1	9/7/2021 12:24:11 PM	62400
Ethylbenzene	ND	0.049		mg/Kg	1	9/7/2021 12:24:11 PM	62400
Xylenes, Total	ND	0.097		mg/Kg	1	9/7/2021 12:24:11 PM	62400
Surr: 4-Bromofluorobenzene	96.3	70-130		%Rec	1	9/7/2021 12:24:11 PM	62400

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2109217**

Date Reported: **9/20/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-9

Project: Atlantic BLS 22 September 2021

Collection Date: 9/3/2021 12:00:00 PM

Lab ID: 2109217-009

Matrix: SOIL

Received Date: 9/4/2021 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	9/7/2021 8:58:46 AM	62404
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	9/4/2021 6:11:57 PM	62401
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/4/2021 6:11:57 PM	62401
Surr: DNOP	104	70-130		%Rec	1	9/4/2021 6:11:57 PM	62401
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/7/2021 12:47:42 PM	62400
Surr: BFB	108	70-130		%Rec	1	9/7/2021 12:47:42 PM	62400
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	9/7/2021 12:47:42 PM	62400
Toluene	ND	0.050		mg/Kg	1	9/7/2021 12:47:42 PM	62400
Ethylbenzene	ND	0.050		mg/Kg	1	9/7/2021 12:47:42 PM	62400
Xylenes, Total	ND	0.099		mg/Kg	1	9/7/2021 12:47:42 PM	62400
Surr: 4-Bromofluorobenzene	97.3	70-130		%Rec	1	9/7/2021 12:47:42 PM	62400

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2109217**

Date Reported: **9/20/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-10

Project: Atlantic BLS 22 September 2021

Collection Date: 9/3/2021 12:15:00 PM

Lab ID: 2109217-010

Matrix: SOIL

Received Date: 9/4/2021 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	9/7/2021 9:11:10 AM	62404
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	9/4/2021 6:24:27 PM	62401
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/4/2021 6:24:27 PM	62401
Surr: DNOP	110	70-130		%Rec	1	9/4/2021 6:24:27 PM	62401
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/7/2021 1:11:17 PM	62400
Surr: BFB	105	70-130		%Rec	1	9/7/2021 1:11:17 PM	62400
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	9/7/2021 1:11:17 PM	62400
Toluene	ND	0.050		mg/Kg	1	9/7/2021 1:11:17 PM	62400
Ethylbenzene	ND	0.050		mg/Kg	1	9/7/2021 1:11:17 PM	62400
Xylenes, Total	ND	0.10		mg/Kg	1	9/7/2021 1:11:17 PM	62400
Surr: 4-Bromofluorobenzene	97.0	70-130		%Rec	1	9/7/2021 1:11:17 PM	62400

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2109217**

Date Reported: **9/20/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-11

Project: Atlantic BLS 22 September 2021

Collection Date: 9/3/2021 12:30:00 PM

Lab ID: 2109217-011

Matrix: SOIL

Received Date: 9/4/2021 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	59		mg/Kg	20	9/7/2021 9:23:35 AM	62404
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	8.8		mg/Kg	1	9/4/2021 6:36:29 PM	62401
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	9/4/2021 6:36:29 PM	62401
Surr: DNOP	107	70-130		%Rec	1	9/4/2021 6:36:29 PM	62401
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/7/2021 1:58:35 PM	62400
Surr: BFB	109	70-130		%Rec	1	9/7/2021 1:58:35 PM	62400
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	9/7/2021 1:58:35 PM	62400
Toluene	ND	0.049		mg/Kg	1	9/7/2021 1:58:35 PM	62400
Ethylbenzene	ND	0.049		mg/Kg	1	9/7/2021 1:58:35 PM	62400
Xylenes, Total	ND	0.099		mg/Kg	1	9/7/2021 1:58:35 PM	62400
Surr: 4-Bromofluorobenzene	98.8	70-130		%Rec	1	9/7/2021 1:58:35 PM	62400

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2109217**

Date Reported: **9/20/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-12

Project: Atlantic BLS 22 September 2021

Collection Date: 9/3/2021 12:45:00 PM

Lab ID: 2109217-012

Matrix: SOIL

Received Date: 9/4/2021 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	9/7/2021 9:35:59 AM	62404
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	8.8		mg/Kg	1	9/4/2021 6:48:56 PM	62401
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	9/4/2021 6:48:56 PM	62401
Surr: DNOP	114	70-130		%Rec	1	9/4/2021 6:48:56 PM	62401
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/7/2021 2:22:18 PM	62400
Surr: BFB	111	70-130		%Rec	1	9/7/2021 2:22:18 PM	62400
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	9/7/2021 2:22:18 PM	62400
Toluene	ND	0.050		mg/Kg	1	9/7/2021 2:22:18 PM	62400
Ethylbenzene	ND	0.050		mg/Kg	1	9/7/2021 2:22:18 PM	62400
Xylenes, Total	ND	0.099		mg/Kg	1	9/7/2021 2:22:18 PM	62400
Surr: 4-Bromofluorobenzene	99.6	70-130		%Rec	1	9/7/2021 2:22:18 PM	62400

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2109217**

Date Reported: **9/20/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-13

Project: Atlantic BLS 22 September 2021

Collection Date: 9/3/2021 1:00:00 PM

Lab ID: 2109217-013

Matrix: SOIL

Received Date: 9/4/2021 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	9/7/2021 9:48:24 AM	62404
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	9/4/2021 7:01:36 PM	62401
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/4/2021 7:01:36 PM	62401
Surr: DNOP	114	70-130		%Rec	1	9/4/2021 7:01:36 PM	62401
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/7/2021 2:46:01 PM	62400
Surr: BFB	111	70-130		%Rec	1	9/7/2021 2:46:01 PM	62400
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	9/7/2021 2:46:01 PM	62400
Toluene	ND	0.049		mg/Kg	1	9/7/2021 2:46:01 PM	62400
Ethylbenzene	ND	0.049		mg/Kg	1	9/7/2021 2:46:01 PM	62400
Xylenes, Total	ND	0.097		mg/Kg	1	9/7/2021 2:46:01 PM	62400
Surr: 4-Bromofluorobenzene	99.8	70-130		%Rec	1	9/7/2021 2:46:01 PM	62400

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2109217

20-Sep-21

Client: ENSOLUM
Project: Atlantic BLS 22 September 2021

Sample ID: MB-62404	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 62404	RunNo: 81061								
Prep Date: 9/7/2021	Analysis Date: 9/7/2021	SeqNo: 2862328	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-62404	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 62404	RunNo: 81061								
Prep Date: 9/7/2021	Analysis Date: 9/7/2021	SeqNo: 2862330	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.0	90	110			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2109217

20-Sep-21

Client: ENSOLUM
Project: Atlantic BLS 22 September 2021

Sample ID: 2109217-001AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: S-1	Batch ID: 62401	RunNo: 81065								
Prep Date: 9/4/2021	Analysis Date: 9/4/2021	SeqNo: 2861483	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	9.5	47.62	0	92.1	39.3	155			
Surr: DNOP	5.0		4.762		106	70	130			

Sample ID: 2109217-001AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: S-1	Batch ID: 62401	RunNo: 81065								
Prep Date: 9/4/2021	Analysis Date: 9/4/2021	SeqNo: 2861484	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	9.6	48.08	0	94.0	39.3	155	3.01	23.4	
Surr: DNOP	5.2		4.808		109	70	130	0	0	

Sample ID: MB-62401	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 62401	RunNo: 81065								
Prep Date: 9/4/2021	Analysis Date: 9/4/2021	SeqNo: 2861505	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.0		10.00		90.0	70	130			

Sample ID: LCS-62401	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 62401	RunNo: 81065								
Prep Date: 9/4/2021	Analysis Date: 9/4/2021	SeqNo: 2861506	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	10	50.00	0	88.6	68.9	135			
Surr: DNOP	4.5		5.000		90.8	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 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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2109217

20-Sep-21

Client: ENSOLUM
Project: Atlantic BLS 22 September 2021

Sample ID: mb-62400	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 62400	RunNo: 81085								
Prep Date: 9/4/2021	Analysis Date: 9/7/2021	SeqNo: 2862286	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		104	70	130			

Sample ID: lcs-62400	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 62400	RunNo: 81085								
Prep Date: 9/4/2021	Analysis Date: 9/7/2021	SeqNo: 2862287	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	106	78.6	131			
Surr: BFB	1200		1000		119	70	130			

Sample ID: 2109217-001ams	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: S-1	Batch ID: 62400	RunNo: 81085								
Prep Date: 9/4/2021	Analysis Date: 9/7/2021	SeqNo: 2862289	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	4.9	24.70	0	111	61.3	114			
Surr: BFB	1300		988.1		136	70	130			S

Sample ID: 2109217-001amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: S-1	Batch ID: 62400	RunNo: 81085								
Prep Date: 9/4/2021	Analysis Date: 9/7/2021	SeqNo: 2862290	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	4.9	24.44	0	107	61.3	114	4.82	20	
Surr: BFB	1300		977.5		128	70	130	0	0	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2109217

20-Sep-21

Client: ENSOLUM
Project: Atlantic BLS 22 September 2021

Sample ID: mb-62400	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 62400	RunNo: 81085								
Prep Date: 9/4/2021	Analysis Date: 9/7/2021	SeqNo: 2862418	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.96		1.000		96.0	70	130			

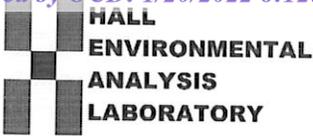
Sample ID: LCS-62400	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 62400	RunNo: 81085								
Prep Date: 9/4/2021	Analysis Date: 9/7/2021	SeqNo: 2862419	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	1.000	0	92.7	80	120			
Toluene	0.93	0.050	1.000	0	93.1	80	120			
Ethylbenzene	0.92	0.050	1.000	0	92.3	80	120			
Xylenes, Total	2.8	0.10	3.000	0	91.9	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		104	70	130			

Sample ID: 2109217-002ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: S-2	Batch ID: 62400	RunNo: 81085								
Prep Date: 9/4/2021	Analysis Date: 9/7/2021	SeqNo: 2862422	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	0.9891	0	92.4	80	120			
Toluene	0.94	0.049	0.9891	0	94.6	80	120			
Ethylbenzene	0.93	0.049	0.9891	0	94.0	80	120			
Xylenes, Total	2.8	0.099	2.967	0	94.1	80	120			
Surr: 4-Bromofluorobenzene	1.0		0.9891		105	70	130			

Sample ID: 2109217-002amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: S-2	Batch ID: 62400	RunNo: 81085								
Prep Date: 9/4/2021	Analysis Date: 9/7/2021	SeqNo: 2862423	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	0.9930	0	90.8	80	120	1.39	20	
Toluene	0.91	0.050	0.9930	0	91.4	80	120	3.02	20	
Ethylbenzene	0.91	0.050	0.9930	0	91.7	80	120	2.13	20	
Xylenes, Total	2.7	0.099	2.979	0	91.5	80	120	2.38	20	
Surr: 4-Bromofluorobenzene	1.0		0.9930		103	70	130	0	0	

Qualifiers:

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



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 Name: ENSOLUM Work Order Number: 2109217 RcptNo: 1

Received By: Juan Rojas 9/4/2021 8:30:00 AM
Completed By: Juan Rojas 9/4/2021 9:11:23 AM
Reviewed By: [Signature] 9/4/21

Chain of Custody

- 1. Is Chain of Custody complete? Yes [checked] No [] Not Present []
2. How was the sample delivered? Courier

Log In

- 3. Was an attempt made to cool the samples? Yes [checked] No [] NA []
4. Were all samples received at a temperature of >0° C to 6.0°C Yes [checked] No [] NA []
5. Sample(s) in proper container(s)? Yes [checked] No []
6. Sufficient sample volume for indicated test(s)? Yes [checked] No []
7. Are samples (except VOA and ONG) properly preserved? Yes [checked] No []
8. Was preservative added to bottles? Yes [] No [checked] NA []
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes [] No [] NA [checked]
10. Were any sample containers received broken? Yes [] No [checked]
11. Does paperwork match bottle labels? Yes [checked] No []
12. Are matrices correctly identified on Chain of Custody? Yes [checked] No []
13. Is it clear what analyses were requested? Yes [checked] No []
14. Were all holding times able to be met? Yes [checked] No []

of preserved bottles checked for pH: (<2 or >12 unless noted)
Adjusted?
Checked by: JR 9/4/21

Special Handling (if applicable)

- 15. Was client notified of all discrepancies with this order? Yes [] No [] NA [checked]

Person Notified: [] Date []
By Whom: [] Via: [] eMail [] Phone [] Fax [] In Person []
Regarding: []
Client Instructions: []

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Row 1: 1, 1.2, Good, [], [], [], []

Chain-of-Custody Record

Client: Ensolum, LLC
 Mailing Address: 606 S. Brookside, Suite A
Ashe, NM, 87410
 Phone #: _____

Turn-Around Time:
 Standard Rush 100% Same Day
 Project Name: Atlantic BLS#22 (October 2021)
 Project #: See notes



www.hallenvironmental.com
 4901 Hawkins NE - Albuquerque, NM 87109
 Tel. 505-345-3975 Fax 505-345-4107

email or Fax#: k.summers@ensolum.com
 QA/QC Package:
 Standard Level 4 (Full Validation)
 Accreditation: Az Compliance
 NELAC Other
 EDD (Type) _____

Project Manager: K. Summers
 Sampler: L. Desjardis
 On Ice: Yes No
 # of Coolers: 1
 Cooler Temp (including CF): 14-02=1.2 (°C)

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMS (8021)	TPH: 8015D (GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
9/3/21	10:00	S	S-1	1402101 Cool		2109217	X	X	X	X	X	X	X	X	X	
9/3/21	10:15	S	S-2			-002	X	X	X	X	X	X	X	X	X	
9/3/21	10:30	S	S-3			003	X	X	X	X	X	X	X	X	X	
9/3/21	10:45	S	S-4			004	X	X	X	X	X	X	X	X	X	
9/3/21	11:00	S	S-5			005	X	X	X	X	X	X	X	X	X	
9/3/21	11:15	S	S-6			006	X	X	X	X	X	X	X	X	X	
9/3/21	11:30	S	S-7			007	X	X	X	X	X	X	X	X	X	
9/3/21	11:45	S	S-8			008	X	X	X	X	X	X	X	X	X	
9/3/21	12:00	S	S-9			009	X	X	X	X	X	X	X	X	X	
9/3/21	12:15	S	S-10			010	X	X	X	X	X	X	X	X	X	
9/3/21	12:30	S	S-11			011	X	X	X	X	X	X	X	X	X	
9/3/21	12:45	S	S-12			012	X	X	X	X	X	X	X	X	X	

Relinquished by: [Signature] Date: 9/3/21 Time: 13:06
 Relinquished by: [Signature] Date: 9/12/21 Time: 8:30
 Received by: [Signature] Date: 9/3/21 Time: 13:06
 Received by: [Signature] Date: 9/12/21 Time: 8:30

Remarks: PM Tom Long
Non AFE: N54736
Pay key: AB21200
Same Day

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

District I
 1625 N. French Dr., Hobbs, NM 88240
 Phone:(575) 393-6161 Fax:(575) 393-0720
District II
 811 S. First St., Artesia, NM 88210
 Phone:(575) 748-1283 Fax:(575) 748-9720
District III
 1000 Rio Brazos Rd., Aztec, NM 87410
 Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
 1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS
 Action 73740

CONDITIONS

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 73740
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	2/23/2022