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

State of New Mexico
Energy Minerals and Natural Resources Department

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

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

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: **Enterprise Field Services, LLC**	OGRID: **241602**
Contact Name: **Thomas Long**	Contact Telephone: **505-599-2286**
Contact email:**tjlong@eprod.com**	**Incident #** ***(assigned by OCD):)*** **NAPP2115326053**
Contact mailing address: **614 Reilly Ave, Farmington, NM 87401**	

Location of Release Source

Latitude **36.79111** Longitude **-107.91407** *(NAD 83 in decimal degrees to 5 decimal places)*

Site Name **Stewart LS#5**	Site Type **Natural Gas Gathering Pipeline**
Date Release Discovered: **5/21/2021**	Serial Number *(if applicable)*: **N/A**

Unit Letter	Section	Township	Range	County
M	**20**	**30N**	**10W**	**San Juan**

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (*Name*: **BLM**)

Nature and Volume of Release

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

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☒ Condensate	Volume Released (bbls): **5-10 Barrels**	Volume Recovered (bbls): **None**
☒ Natural Gas	Volume Released (Mcf): **36 MCF**	Volume Recovered (Mcf): **None**
☐ Other (describe)	Volume/Weight Released (provide units):	Volume/Weight Recovered (provide units)

Cause of Release: On May 21, 2021, Enterprise had a release of natural gas and condensate from the Stewart LS #5 pipeline. An area of approximately three feet in diameter was impacted by the released fluids. No staining liquids. No washes/waterways were affected. No residences were affected. Remediation was completed on July 7. 2021. The final excavation dimensions measured approximately 43 feet long by 34 feet wide and by 14 feet deep. Approximately 564 cubic yards of hydrocarbon impacted soil was excavated and transported to a NMOCD approved land farm. A third party closure report is included with this "Final" C-141.

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

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: Thomas Long Date: 12/9/2021

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: Nelson Velez Date: 01/05/2022

Printed Name: Nelson Velez Title: Environmental Specialist - Adv

APPROVED
By Nelson Velez at 1:40 pm, Jan 05, 2022

1. Closure Report Approved, Release Resolved.

ENSOLUM

CLOSURE REPORT

Property:

Stewart LS#5 (5/21/21)
Unit Letter M, S20 T30N R10W
San Juan County, New Mexico

New Mexico EMNRD OCD Incident ID No. nAPP2115326053

August 11, 2021
Ensolum Project No. 05A1226148

Prepared for:

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

Prepared by:

Landon Daniell
Staff Geologist

Kyle Summers, CPG
Sr. Project Manager

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7.0 RECLAMATION AND REVEGETATION 5

8.0 FINDINGS AND RECOMMENDATION 5

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ENSOLUM

CLOSURE REPORT

Stewart LS#5 (5/21/21)
Unit Letter M, S20 T30N R10W
San Juan County, New Mexico

Ensolum Project No. 05A1226148

1.0 INTRODUCTION

1.1 Site Description & Background

Operator:	Enterprise Field Services, LLC / Enterprise Products Operating LLC (Enterprise)
Site Name:	Stewart LS#5 (5/21/21) (Site)
Incident ID	nAPP2115326053
Location:	36.79111° North, 107.91407° West Unit Letter M, Section 20, Township 30 North, Range 10 West San Juan County, New Mexico
Property:	Bureau of Land Management (BLM)
Regulatory:	New Mexico (NM) Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

On May 21, 2021, Enterprise personnel discovered a release of condensate and natural gas on the Stewart LS #5 pipeline. Enterprise subsequently isolated and locked the pipeline out of service. On May 27, 2021, Enterprise initiated activities to repair the pipeline and remediate petroleum hydrocarbon impact. However, trucks were not available to haul the stockpiled soil, so activities were halted. Remediation activities resumed on June 7, 2021.

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). Five PODs (SJ-01362, SJ-02782, SJ-02797, SJ-03442, and SJ-04454-POD1) were identified in the same Public Land Survey System (PLSS) section as the Site. POD SJ-01362 is the only POD with a recorded depth to water. As plotted by the OSE on the interactive map, this POD is approximately 0.4 miles from the Site and approximately 130 feet higher in elevation than the Site (approximately 6,172 feet). The record for this POD indicates the depth to water is 190 feet below grade surface (bgs). The permits for the other PODs (SJ-02782, SJ-02797, SJ-03442, and SJ-04454-POD1) were approved by the OSE, but apparently, the wells have not been installed, and no additional information is available (**Figure A**, **Appendix B**).

A temporary groundwater monitoring well was installed at the former Enterprise Lateral H-34 pipeline release site in December 2019. This former remediation site is located approximately 240 feet south of the Site and is approximately 5 feet lower in elevation. Based on the information from the submitted closure report for the Lateral H-34, one groundwater sample was collected at approximately 20.5 feet bgs *(Lateral H-34 Pipeline Release Closure Report*, Rule Engineering, LLC, July 24, 2020).

- Seventeen cathodic protection wells (CPWs) were identified in the NM EMNRD OCD imaging database in adjacent PLSS sections. Of the seventeen CPWs, thirteen contain records listing groundwater depths and those locations are depicted on **Figure B** (**Appendix B**). Five of the CPWs are located within 1.5 miles of the Site, but none are within one mile. The records for the CPW located near the Sunray D#1 and D#3 well locations indicate a depth to water of 120 feet bgs. This CPW is located approximately 1.1 miles east of the site and is located at a higher elevation (6,351 feet, according to the well record) than the Site. The records for the CPW located near the Sellers Fed 2M well location indicates a depth to water of 130 feet bgs. This CPW is located approximately 1.1 miles southwest of the site and is located at a lower elevation (6,065 feet) than the Site. The records for the CPW located near the Schumacher #10A well location indicates a depth to water of 180 feet bgs. This CPW is located approximately 1.2 miles northwest of the site and is located at a higher elevation (6,419 feet, according to the well record) than the Site. The records for the CPW located near the Sunray D#1A well location indicates a depth to water of 50 feet bgs. This CPW is located approximately 1.4 miles northeast of the site and is located at a higher elevation (6,426 feet, according to the well record) than the Site. The records for the CPW located near the Schumacher #11 well location indicates a depth to water of 100 feet bgs. This CPW is located approximately 1.5 miles northwest of the site and is located at a higher elevation (6,272 feet, according to the well record) than the Site. The depth to water for the remaining CPWs ranges from 25 feet bgs to 310 feet bgs.

- The Site is located within 300 feet of a NM EMNRD OCD-defined continuously flowing watercourse or significant watercourse. The excavation is located approximately 220 feet north of an unnamed ephemeral wash (**Figure C**, **Appendix B**).

- The Site is not located within 200 feet of a lakebed, sinkhole, or playa lake.

- The Site is not located within 300 feet of a permanent residence, school, hospital, institution, or church (**Figure D**, **Appendix B**).

- No springs, or private domestic 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 (**Figure E**, **Appendix B**).

- The Site is not located within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to New Mexico Statues Annotated (NMSA) 1978, Section 3-27-3.

- Based on information identified in the U.S. Fish & Wildlife Service National Wetlands Inventory Wetlands Mapper, the Site is not located within 300 feet of a wetland (**Figure F**, **Appendix B**).

- Based on information identified in the NM Mining and Minerals Division's Geographic Information System (GIS) Maps and Mine Data database, the Site is not located within an area overlying a subsurface mine (**Figure G**, **Appendix B**).

- The Site is not located within an unstable area.

- Based on information provided by the Federal Emergency Management Agency (FEMA) National Flood Hazard Layer (NFHL) geospatial database the location of the Site is unlikely to be located within a 100-year floodplain (**Figure H**, **Appendix B**).

Based on available information, Enterprise estimates the depth to water at the Site to be less than 50 feet bgs. 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 May 27, 2021, Enterprise initiated activities to repair the pipeline and remediate petroleum hydrocarbon impact resulting from the release. During the remediation and corrective action activities, OFT Construction provided heavy equipment and labor support, while Ensolum provided environmental consulting support.

The final excavation measured approximately 43 feet long and 34 feet wide at the maximum extents. The maximum depth of the excavation measured approximately 14 feet bgs. The lithology encountered during the completion of remediation activities consisted primarily of unconsolidated silty sand, weathered sandstone, and sandstone.

Approximately 564 cubic yards of petroleum hydrocarbon affected soil/sandstone and 55 barrels (bbls) of hydro-excavation soil cuttings and water were transported to the Envirotech, Inc., (Envirotech) landfarm near Hilltop, NM for disposal/remediation. The executed C-138 solid waste acceptance form is provided in **Appendix C**. The excavation was backfilled with imported fill and was 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 25 composite soil samples (S-1 through S-25) from the excavation for laboratory analysis. The composite samples were comprised of five aliquots each and represent an estimated 200 square foot (ft^2) sample area per guidelines outlined in Section D of 19.15.29.12 NMAC. A clean shovel was utilized to obtain fresh aliquots from each area of the excavation. The regulatory notification and documentation are provided in **Appendix E**.

First Sampling Event
On June 10, 2021, the first sampling event was performed at the Site. The NM EMNRD OCD and BLM were notified of the sampling event although no representatives were present during sampling activities. A BLM representative visited the Site after sampling was completed and was shown the collection points.

Composite soil samples S-1 (0'-5'), S-2 (2'-5'), S-4 (5-12'), S-5 (12'-14'), S-7 (2'-7'), S-10 (0'-8') were collected from sloped floors within the excavation. Composite soil samples S-3 (2') and S-15 (8') were collected from flat floors within the excavation. Composite soil samples S-4 (5'-12'), S-6 (8'-14'), S-8 (0'-7'), S-9 (2'-7'), S-11 (7'-12'), S-12 (0'-2'), S-13 (0'-8'), S-14 (0'-8'), S-21 (0'-9'), S-22 (0'-9'), and S-23 (8.5'-14') were collected from vertical or near vertical walls within the excavation.

Second Sampling Event
On June 15, 2021, the second sampling event was performed at the Site. The NM EMNRD OCD and BLM were notified of the sampling event although no representatives were present during sampling activities.

Composite soil samples S-16 (4'-9'), S-17 (4'-5'), S-18 (0'-4'), and S-20 (0'-9') were collected from sloped floors within the excavation. Composite soil samples S-21 (0'-9'), S-22 (0'-9'), and S-23 (8.5'-14') were collected from vertical or near vertical walls within the excavation. Composite soil sample S-24 (3.5'-8.5') was collected from soil/sandstone directly beneath the pipeline (bridge soil) that was initially left in place for safety reasons. The subsequent analytical result from composite soil sample S-24 indicated an exceedance of the applicable NM EMNRD OCD TPH closure criteria. Due to concerns of damaging the pipeline, Enterprise decided to wait to remove the bridge soil during permanent pipeline repairs, which required a section of the pipe to be cut and removed.

Third Sampling Event
On July 7, 2021, Enterprise removed the bridge soil associated with composite soil sample S-24 and the third sampling event was performed. Composite soil sample S-25 (4'-9') was collected from a sloped floor of the excavation to replace soil sample S-24.

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

5.0 SOIL LABORATORY ANALYTICAL METHODS

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

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

6.0 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-25 to the applicable NM EMNRD OCD Tier I closure criteria. The soils associated with composite soil sample S-24 were removed from the site, and therefore, are not included in the following discussion.

- 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-1, S-10, S-13, S-14, S-23, and S-25 indicate total BTEX concentrations ranging from 0.10 mg/kg (S-10 and S-13) to 1.2 mg/kg (S-23), which are less than the applicable NM EMNRD OCD closure criteria of 50 mg/kg. The laboratory analytical results for the remaining composite soil samples indicate total BTEX is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the applicable NM EMNRD OCD closure criteria of 50 mg/kg.

- The laboratory analytical results for composite soil samples S-3, S-11, S-12, S-22, and S-23 indicate combined TPH GRO/DRO/MRO concentrations ranging from 9.9 mg/kg (S-11) to 47 mg/kg (S-23), which are less than the applicable NM EMNRD OCD closure criteria of 100 mg/kg. The laboratory analytical results for the remaining composite soil samples indicate combined TPH GRO/DRO/MRO is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the applicable NM EMNRD OCD closure criteria of 100 mg/kg.

- The laboratory analytical results for composite soil samples S-1, S-4, S-6 through S-11, S-13, S-14, S-17, S-20 through S-23, and S-25 indicate chloride concentrations ranging from 65 mg/kg (S-11) to 250 mg/kg (S-1), which are 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. 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

- Twenty-five 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.

- A total of approximately 564 cubic yards of petroleum hydrocarbon affected soil/sandstone and 55 bbls of hydro-excavation soil cuttings and water were transported to the Envirotech landfarm for

disposal/remediation. The excavation was backfilled and compacted to provide a suitable driving surface.

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

9.0 STANDARDS OF CARE, LIMITATIONS, AND RELIANCE

9.1 Standard of Care

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

9.2 Limitations

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

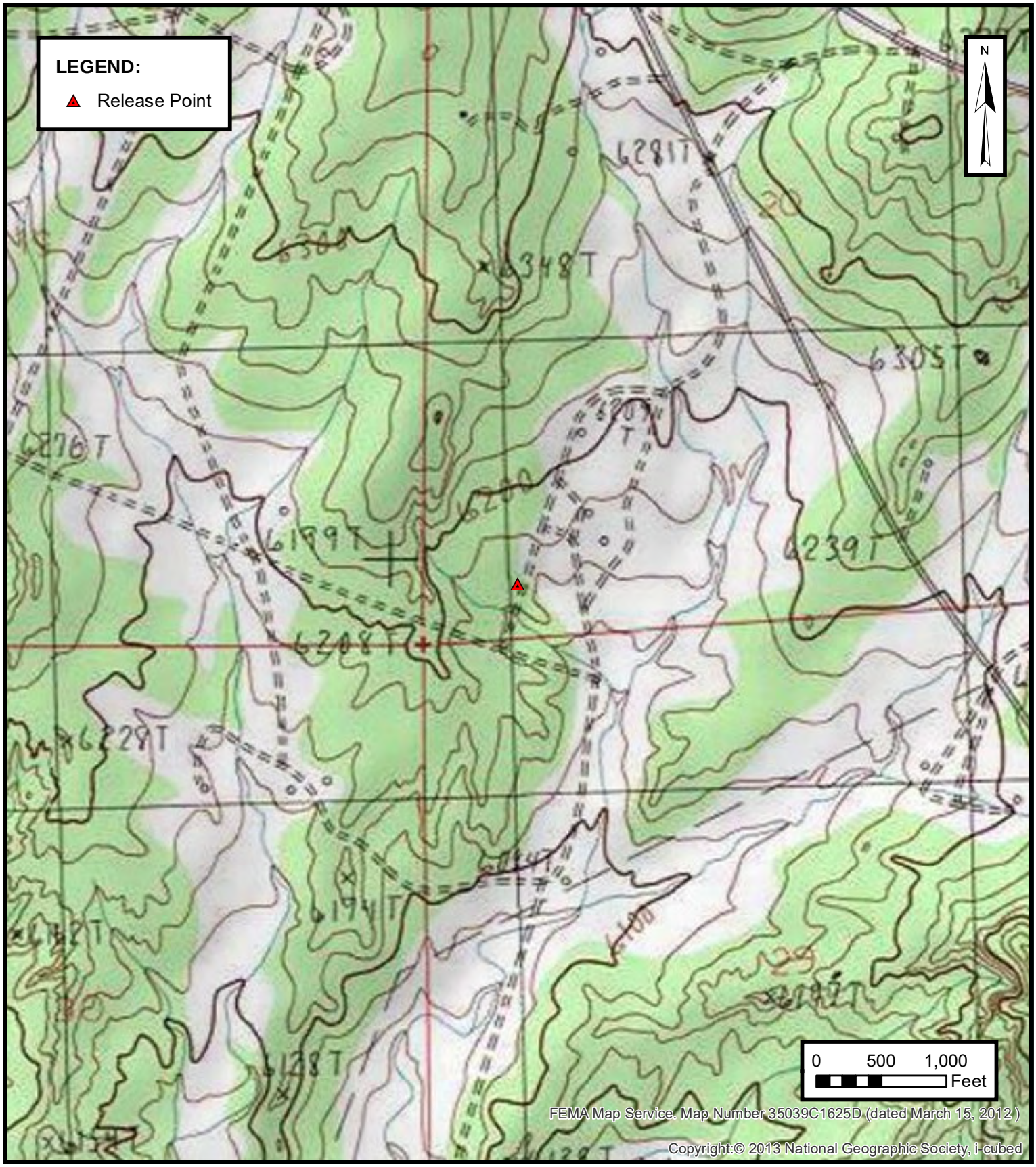
9.3 Reliance

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

ENSOLUM

APPENDIX A

Figures



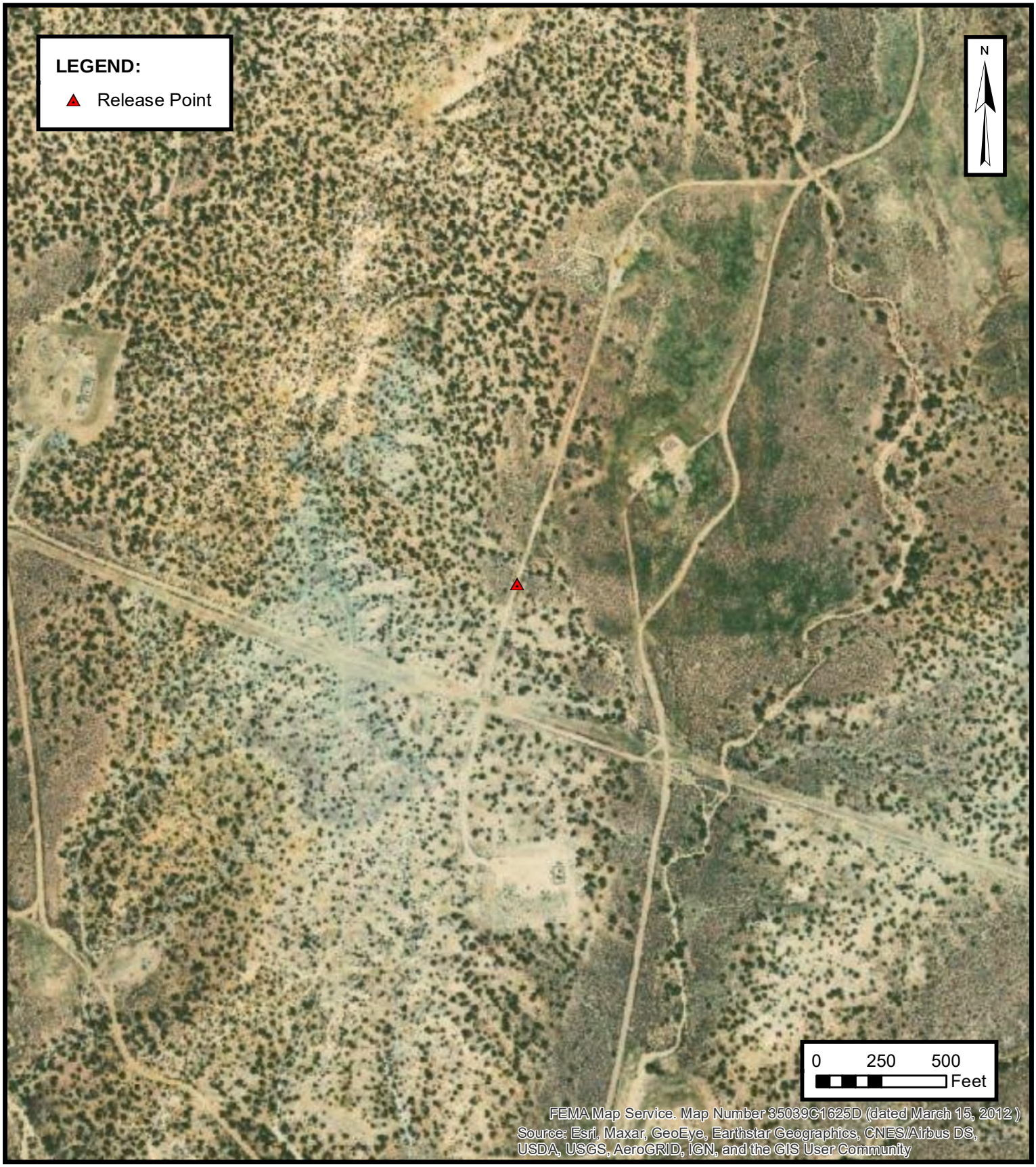
ENSOLUM
Environmental & Hydrogeologic Consultants

TOPOGRAPHIC MAP

ENTERPRISE FIELD SERVICES, LLC
STEWART LS#5 (5/21/21)
Unit Letter M, S20 T30N R10W, San Juan County, New Mexico
36.79111° N, 107.91407° W

PROJECT NUMBER: 05A1226148

FIGURE
1



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Environmental & Hydrogeologic Consultants

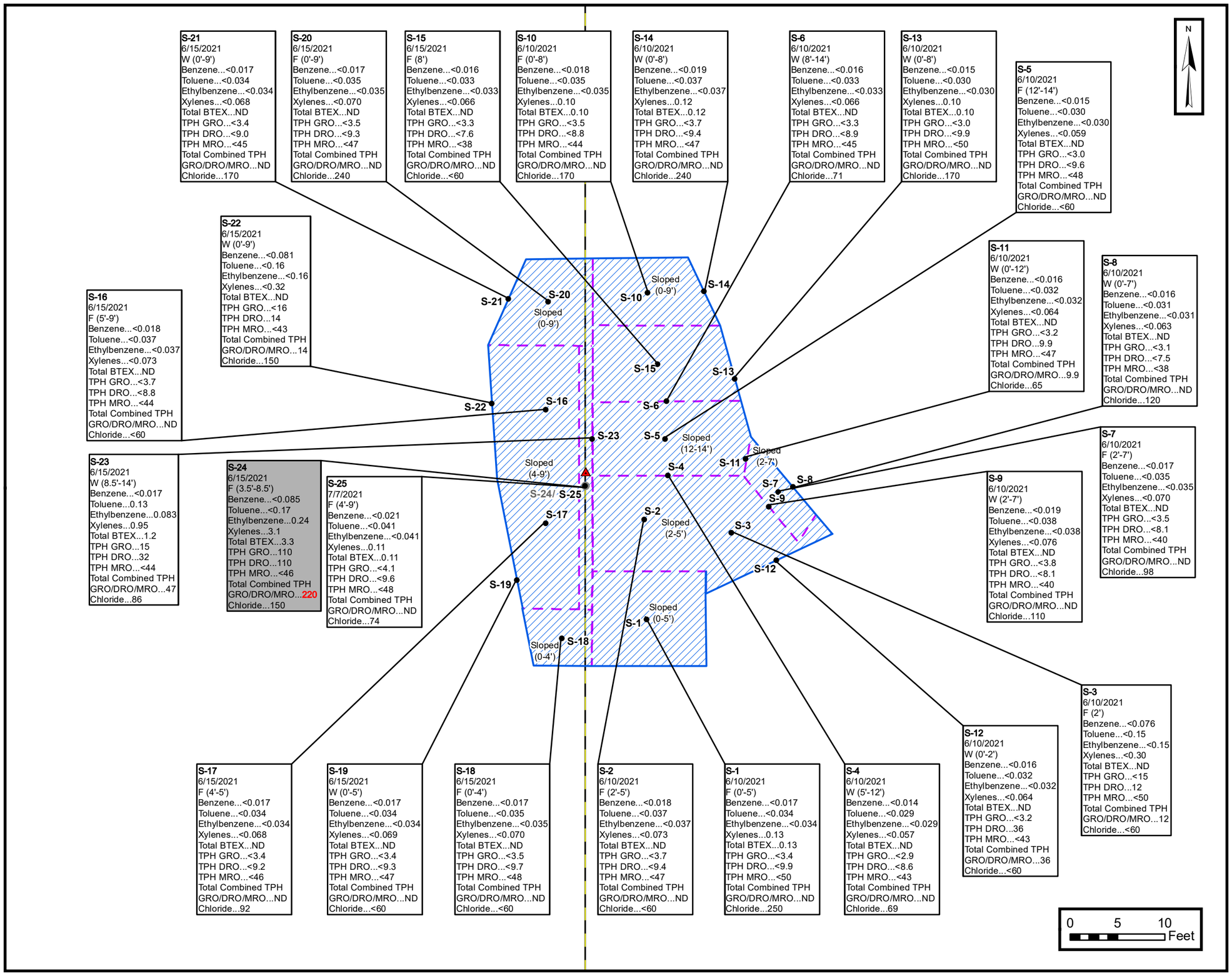
SITE VICINITY MAP

ENTERPRISE FIELD SERVICES, LLC
STEWART LS#5 (5/21/21)
Unit Letter M, S20 T30N R10W, San Juan County, New Mexico
36.79111° N, 107.91407° W

PROJECT NUMBER: 05A1226148

FIGURE

2



LEGEND:

- Release Point
- Composite Soil Sample Location
- Composite Soil Sample Location Removed by Excavation
- Extent of Excavation
- Internal Excavation Wall or Sloped Area Boundary
- Approximate Stewart LS#5 Pipeline Location

NOTES:

All Concentrations Are Listed in mg/Kg.

All Depths Are Listed in Feet BGS.

W - Wall Sample

F - Floor Sample

Analytical Callouts in Gray Denote Sampling Location Removed by Excavation.

Concentrations in **Red** Exceed the Applicable NM EMNRD OCD Closure Criteria.

ENSOLUM
Environmental & Hydrogeologic Consultants

SITE MAP

ENTERPRISE FIELD SERVICES, LLC
STEWART LS#5 (5/21/21)

Unit Letter M, S20 T30N R10W
San Juan County, New Mexico
36.79111° N, 107.91407° W

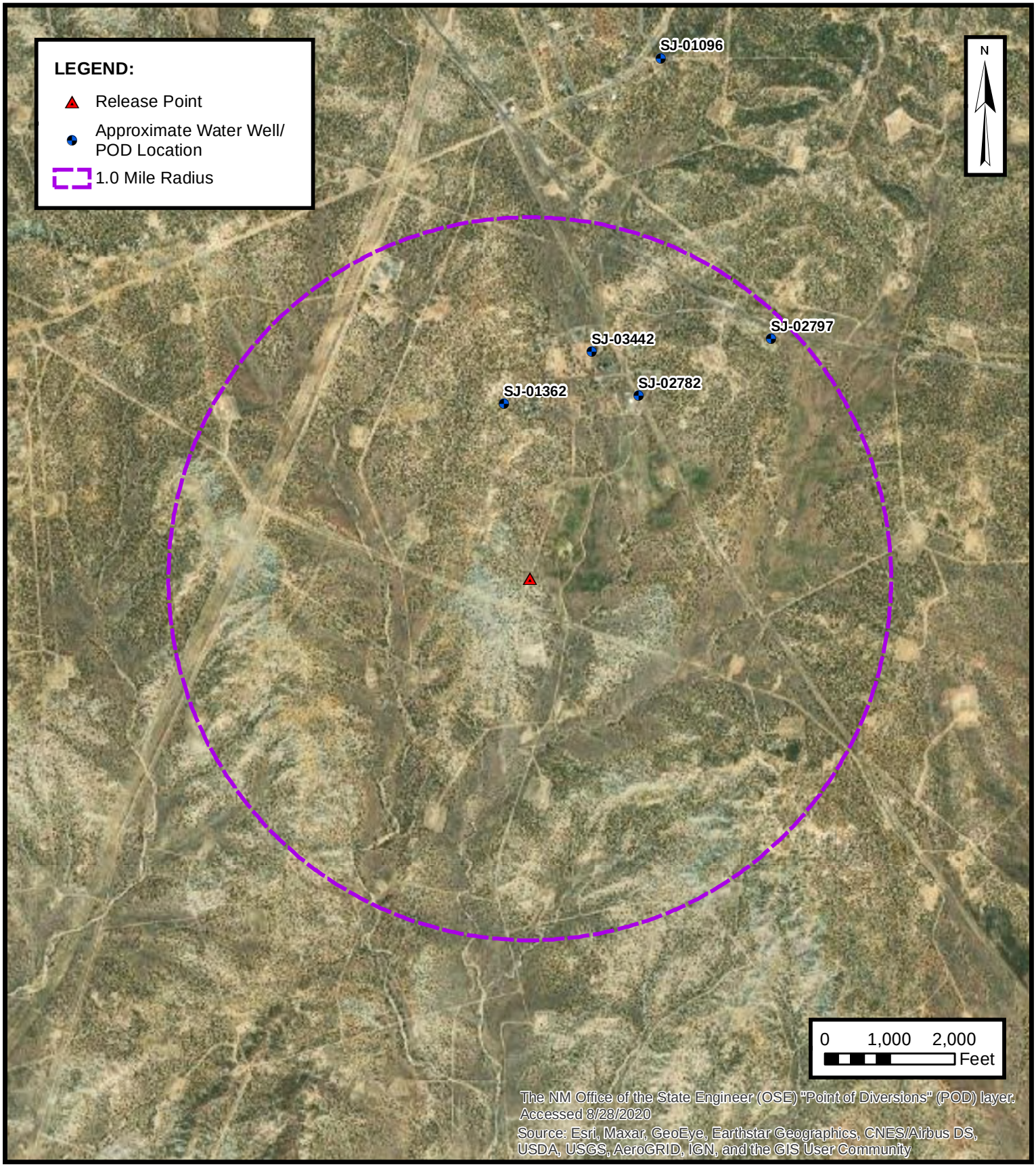
FIGURE
3

PROJECT NUMBER: 05A1226148

ENSOLUM

APPENDIX B

Siting Figures and Documentation



ENSOLUM
Environmental & Hydrogeologic Consultants

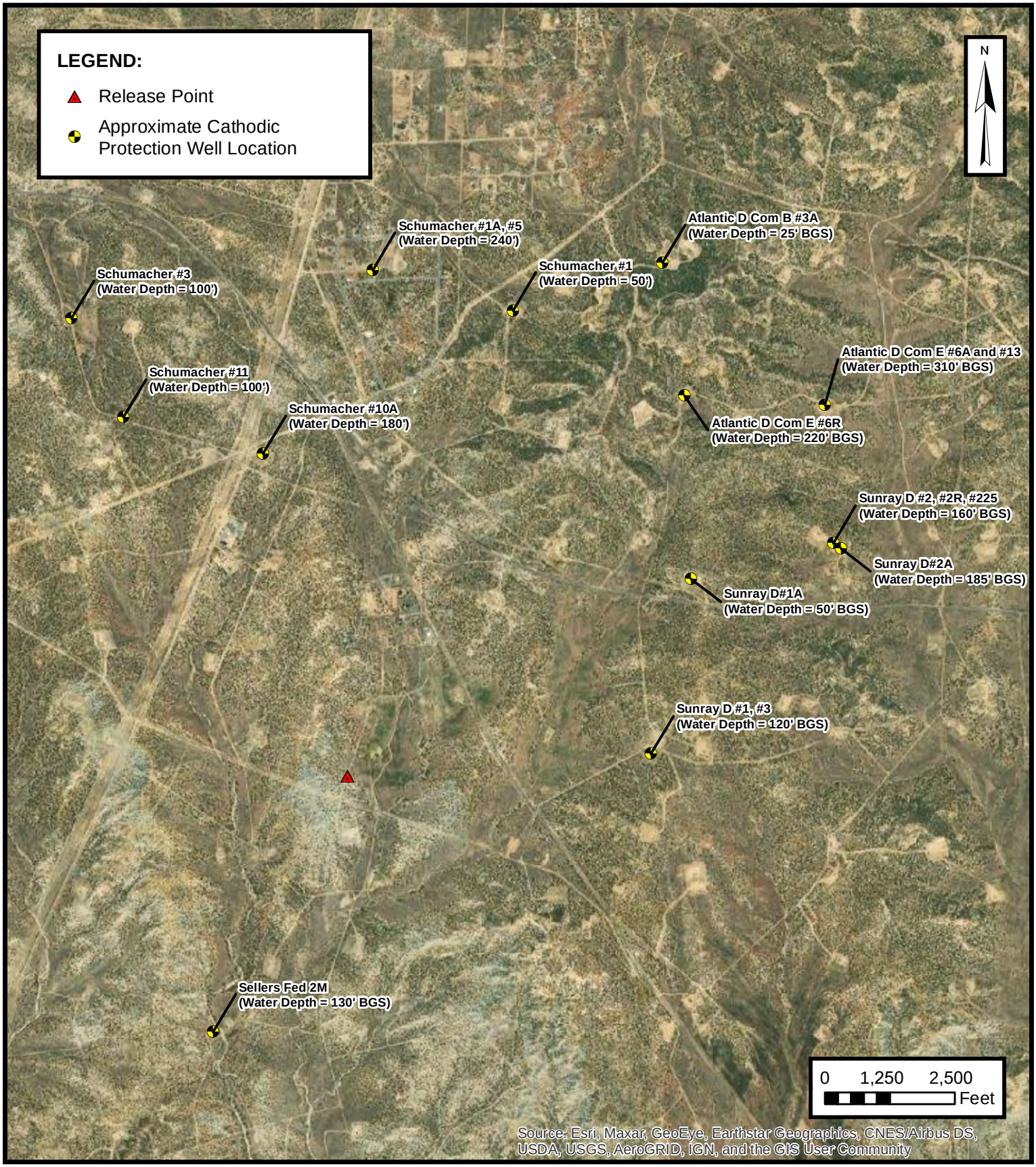
1.0 MILE RADIUS WATER WELL/ POD LOCATION MAP

ENTERPRISE FIELD SERVICES, LLC
STEWART LS#5 (5/21/21)
Unit Letter M, S20 T30N R10W, San Juan County, New Mexico
36.79111° N, 107.91407° W

PROJECT NUMBER: 05A1226148

FIGURE

A



ENSOLUM
Environmental & Hydrogeologic Consultants

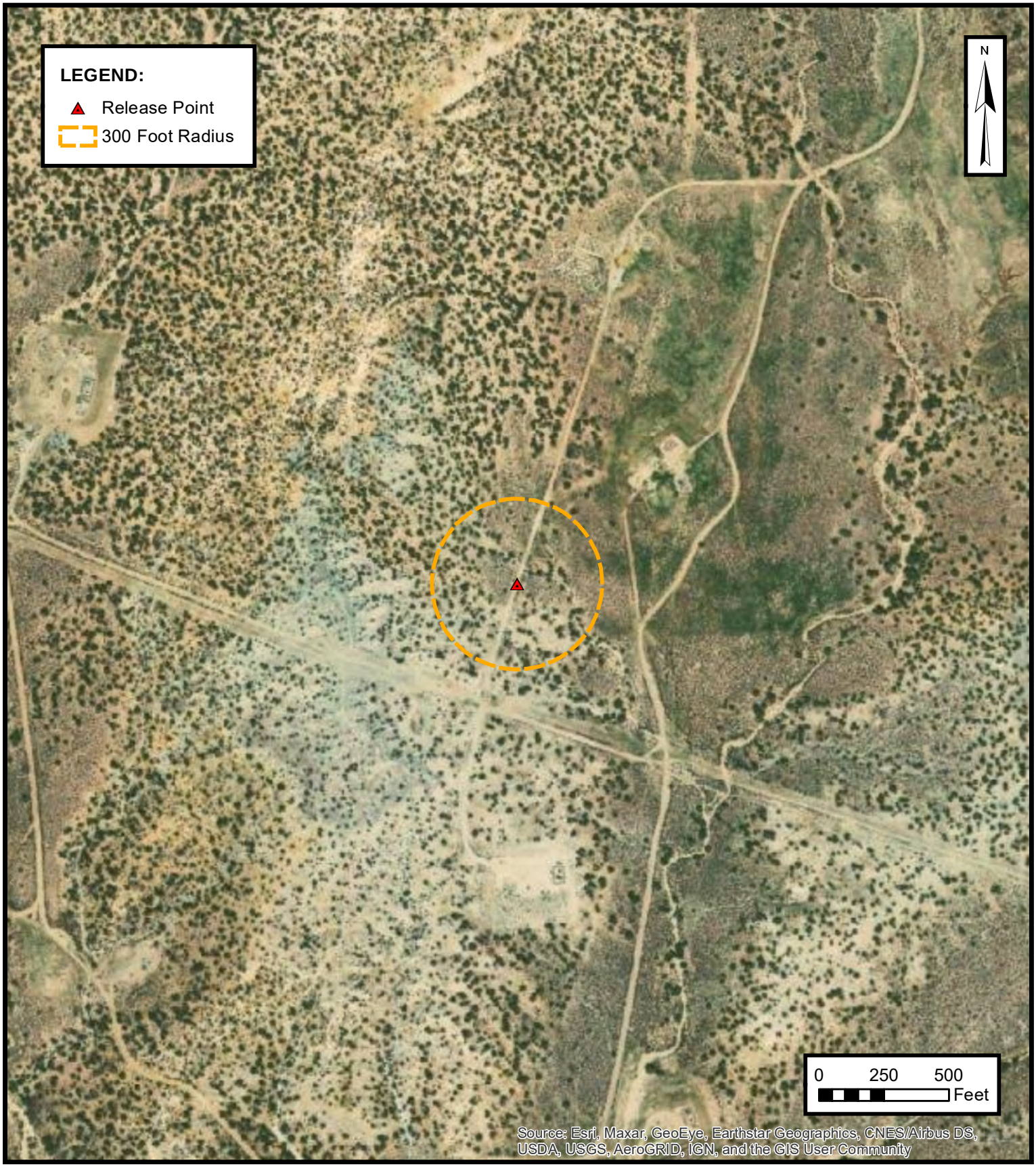
CATHODIC PROTECTION WELL RECORDED DEPTH TO WATER

ENTERPRISE FIELD SERVICES, LLC
STEWART LS#5 (5/21/21)
Unit Letter M, S20 T30N R10W, San Juan County, New Mexico
36.79111° N, 107.91407° W

PROJECT NUMBER: 05A1226148

FIGURE

B

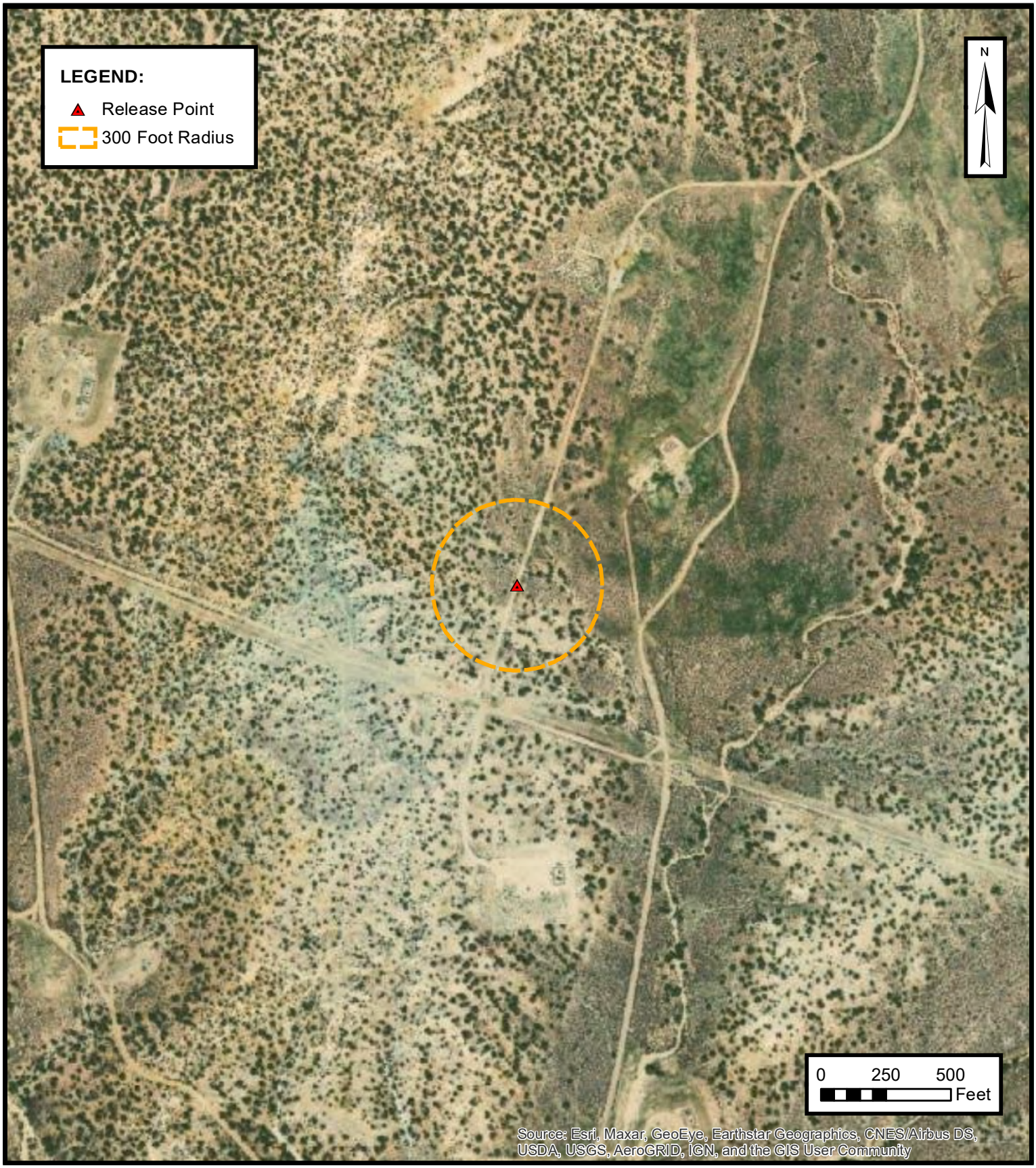


ENSOLUM
Environmental & Hydrogeologic Consultants

300 FOOT RADIUS
WATERCOURSE AND DRAINAGE IDENTIFICATION
ENTERPRISE FIELD SERVICES, LLC
STEWART LS#5 (5/21/21)
Unit Letter M, S20 T30N R10W, San Juan County, New Mexico
36.79111° N, 107.91407° W

PROJECT NUMBER: 05A1226148

FIGURE
C

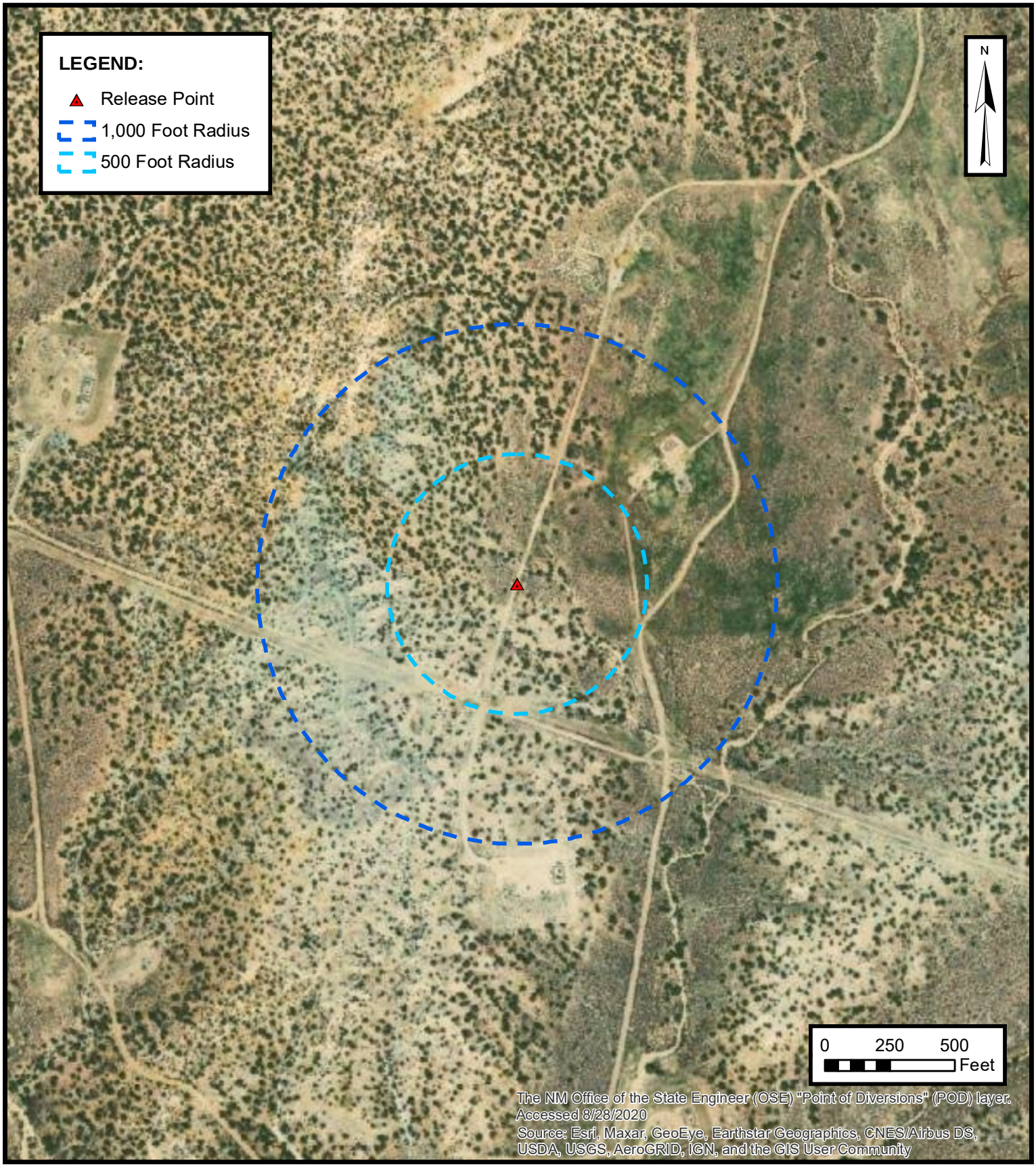


ENSOLUM
Environmental & Hydrogeologic Consultants

300 FOOT RADIUS
OCCUPIED STRUCTURE IDENTIFICATION
ENTERPRISE FIELD SERVICES, LLC
STEWART LS#5 (5/21/21)
Unit Letter M, S20 T30N R10W, San Juan County, New Mexico
36.79111° N, 107.91407° W

PROJECT NUMBER: 05A1226148

FIGURE
D



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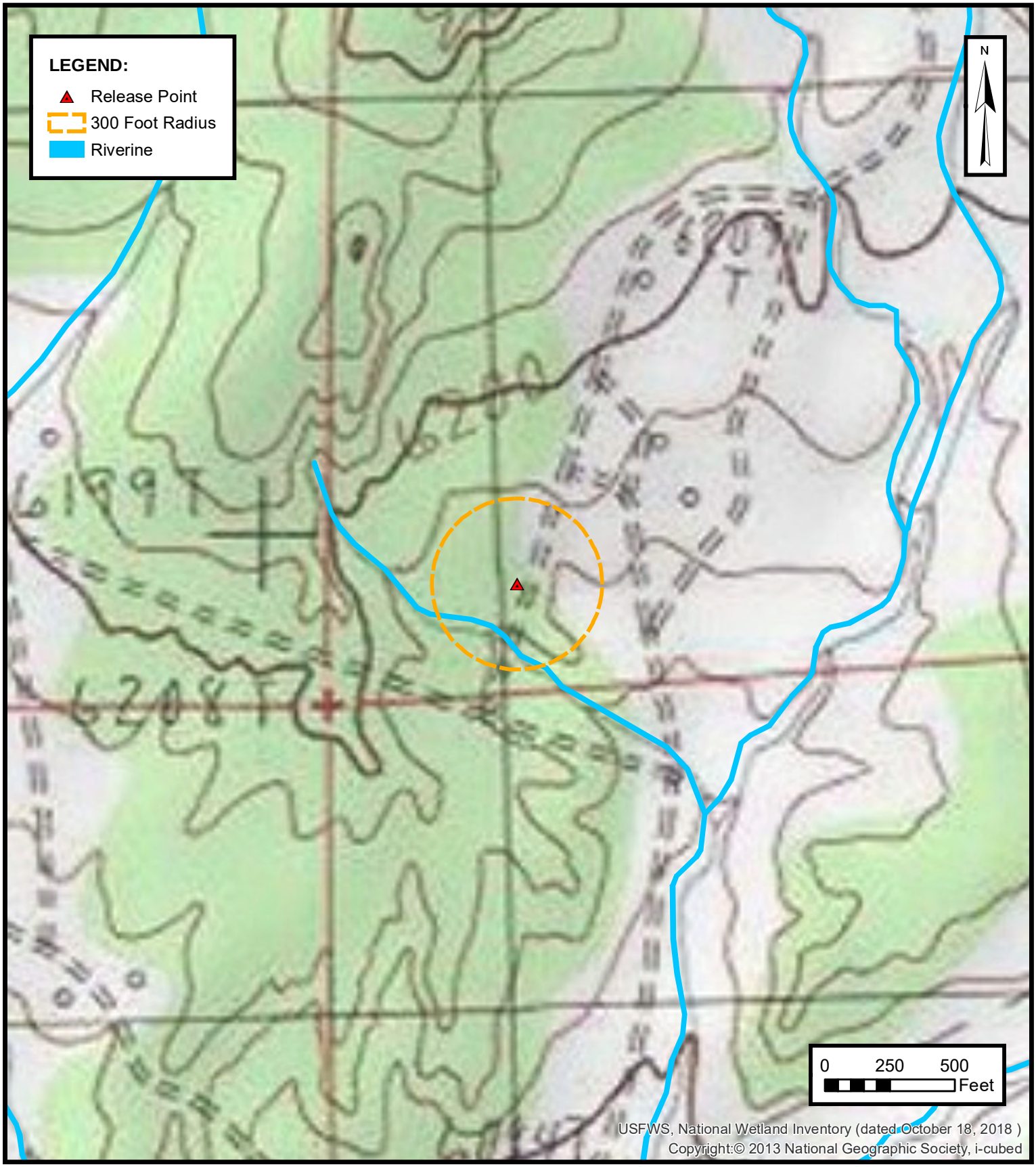
WATER WELL AND NATURAL SPRING LOCATION

ENTERPRISE FIELD SERVICES, LLC
STEWART LS#5 (5/21/21)
Unit Letter M, S20 T30N R10W, San Juan County, New Mexico
36.79111° N, 107.91407° W

PROJECT NUMBER: 05A1226148

FIGURE
E



ENSOLUM
Environmental & Hydrogeologic Consultants

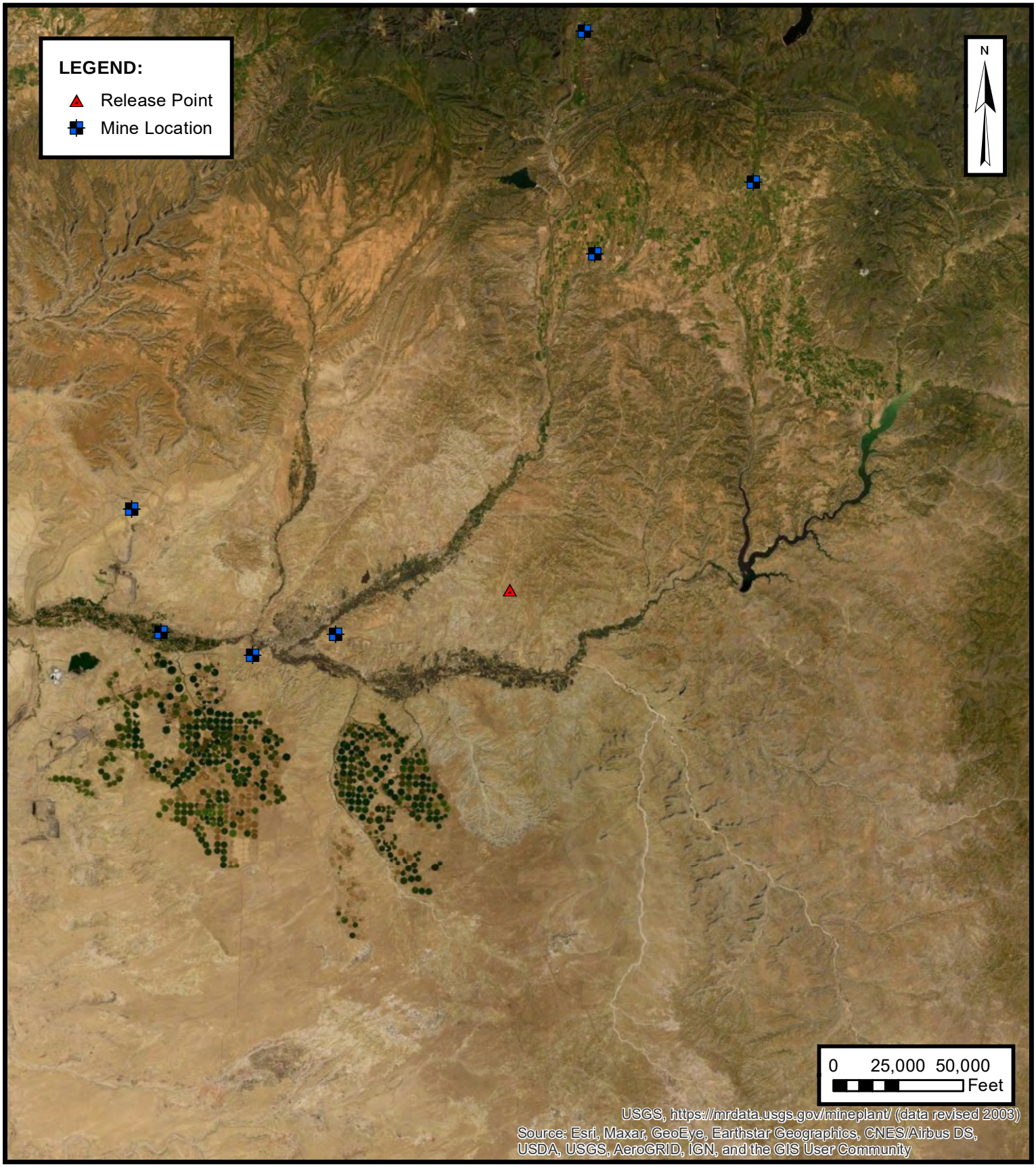
WETLANDS

ENTERPRISE FIELD SERVICES, LLC
STEWART LS#5 (5/21/21)
Unit Letter M, S20 T30N R10W, San Juan County, New Mexico
36.79111° N, 107.91407° W

PROJECT NUMBER: 05A1226148

FIGURE

F



ENSOLUM
Environmental & Hydrogeologic Consultants

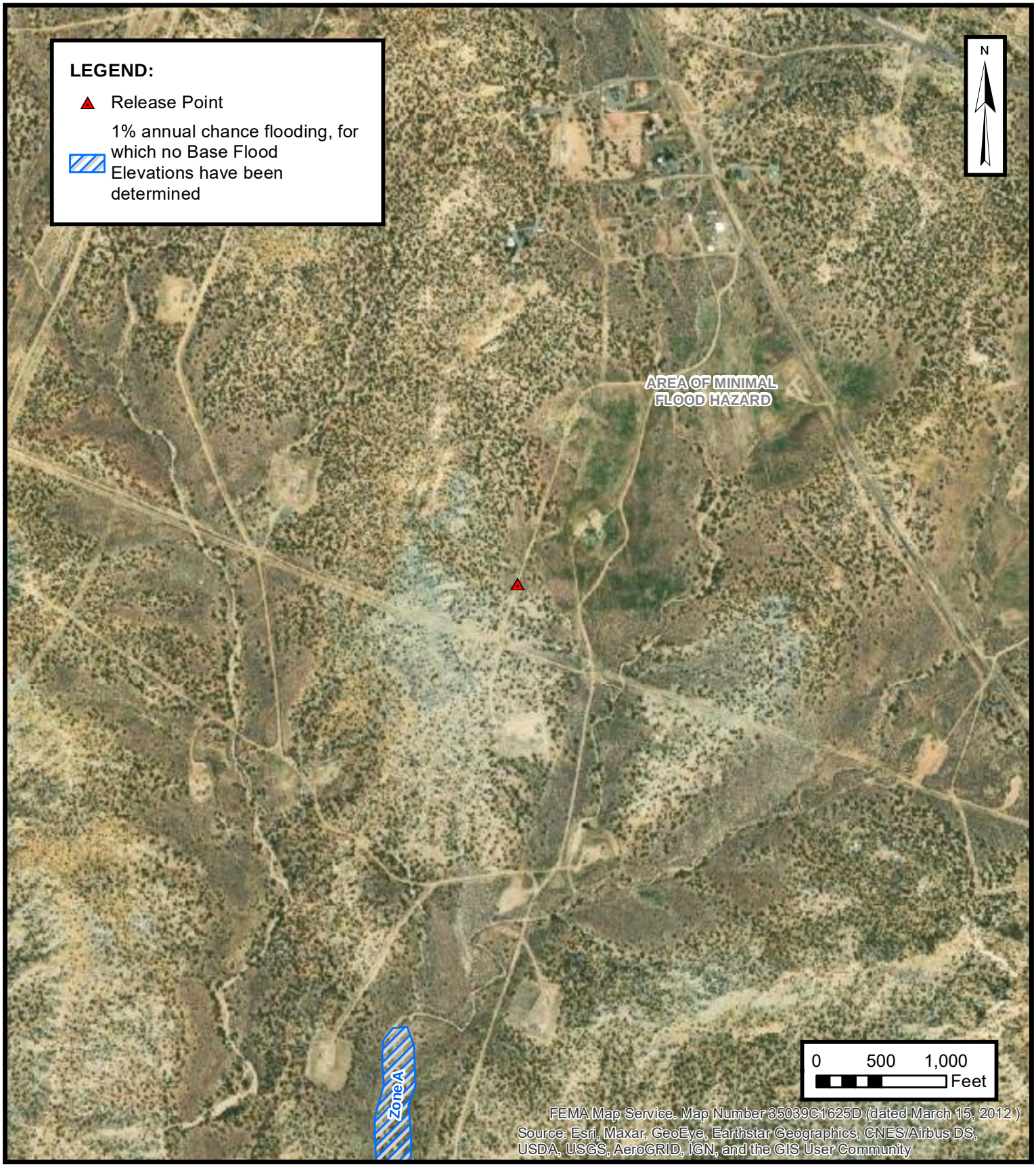
MINES, MILLS AND QUARRIES

ENTERPRISE FIELD SERVICES, LLC
STEWART LS#5 (5/21/21)
Unit Letter M, S20 T30N R10W, San Juan County, New Mexico
36.79111° N, 107.91407° W

PROJECT NUMBER: 05A1226148

FIGURE

G



ENSOLUM
Environmental & Hydrogeologic Consultants

100-YEAR FLOOD PLAIN MAP

ENTERPRISE FIELD SERVICES, LLC
STEWART LS#5 (5/21/21)
Unit Letter M, S20 T30N R10W, San Juan County, New Mexico
36.79111° N, 107.91407° W

PROJECT NUMBER: 05A1226148

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-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
SJ 01362	SJ	SJ	3	3	1	20	30N	10W	239888	4076436*	238	190	48
SJ 02782	SJ	SJ	4	4	1	20	30N	10W	240482	4076452*	250		
SJ 02797	SJ	SJ	1	4	2	20	30N	10W	241073	4076685*	70		
SJ 03442	SJ	SJ	1	4	1	20	30N	10W	240282	4076652*	200		
SJ 04454 POD1	SJAR	SJ	2	4	1	20	30N	10W	240502	4076648	100		

Average Depth to Water: **190 feet**

Minimum Depth: **190 feet**

Maximum Depth: **190 feet**

Record Count: 5

PLSS Search:

Section(s): 29, 30, 19, 20, 21, 16, 17, 18, 28 **Township:** 30N **Range:** 10W

***UTM location was derived from PLSS - see Help**

New Mexico Office of the State Engineer
Transaction Summary

72121 All Applications Under Statute 72-12-1

Transaction Number: 154734 **Transaction Desc:** SJ 02782 **File Date:** 03/05/1997

Primary Status: PMT Permit
Secondary Status: APR Approved
Person Assigned: *******
Applicant: RUSSELL L. CLELLAND II

Events

	Date	Type	Description	Comment	Processed By
get images	03/05/1997	APP	Application Received	*	*******
	03/05/1997	FIN	Final Action on application		*******
	03/05/1997	WAP	General Approval Letter		*******
	01/24/2003	ARV	Rec & Arch - file location	SJ 02782 Box: 116	*******

Change To:

WR File Nbr	Acres	Diversion	Consumptive	Purpose of Use
SJ 02782		3		DOM 72-12-1 DOMESTIC ONE HOUSEHOLD

****Point of Diversion**

SJ 02782		240482	4076452*

***An (*) after northing value indicates UTM location was derived from PLSS - see Help**

Remarks

HWY 575 #470.

Conditions

1A Depth of the well shall not exceed the thickness of the valley fill.

4 Use shall be limited to household, non-commercial trees, lawn and garden not to exceed one acre and/or stock use.

Action of the State Engineer

Please refer to conditions E & F on the reverse side of this permit.

**** See Image For Any Additional Conditions of Approval ****

Approval Code: A - Approved
Action Date: 03/05/1997
Log Due Date: 02/15/1998
State Engineer: Thomas C. Turney

SJ-02940 S

154734

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-2782

Russell L. Clelland II
P.O. Box 2294
Kirtland NM 87417

Hwy 575 #470

(phone) 327-6278

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

a. SW ¼ SE ¼ NW ¼ of Sec. 20 Twp. 30 Rge. 10 W NMPM, in SAN JUAN County.

b. X = _____ feet, Y = _____ feet, New Mexico Coordinate System _____ Zone in the _____ Grant.

3. Approximate depth (if known) 250' feet; outside diameter of casing 7 inches.

Name of driller (if known) Savage Drilling

4. Use of water (check use applied for):

X 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.

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

'97 MAR 5 PM 1 34
STATE ENGINEER OFFICE
AZTEC, NEW MEXICO

5. Remarks: _____

I, Russell L. Clelland II, 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.

Russell L. Clelland II, Applicant

By: _____ Date: 2-25-97

ACTION OF STATE ENGINEER

This application is approved for the use indicated, subject to all general conditions and to specific conditions numbered 1(a) E 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 February 15, 1998.

Thomas C. Turner State Engineer

By: Robert E Orford

Date: 3-5-97

Please refer to Conditions E & F on the reverse side of this permit

File No. SJ-2782

GENERAL CONDITIONS OF APPROVAL

A. The maximum amount of water that may be appropriated under this permit is 3 acre-feet in any year.
B. The well shall be drilled by a driller licensed in the State of New Mexico in accordance with Section 72-12-12 New Mexico Statutes Annotated. A licensed driller shall not be required for the construction of a driven well; provided, that the casing shall not exceed two and three-eights (2 3/8) inches outside diameter (Section 72-12-12).
C. Driller's well record must be filed with the State Engineer within 10 days after the well is drilled or driven. Failure to file the well record within that time shall result in automatic cancellation of the permit. Well record forms will be provided by the State Engineer upon request.
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 or livestock in a commercial feed lot operation, or for drinking and sanitation purposes in conjunction with a commercial operation, the permittee shall comply with Specific Conditions of Approval number 5(b).
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 in any year.
G. If artesian water is encountered, all rules and regulations pertaining to the drilling and casing of artesian wells shall be complied with.

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) 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; pumping records shall be submitted to the District Supervisor: (a) for each calendar month, on or before the 10th day of the following month (b) on or before the 10th of January, April, July and October of each year for the three preceding calendar months (c) for each calendar year on or before the 10th day of January of the following year.
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, 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.
9. No water shall be used from this well unless and until a permit has been issued to an applicant who intends to use the water for any of the purposes described in § 72-12-1.

INSTRUCTIONS

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

The application shall be filed in triplicate and forwarded with a $5.00 filing fee to the State Engineer.

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

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

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

Bluewater, Estancia, Rio Grande, Sandia, Gallup and San Juan Basins
District No. 1, 3311 Candelaria, NE, Suite A, Albuquerque, NM 87107

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

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

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

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

1-15. LICATIONS NOT REQUIRING UBLICATION OF NOTICE. Section 72-12-1, N.M.S.A. 1978, excepts applications for permits to drill wells and use the ground waters within declared underground water basins, for those purposes set forth in Article 1-15.3, from the requirement of publication of notice and the State Engineer's determination whether the exercise of the permit will impair existing water rights and for those purposes set forth in Article 1-15.6 the application is accepted from publication of notice, if, after making an examination of the facts, the State Engineer finds that the proposed use will not permanently impair any existing water right. Applications to drill wells under this Article shall be prepared and filed in triplicate on forms provided by the State Engine . Compliance with the provisions of Article 4 of these regulations is required in the completion of such wells.

1-15.1. QUALIFIED APPLICANT. The applicant must be the person, firm or corporation intending to divert and use the water appropriated from the well. The applicant may be the owner of rental units constructed on land owned by the applicant.

1-15.2. AMOUNT OF WATER. The amount of water diverted under a permit issued pursuant to Section 72-12-1 shall not exceed three acre feet (977,554 gallons) per annum. No more than a total of one acre of non commercial trees, lawn or garden shall be irrigated from the well or, when irrigation is combined with exposed water surface areas such as ponds, swimming pools and sewage lagoons, the total consumptive use shall not exceed the consumptive use of water that would result from the irrigation of one acre of non commercial trees, lawn or garden.

1-15.3. PURPOSE OF USE. Permits may be granted in an amount not to exceed three acre feet per annum for the following uses under paragraph two of Section 72-12-1:

a. household and other domestic use for one or more residences;

b. rental units constructed on land owned by the applicant;

c. drinking and sanitary purposes and the irrigation of noncommercial trees, shrubs and lawn that are incidental to a commercial enterprise, such as a motel, restaurant, trailer park or service station; provided that water diverted from the well may not be used for any commercial purpose, such as a car wash, greenhouse, laundry, concrete batching or the manufacture of a product;

d. livestock water.

1-15.4. MULTIPLE RESIDENTIAL USE. If more than one residence receives water from a well permitted for the purpose of use in Article 1-15.3 (a) or (b), the total amount of water diverted and the total amount of water consumptively used from the well are limited by Article 1-15.2 and the well is subject to the metering requirement of Article 1-15.7.

1-15.5. WELLS TO BE DRILLED FOR BUILDINGS OR DWELLING UNITS CONSTRUCTED FOR SALE. Any person, firm or corporation intending to construct and sell a building or dwelling unit may apply for a conditional permit from the State Engineer to drill and test a well intended to be used for domestic, drinking, sanitary and stock watering purposes in conjunction with the building or dwelling unit; provided that no water shall be used from the well unless and until a permit has been issued to an applicant who intends to use the water for any of the purposes set forth in

1-15.6. USES FOR PERIODS NOT TO EXCEED ONE YEAR--AMOUNT. Permits may be granted in an amount not to exceed three acre-feet of water for a definite period not to exceed one year for the following uses under paragraph three of Section 72-12-1 if the State Engineer finds that the proposed use will not permanently impair any existing water right:

a. prospecting;
b. mining;
c. construction of public works;
d. construction of highways and roads;
e. drilling operations designed to discover or develop the natural mineral resources.

1-15.6.1. One permit may be granted in any year to the same applicant for each proposed use set forth above.

1-15.6.2. More than one applicant may take water from a well for each proposed use set forth above.

1-15.6.3. An applicant may apply in successive years for a new one-year duration permit in an existing well or a new well for each proposed use set forth above.

1-15.6.4. Applications to appropriate water will not be granted in declared underground water basins that are stream related, if the State Engineer finds that the appropriation will take 0.1 acre-feet (approximately 30,000 gallons) or more from a fully appropriated stream within the year the permit may be exercised.

1-15.6.5. Subsequent applications to appropriate water from the same well will not be granted if the State Engineer finds that the accumulated effects of the proposed appropriation and prior appropriations will take 0.25 acre-feet (approximately 81,500 gallons) or more from a stream within the year of the proposed appropriation.

1-15.7. PERMITS REQUIRING INSTALLATION OF A METER. All permits issued for uses of water under Article 1-15.3, except for a single household and stock watering in a grazing operation, shall be metered. If two or more wells are connected to the same distribution system, all water diverted from the wells shall be metered with one or more meters and the total diversion from all wells combined shall be limited to three acre-feet per annum. All wells permitted under Article 1-15.6 shall be metered and the total diversion of water under each permit shall be limited to three acre-feet.

1-15.8. LIMITATIONS UNDER COURT DECREES. The amount and uses of water permitted under Article 1-15 are subject to such limitations as may be imposed by the courts.

1-16. RETENTION OF OLD WELL FOR DOMESTIC USE--REQUIREMENTS. If water rights have been transferred from a well but the owner thereof desires to retain the well for the purposes of Article 1-15, an application must be filed as required by that article. Prior to approval, the State Engineer shall determine whether the subject well can be retained in use without causing waste.

1-17. APPLICATIONS FOR POLLUTION PLUME CONTROL WELLS AND POLLUTION RECOVERY WELLS.

STATE ENGINEER OFFICE/INTERSTATE STREAM COMMISSION - AZTEC

OFFICIAL RECEIPT NUMBER 5-00440 DATE 3-5-97 FILE NO. SJ-2782

TOTAL RECEIVED: $ 5.00 RECEIVED: Five dollars & 00/00---------- DOLLARS CHECK NO ____ CASH: X

FROM: Russell Clelland II BANK NAME: ____

RECEIVED BY: (Signature) Robert E. Oglesby (TITLE) WRES I

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
1	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 (VAR)
____	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:

____

____

____

____

____

____

____

____

____

____

STATE OF NEW MEXICO

STATE ENGINEER OFFICE

AZTEC

THOMAS C. TURNEY
STATE ENGINEER

100 S. OLIVER, SUITE 100
AZTEC, NEW MEXICO 87410
334-9481

March 16, 1998

File: SJ-2782

Russell L. Clelland II
P.O. Box 2294
Kirtland, NM 87417

Greetings:

This office has not received a well driller's record for the permit issued on March 5, 1997.

As you know, this permit expires one year after issuance if the well has not been drilled and the well driller's log is not filed.

This office needs the well record to complete our records and add to our knowledge of ground water conditions. You need the well record filed to protect your use of water from the well.

If the well has been drilled under this permit, please contact your driller and request a well log be submitted. If you have not drilled the well, but plan to in the near future, please contact our office and we will forward the forms for renewal. Filing fee is $5.00 for each permit. Please include your file number in all communications.

Your permit automatically expired on February 15, 1998.

Sincerely yours,

Thomas C. Turney
State Engineer

By: Robert E. Oxford
Robert E. Oxford
Aztec Office
Water Rights Division

cc: Aztec Reading
Aztec File
S.F. Groundwater Reading
S.F. San Juan File ✓

New Mexico Office of the State Engineer
Transaction Summary

72121 All Applications Under Statute 72-12-1

Transaction Number: 154805 **Transaction Desc:** SJ 02797 **File Date:** 04/24/1997

Primary Status: PMT Permit
Secondary Status: APR Approved
Person Assigned: *******
Applicant: LON B. & KAREN JUDD

Events

	Date	Type	Description	Comment	Processed By
get images	04/24/1997	APP	Application Received	*	*******
	04/25/1997	FIN	Final Action on application		*******
	04/25/1997	WAP	General Approval Letter		*******
	01/24/2003	ARV	Rec & Arch - file location	SJ 02797 Box: 116	*******

Change To:

WR File Nbr	Acres	Diversion	Consumptive	Purpose of Use
SJ 02797		3		DOM 72-12-1 DOMESTIC ONE HOUSEHOLD
Point of Diversion				
SJ 02797		240282	4076652*	

***An (*) after northing value indicates UTM location was derived from PLSS - see Help**

Conditions

1A Depth of the well shall not exceed the thickness of the valley fill.

4 Use shall be limited to household, non-commercial trees, lawn and garden not to exceed one acre and/or stock use.

Action of the State Engineer

**** See Image For Any Additional Conditions of Approval ****

Approval Code: A - Approved
Action Date: 04/25/1997
Log Due Date: 04/15/1998
State Engineer: Thomas C. Turney

New Mexico Office of the State Engineer
Transaction Summary

72121 All Applications Under Statute 72-12-1

Transaction Number: 270644 **Transaction Desc:** SJ 02797 **File Date:** 05/02/2003

Primary Status: PMT Permit
Secondary Status: APR Approved
Person Assigned: *******
Applicant: LON JUDD

Events

	Date	Type	Description	Comment	Processed By
get images	05/02/2003	APP	Application Received	*	*******
	05/02/2003	FIN	Final Action on application		*******
	05/02/2003	WAP	General Approval Letter		*******
	06/08/2009	ARV	Rec & Arch - file location	SJ 02797 Box: 1120	*******

Change To:

WR File Nbr	Acres	Diversion	Consumptive	Purpose of Use
SJ 02797		3		DOM 72-12-1 DOMESTIC ONE HOUSEHOLD

****Point of Diversion**

SJ 02797		241073	4076685*

***An (*) after northing value indicates UTM location was derived from PLSS - see Help**

Remarks

RENEWAL OF PERMIT.

Conditions

1A Depth of the well shall not exceed the thickness of the valley fill.

4 Use shall be limited to household, non-commercial trees, lawn and garden not to exceed one acre and/or stock use.

Action of the State Engineer

**** See Image For Any Additional Conditions of Approval ****

Approval Code: A - Approved
Action Date: 05/02/2003
Log Due Date: 05/02/2004
State Engineer: John R. D Antonio,

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-2797

Lon B. Judd - Karen Judd
#48. C. Rd. 3950
Farmington NM. 87401

327-1305

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

a. NW ¼ SE ¼ NW ¼ of Sec. 20 Twp. 30N Rge. 10W NMPM, in SAN JUAN County.

b. X = N/A feet, Y = _____ feet, New Mexico Coordinate System _____ Zone in the _____ Grant.

3. Approximate depth (if known) 70'± feet; outside diameter of casing 4" or 6" inches.

Name of driller (if known) _____

4. Use of water (check use applied for):

X One household, non-commercial trees, lawn and garden not to exceed one acre.

X 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.

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

5. Remarks: _____

'97 APR 24 PM 1 34
STATE ENGINEER OFFICE
AZTEC, NEW MEXICO

I, Lon Judd, Karen Judd 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.

_____, Applicant

By: _____ Date: 4/24/97

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 April 15, 1998.

Thomas C. Turney, State Engineer

By: Bill Enenbach
Bill Enenbach

Date: April 25, 1997

File No. SJ-2797

H. The amount and uses of water permitted under this Application are subject to such limitations as may be imposed by the courts or by lawful municipal and county ordinances which are more restrictive than applicable State Engineer Regulations and the conditions of this permit.

GENERAL CONDITIONS OF APPROVAL

A. The maximum amount of water that may be appropriated under this permit is 3 acre-feet in any year.
B. The well shall be drilled by a driller licensed in the State of New Mexico in accordance with Section 72-12-12 New Mexico Statutes Annotated. A licensed driller shall not be required for the construction of a driven well; provided, that the casing shall not exceed two and three-eights (2 3/8) inches outside diameter (Section 72-12-12).
C. Driller's well record must be filed with the State Engineer within 10 days after the well is drilled or driven. Failure to file the well record within that time shall result in automatic cancellation of the permit. Well record forms will be provided by the State Engineer upon request.
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 or livestock in a commercial feed lot operation, or for drinking and sanitation purposes in conjunction with a commercial operation, the permittee shall comply with Specific Conditions of Approval number 5(b).
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 in any year.
G. If artesian water is encountered, all rules and regulations pertaining to the drilling and casing of artesian wells shall be complied with.

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) 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; pumping records shall be submitted to the District Supervisor: (a) for each calendar month, on or before the 10th day of the following month (b) on or before the 10th of January, April, July and October of each year for the three preceding calendar months (c) for each calendar year on or before the 10th day of January of the following year.
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, 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.
9. No water shall be used from this well unless and until a permit has been issued to an applicant who intends to use the water for any of the purposes described in § 72-12-1.

INSTRUCTIONS

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

The application shall be filed in triplicate and forwarded with a $5.00 filing fee to the State Engineer.

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

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

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

Bluewater, Estancia, Rio Grande, Sandia, Gallup and San Juan Basins
District No. 1, ~~3311 Candelaria, NE, Suite A, Albuquerque, NM 87107~~ 100 S. Oliver Drive, Aztec, NM 87410

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

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

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

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

STATE OF NEW MEXICO

STATE ENGINEER OFFICE

AZTEC

THOMAS C. TURNEY
STATE ENGINEER

100 S. OLIVER, SUITE 100
AZTEC, NEW MEXICO 87410
334-9481

July 29, 1998

File: SJ-2797

Lon B. & Karen Judd
#48 CR 3950
Farmington, NM 87401

Greetings:

This office has not received a well driller's record for the permit issued on April 25, 1997.

As you know, this permit expires one year after issuance if the well has not been drilled and the well driller's log is not filed.

This office needs the well record to complete our records and add to our knowledge of ground water conditions. You need the well record filed to protect your use of water from the well.

If the well has been drilled under this permit, please contact your driller and request a well log be submitted. If you have not drilled the well, but plan to in the near future, please contact our office and we will forward the forms for renewal. Filing fee is $5.00 for each permit. Please include your file number in all communications.

Your permit automatically expired on April 15, 1998.

Sincerely yours,

Thomas C. Turney
State Engineer

By: Robert E Oxford
Robert E. Oxford
Aztec Office
Water Rights Division

cc: Aztec Reading
Aztec File
S.F. Groundwater Reading
S.F. San Juan File

STATE ENGINEER OFFICE/INTERSTATE STREAM COMMISSION - AZTEC

OFFICIAL RECEIPT NUMBER 5-00481 DATE 4-24-97 FILE NO. 2797

TOTAL RECEIVED: $ 5.00 RECEIVED: five DOLLARS CHECK NO 3464 CASH: ☐

FROM: Lon Judd BANK NAME: Animas Credit Union

RECEIVED BY: (Signature) Bill Isenbeck (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
X	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 (VAR)
____	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:

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

trn. 270644

HCS-2009
$500

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-2797

Lon Judd

711 NM Highway 575

Aztec, NM 87410

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

a. NW ¼ SE ¼ NE ¼ of Sec. 20 Twp. 30N Rge. 10W NMPM, in San Juan County.

b. X = _____ feet, Y = _____ feet, New Mexico Coordinate System _____ Zone in the _____ Grant.

3. Approximate depth (if known) 70 feet; outside diameter of casing 4 inches.

Name of driller (if known) Envirotech

4. Use of water (check use applied for):

X 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.

If any of the last three items were marked, give name and natu of business under Remarks (Item 5).

5. Remarks: Renewal of permit. Lot A-3, Byers Subdivision.

'03 MAY 2 PM 3 08

I, Lon Judd, 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.

_____, Applicant

By: _____ Date: May 2, 2003

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 May 2, 2004.

JOHN R. D'ANTONIO, JR., P.E., STATE ENGINEER

By: _____
J. Hubbard

Date: May 2, 2003 File No. SJ-2797

GENERAL CONDITIONS OF APPROVAL

A. The maximum amount of water that may be appropriated under this permit is 3 acre-feet in any year.

B. The well shall be drilled by a driller licensed in the State of New Mexico in accordance with Section 72-12-12 New Mexico Statutes Annotated. A licensed driller shall not be required for the construction of a driven well; provided, that the casing shall not exceed two and three-eights (2 3/8) inches outside diameter (Section 72-12-12).

C. Driller's well record must be filed with the State Engineer within 10 days after the well is drilled or driven. Failure to file the well record within that time shall result in automatic cancellation of the permit. Well record forms will be provided by the State Engineer upon request.

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 or livestock in a commercial feed lot operation, or for drinking and sanitation purposes in conjunction with a commercial operation, the permittee shall comply with Specific Conditions of Approval number 5(b).

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 in any year.

G. If artesian water is encountered, all rules and regulations pertaining to the drilling and casing of artesian wells shall be complied with.

H & I See side margins.

H. The amount and uses of water permitted under this Application are subject to such limitations as may be imposed by the courts or by lawful municipal and county ordinances which are more restrictive than applicable State Engineer Regulations and the conditions of this permit.

I. The permittee shall utilize the highest and best technology available to ensure conservation of water to the maximum extent practical.

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) 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; pumping records shall be submitted to the District Supervisor: (a) for each calendar month, on or before the 10th day of the following month (b) on or before the 10th of January, April, July and October of each year for the three preceding calendar months (c) for each calendar year on or before the 10th day of January of the following year.
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, 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.
9. No water shall be used from this well unless and until a permit has been issued to an applicant who intends to use the water for any of the purposes described in § 72-12-1.

INSTRUCTIONS

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

The application shall be filed in triplicate and forwarded with a $5.00 filing fee to the State Engineer.

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

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

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

Bluewater, Estancia, Rio Grande, Sandia, Gallup and XXXXXX Basins
District No. 1, XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
Office of the State Engineer
121 Tijeras, NE., Suite 2000
Albuquerque, NM 87102-3400

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

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

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

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

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

SUPPLEMENTAL INSTRUCTION

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

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

OFFICIAL RECEIPT NUMBER: 5-2009 DATE: _____ FILE NO.: _____

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 ASD; **yellow** copy to Water Rights, Santa Fe Office, and **goldenrod** copy for district file. If you make a mistake, void original and all copies and submit to ASD along with valid receipts.

A. Ground Water Rights Filing Fees

___	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.	Change of Ownership of Water Right	$ 2.00
___	7.	Application to Appropriate Irrig., Mun., Ind., or Comm. 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 or Purpose of Use	$25.00
___	12.	Application to Change Location of Well and Place and/or Purpose of Use	$50.00
___	13.	Application for Extension of Time	$25.00
___	14.	Certificate and License	$25.00
___	15.	Application for Plan of Replacement	$25.00
___	16.	Application to Change Point of Diversion and Place and/or Purpose of Use from Surface Water to Ground Water	$50.00

B. Surface Water Rights Filing Fees

___	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.	Change of Ownership of Water Right	$ 2.00
___	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 or Amend	$25.00
___	12.	Application to Change Point of Diversion and Place and/or Purpose of Use from Ground Water to Surface Water	$50.00
___	13.	Notice of Intent to Appropriate	$25.00

C. Miscellaneous Fees

___	1.	Application to Construct Flood Control Dam/Review of Plans for Safety of Dams ($10.00 + $2.00 /$1000.00 of estimated construction cost).	(VAR)
___	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

D. Reproduction of Documents

.20¢/copy
$3.00/map $_____

E. Certification $_____

F. Other (Specify-not for filing fees) $_____

Comments:

_____

_____

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_____

_____

_____

_____

New Mexico Office of the State Engineer
Transaction Summary

72121 All Applications Under Statute 72-12-1

Transaction Number: 292796 **Transaction Desc:** SJ 03442 **File Date:** 12/30/2003

Primary Status: PMT Permit
Secondary Status: APR Approved
Person Assigned: *******
Applicant: JOAQUIN TALAMANTE

Events

	Date	Type	Description	Comment	Processed By
get images	12/30/2003	APP	Application Received	*	*******
	12/30/2003	FIN	Final Action on application		*******
	12/30/2003	WAP	General Approval Letter		*******
	06/08/2009	ARV	Rec & Arch - file location	SJ 03442 Box: 1120	*******

Change To:

WR File Nbr	Acres	Diversion	Consumptive	Purpose of Use
SJ 03442		3		DOM 72-12-1 DOMESTIC ONE HOUSEHOLD

****Point of Diversion**

SJ 03442		240282	4076652*

***An (*) after northing value indicates UTM location was derived from PLSS - see Help**

Conditions

4 Use shall be limited to household, non-commercial trees, lawn and garden not to exceed one acre and/or stock use.

1A Depth of the well shall not exceed the thickness of the valley fill.

Action of the State Engineer

**** See Image For Any Additional Conditions of Approval ****

Approval Code: A - Approved
Action Date: 12/30/2003
Log Due Date: 12/30/2004
State Engineer: John R. D Antonio,

HES-2182
$500

trn. 2927960

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-3442

Joaquin Talamante

36 CR 3957

Farmington, NM 87401

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

a. NW ¼ SE ¼ NW ¼ of Sec. 20 Twp. 30N Rge. 10W NMPM, in San Juan County.

b. X = _____ feet, Y = _____ feet, New Mexico Coordinate System _____ Zone in the _____ Grant.

3. Approximate depth (if known) 200 feet; outside diameter of casing 7 inches.

Name of driller (if known) Mote

4. Use of water (check use applied for):

X 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.

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

5. Remarks: Physical location is Lot #A1, Byers Subdivision.

I, Joaquin Talamante, 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.

Joaquin Talamante, Applicant

By: _____ Date: December 30, 2003

03 DEC 30 PM 4 21
OFFICE OF THE STATE ENGINEER NEW MEXICO

04 JAN -2 PM 2 45

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 December 30, 2004.

JOHN R. D'ANTONIO, JR., P.E., STATE ENGINEER

By: J. Hubbard

Date: December 30, 2003

File: SJ-3442

GENERAL CONDITIONS OF APPROVAL

A. The maximum amount of water that may be appropriated under this permit is 3 acre-feet in any year.

B. The well shall be drilled by a driller licensed in the State of New Mexico in accordance with Section 72-12-12 New Mexico Statutes Annotated. A licensed driller shall not be required for the construction of a driven well; provided, that the casing shall not exceed two and three-eights (2 3/8) inches outside diameter (Section 72-12-12).

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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 or livestock in a commercial feed lot operation, or for drinking and sanitation purposes in conjunction with a commercial operation, the permittee shall comply with Specific Conditions of Approval number 5(b).

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 in any year.

G. If artesian water is encountered, all rules and regulations pertaining to the drilling and casing of artesian wells shall be complied with.

H & I See side margins.

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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; pumping records shall be submitted to the District Supervisor: (a) for each calendar month, on or before the 10th day of the following month (b) on or before the 10th of January, April, July and October of each year for the three preceding calendar months (c) for each calendar year on or before the 10th day of January of the following year.
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.
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9. No water shall be used from this well unless and until a permit has been issued to an applicant who intends to use the water for any of the purposes described in § 72-12-1.

INSTRUCTIONS

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

The application shall be filed in triplicate and forwarded with a $5.00 filing fee to the State Engineer.

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

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

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

Bluewater, Estancia, Rio Grande, Sandia, Gallup and San Juan Basins
District No. 1, [illegible]

Office of the State Engineer
121 Tijeras, NE., Suite 2000
Albuquerque, NM 87102-3400

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

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

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

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

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

SUPPLEMENTAL INSTRUCTION

If the well under this permit is to be used for livestock watering on state or federal land [illegible] of the fo[illegible] provided as [illegible]

I. The permittee shall utilize the highest and best technology available to ensure conservation of water to the maximum extent practical.

by lawful municipal and county ordinances which are more restrictive than applicable State Engineer Regulations and the conditions of this permit.

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

OFFICIAL RECEIPT NUMBER: 5-2182 DATE: 04 JAN -2 PM 2:45 FILE NO.: _____

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 ASD; **yellow** copy to Water Rights, Santa Fe Office, and **goldenrod** copy for district file. If you make a mistake, void original and all copies and submit to ASD along with valid receipts.

A. Ground Water Rights Filing Fees

___ 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.	Change of Ownership of Water Right	$ 2.00
___ 7.	Application to Appropriate Irrig., Mun., Ind., or Comm. 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 or Purpose of Use	$25.00
___12.	Application to Change Location of Well and Place and/or Purpose of Use	$50.00
___13.	Application for Extension of Time	$25.00
___14.	Certificate and License	$25.00
___15.	Application for Plan of Replacement	$25.00
___16.	Application to Change Point of Diversion and Place and/or Purpose of Use from Surface Water to Ground Water	$50.00

B. Surface Water Rights Filing Fees

___ 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.	Change of Ownership of Water Right	$ 2.00
___ 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 or Amend	$25.00
___ 12.	Application to Change Point of Diversion and Place and/or Purpose of Use from Ground Water to Surface Water	$50.00
___ 13.	Notice of Intent to Appropriate	$25.00

C. Miscellaneous Fees

___ 1.	Application to Construct Flood Control Dam/Review of Plans for Safety of Dams ($10.00 + $2.00 /$1000.00 of estimated construction cost).	(VAR)
___ 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

D. Reproduction of Documents

.20¢/copy
$3.00/map $_____

E. Certification $_____

F. Other (Specify-not for filing fees) $_____

Comments:

_____

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New Mexico Office of the State Engineer
Transaction Summary

72121 All Applications Under Statute 72-12-1

Transaction Number: 696068 **Transaction Desc:** SJ 04454-POD1 **File Date:** 04/09/2021

Primary Status: PMT Permit
Secondary Status: APR Approved
Person Assigned: *******
Applicant: JUNE J. COMPARATO

Events

	Date	Type	Description	Comment	Processed By
get images	04/09/2021	APP	Application Received	*	*******
get images	04/09/2021	MAP	Map or Plat Received	*GIS MAP	*******
	04/09/2021	FIN	Final Action on application		*******
	04/09/2021	WAP	General Approval Letter		*******

Change To:

WR File Nbr	Acres	Diversion	Consumptive	Purpose of Use
SJ 04454		1		DOM 72-12-1 DOMESTIC ONE HOUSEHOLD
**Point of Diversion				
SJ 04454 POD1		240502	4076648	

Conditions

11 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 acre-feet 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.

18 Any diversion of water made in excess of the authorized maximum diversion amount 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 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 a plan for the proposed repayment during the following year to the State Engineer for approval.

R The State Engineer shall supply a well identification tag for the well driller to firmly affix to the well casing or cap with a steel band upon completion in accordance with Subsection M of 19.27.4.29 NMAC. The permit holder is responsible for maintaining the well identification tag.

I The permittee shall utilize the highest and best technology available to ensure conservation of water to the maximum extent practical.

Action of the State Engineer

**** See Image For Any Additional Conditions of Approval ****

Approval Code: A - Approved
Action Date: 04/09/2021
Log Due Date: 04/09/2022
State Engineer: John R. D Antonio,

AZTEC, NEW MEXICO
2021 APR -9 AM 9 24

File No. SJ-4454

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: June J Comparato	Name:
Contact or Agent: check here if Agent ☐	Contact or Agent: check here if Agent ☐
Mailing Address: 714 NM 575	Mailing Address:
City: Aztec	City:
State: New Mexico Zip Code: 87410	State: Zip Code:
Phone: (970) 403-2324 ☐ Home ■ Cell Phone (Work):	Phone: ☐ Home ☐ Cell Phone (Work):
E-mail (optional):	E-mail (optional):

☐ Check here if existing well. Enter OSE File No. _____

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 ☐ NM Central Zone ☐ NM East Zone ☐	X (in feet): Y (in feet):					
UTM (NAD83) - In meters	UTM Zone 13N ☐ UTM Zone 12N ☐	Easting (in meters): Northing (in meters):					
Lat/Long (WGS84) - To 1/10th of second ■ Check if seconds are decimal format	Lat:	36	deg	48	min	00.5N	sec
	Long:	107	deg	54	min	30.8W	sec

Other Location Information (complete the below, if applicable):

PLSS Quarters or Halves: NE/4 SE/4 NW/4 Section: 20 Township: 30N Range: 10W

County: San Juan County

Land Grant Name (if applicable):

Lot No: 3 Block No: Unit/Tract: Subdivision: WINE 969 Subdivision

Hydrographic Survey: Map: Tract:

Other description relating well to common landmarks, streets, or other:

Physical address: 714 NM 575 Aztec, NM 87410 UPC: 2-059-176-296-333

Well is on Land Owned by (Required): June Comparato WD: B1669 P203

FOR OSE INTERNAL USE

Application for Permit, Form wr-01, Rev 6/30/17

File No.:	SJ-4454	Trn. No.:	696068	Receipt No.:	5-6781
Well Tag ID No. (if applicable):	500B4	Sub-Basin:	SJAR	Log Due Date:	4-09-2022

STATE ENGINEER OFFICE
AZTEC, NEW MEXICO

3. PURPOSE OF USE

2021 APR -9 AM 9 25

- [x] Domestic use for one household
- [ ] Livestock watering
- [ ] Domestic use for more than one household. Number of households _____ Note: List each lot and owner contact information.
- [ ] 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
- [ ] New well (with new purpose)
- [ ] Amend purpose of use on existing well
- [ ] No change in purpose

4. WELL INFORMATION: CHECK THOSE THAT APPLY ☐ Existing Well ☐ Known Artesian

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-4454	
Well Driller Name: Bailey Drilling Company - Mark Bailey	**Well Driller License Number:** WD1357	
Approximate Depth of Well (feet): 100'	Outside Diameter of Well Casing (inches): 5.5"	
☐ Replacement well (List all existing wells if more than one):	☐ Repair or Deepen: ☐ Clean out well to original depth ☐ Deepen well from _____ to _____ ft. ☐ Other (Explain):	☐ Supplemental well (List OSE No. for all wells this will supplement):

5. ADDITIONAL STATEMENTS OR EXPLANATIONS (Use additional sheets if necessary)

ACKNOWLEDGEMENT

I, We (name of applicant(s)), June Comparato
Print Name(s)

affirm that the foregoing statements are true to the best of (my, our) knowledge and belief.

J. J. Comparato
Applicant Signature

Applicant Signature

ACTION OF THE OFFICE 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 9th day of April 20 21, for the New Mexico State Engineer,

By: Shawna L Wages
Signature

Shawna L Wages - Water Rights Division, District V
Print

FOR OSE INTERNAL USE

Well Tag ID Issued? ☑ Yes ☐ No

Application for Permit, Form wr-01, Rev 6/30/17

File No.: SJ-4454	Trn No.: 696068	Well ID Tag No.: 500B4

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).

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 Use = $ 75.00

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 Additional Statements or Explanations (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.

11. Send Application in duplicate to:

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. 321 W Spruce St., Deming, NM 88030 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. Bataan Memorial Bldg. Suite 102, 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

STATE ENGINEER OFFICE
AZTEC, NEW MEXICO

2021 APR -9 AM 9 25

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

17-A The maximum amount of water that may be appropriated under this permit is __1___ acre-feet in any year.

17-B The well shall be drilled by a driller licensed in the State of New Mexico in accordance with Section 72-12-12 NMSA 1978. 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).

17-C Driller's well record must be filed with the State Engineer within 30 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.

17-D The production casing shall not exceed 7 inches outside diameter except under specific conditions in which reasons satisfactory to the State Engineer are shown.

17-E To request a change to the use of water authorized under this permit, the permittee shall file an application with the State Engineer.

17-F An application for a new 72-12-1.1 NMSA 2003 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 NMSA domestic well shall be treated as an application for a supplemental well and the combined diversion may not exceed the maximum annual diversion permitted.

17-G If artesian water is encountered, the well driller shall comply with all rules and regulations pertaining to the drilling and casing of artesian wells.

17-H 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.

17-I The permittee shall utilize the highest and best technology available to ensure conservation of water to the maximum extent practical.

17-J The well shall be set back a minimum of 50 ft. 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 federal, state, and local requirements.

17-K Pursuant to section 72-8-1 NMSA 1978, the permittee shall allow the State Engineer and OSE representatives entry upon private property for the performance of their respective duties, including access to the ditch or acequia to measure flow and also to the well for meter reading and water level measurement.

17-L 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.

17-M The right to divert water under this permit is subject to curtailment by priority administration as implemented by the State Engineer or a court.

17-N 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 1978.

17-0 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.

17-P The well shall be constructed, maintained, and operated to prevent inter-aquifer exchange of water and to prevent loss of hydraulic head between hydrogeologic zones.

17-Q The State Engineer retains jurisdiction over this permit.

17-R The State Engineer shall supply a well identification tag for the well driller to firmly affix to the well casing or cap with a steel band upon completion in accordance with Subsection M of 19.27,4.29 NMAC. The permit holder is responsible for maintaining the well identification tag.

NEW XICO OFFICE OF THE STATE EI NEER
APPLICATION FOR PERMIT TO USE UNDERGROUND WATERS
IN ACCORDANCE WITH SECTIONS 72-12-1 NEW MEXICO STATUTES

FILE NUMBER: SJ-4454
PERMITTEE: June Comparato

SPECIFIC CONDITIONS OF APPROVAL

11 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.

17-18 Any diversion of water made in excess of the authorized maximum diversion amount 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 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 a plan for the proposed repayment during the following year to the State Engineer for approval.

17-R The State Engineer shall supply a well identification tag for the well driller to firmly affix to the well casing or cap with a steel band upon completion in accordance with Subsection M of 19.27.4.29 NMAC. The permit holder is responsible for maintaining the well identification tag.

I The permittee shall utilize the highest and best technology available to ensure the conservation of water to the maximum extent practical.

II The well record is due in our office on or before 4/09/2022.

ACTION OF STATE ENGINEER

This application is approved for the use indicated, subject to all general conditions and to specific conditions listed above.

Witness my hand and seal this 9th day of April, A.D., 2021.

STATE ENGINEER ... NEW MEXICO

John R. D'Antonio, Jr., P.E.
New Mexico State Engineer

By: Shawna L Wages
Shawna L Wages
Water Rights Division, District V

Trn Desc.: _____ Trn Number: _____ File Number: SJ-4454
Log Due Date: April 9, 2022 Well Tag ID No.: 500B4

153497

WARRANTY DEED

ORIGINAL

William L. Ebert, a married man as his sole and separate property, for consideration paid, grants to June Comparato, a single woman whose address is:

62 Cedar Lane Bayfield CO 81122,

the following described real estate in San Juan County, New Mexico:

Lots 1, 2 And 3, of the WINE 969 SUBDIVISION, San Juan County, New Mexico, as shown on the Plat of said Subdivision filed for record February 25, 2010.

SUBJECT TO taxes for the year 2021 and thereafter; mineral reservations and/or conveyances heretofore made; and any and all easements and servitudes, public or private, of whatsoever kind or nature, in existence at the date hereof;

with warranty covenants.

WITNESS our hands and seals this 2nd day of April, 2021.

William L. Ebert

ACKNOWLEDGMENT FOR NATURAL PERSONS

STATE OF NEW MEXICO }
} SS.
COUNTY OF SAN JUAN }

This instrument was acknowledged before me this 2nd day of April, 2021, by William L. Ebert, a married man as his sole and separate property.

My commission expires:
January 28, 2023

Notary Public

OFFICIAL SEAL
GREG F. HOEFER
NOTARY PUBLIC
STATE OF NEW MEXICO
My Commission Expires 01/28/23

202103985 04/05/2021 09:34 AM
1 of 1 B1669 P203 $25.00
San Juan County, NM TANYA SHELBY

SAN JUAN COUNTY COUNTY CLERK STATE OF NEW MEXICO

CM

STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER
AZTEC

John R. D'Antonio Jr., P.E.
State Engineer

100 Gossett Drive, Suite A
Aztec, New Mexico 87410

April 9, 2021

June Comparato
714 NM 575
Aztec, NM 87410

Re: File number SJ-4454

June,

Attached is your copy of Permit number SJ-4454, that has been approved in accordance with New Mexico Statute Section 72-12-1 subject to the conditions set forth by the permit.

Carefully review the attached conditions and or requirements of approval for this specific permit.

- The enclosed well identification tag must be firmly affixed to the well casing or cap.
- This permit will automatically expire one year from the date of issuance if the well is not completed, or the well record is not filed with the Office of the State Engineer.

For further assistance, please contact the Aztec District V Office at (505) 383-4571.

Kindest regards,

Shawna L Wages

Shawna L Wages
District V Office – Aztec

Attachments: Approved 72-12-1 Permit Application
Well Tag ID Number: 500B4
Receipt: 5-6781

cc: Aztec Filing
W.A.T.E.R.S.
Aztec Reading (w/o enclosures)

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

OFFICIAL RECEIPT NUMBER: 5 - **6781** DATE: 4-8-2021 FILE NO.: SJ-4454

TOTAL: 125.00 RECEIVED: One hundred twenty five DOLLARS ☐ CASH: ☒ CHECK NO.: 1195

PAYOR: Time Compound ADDRESS: 714 NM 575

CITY: Aztec STATE: NM ZIP: 87410 RECEIVED BY: JLW

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 a mistake is made, void the original and all copies and submit to Program Support/ASD as part of the daily deposit.

A. Ground Water Filing Fees

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

B. Surface Water Filing Fees

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

All fees are non-refundable.

C. Well Driller Fees

___	1. Application for Well Driller's License	$ 50.00
___	2. Application for Renewal of Well Driller's License	$ 50.00

D. Reproduction of Documents

___ @ 25¢/copy $_____

___ Map(s) $_____

E. Certification $_____

F. *Credit Card Convenience Fee $_____

G. Other_____ $_____

Comments:

_____

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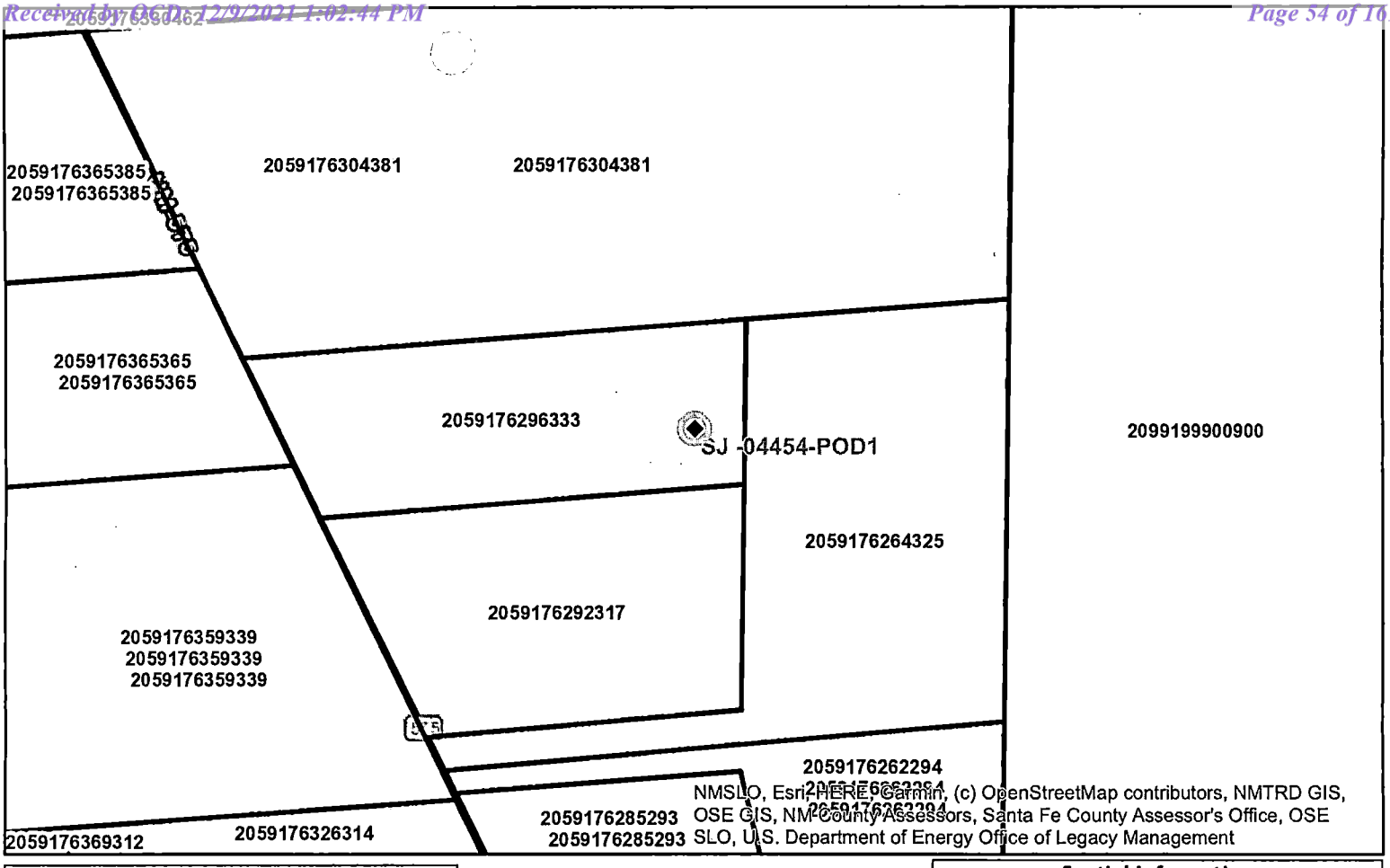
_____



Coordinates

UTM - NAD 83 (m) - Zone 13

Easting 240501.600

Northing 4076648.300

State Plane - NAD 83 (f) - Zone W

Easting 2701071.954

Northing 2110577.386

Degrees Minutes Seconds

Latitude 36 : 48 : 0.499457

Longitude -107 : 54 : 30.798916

Location pulled from POD Search

NEW MEXICO OFFICE OF THE STATE ENGINEER

1:2,257

ft

0 45 90 180

N

KIMBERLY HARRIS 5/24/2021

Office of the State Engineer, Interstate Stream Commission

These online efforts have been made by the New Mexico Office of the State Engineer (OSE) to verify that these maps accurately interpret the source data used in their preparation; however, a degree of error is inherent in all maps, and these maps may contain omissions and errors. In scale, resolution, rectification, positional accuracy, development methodology, interpretation of source data, and other circumstances.
These maps are distributed "as is" without warranty of any kind.

Spatial Information

County: San Juan

Groundwater Basin: San Juan

Abstract Area:SJ

Land Grant:
Not in Land Grant

Restrictions:

NA

PLSS Description

SENESENW Qtr of Sec 20 of 030N 010W

Derived from CADNSDI- Qtr Sec. locations are calculated and are only approximations

Parcel Information

UPC/DocNum: 2059176296333

Parcel Owner: EBERT WILLIAM L

Address:714 NM 575 null null

Legal: WINE 969 SUBDIVISION LOT 3 BK.1641 PG.310, PG.881

POD Information

Owner: JUNE COMPARATO

File Number: SJ -04454-POD1

POD Status: PEN

Permit Status: NoData

Permit Use: NoData

Purpose: DOMESTIC

Selected POD

Coord Search Location

Recently Edited PODs

OSE District Boundary

New Mexico State Trust Lands

Subsurface Estate

Surface Estate

Both Estates

San Juan County Parcels 2020

SiteBoundaries

Sections

3244

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

30-045-25080

Operator EPFS **Location: Unit** O **Sec.** 30 **Twp** 30 **Rng** 10

Name of Well/Wells or Pipeline Serviced Sellers Fed LS 2M #97693

Elevation _____ **Completion Date** 6-16-97 **Total Depth** 400 **Land Type** * SF 078195

Casing, Sizes, Types & Depths 8 5/8 - PVC - 24'

If Casing is cemented, show amounts & types used 6 BAGS Zim Type I & 2

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

Depths & thickness of water zones with description of water when possible:

Fresh, Clear, Salty, Sulphur, Etc. Damp @ 60' - Wet at. 130-140 -

Depths gas encountered: —

Type & amount of coke breeze used: Loresco SW.

Depths anodes placed: 165 - 305

Depths vent pipes placed: 305

Vent pipe perforations: 140'

Remarks: _____

DH Derrels

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OCT 14 1997
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.

DEEP WELL GROUNDBED DATA DATE June 16, 1997

COMPANY EPFS/Amoco COUNTY San Juan STATE NM

CONTRACT NO. FC-96-1000 UNIT NO. 97693

LOCATION Sellers Fed LS 2M

GROUNDBED: DEPTH 400 FT., DIA. 7 7/8 IN., ANODES (15)2 x 60 SHA-2

CASING: SIZE 8 IN., DEPTH 24 FT.

DEPTH FT.	DRILLER'S LOG	RESISTIVITY OHMS	RESISTIVITY AMPS	ANODE NUMBER	DEPTH TO ANODE TOP	BEFORE COKE	AFTER COKE
5	Casing						
10	"						
15	"						
20	" (Casing to 24')						
25	Brown Sandstone						
30	"						
35	"						
40	"		1.7				
45	Blue Sandstone		1.2				
50	"		0.8				
55	"		0.7				
60	"		1.0				
65	"		0.8				
70	"		1.0				
75	"		2.1				
80	"		2.7				
85	Shale		3.1				
90	"		3.0				
95	"		2.7				
100	"		3.0				
105	"		3.3				
110	"		2.8				
115	"		2.5				
120	"		2.4				
125	"		1.7				
130	"		1.0				
135	Sandstone		0.6				
140	"		0.5				
145	"		0.7				
150	"		1.9				
155	"		3.1				
160	"		2.9				
165	Shale		3.3	15	165	3.1	7.3
170	"		3.2				
175	"		2.8	14	175	2.7	7.0
180	"		2.6				
185	"		3.1	13	185	2.9	7.1
190	"		2.8				
195	"		2.7	12	195	2.6	7.3
200	"		2.7				
205	"		2.6	11	205	2.6	6.9
210	"		2.5				
215	"		2.9	10	215	2.8	7.5
220	"		2.7				
225	"		2.8	9	225	2.7	7.0
230	"		2.6				
235	"		2.7	8	235	2.5	7.3
240	Shale		2.7				

TDM1350

COMPANY EPFS/Amoco DATE June 16, 1997

LOCATION Sellers Fed LS 2M UNIT NO. 97693

DEPTH FT	DRILLER'S LOG	RESISTIVITY OHMS	AMPS	ANODE NUMBER	DEPTH TO ANODE TOP	BEFORE COKE	AFTER COKE
245	Shale		2.8	7	245	2.8	7.4
250	"		2.2				
255	"		2.7	6	255	2.7	7.1
260	"		2.5				
265	"		2.6	5	265	2.6	7.1
270	"		2.6				
275	"		2.6	4	275	2.5	6.8
280	"		2.5				
285	"		2.6	3	285	2.6	7.2
290	"		2.8				
295	"		2.5	2	295	2.5	6.4
300	"		2.5				
305	"		2.0	1	305	2.0	5.7
310	"		1.7				
315	"		1.7				
320	"		1.8				
325	"		1.6				
330	"		1.6				
335	"		1.9				
340	"		2.2				
345	"						
350	"						
355	"						
360	"						
365	"						
370	"						
375	"						
380	"						
385	"						
390	"						
395	"						
400	Shale						
405							
410							
415							
420							
425							
430							
435							
440							
445							
450							
455							
460							
465							
470							
475							
480							
485							
490							
495							
500							
505							
510							

TDM1350

1 - 30-045-09295
3 - 30-045-09288

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

Operator MERIDIAN OIL Location: Unit SW Sec. 21 Twp 30 Rng 10

Name of Well/Wells or Pipeline Serviced SUNRAY D #1, #3

cps 795w

Elevation 6351' Completion Date 8/28/67 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. 120' & 220'

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OIL CON. DIV
DIST. 3

Depths gas encountered: N/A

Type & amount of coke breeze used: 6800 lbs.

Depths anodes placed: 448', 442', 436', 430', 424', 418', 412', 406', 400', 394', 343', 291'

Depths vent pipes placed: 430' OF 3/4 " HOSE

Vent pipe perforations: 340'

Remarks: gb #2

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

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

1- 30-045-09295
3 - 30-045-09288

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

Operator MERIDIAN OIL Location: Unit SW Sec. 21 Twp 30 Rng 10

Name of Well/Wells or Pipeline Serviced ~~SUNRAY D #1, #3~~ cps 795w

Elevation 6351' Completion Date 8/23/67 Total Depth 480' 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'

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OIL CON. DIV.
DIST. 3

Depths gas encountered: N/A

Type & amount of coke breeze used: 3400 lbs.

Depths anodes placed: 465', 459', 453', 447', 441', 435', 429', 423', 382', 376', 237', 23

Depths vent pipes placed: 459' OF 3/4" HOSE

Vent pipe perforations: 400'

Remarks: gb #1 HOLE CAVED OR SQUEEZED-COULD NOT GET GOKE AROUND ALL ANODES.

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.

#2 30-045-09357

2-R 30-045-23862

225 30-045-27067

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 H Sec. 21 Twp 30 Rng 10

Name of Well/Wells or Pipeline Serviced SUNRAY D #2, #2R, #225

cps 2066w

Elevation 6302' Completion Date 1/6/89 Total Depth 420' Land Type* N/A

Casing, Sizes, Types & Depths N/A

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

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

N/A

Depths & thickness of water zones with description of water when possible:

Fresh, Clear, Salty, Sulphur, Etc. 160' NO SAMPLE

Depths gas encountered: N/A

Type & amount of coke breeze used: N/A

Depths anodes placed: 395', 385', 375', 335', 325', 280', 270', 240', 230', 220'

Depths vent pipes placed: 420'

Vent pipe perforations: 300'

Remarks: gb #2

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MAY 31 1990
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.

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 NE Sec. 21 Twp 30 Rng 10

Name of Well/Wells or Pipeline Serviced SUNRAY D #2, #2R, #225

cps 2066w

Elevation 6302' Completion Date 8/28/81 Total Depth 485' 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. 185' SAMPLE TAKEN

Depths gas encountered: N/A

Type & amount of coke breeze used: 6300 lbs.

Depths anodes placed: 455', 445', 435', 425', 415', 385', 375', 280', 265', 240'

Depths vent pipes placed: 480'

Vent pipe perforations: 320'

Remarks: gb #1

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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.

1205

30-045- 23831

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. 21 Twp 30 Rng 10

Name of Well/Wells or Pipeline Serviced SUNRAY D #2A

cps 1574w

Elevation 6271' Completion Date 8/31/81 Total Depth 485' 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. 185' SAMPLE TAKEN

Depths gas encountered: N/A

Type & amount of coke breeze used: 5820 lbs.

Depths anodes placed: 460', 450', 440', 430', 420', 410', 400', 390', 380', 350'

Depths vent pipes placed: 485',

Vent pipe perforations: 320'

Remarks: gb #1

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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. 11-71)

WELL CASING

CATHODIC PROTECTION CONSTRUCTION REPORT

DAILY LOG

Drilling Log (Attach Hereto). ☐ 2 X 60 ANODES Completion Date 8-31-81

Well Name	Location	CPS No.
SUNRAY D #2A	SE21-30-10	1574-W

Type & Size Bit Used	Work Order No.
6 3/4"	57678-21

Anode Hole Depth	Total Drilling Rig Time	Total Lbs. Coke Used	Lost Circulation Mat'l Used	No. Sacks Mud Used
485' logged 485'		5820		

Anode Depth	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10
	460	450	440	430	420	410	400	390	380	350
Anode Output (Amps)	4.8	3.1	5.5	6.2	6.6	6.3	4.8	6.3	4.5	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				No. 8 C.P. Cable Used	No. 12 C.P. Cable Used
Volts 11.9	Amps 22.2	Ohms .53			

Remarks: STATIC 600' SW .80 UNIONS OK

DRILLER SAID HIT WATER AT 185' GOT WATER SAMPLE.

INSTALLED 485' OF 1" VENT PIPE, PERFORATED 320' OF VENT PIPE

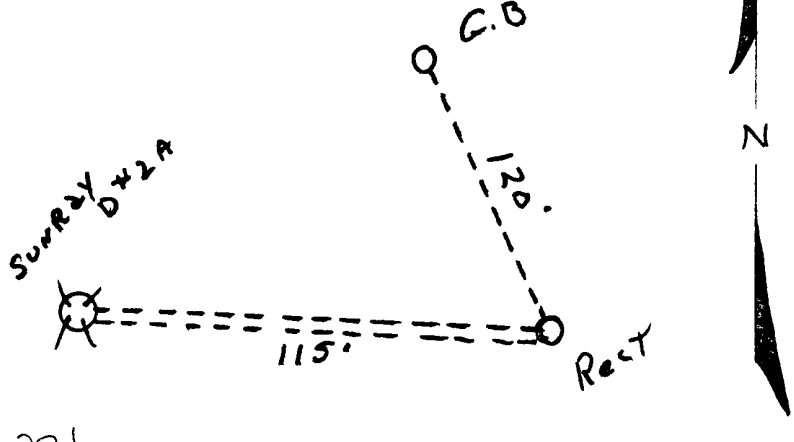
SLURRYED 5820 lbs OF COKE BREEZE

1 40V 16A RECT. ✓
1 STUB POLE ✓
DITCH + 1 CABLE - 235' ✓
EXTRA CABLE - 135' ✓
HOLE DEPTH - 15' ✓
SET 20' CASING - 1 HR. ✓

All Construction Completed

Willis Knight Jr.
(Signature)

GROUND BED LAYOUT SKETCH



Time	Reg	O.T.
8-31-81	8	1 ✓
9-2-81	8	1 ✓

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PINK – Originator File

L6271

EL PASO NATURAL GAS COMPANY

DRILLING DEPARTMENT

DAILY DRILLING REPORT

LEASE CPS 1574-W WELL NO. Sunray D #2A CONTRACTOR Stony Drilling RIG NO. 1 REPORT NO. DATE 8-31-81 19

MORNING

Driller Total Men In Crew

FROM	TO	FORMATION	WT-BIT	R.P.M.
0	20	QB-Gravel		
20	185	SS w/Sh		
185	375	SS w/Sh streaks		

NO. DC ____ SIZE ____ LENG. ____

BIT NO. NO. DC ____ SIZE ____ LENG. ____

SERIAL NO. STANDS

SIZE SINGLES

TYPE DOWN ON KELLY

MAKE TOTAL DEPTH

MUD RECORD

Time	Wt.	Vis.

MUD, ADDITIVES USED AND RECEIVED

FROM	TO	TIME BREAKDOWN

REMARKS –

Water at 185'

logged 485

T.D. 485

1 hr rig time setting 20' 8" Casing

DAYLIGHT

Driller Total Men In Crew

FROM	TO	FORMATION	WT-BIT	R.P.M.
375	485	Sh		

NO. DC ____ SIZE ____ LENG. ____

BIT NO. NO. DC ____ SIZE ____ LENG. ____

SERIAL NO. STANDS

SIZE SINGLES

TYPE DOWN ON KELLY

MAKE TOTAL DEPTH

MUD RECORD

Time	Wt.	Vis.

MUD, ADDITIVES USED AND RECEIVED

FROM	TO	TIME BREAKDOWN

REMARKS –

EVENING

Driller Total Men In Crew

FROM	TO	FORMATION	WT-BIT	R.P.M.

NO. DC ____ SIZE ____ LENG. ____

BIT NO. NO. DC ____ SIZE ____ LENG. ____

SERIAL NO. STANDS

SIZE SINGLES

TYPE DOWN ON KELLY

MAKE TOTAL DEPTH

MUD RECORD

Time	Wt.	Vis.

MUD, ADDITIVES USED AND RECEIVED

FROM	TO	TIME BREAKDOWN

REMARKS –

SIGNED: Toolpusher Al Stony Company Supervisor

Form 7-1 (Rev 3-77)

El Paso Natural Gas Company
ENGINEERING CALCULATION

Sheet ___ of ___
Date 8-31-8
By. WK
File ___

SunRay D #2 A   Static 600' SW .80
SE 21-30-10   W/O 57678-21
CPS 1574 W

1 40V 16A Rect.
1 Stub Pole
Ditch + l. cable - 235'
Extra cable - 135'
Hole Depth - 15'
Set 20' of casing - 1 hR.

Driller Said hit water at 185'. Got water Sample
Installed 485' of 1" Vent Pipe
Perforated 320' of vent Pipe
Slurryed 5820 lb of coke

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	$C_2^=$	9 64
42 08	$C_3^=$	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_2S	5 17
28.01	N_2	4 16
2 02	H_2	3 38

185	.30	35	.30
90	1.10	40	1.00
95	1.20	45	1.30
200	1.00	50	1.20 (10)
05	1.00	55	1.00
10	.90	60	.80
15	.80	65	.50
20	.90	70	.80
25	.70	75	.70
30	.50	80	1.10 (9)
35	.30	85	1.60
40	.30	90	1.40 (8)
45	.40	95	1.60
50	.60	400	1.60 (7)
55	1.00	05	1.60
60	1.20	10	1.60 (6)
65	.90	15	1.60
70	.80	20	1.50 (5)
75	.70	25	1.60
80	.60	30	1.70 (4)
85	.60	35	1.60
90	.60	40	1.70 (3)
95	.60	45	1.50
300	.80	50	1.20 (2)
05	.80	55	1.40
10	.70	60	1.70 (1)
15	.70	65	1.60
20	.80	70	1.60
25	.50	75	1.90
30	.30	80	1.90
		85	1.5 TD

(1)	460	3.6	4.80
(2)	450	2.0	3.10
(3)	440	3.5	5.50
(4)	430	3.9	6.20
(5)	420	3.5	6.60
(6)	410	3.60	6.30
(7)	400	3.20	4.80
(8)	390	3.50	6.30
(9)	380	2.80	4.50
(10)	350	2.10	3.00

11.9 V
22.2 A
.53 Ω

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

Analysis No. 1-10322 Date 9-18-81

Operator El Paso Natural Gas Well Name Sun Ray D #2A CPS 1574 W

Location SE 21-30-10 County San Juan State New Mexico

Field Kutz Formation

Sampled From 185'

Date Sampled 8-31-81 By Willie Knight

Tbg. Press. Csg. Surface Csg. Press.

	ppm	epm		ppm	epm
Sodium	378	16.4	Chloride	20	0.6
Calcium	564	28.2	Bicarbonate	356	5.8
Magnesium	39	3.2	Sulfate	2,000	41.6
Iron	No test		Carbonate	0	0
H_2S	No test		Hydroxide	0	0

Total Solids Dissolved 2,852

pH 7.5

Sp. Gr. 1.0055 At 60°F

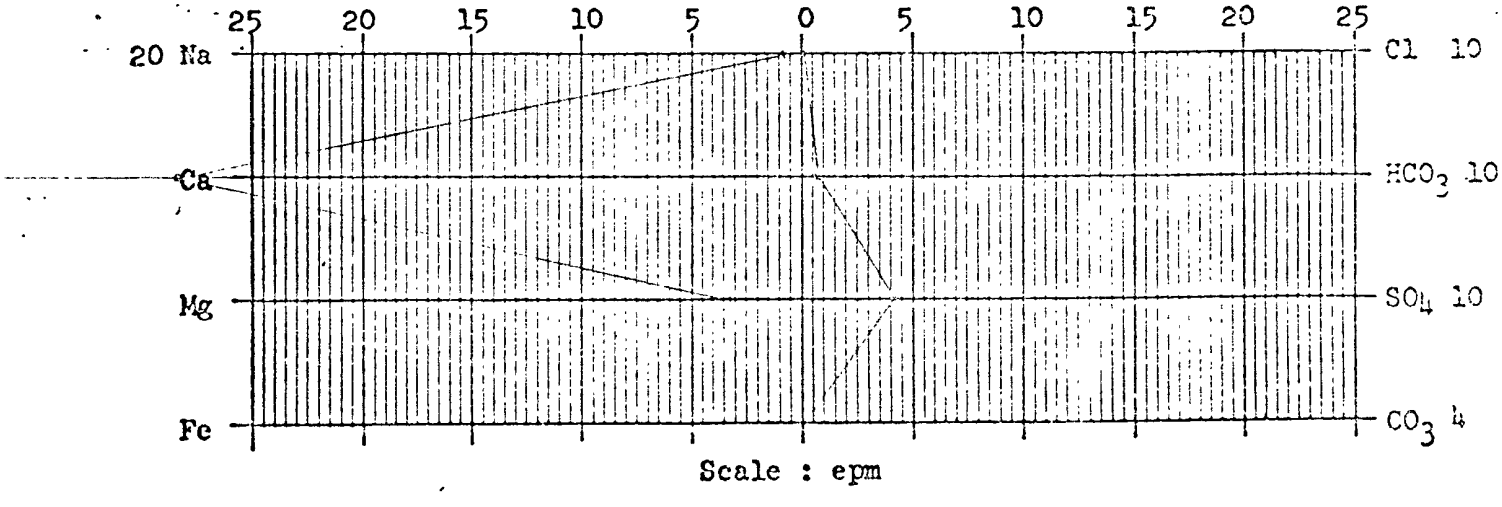
Resistivity 333 ohm-cm at 75 °F

cc: R. A. Ullrich
E. R. Paulek
J. W. McCarthy
J. D. Evans
W. B. Shropshire
D. C. Adams
File

HCO_3 taken to pH 4.0

Joe P. Barnett & Dennis P. Bird
Chemist

JWS



1285

30-045- 24139

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

Operator MERIDIAN OIL Location: Unit NW Sec. 21 Twp 30 Rng 10

Name of Well/Wells or Pipeline Serviced SUNRAY D #1A

cps 1572w

Elevation 6426' Completion Date 9/2/81 Total Depth 500' Land Type* N/A

Casing, Sizes, Types & Depths N/A

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

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

N/A

Depths & thickness of water zones with description of water when possible:

Fresh, Clear, Salty, Sulphur, Etc. 50' - 70' SAMPLE TAKEN

Depths gas encountered: N/A

Type & amount of coke breeze used: N/A

Depths anodes placed: 470', 445', 405', 380', 330', 310', 295', 280', 170', 150'

Depths vent pipes placed: 500'

Vent pipe perforations: 460'

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.

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

WELL CASING
CATHODIC PROTECTION CONSTRUCTION REPORT
DAILY LOG

Drilling Log (Attach Hereto). ☐ Completion Date 9-2-81

Well Name: SUNRAY "D" 1A			Location: NW 21-30-10					GPS No.: 1572 W	
Type & Size Bit Used: UNION OTC			STATIC = .89					Work Order No.: 57782-21-50-20	
Anode Hole Depth: 500' LOG 495'		Total Drilling Rig Time		Total Lbs. Coke Used		Lost Circulation Matl Used		No. Sacks Mud Used	
Anode Depth									
# 1: 470	# 2: 445	# 3: 405	# 4: 380	# 5: 330	# 6: 310	# 7: 295	# 8: 280	# 9: 170	# 10: 150
Anode Output (Amps)									
# 1: 463	# 2: 532	# 3: 355	# 4: 442	# 5: 281	# 6: 466	# 7: 403	# 8: 330	# 9: 216	# 10: 308
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 22.5	Ohms .52		No. 8 C.P. Cable Used				No. 2 C.P. Cable Used	

Remarks: WET 50' TO 70' AFTER 30 MIN BLOW SAMPLE MAY BE TO MUDDY.
40' 1" PLAIN VENT PIPE BALANCE PERFORATED

All Construction Completed

BT
(Signature)

GND BED
45'
150'
40-16 ✓
STUB ✓
POLE

GROUND BED LAYOUT SKETCH

DITCH w/ CABLE = 195'
XTRA CABLE = 170' ✓
HOLE = ●-5' ✓

N

TIME	REG	OT
9-2-81	8	2 ✓

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

le426

Form 22-2 (Rev 5-79)

EL PASO NATURAL GAS COMPANY

DRILLING DEPARTMENT

DAILY DRILLING REPORT

LEASE: Sunray "D" #1A WELL NO. CONTRACTOR: Stacy Drilling RIG NO. CPS 1572 W REPORT NO. DATE: Oct 2 1981

MORNING

Driller Total Men In Crew

FROM	TO	FORMATION	WT-BIT	R.P.M.

BIT NO.
SERIAL NO.
SIZE
TYPE
MAKE

NO. DC ___ SIZE ___ LENG. ___
NO. DC ___ SIZE ___ LENG. ___
STANDS
SINGLES
DOWN ON KELLY
TOTAL DEPTH

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

FROM	TO	TIME BREAKDOWN
0	80	Sand
80	120	Shale
120	160	Sand
[illegible]	180	Shale
100	230	Sandy Shale
230	280	Sand

REMARKS –

Water 80

Drilled 500 TD 495

DAYLIGHT

Driller Total Men In Crew

FROM	TO	FORMATION	WT-BIT	R.P.M.

BIT NO.
SERIAL NO.
SIZE
TYPE
MAKE

NO. DC ___ SIZE ___ LENG. ___
NO. DC ___ SIZE ___ LENG. ___
STANDS
SINGLES
DOWN ON KELLY
TOTAL DEPTH

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

FROM	TO	TIME BREAKDOWN
280	380	Sandy Shale
380	480	Shale
480	500	Sand

REMARKS –

EVENING

Driller Total Men In Crew

FROM	TO	FORMATION	WT-BIT	R.P.M.

BIT NO.
SERIAL NO.
SIZE
TYPE
MAKE

NO. DC ___ SIZE ___ LENG. ___
NO. DC ___ SIZE ___ LENG. ___
STANDS
SINGLES
DOWN ON KELLY
TOTAL DEPTH

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

FROM	TO	TIME BREAKDOWN

REMARKS –

SIGNED: Toolpusher ______________________ Company Supervisor ______________________

Form 7-354 (Rev 11-77)

EL PASO NATURAL GAS COMPANY

Sheet

Date: 4-2-81

By: BT

1572 W S7782-21-50-20

SUNRAY "D" #1A NW 21-30-10

WET FROM 50' TO 70' BLOW SAMPLE AFTER 30 MIN SAMPLE TO MUDDY 40' 1" PLAIN VENT PIPE BALANCE PERFORATED

DRILLED 500
LOGED 495

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	$C_2^=$	9 64
42 08	$C_3^=$	9 67

MISC MW		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_2S	5 17
28 01	N_2	4 16
2 02	H_2	3 38

80	1.60		55	1.49		30	1.00	5	3.19
85	124	-	60	2.35		35	.77	10	2.72 - 6
90	2.19		65	2.20		40	.80	15	2.46
95	2.41	-	70	1.55	- 9	45	1.01	20	2.00
100	1.58		75	1.23		50	1.03	25	1.98
5	.78		80	1.06		55	.89	30	1.80
10	.62		85	.98		60	.79	35	1.55 - 5
15	.54		90	.83		65	.77	40	1.42
20	.50		95	.86		70	.98	45	1.35
25	.60		200	.53		75	1.22	50	1.03
30	.63		5	.70		80	1.26 - 8	55	1.15
35	.57		10	.98		85	2.13	60	.94
40	.82		15	.95		90	2.52	65	.74
45	.70		20	.71		95	2.42 - 7	70	.83
50	.68	- 10	25	.73		800	2.60 -	75	.87
				11.8 VOLTS				80	1.85 - 4
				22.5 AMPS				85	3.13
				.52			- 2	90	3.05
	1	470'	2.94	463	450	3.33		95	1.72
	2	445'	3.34	532	65	3.24		400	1.04
	3	405'	2.38	355	60	3.20		5	.92
	4	380'	3.03	442	65	2.94 - 1		10	2.32
	5	330'	1.88	281	70	2.89		15	2.43
	6	310'	2.89	466	75	2.67		20	2.06
	7	295'	2.57	403	80	2.26		25	1.10
	8	280'	1.95	330	85	1.64		30	1.22
	9	170'	1.36	216	90	1.51		35	2.42
	10	150'	1.72	308	95			40	2.94
					500			45	3.19

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

Analysis No. 1-10328 **Date** 9-21-81

Operator El Paso Natural Gas **Well Name** Sun Ray "D"-1A CPS 1572 W

Location NW 21-30-10 **County** San Juan **State** New Mexico

Field Kutz **Formation**

Sampled From 50 - 70'

Date Sampled 9-2-81 **By** B.T.

Tbg. Press. **Csg.** **Surface Csg. Press.**

	ppm	epm		ppm	epm
Sodium	1555	67.6	Chloride	72	2.0
Calcium	508	25.4	Bicarbonate	127	2.1
Magnesium	108	8.9	Sulfate	4,700	97.8
Iron			Carbonate	0	0
H_2S			Hydroxide	0	0

Total Solids Dissolved 6,614

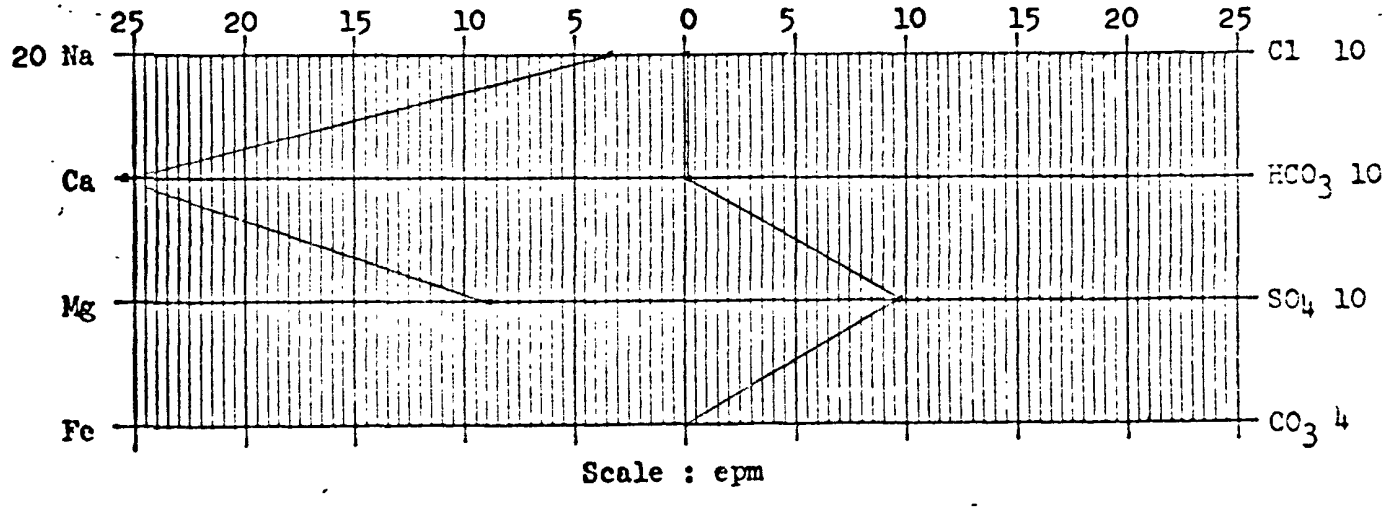
pH 7.2

Sp. Gr. 1.0215 **At** 60°F

Resistivity 138 ohm-cm at 75 °F

cc: R. A. Ullrich
E. R. Paulek
J. W. McCarthy
J. D. Evans
W. B. Shropshire
D. C. Adams
File

Joe P. Barnett & Dennis P. Bird
Chemist



#6A = 30-045-29310

DATE: 5/14/96 #13 = 30-045-21098

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

Operator Meridian Oil Inc. Location: Unit P Sec. 16 Twp 30 Rng 10

Name of Well/Wells or Pipeline Serviced

Atlantic D Com E #6A and #13

Elevation ____ Completion Date 5/14/96 Total Depth 493' Land Type F

Casing Strings, Sizes, Types & Depths 5/13 Set 60' of 8" PVC Casing.
No Gas, Water, or Boulders Were Encountered During Casing.

If Casing Strings are cemented, show amounts & types used Cemented
With 15 Sacks.

If Cement or Bentonite Plugs have been placed, show depths & amounts used
None

Depths & thickness of water zones with description of water: Fresh, Clear, Salty, Sulphur, Etc. Hit Fresh Water at 310'.

Depths gas encountered: None

Ground bed depth with type & amount of coke breeze used: 493' Depth.
Used 130' Sacks of Asbury 218R(6500#)

Depths anodes placed: 470', 460', 450', 440', 415', 405', 395', 385', 350', 300', 290', 280', 160', 150', +140'.

Depths vent pipes placed: Surface To 493'.

Vent pipe perforations: Bottom 360'.

Remarks:

RECEIVED
FEB 19 1997
OIL CON. DIV.
DIST. 3

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

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

CPS GROUND BED CONSTRUCTION WORKSHEET

CPS# 2954-W | P/L NAME(S), NUMBER(S): ATLANTIC D COM E #6A And #13

WO # 1M13 | TOTAL | VOLTS 11.62 | AMPS 26.8 | OHMS .433 | DATE 5/14/96 | NAME: JOHN L. MOSS

REMARKS (Notes for construction log): Driller Reported Damp Areas AT 180' + 270', And WATer AT 310'. Installed 493' of 1" PE Vent Pipe WITH THe BoTTom 360' Perforated. Coke Breeze To 115'.

DEPTH	LOG ANODE	ANODE #
100		
105		
110		
115		
120		
125		
130	2.0	
135	1.9	
140	1.9	-15
145	1.7	
150	1.7	-14
155	2.1	
160	1.9	-13
165	1.1	
170	.8	
175	.7	
180	1.1	
185	.9	
190	.5	
195	.6	
200	.2	
205	.1	
210	.6	
215	.5	
220	.5	
225	.5	
230	.4	
235	.4	
240	.5	
245	.8	
250	.9	
255	.6	
260	.3	
265	.5	
270	.6	
275	.2	
280	.5	-12
285	1.7	
290	1.9	-11

DEPTH	LOG ANODE	ANODE #
295	2.1	
300	2.0	-10
305	1.4	
310	.7	
315	.7	
320	.7	
325	1.1	
330	1.1	
335	.7	
340	.7	
345	.5	
350	1.4	9
355	1.2	
360	.7	
365	.7	
370	.7	
375	.7	
380	.7	
385	2.4	-8
390	2.4	
395	2.5	-7
400	2.4	
405	2.1	-6
410	2.1	
415	1.7	-5
420	1.0	
425	1.0	
430	.6	
435	.6	
440	2.2	4
445	2.1	
450	2.0	3
455	1.7	
460	1.7	2
465	1.6	
470	1.6	1
475	1.3	
480	1.3	
485	1.3	

DEPTH	LOG ANODE	ANODE #
490	1.1	
495	T.D.	493'
500		
505		
510		
515		
520		
525		
530		
535		
540		
545		
550		
555		
560		
565		
570		
575		
580		
585		
590		
595		
600		
605		
610		
615		
620		
625		
630		
635		
640		
645		
650		
655		
660		
665		
670		
675		
680		

DEPTH	LOG ANODE	ANODE #
685		
690		
695		
700		

ANODE #	DEPTH	NO COKE	FULL COKE
1	470'	1.6	4.5
2	460'	1.7	4.8
3	450'	2.0	5.0
4	440'	2.3	5.1
5	415'	1.7	4.3
6	405'	2.0	5.2
7	395'	2.4	5.9
8	385'	2.1	5.0
9	350'	1.5	3.5
10	300'	2.3	6.1
11	290'	1.9	5.5
12	280'	1.5	4.6
13	160'	2.0	5.4
14	150'	1.7	5.6
15	140'	2.0	4.9
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			

DISTRIBUTION — ORIGINAL — COMPANY CPS FILE
— DIVISION CORROSION SUPERVISOR

4187

30-045-24241

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

Operator MERIDIAN OIL INC. Location: Unit D Sec. 16 Twp 30 Rng 10

Name of Well/Wells or Pipeline Serviced ATLANTIC D COM B #3A,

ATLANTIC D COM J #11 cps 2152w

Elevation 6559' Completion Date 6/19/89 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. 25' & 150'

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

Depths gas encountered: N/A

Type & amount of coke breeze used: N/A

Depths anodes placed: 405', 385', 375', 335', 325', 315', 305', 285', 275', 265'

Depths vent pipes placed: 445'

Vent pipe perforations: 360'

Remarks: gb #1

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

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

#6R 30-045-26773

3908

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 K Sec. 16 Twp 30 Rng 10

Name of Well/Wells or Pipeline Serviced ATLANTIC D COM E #6R

cps 1939w

Elevation 6468' Completion Date 4/26/88 Total Depth 440' Land Type* N/A

Casing, Sizes, Types & Depths 20' OF 8" CASING

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

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

N/A

Depths & thickness of water zones with description of water when possible:

Fresh, Clear, Salty, Sulphur, Etc. 220'

RECEIVED
MAY 31 1991
OIL CON. DIV
DIST. 3

Depths gas encountered: N/A

Type & amount of coke breeze used: N/A

Depths anodes placed: 410', 400', 392', 384', 376', 270', 260', 250', 240', 230'

Depths vent pipes placed: 437'

Vent pipe perforations: 300'

Remarks: gb #1

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

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

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

WELL CASING

CATHODIC PROTECTION CONSTRUCTION REPORT

DAILY LOG

Drilling Log (Attach Hereto) ☐

Completion Date 4/26/88

CPS #	Well Name, Line or Plant:	Work Order #	Static:	Ins. Union Check
1939 W	ATLANTIC D COM E-6R	26764 07104060 0	600 S = 1.1V	☒ Good ☐ Bad

Location:	Anode Size:	Anode Type:	Size Bit:
S 16-30-10	2" X 60"	DURION	6 3/4"

Depth Drilled	Depth Logged	Drilling Rig Time	Total Lbs. Coke Used	Lost Circulation Mat'l Used	No. Sacks Mud Used
440'	437'				

	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10
Anode Depth	410	400	392	384	376	270	260	250	240	23
Anode Output (Amps)	3.7	3.4	4.9	4.0	3.1	4.9	5.2	4.0	3.8	3.7
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

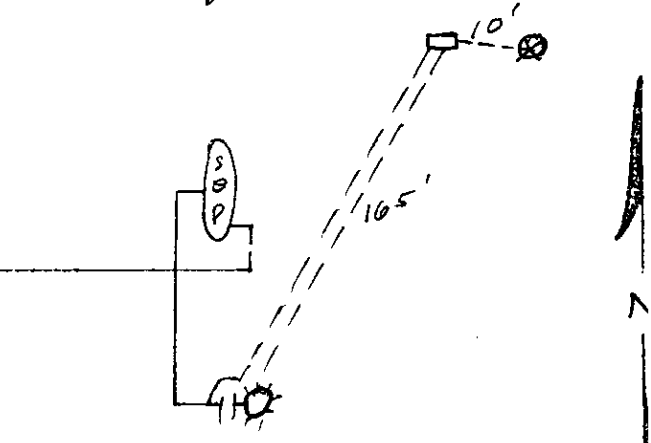
Total Circuit Resistance			No. 8 C.P. Cable Used	No. 2 C.P. Cable Used
Volts 12.1	Amps 18.3	Ohms .66		

Remarks: DRILLED TO 400', HAD TO START IN. Before we hit WATE
Because of SAND IN HOLE. NEXT AM. HOLE HAD CAVED IN BAC
TO 300', WATER STANDING IN HOLE AT 220'. CLEANED HOLE
TO 440', Logged 437'. SET 20' of 8" P.V.C. CASING, 1 Hr. setting
INSTALLED 437' of 1" P.V.C. VENT pipe, PERFORATED 300'.

	G.B. =	4074.00 ✓
Rectifier Size: 40 V 16 A		669.00 ✓
Addn'l Depth		
Depth Credit: -63'		-220.50 ✓
Extra Cable: 195'		46.80 ✓
Ditch & 1 Cable: 175'		122.50 ✓
25' Meter Pole: —		
20' Meter Pole: 1		297.00 ✓
10' Stub Pole: —		
Junction Box: 1		225.00 ✓
1 20' Joint of 8" P.V.C.		100.00 ✓
1 Hr. setting Time		138.00 ✓
~~$5951.80~~		
~~TAX 272.59~~		
~~$6224.39~~		
$5451.80 ✓		
TAX 272.59		
$5724.39 OK		

All Construction Completed

JE Statts
(Signature)



64688

D. CRASS DRILLING CO.

1979 W

Drill No. 3

DRILLER'S WELL LOG

S. P. No. Atlantic D Com E 6R Date 4-26-88

Client Meridian Oil Co. Prospect

County SAN JAUN State New Mexico

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

FROM	TO	FORMATION — COLOR — HARDNESS
0	20	SAND
20	30	Shale
30	140	SAND
140	160	Shale
160	240	SAND
240	280	SANDy Shale
280	340	SAND
340	360	SANDy Shale
360	375	SAND
375	430	Shale
430	440	SANDy Shale

Mud Bran Lime

Rock Bit Number Make

Remarks: Water @ 220 Ft.

Driller Ronnie Brown

Cathodic Protection Services Co.
1608 Schofield Ln.
P.O. Box 8
Farmington, NM 87499
(505) 327-9215
(505) 325-1946

Date 4/26/88

Company Meridian O.L

Well No. ATLANTIC D COM E-GR Location K 16-30-10 Volts Applied 12.1 Amperes 18.3

0											
5			230	2.3	(4)	455		680			
10			235	2.5		460		685			
15			240	2.6	(9)	465		690			
20			245	2.4		470		695	1	410	2.1 - 3.7
25			250	2.6	(8)	475		700	2	400	2.3 - 3.4
30			255	2.6		480		705	3	392	3.4 - 4.9
35			260	3.1	(7)	485		710	4	384	2.3 - 4.0
40			265	3.0		490		715	5	376	2.2 - 3.1
45			270	2.1	(16)	495		720	6	270	2.7 - 4.9
50			275	1.0		500		725	7	260	3.4 - 5.2
55			280	.4		505		730	8	250	1.6 - 4.0
60			285	.4		510		735	9	240	2.5 - 3.8
65			290	.3		515		740	10	230	2.5 - 3.7
70			295	.3		520		745			
75			300	.3		525		750			
80			305	.7		530		755			
85			310	1.0		535		760			
90			315	.9		540		765			
95			320	1.1		545		770			
100			325	1.3		550		775			
105			330	1.4		555		780			
110			335	1.6		560		785			
115			340	1.4		565		790			
120			345	1.2		570		795			
125			350	1.2		575		800			
130			355	1.2		580		805			
135			360	1.7		585		810			
140			365	1.3		590		815			
145			370	1.5		595		820			
150			375	2.0		600		825			
155			380	1.9	(5)	605		830			
160			385	3.0	(15)	610		835			
165			390	3.0	(14)	615		840			
170			395	2.4	(3)	620		845			
175			400	2.4	(2)	625		850			
180			405	2.3		630		855			
185			410	2.1	(1)	635		860			
190			415	1.9		640		865			
195			420	1.8		645		870			
200			425	1.6		650		875			
205			430	1.7		655		880			
210			435	4.37	T.D.	660		885			
215			440		Drilled To	665		890			
220	1.1	WATER	445			670		895			
	1.8		450			675		900			

#9 30-045-09438
#12 30-045-09441
#13 30-045-21679

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 17 Twp 30 Rng 10

Name of Well/Wells or Pipeline Serviced SCHUMACHER #9, #12, #13

cps 360w

Elevation 6381' Completion Date 5/20/63 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

RECEIVED
MAY 31 1991
OIL CON. DIV.
DIST.

Depths gas encountered: N/A

Type & amount of coke breeze used: 1700 lbs.

Depths anodes placed: 240', 234', 228', 222', 216', 175', 120', 114'

Depths vent pipes placed: N/A

Vent pipe perforations: N/A

Remarks: gb #1

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

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

WELL CASING
CATHODIC PROTECTION CONSTRUCTION REPORT
DAILY LOG

DATE 5-20-63

WELL NAME SCHumac Hey #9 CPS NO. 360 W

LOCATION 17-30N-10W

WORK ORDER NUMBER 184-40542-50-02

ANODE HOLE DEPTH 260'

TOTAL DRILLING RIG TIME 9 hrs

DRILLING TIME FOR RECTIFIER POLE HOLE 0

TYPE AND SIZE BIT USED 0

NUMBER SACKS MUD USED 2

NUMBER SACKS LOST CIRCULATION MAT'L USED 1

ANODE DEPTHS #1 240, #2 234, #3 228, #4 222 5 216 6 125 7 120 8 114

TOTAL LBS. COKE USED 1700 165

ANODE OUTPUTS 12 VOLTS, #1 1.8, #2 1.3, #3 1.8, #4 2.3 5 1.6 6 1.1 7 2.0 8 1.2

TOTAL CIRCUIT RESISTANCE: VOLTS 11.5 AMPERES 6.4 OHMS 1.8

NUMBER FEET SURFACE CABLE ~~CONDUIT~~ 334'

DRILLING LOG (ATTACH HERETO).

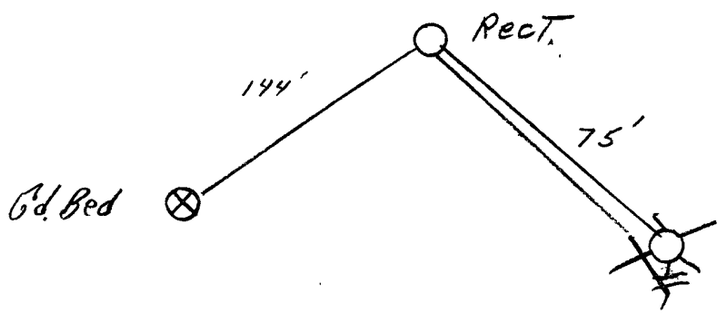
FORMATION LOG (ATTACH HERETO).

REMARKS: Static S/S = .85 R 600E
Installed Good - All Rect 28V 12A
Serial # 620 6158

ALL CONSTRUCTION COMPLETED

E. Parker
SIGNATURE

GROUND BED LAYOUT SKETCH



ORIGINAL & 1 COPY
ALL REPORTS

2008

EL PASO NATURAL GAS COMPANY

DRILLING DEPARTMENT

Blow

DAILY DRILLING REPORT

LEASE Schumacher WELL NO. 9 CONTRACTOR L.E. Wilson RIG NO. D-2 REPORT NO. DATE 5-18, 19, 20 19 63

MORNING

Driller Total Men In Crew

FROM	TO	FORMATION	WT. BIT	R.P.M.
0	113	Ss. & Sc.	Hyk	
113	134	Ss. Sh.	"	
134	175	Ss.	"	
175	180	Sc.	"	

BIT NO.
SERIAL NO. 3496
SIZE 4¾
TYPE Rock
MAKE Hy.
MUD

NO. DC SIZE LENG.
NO. DC SIZE LENG.
STANDS
SINGLES
DOWN ON KELLY
TOTAL DEPTH 180'

Time	WT.	Vis.	MUD, ADDITIVES USED AND RECEIVED
			2 Sacks Mud
			1 Sack Hulls

FROM	TO	TIME BREAKDOWN
		Move & Set Up Time ½ hr.
		5-17-63 Left Rig At 5:00 P.M.
		5-18-63 Off.
		5-20-63 Left Bloomfield At 6:00 AM.
		Arrived At Rig At 7:00 A.M.
		Finished Hole At 9:00 AM.

REMARKS –
5-18-63 Drilled To 240'. Lost Circulation At 42'. 3 Loads Water. 7 hrs.
5-19-63 From 240' To 240' Sunday. Off.
5-20-63 Drilled From 240' To 246' 1 Load Water. 2 hrs

DAYLIGHT

Driller Total Men In Crew

FROM	TO	FORMATION	WT. BIT	R.P.M.
180	245	Ss.	Hyk	
245	260	Ss. & Sc.	"	

BIT NO.
SERIAL NO.
SIZE
TYPE
MAKE

NO. DC SIZE LENG.
NO. DC SIZE LENG.
STANDS
SINGLES
DOWN ON KELLY
TOTAL DEPTH

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

FROM	TO	TIME BREAKDOWN
		Rig Time 9 hrs

REMARKS –

EVENING

Driller Total Men In Crew

FROM	TO	FORMATION	WT. BIT	R.P.M.

BIT NO.
SERIAL NO.
SIZE
TYPE
MAKE

NO. DC SIZE LENG.
NO. DC SIZE LENG.
STANDS
SINGLES
DOWN ON KELLY
TOTAL DEPTH

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

FROM	TO	TIME BREAKDOWN

REMARKS –

SIGNED Toolpusher Company Supervisor ERP

30-045-09511

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

Operator MERIDIAN OIL Location: Unit g Sec. 17 Twp 30 Rng 10

Name of Well/Wells or Pipeline Serviced SCHUMACHER #1

cps 359w

Elevation 6434' Completion Date 9/6/88 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. 50'

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MAY 31 1991
OIL CON. DIV
DIST. 3

Depths gas encountered: N/A

Type & amount of coke breeze used: N/A

Depths anodes placed: 332', 325', 318', 311', 304', 297', 290', 215', 195'

Depths vent pipes placed: 360' OF 1" PVC VENT PIPE

Vent pipe perforations: BOTTOM 320'

Remarks: gb #2

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

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

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

WELL CASING CATHODIC PROTECTION CONSTRUCTION REPORT
DAILY LOG

Realrill

Drilling Log (Attach Hereto) ☒ comp 9-2-88 Completion Date 9-6-88

CFS	Well Name, Line or Plant	Work Order #	Static	Ins. Union Check
359W	Schumacher #1	47991A		☐ Good ☐ Bad

Location	Anode Size	Anode Type	Size Bit
GH-30-10	2" x 60"	Duriron	6 3/4

Depth Drilled	Depth Logged	Drilling Rig Time	Total Lbs. Coke Used	Lost Circulation Mat'l Used	No. Sacks Mud Used
360'	360'				

	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10
Anode Depth	332	325	318	311	304	297	290	283	215	195
Anode Output (Amps)	2.9	3.8	3.9	4.3	3.5	3.8	4.0	4.5	3.1	2.6

	#11	#12	#13	#14	#15	#16	#17	#18	#19	#20
Anode Depth										
Anode Output (Amps)										

Total Circuit Resistance			No. 8 C.P. Cable Used	No. 2 C.P. Cable Used
Volts 12.22	Amps 16.0	Ohms .76		

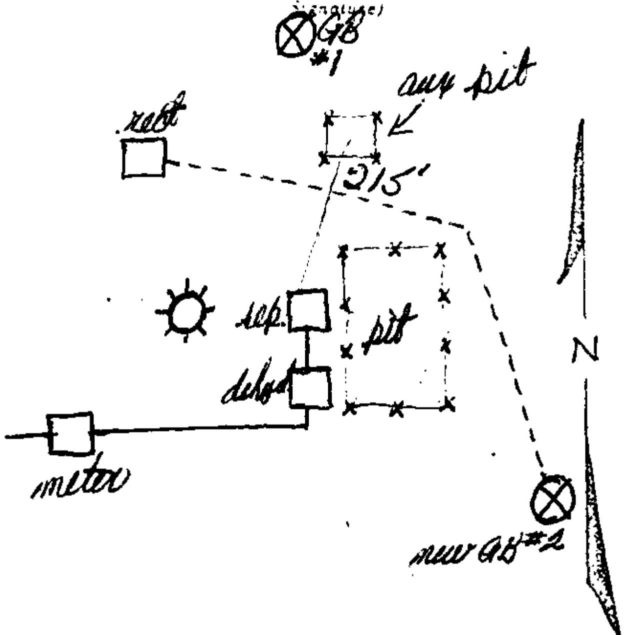
Remarks: Water at 50', sample taken. Installed 360' of 1" PVC vent pipe bottom 320' perforated

GB 4074.00

Rectifier Size: ____ V ____ A		-0-
Add'l Depth		490.00 ✓
Depth Credit:	140' @ .350	2.40 ✓
Extra Cable:	10' @ .24	150.50 ✓
Ditch & 1 Cable:	215' @ .70	
25' Meter Pole:	-0-	
20' Meter Pole:	-0-	
10' Stub Pole:	-0-	
Junction Box:	1 @ 225.00	225.00
		3961.90
	tax	198.10
		4160.00 OK

All Construction Completed

Calvin Rodman
(Signature)



CDC #359W

D. Cross DRILLING Co.

Drill No. 3

DRILLER'S WELL LOG

S. P. No. Schumacher #1 Date 9-6-88

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
0	30	SAND
30	35	Shale
35	50	SAND
50	65	SANDy Shale
65	185	SANDstone
185	225	SANDy Shale
225	265	SANDstone
265	360	Shale

Mud Bran Lime —

Rock Bit Number Make

Remarks: Water @ 50'

Driller Ronnie Brown

4899

#7 → 30-045-09545

#9A → 30-045-26600

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. 17 Twp 30 Rng 10

Name of Well/Wells or Pipeline Serviced SCHUMACHER #7, #9A

cps 810w

Elevation 6465' Completion Date 10/25/68 Total Depth 500' Land Type* N/A

Casing, Sizes, Types & Depths N/A

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

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

N/A

Depths & thickness of water zones with description of water when possible:

Fresh, Clear, Salty, Sulphur, Etc. N/A

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

Depths gas encountered: N/A

Type & amount of coke breeze used: 4500 lbs.

Depths anodes placed: 433', 427', 421', 415', 409', 403', 397', 356', 350', 230', 22

Depths vent pipes placed: 427' OF 3/4" HOSE

Vent pipe perforations: 427'

Remarks: gb #1 ABANDONED FIRST HOLE. PIPE STUCK. LEFT 200' OF DRILL PIPE IN 360' HOL

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 (7-63)

WELL CASING

CATHODIC PROTECTION CONSTRUCTION REPORT

DAILY LOG

Date 10-25-68

Well Name: Schumacher #7						CPS No.: 810 W	
Location: SE 17-30-10						Work Order No.: 184-52243-50-20	
Anode Hole Depth: 500	Total Drilling Rig Time: 59½ Drill 95½ Fish	Type & Size Bit Used				No. Sacks Mud Used: 5	
No. Sacks Lost Circulation Mat'l Used: 1	Anode Depth #1: 433	#2: 427	#3: 421	#4: 415	#5: 409	#6: 403	
Total Lbs. Coke Used: 75 sks 4500	Anode Output (Volts) #1: 3.5	#2: 4.0	#3: 4.0	#4: 4.0	#5: 2.5	#6: 4.2	
Total Circuit Resistance: Volts 12.0	Amps 16.5	Ohms 0.72	No. Ft. Surface Cable Conduit: 4705 on Anodes 487 surface = 5192				
Drilling Log (Attach Hereto). ☐	7: 397	8: 356	9: 350	10: 230	11: 224	12: 100	
	7: 5.7	8: 39	9: 4.0	10: 35	11: 3.5	12: 5.6	

Remarks:

Rg/s 600' S = 0.78

¾" Hose to No 2 Anode Perforated All

15 lbs Borafos Circulated thru Hole -

Note Hole Caved or Boulder Fell in - Could only get to 440' -

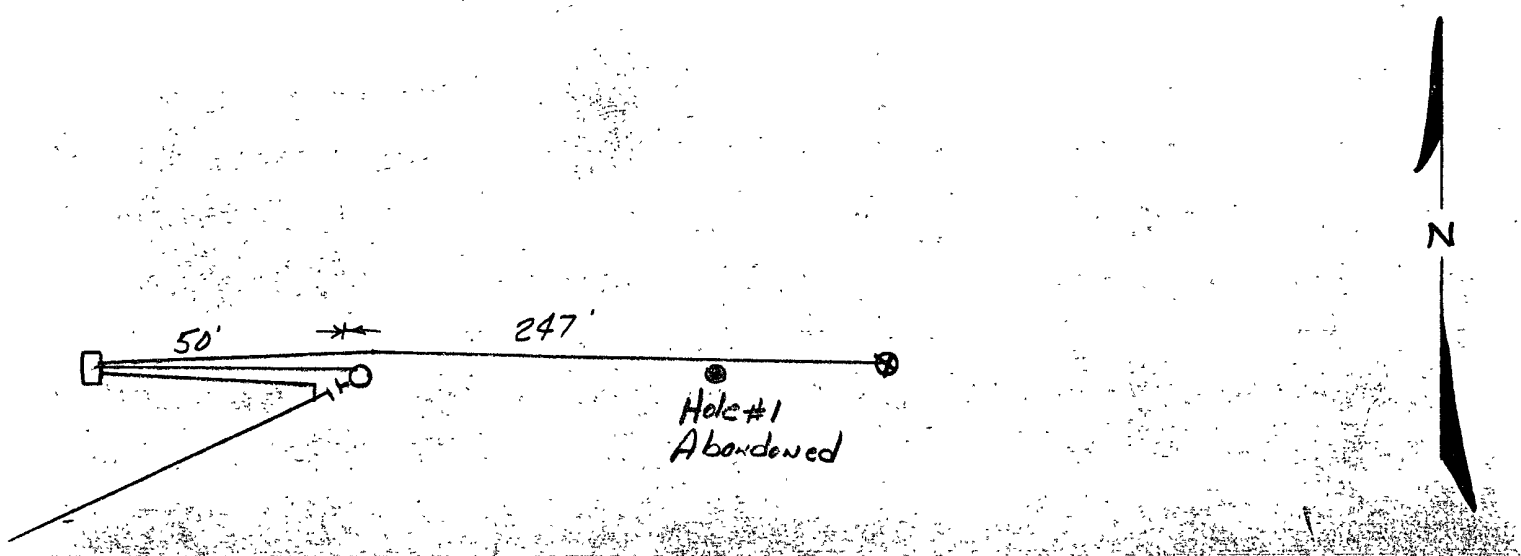
Drilled 360' Stuck Pipe, Worked 45½ Hrs. Trying to Recover, Abandoned Hole, Left 200' Drill Pipe in Hole

Moved & Drilled 500' - 59½ Hrs.

All Construction Completed

Farrels
(Signature)

GROUND BED LAYOUT SKETCH



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Form 22-3 (Rev. 1-61)

EL PASO NATURAL GAS COMPANY

DRILLING DEPARTMENT

810.W.

DAILY DRILLING REPORT

LEASE Schumacher #7 WELL NO. CONTRACTOR RIG NO. REPORT NO. DATE 19

MORNING

Driller Total Men In Crew

FROM	TO	FORMATION	WT-BIT	R.P.M.
0	60	Sand & Boulders		
60	120	Sh & Sand Strks		
120	200	Sandy		
200	260	Sandy Sh & SS.		

BIT NO 7⅞ #5517 - 260' NO. DC SIZE LENG. Wore out

BIT NO 7⅞ #5790 - 240' NO. DC SIZE LENG. Wore out

SERIAL NO. STANDS

SIZE SINGLES

TYPE DOWN ON KELLY

MAKE TOTAL DEPTH

MUD RECORD

Time	Wt.	Vis.

MUD, ADDITIVES USED AND RECEIVED

2 - mud,
15 - Barofos

FROM	TO	TIME BREAKDOWN

REMARKS –

21- Lv. 8:30 Arr. 9 Moved Rob. rigged mud. Drilled 7⅞ - 0 to 120' Lv. 6. Worked on Rig 1 hr.
22- Lv 7 Arr 7:30 Drilled from 120 to 240' Lv. Rig 5:30 PM.
23- Lv 6:30 Arr 7 Reaming from [illegible] 60 to 240. Drilled from 240 to 390' Lv 5:30
24- Lv 6:30 Arr 7 Reamed from 180 to 390 Drilled from 390 to 470' Lv 5:30
25- Lv 6:30 - Arr 7 Washing from 180 to 470' Drilled from 470 to 500' Rimmed down Lv 5:00

DAYLIGHT

Driller Total Men In Crew

FROM	TO	FORMATION	WT-BIT	R.P.M.
260	280	SS. & Sandy Sh.		
280	320	SS. & Sand - 40 RD.		
320	440	Sandy Sh & SS.		
440	500	Sh.		

BIT NO. NO. DC SIZE LENG.

BIT NO. NO. DC SIZE LENG.

SERIAL NO. STANDS

SIZE SINGLES

TYPE DOWN ON KELLY

MAKE TOTAL DEPTH

MUD RECORD

Time	Wt.	Vis.
	10 - 21 -	
	10 - 22	
	10 - 23	
	10 - 24	
	10 - 25	
From page 1		

MUD, ADDITIVES USED AND RECEIVED

8
10
10½
10½
10½
49½
10
59½

FROM	TO	TIME BREAKDOWN

REMARKS –

EVENING

Driller Total Men In Crew

FROM	TO	FORMATION	WT-BIT	R.P.M.
Page 2 of 2				

BIT NO. NO. DC SIZE LENG.

BIT NO. NO. DC SIZE LENG.

SERIAL NO. STANDS

SIZE SINGLES

TYPE DOWN ON KELLY

MAKE TOTAL DEPTH

MUD RECORD

Time	Wt.	Vis.
Fish Time		
From page 1		

MUD, ADDITIVES USED AND RECEIVED

45½

FROM	TO	TIME BREAKDOWN

REMARKS –

SIGNED: Toolpusher Company Supervisor Farrell

Form 22-2 (Rev. 1-61)

EL PASO NATURAL GAS COMPANY
DRILLING DEPARTMENT

DAILY DRILLING REPORT

810 W

LEASE Schumacher #7 WELL NO. CONTRACTOR RIG NO. REPORT NO. DATE 19

MORNING

Driller Total Men In Crew

FROM	TO	FORMATION	WT-BIT	R.P.M.
0	60	Sand & Boulders		
60	80	Sh - with water		
80	180	SS & Sh [illegible]		
180	235	Sand & SS [illegible]		

#66 4¾ [illegible] 360' [illegible] NO. DC SIZE LENG.
BIT NO. NO. DC SIZE LENG.
SERIAL NO. 7/8 0-360 [illegible] STANDS
SIZE SINGLES
TYPE DOWN ON KELLY
MAKE TOTAL DEPTH

MUD RECORD Time	Wt.	Vis.	MUD, ADDITIVES USED AND RECEIVED
			3 [illegible]
			1 [illegible]

FROM	TO	TIME BREAKDOWN

REMARKS –

10-11 - 4 PM To 6[30] PM. [illegible] & Drilling 0 to 180'.
10-14 - Lv. 6[30] AM 7 AM. Drilled 180 to 360 stuck pipe 2[30] PM to 7 PM trying to get pipe loose.
10-15 - 7 Lv 7 AM 7[30] Drilling [illegible] Stuck pipe 4½ - 0-360' [illegible] stuck pipe Lv. 7 PM
10-16 - Lv. 7 AM 7[30] Drilling [illegible] stuck pipe 7⅞ [illegible] 0-200 waiting on 6 loads water Lv. 5[30]
10-17 - Lv 7 AM 7[30] Getting water [illegible] from 20 to 200. Drilled from 200 to 340. Lv. 5
10-18 Waiting on Rig
10-19 Lv. 7 AM 7[30] Getting water & Drilling [illegible] Stuck pipe [illegible] pipe off. lost 200' of pipe
Lv 5[30] PM.

DAYLIGHT

Driller Total Men In Crew

FROM	TO	FORMATION	WT-BIT	R.P.M.
235	250	Sh		
250	360	S.S. & Sandy Sh		

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

MUD RECORD Time	Wt.	Vis.	MUD, ADDITIVES USED AND RECEIVED	
			DRILL	FISHING
	10-11 -		2½ hr.	
	10-14 -		7½	4½
	10-15 -			11½
	10-16 -			10

FROM	TO	TIME BREAKDOWN	
10-17 -			9½
10-18		waiting on Rig	
10-19			10
		10	45½

REMARKS –

EVENING

Driller Total Men In Crew

FROM	TO	FORMATION	WT-BIT	R.P.M.

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

MUD RECORD Time	Wt.	Vis.	MUD, ADDITIVES USED AND RECEIVED
			Page 1 OF 2

FROM	TO	TIME BREAKDOWN

REMARKS –

SIGNED: Toolpusher ______ Company Supervisor Harrels

#5 → 30-045-09552
#1A → 30-045-26639

4900

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

Operator MERIDIAN OIL Location: Unit NW Sec. 17 Twp 30 Rng 10

Name of Well/Wells or Pipeline Serviced SCHUMACHER #5, #1A

cps 809w

Elevation 6386' Completion Date 10/11/68 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. 240'

Depths gas encountered: N/A

Type & amount of coke breeze used: 7320 lbs.

Depths anodes placed: 369', 363', 317', 311', 305', 299', 293', 287', 281', 275', 26
2

Depths vent pipes placed: 369' OF 3/4" HOSE

Vent pipe perforations: 340'

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.

El Paso Natural Gas Company

Form 7-238 (7-63)

WELL CASING

CATHODIC PROTECTION CONSTRUCTION REPORT

DAILY LOG

Insert #6 to 260'

Date 10-11-68

Well Name: Schumacher #5					CPS No.: 809w	
Location: NW 17-30-10					Work Order No.: 184-52231-50-20	
Anode Hole Depth: 400	Total Drilling Rig Time: 28½ Hrs	Type & Size Bit Used: 7⅞ 842183 = 402			No. Sacks Mud Used: 1	
No. Sacks Lost Circulation Mat'l Used: 0	Anode Depth #1: 369	#2: 363	#3: 317	#4: 311	#5: 305	#6: 299
Total Lbs. Coke Used: 7320	Anode Output (Volts) #1: 3.4	#2: 3.7	#3: 3.7	#4: 4.3	#5: 5.3	#6: 6.0
Total Circuit Resistance: Volts 11.2	Amps 15.5	Ohms 0.72	No. Ft. Surface Cable Conduit: 223 on Hwy 404 Surface 4256			

Drilling Log (Attach Hereto). ☐

7 293	8 287	9 281	10 275	11 269	12 263
7 6.2	8 6.1	9 5.4	10 5.5	11 5.5	12 4.6

Remarks:

1½ 600' NE ^ →

¾" Hose to No. 1 Anode Perforated 340'

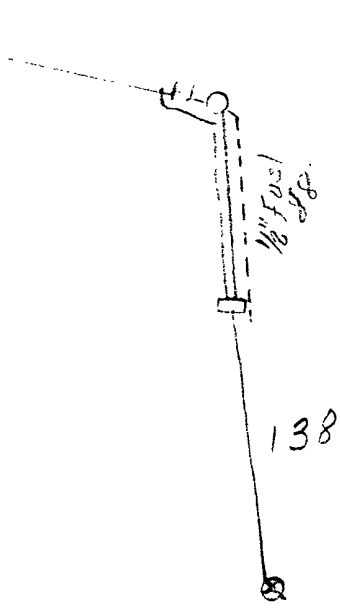
50 lbs Bentonite

All Construction Completed

Farrels

(Signature)

GROUND BED LAYOUT SKETCH



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Form 22-2 (Rev. 1-61)

EL PASO NATURAL GAS COMPANY
DRILLING DEPARTMENT

DAILY DRILLING REPORT

LEASE Schumacher WELL NO. #5-809W CONTRACTOR W.A. Ivy RIG NO. 7 REPORT NO. DATE 19

MORNING

Driller / Total Men In Crew

FROM	TO	FORMATION	WT-BIT	R.P.M.
0	155	Sand		
155	165	Sh DRY		
165	240	Blue Sand + Sh	St. DAMP	
240	260	Sh Water		

Gyrect 4 3/4 / #66

BIT NO. 2 7 7/8 RB
SERIAL NO. 842-183
SIZE 400'
TYPE
MAKE

NO. DC ___ SIZE ___ LENG. ___
NO. DC ___ SIZE ___ LENG. ___
STANDS
SINGLES
DOWN ON KELLY
TOTAL DEPTH

Time	Wt.	Vis.	MUD, ADDITIVES USED AND RECEIVED
			1 - mud
			50# Barafos

FROM	TO	TIME BREAKDOWN

REMARKS – 10-9 – Moving from Schumacher #4 to #5 10:30 A.M. Drilling Rat Hole. Drilling 4 3/4 hole 0-260' Pulling out of hole Put on 7 7/8 RB. Reamed 0 to 100' Waiting on water 0-Lv. 6:30 AV. 7 Going after water going in hole Reaming from 100 to 288 Drilling 280-320 with 7 7/8 RB. hauling water to thin mud Down 6:30 pm. to 7 PM Pulling 11-Lv 7. AV. 7:30 Running in hole had to get 2 load water to fill hole Drilling f 320 to 400 Sandstone + Sandy Shale. hauling water to flush hole. Left location 4 A.M.

DAYLIGHT

Driller Total Men In Crew

FROM	TO	FORMATION	WT-BIT	R.P.M.
260	280	Sh. + S.S.		
280	340	Sh.		
340	400	S.S. + Sandy Sh.		

BIT NO.
SERIAL NO.
SIZE
TYPE
MAKE

NO. DC ___ SIZE ___ LENG. ___
NO. DC ___ SIZE ___ LENG. ___
STANDS
SINGLES
DOWN ON KELLY
TOTAL DEPTH

Time	Wt.	Vis.	MUD, ADDITIVES USED AND RECEIVED
			10-9-68 - 8 hr.
			10/10 12 hr.
			10-11 - 8 1/2 hr.

FROM	TO	TIME BREAKDOWN
		28 1/2 Hrs

EVENING

Driller Total Men In Crew

FROM	TO	FORMATION	WT-BIT	R.P.M.

BIT NO.
SERIAL NO.
SIZE
TYPE
MAKE

NO. DC ___ SIZE ___ LENG. ___
NO. DC ___ SIZE ___ LENG. ___
STANDS
SINGLES
DOWN ON KELLY
TOTAL DEPTH

Time	Wt.	Vis.	MUD, ADDITIVES USED AND RECEIVED

FROM	TO	TIME BREAKDOWN

SIGNED: Toolpusher ______ Company Supervisor Sorrels

30-045-09447

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

Operator MERIDIAN OIL Location: Unit SW Sec. 18 Twp 30 Rng 10

Name of Well/Wells or Pipeline Serviced SCHUMACHER #3

cps 784w

Elevation 6325' Completion Date 9/5/67 Total Depth 350' 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
OIL CON. DIV.
DIST. 3

Depths gas encountered: N/A

Type & amount of coke breeze used: 5400 lbs.

Depths anodes placed: 330', 324', 300', 294', 288', 282', 276', 270', 264', 148', 14[illegible]
1[illegible]

Depths vent pipes placed: 330' OF 3/4" HOSE

Vent pipe perforations: 330'

Remarks: gb #1

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

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

30-045-09450 4901

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. 18 Twp 30 Rng 10

Name of Well/Wells or Pipeline Serviced SCHUMACHER #4

cps 808w

Elevation N/A Completion Date 10/9/68 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. N/A

Depths gas encountered: N/A

Type & amount of coke breeze used: 6120 lbs.

Depths anodes placed: 355', 349', 343', 337', 301', 295', 289', 283', 277', 258', 252', 23

Depths vent pipes placed: 355' OF 3/4" HOSE

Vent pipe perforations: 355'

Remarks: PLUGGED AND ABANDONED.

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.

...s Natural Gas Company

...7-238 (7-63)

WELL CASING

CATHODIC PROTECTION CONSTRUCTION REPORT

DAILY LOG

Air with Compr. Bit

Date 10-9-68

Well Name	CPS No.
Schumacher #4	808W
Location	**Work Order No.**
SE 18-30-10	184-52230-50-20

Anode Hole Depth	Total Drilling Rig Time	Type & Size Bit Used	No. Sacks Mud Used
400	32½ Hrs	7⅞ 842183 = 400	2

No. Sacks Lost Circulation Mat'l Used	Anode Depth	#1	#2	#3	#4	#5	#6
1		355	349	343	337	301	295
Total Lbs. Coke Used	**Anode Output (Volts)**	#1	#2	#3	#4	#5	#6
6120		4.4	2.7	3.0	2.4	3.7	4.9

Total Circuit Resistance			No. Ft. Surface Cable Conduit					
Volts 12.6	Amps 15.5	Ohms 0.81	3816 on Anodes 375 Surface 4191					
Drilling Log (Attach Hereto) ☐	7 289	8 283	9 277	10 258	11 252	12 237		
Remarks:	7 5.0	8 5.1	9 3.6	10 3.4	11 3.3	12 3.0		

Rs 600' NE = 0.76

¾" Hose to No. 1 Anode, Perforated All

100 lbs Barafos

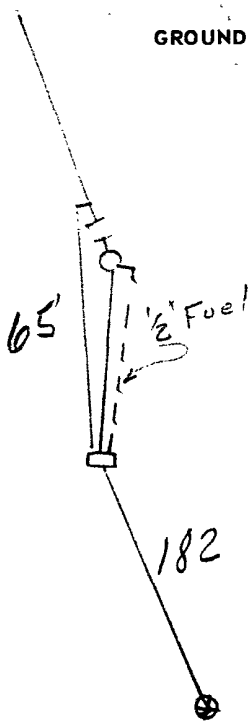
Note - No's 2, 3 & 4 Anode Did Not Respond to Coke -

All Construction Completed

(Signature)

Plugged & Abandoned

GROUND BED LAYOUT SKETCH



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Form 22-2 (Rev. 1-61)

EL PASO NATURAL GAS COMPANY
DRILLING DEPARTMENT

DAILY DRILLING REPORT

8080

LEASE Schumacher WELL NO. 4 CONTRACTOR W.A. Ivy Dlg. RIG NO. 7 REPORT NO. DATE 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.
0	75	S.S. with few Sh d.			180	220	Sand + Sandy Sh.							
75	83	Sh			220	320	White S.S. + Sh w.							
83	140	S.S. + Sh w.			320	330	S.S. + Sh							
140	180	Sh Damp @ 130'			330	400	Sh							
BIT NO. 7 7/8 H.B.		NO. DC SIZE LENG.			BIT NO.		NO. DC SIZE LENG.			BIT NO.		NO. DC SIZE LENG.		
SER' NO. 842-183		NO. DC SIZE LENG.			SERIAL NO.		STANDS			SERIAL NO.		STANDS		
SIZE		STANDS			SIZE		SINGLES			SIZE		SINGLES		
TYPE		SINGLES			TYPE		DOWN ON KELLY			TYPE		DOWN ON KELLY		
MAKE		DOWN ON KELLY			MAKE		TOTAL DEPTH			MAKE		TOTAL DEPTH		
		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
		2- mud	10-6-68		4½ Rs.			
		1- Rolls,	10-7-68		12 Rs.			
		1- Baloco, thinner	10-8-68		13 Rs.			
			10-9-68		3 Rs.			
					32½ Hrs.			

REMARKS –

10-6 Moving to new location from 2:30 till 3 PM. Drilling from 3 PM till with 4¾
10-7 Av. 6:30 AM. Setting water Drilling with 4¾ from 180 to 320 Pulled out of hole Run 7⅞ HB Reaming Dr
missing mud hauled 5 loads water 2 4 6:30 PM
10-8 Av. 7 AM. Running Repairing hole Washing Pipe in from 160. 300 Drilling
+ Waiting on water to Clean hole from 4 PM to 8 PM. Fishing for Rig
10-9 Av. 7:30 Setting water Washing hole till 10:30 AM. Moving to new location

REMARKS – Left Rig 7 PM

SIGNED: Toolpusher _____ Company Supervisor Darrels

30-045-09480

5169

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

Operator MERIDIAN OIL Location: Unit SW Sec. 18 Twp 30 Rng 10

Name of Well/Wells or Pipeline Serviced SCHUMACHER #11

cps 783w

Elevation 6272' Completion Date 8/31/67 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. 100'

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MAY 31 1991
OIL CON. DIV.
DIST. 3

Depths gas encountered: N/A

Type & amount of coke breeze used: 6100 lbs.

Depths anodes placed: 334', 328', 322', 316', 286', 250', 244', 238', 232', 226', 220', 214'

Depths vent pipes placed: 334' OF 3/4" HOSE

Vent pipe perforations: 334'

Remarks: gb #1

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

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

El Paso Natural Gas Company

Form 7-238 (7-63)

WELL CASING

CATHODIC PROTECTION CONSTRUCTION REPORT

DAILY LOG

Date 8-31-67

Well Name: Schumacher No. 11									CPS No.: 783-W		
Location: S.W. 18-30-10									Work Order No.: 184-54051-50-20		
Anode Hole Depth: 360	Total Drilling Rig Time: 27½	Type & Size Bit Used: 7⅞-89174 = 140-984780 = 220							No. Sacks Mud Used: 0		
No. Sacks Lost Circulation Mat'l Used: 0	Anode Depth	#1 334	#2 328	#3 322	#4 316	#5 286	#6 250				
Total Lbs. Coke Used: 6100	Anode Output (Volts)	#1 5.3	#2 5.8	#3 5.8	#4 5.6	#5 4.5	#6 5.6				
Total Circuit Resistance: Volts 11.0	Amps 18.0	Ohms 0.61	No. Ft. Surface Cable Conduit: 240' Surface 3450 on Anodes = 3690								
Drilling Log (Attach Hereto) ☐	7 244	8 238	9 232	10 226	11 220	12 214					
Remarks:	7 6.5	8 6.2	9 6.3	10 6.0	11 5.7	12 6.0					

R.G/S 600' W = 0.78

¾" Hose to No. 1 Anode Perforated All

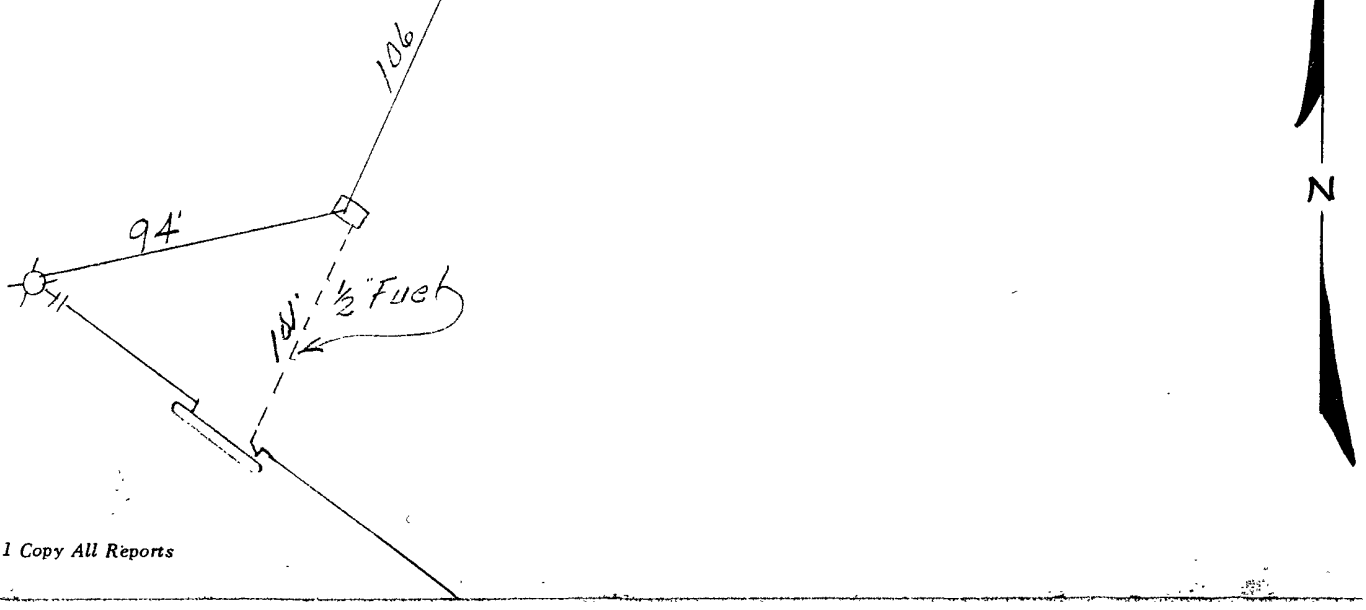
15 lbs Barofos Circ. Thru. Hole

All Construction Completed

Darrels

(Signature)

GROUND BED LAYOUT SKETCH



Original & 1 Copy All Reports

Lease no. 54-120'

DRILLING DEPARTMENT

DAILY DRILLING REPORT

LEASE | WELL NO. 783 W | CONTRACTOR Howard Drlg | RIG NO. | REPORT NO. | DATE 19

MORNING

Driller | Total Men In Crew

FROM	TO	FORMATION	WT. BIT	R.P.M.
0	120	SS		
120	160	SH		
160	210	SS		
210	255	SH		

BIT NO. 89174 | NO. DC | SIZE | LENG. 140 | NO. DC | SIZE | LENG.
SERIAL NO. | STANDS
SIZE | SINGLES
TYPE | DOWN ON KELLY
MAKE | TOTAL DEPTH

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

FROM	TO	TIME BREAKDOWN
		Lift Light Creation 3:30
		worked on rig
		water at 100'

REMARKS –
8-29-67 Lift yard at 600 Arrived rig at 700 Drilled 5 7/8 pilot hole + 120' 4 1/2 Jarsect + 140 Drill 7 7/8 Lift Brigat 500
8-30-67 Lift yard at 600 Arrived rig at 700 Drilled 160' Lifting at 500
8-31-67 Lift yard at 600 Arrived rig at 700 Drilled 80' + rigged down Lift Location 3:30 PM

DAYLIGHT

Driller | Total Men In Crew

FROM	TO	FORMATION	WT. BIT	R.P.M.
255	310	SS		
310	335	SH		
335	350	SS		
350	360	SH		

BIT NO. 98 4780 | NO. DC | SIZE | LENG. 280' | NO. DC | SIZE | LENG.
SERIAL NO. | STANDS
SIZE | SINGLES
TYPE | DOWN ON KELLY
MAKE | TOTAL DEPTH

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

FROM	TO	TIME BREAKDOWN
8-29-67		10 hrs
8-30-67		10 hrs
8-31-67		7 1/2
		27 1/2

REMARKS –

EVENING

Driller | Total Men In Crew

FROM	TO	FORMATION	WT. BIT	R.P.M.

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

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

FROM	TO	TIME BREAKDOWN

REMARKS –

SIGNED: Toolpusher _____ Company Supervisor Howard

#6 30-045-09555

#10 30-045-09547 4728

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

Operator MERIDIAN OIL Location: Unit A Sec. 18 Twp 30 Rng 10

Name of Well/Wells or Pipeline Serviced SCHUMACHER #6, #10

cps 208w

Elevation 6320' Completion Date 5/20/63 Total Depth 180' 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

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MAY 31 1991
OIL CON. D
DIST. 3

Depths gas encountered: N/A

Type & amount of coke breeze used: 1275 lbs.

Depths anodes placed: 156', 150', 144', 138', 132', 126', 120', 114'

Depths vent pipes placed: N/A

Vent pipe perforations: N/A

Remarks: gb #1 ANODES #1-#4 MADE UP WITH 8lb. SOLID DIRECT BURIAL CABLE.

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.

2564

30-045-26459

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

Operator MERIDIAN OIL INC. Location: Unit P Sec. 18 Twp 30 Rng 10

Name of Well/Wells or Pipeline Serviced SCHUMACHER #10A

cps 1920w

Elevation 6419' Completion Date 12/10/87 Total Depth 540' 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. 180' NO SAMPLE

Depths gas encountered: N/A

Type & amount of coke breeze used: N/A

Depths anodes placed: 485', 465', 455', 445', 435', 425', 415', 405', 395', 385'

Depths vent pipes placed: 525'

Vent pipe perforations: 320'

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.

ENSOLUM

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: N53923

2. Originating Site:
Stewart LS#5

3. Location of Material (Street Address, City, State or ULSTR):
UL M Section 20 T30N R10W; 36.79111574, -107.91407303

May 26, 2021 — July 7, 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 20 yd³ / bbls Known Volume (to be entered by the operator at the end of the haul) 564/55 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) 5-25-2021, 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: Riley Industrial

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: 5/26/21
SIGNATURE: _____ TELEPHONE NO.: 505-632-0615
Surface Waste Management Facility Authorized Agent

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APPENDIX D

Photographic Documentation

SITE PHOTOGRAPHS

Closure Report
Enterprise Field Services, LLC
Stewart LS#5 (5/21/21)
Ensolum Project No. 05A1226148

ENSOLUM

Photograph 1 Photograph Description: View of the initial excavation activities.	
Photograph 2 Photograph Description: View of in-process excavation activities.	
Photograph 3 Photograph Description: View of in-process excavation activities.	

SITE PHOTOGRAPHS

Closure Report
Enterprise Field Services, LLC
Stewart LS#5 (5/21/21)
Ensolum Project No. 05A1226148

ENSOLUM

Photograph 4 Photograph Description: View of the final excavation before the removal of soil under the pipeline.	
Photograph 5 Photograph Description: View of the final excavation after the removal of soil under the pipeline.	
Photograph 6 Photograph Description: View of the site after initial restoration.	

ENSOLUM

APPENDIX E

Regulatory Correspondence

From: Smith, Cory, EMNRD
To: Long, Thomas; rjoyner@blm.gov
Cc: Stone, Brian
Subject: [EXTERNAL] RE: Stewart LS#5 - UL M Section 20 T30N R10W; 36.79111574, -107.91407303
Date: Thursday, June 17, 2021 12:22:11 PM

[Use caution with links/attachments]

All,

OCD is ok with the truncated sampling schedule so long as the surface owner is ALSO ok with sampling today.

Thanks,

Cory Smith • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
1000 Rio Brazos | Aztec, NM 87410
505.334.6178 x115 | Cory.Smith@state.nm.us
http://www.emnrd.state.nm.us/OCD/

From: Long, Thomas <tjlong@eprod.com>
Sent: Thursday, June 17, 2021 7:58 AM
To: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>; rjoyner@blm.gov
Cc: Stone, Brian <bmstone@eprod.com>
Subject: [EXT] FW: Stewart LS#5 - UL M Section 20 T30N R10W; 36.79111574, -107.91407303

Cory/Roy,

Please find the attached site sketch and lab report for the Stewart LS#5 excavation. All sample results are below the NMOCD Tier I soil remediation standards except for S-24 with a TPH result of 220 ppm TPH. Enterprise is continue remediation in this area and is requesting variance on the Sample Notification. Entperise would like to collect the final sample today if possible. Please acknowledge acceptance of this variance request. If you have any questions, please all 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

Enterprise Products

From: Long, Thomas
Sent: Monday, June 14, 2021 7:17 AM
To: 'Smith, Cory, EMNRD (Cory.Smith@state.nm.us)' <Cory.Smith@state.nm.us>; 'rjoyner@blm.gov' <rjoyner@blm.gov>
Cc: Stone, Brian <bmstone@eprod.com>
Subject: RE: Stewart LS#5 - UL M Section 20 T30N R10W; 36.79111574, -107.91407303

Cory/Roy,

Please find the attached site sketch and lab report for the Stewart LS#5. To date all soil samples are below the NMOCD Tier I standards. This email is also a notification that Enterprise will be collecting soil samples for laboratory analysis tomorrow Tuesday, June 15, 2012 at 10:00 a.m. If you have any questions, please call or email.

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

Enterprise Products

From: Long, Thomas
Sent: Wednesday, June 9, 2021 8:07 AM
To: 'Smith, Cory, EMNRD (Cory.Smith@state.nm.us)' <Cory.Smith@state.nm.us>; 'rjoyner@blm.gov' <rjoyner@blm.gov>
Cc: Stone, Brian <bmstone@eprod.com>
Subject: Stewart LS#5 - UL M Section 20 T30N R10W; 36.79111574, -107.91407303

Cory/Ryan,

The email is a notification that Enterprise will be collecting soil samples for laboratory analysis at the Stewart LS#5 excavation tomorrow June 10, 2021 at 1:00 p.m. If you have any questions, please call or email.

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

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APPENDIX F

Table 1 – Soil Analytical Summary

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TABLE 1
Steward LS#5 (5/21/21)
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 Sample Removed by Excavation and Transported to the Landfarm for Disposal/Remediation													
S-24	6.15.21	C	3.5 to 8.5	<0.085	<0.17	0.24	3.1	3.3	110	110	<46	**220**	150
Excavation Composite Soil Samples													
S-1	6.10.21	C	0 to 5	<0.017	<0.034	<0.034	0.13	0.13	<3.4	<9.9	<50	ND	250
S-2	6.10.21	C	2 to 5	<0.018	<0.037	<0.037	<0.073	ND	<3.7	<9.4	<47	ND	<60
S-3	6.10.21	C	2	<0.076	<0.15	<0.15	<0.30	ND	<15	12	<50	12	<60
S-4	6.10.21	C	5 to 12	<0.014	<0.029	<0.029	<0.057	ND	<2.9	<8.6	<43	ND	69
S-5	6.10.21	C	12 to 14	<0.015	<0.030	<0.030	<0.059	ND	<3.0	<9.6	<48	ND	<60
S-6	6.10.21	C	8 to 14	<0.016	<0.033	<0.033	<0.066	ND	<3.3	<8.9	<45	ND	71
S-7	6.10.21	C	2 to 7	<0.017	<0.035	<0.035	<0.070	ND	<3.5	<8.1	<40	ND	98
S-8	6.10.21	C	0 to 7	<0.016	<0.031	<0.031	<0.063	ND	<3.1	<7.5	<38	ND	120
S-9	6.10.21	C	2 to 7	<0.019	<0.038	<0.038	<0.076	ND	<3.8	<8.1	<40	ND	110
S-10	6.10.21	C	0 to 8	<0.018	<0.035	<0.035	0.10	0.10	<3.5	<8.8	<44	ND	170
S-11	6.10.21	C	0 to 12	<0.016	<0.032	<0.032	<0.064	ND	<3.2	9.9	<47	9.9	65
S-12	6.10.21	C	0 to 2	<0.016	<0.032	<0.032	<0.064	ND	<3.2	36	<43	36	<60
S-13	6.10.21	C	0 to 8	<0.015	<0.030	<0.030	0.10	0.10	<3.0	<9.9	<50	ND	170
S-14	6.10.21	C	0 to 8	<0.019	<0.037	<0.037	0.12	0.12	<3.7	<9.4	<47	ND	240
S-15	6.15.21	C	8	<0.016	<0.033	<0.033	<0.066	ND	<3.3	<7.6	<38	ND	<60
S-16	6.15.21	C	5 to 9	<0.018	<0.037	<0.037	<0.073	ND	<3.7	<8.8	<44	ND	<60
S-17	6.15.21	C	4 to 5	<0.017	<0.034	<0.034	<0.068	ND	<3.4	<9.2	<46	ND	92
S-18	6.15.21	C	0 to 4	<0.017	<0.035	<0.035	<0.070	ND	<3.5	<9.7	<48	ND	<60
S-19	6.15.21	C	0 to 5	<0.017	<0.034	<0.034	<0.069	ND	<3.4	<9.3	<47	ND	<60
S-20	6.15.21	C	0 to 9	<0.017	<0.035	<0.035	<0.070	ND	<3.5	<9.3	<47	ND	240
S-21	6.15.21	C	0 to 9	<0.017	<0.034	<0.034	<0.068	ND	<3.4	<9.0	<45	ND	170
S-22	6.15.21	C	0 to 9	<0.081	<0.16	<0.16	<0.32	ND	<16	14	<43	14	150
S-23	6.15.21	C	8.5 to 14	<0.017	0.13	0.083	0.95	1.2	15	32	<44	47	86
S-25	7.07.21	C	4 to 9	<0.021	<0.041	<0.041	0.11	0.11	<4.1	<9.6	<48	ND	74

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 (PQLs) or Reporting Limits (RLs)

NA = Not Analyzed

NE = Not established

mg/kg = milligram per kilogram

BTEX = Benzene, Toluene, Ethylbenzene, and Xylenes

TPH = Total Petroleum Hydrocarbons

GRO = Gasoline Range Organics

DRO = Diesel Range Organics

MRO = Motor Oil/Lube Oil Range Organics

ENSOLUM

APPENDIX G

Laboratory Data Sheets & Chain of Custody Documentation

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

June 16, 2021

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

RE: Stewart LS 5 OrderNo.: 2106650

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 14 sample(s) on 6/11/2021 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2106650**
Date Reported: **6/16/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-1
Project: Stewart LS 5 **Collection Date:** 6/10/2021 10:30:00 AM
Lab ID: 2106650-001 **Matrix:** MEOH (SOIL) **Received Date:** 6/11/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	250	59		mg/Kg	20	6/11/2021 9:36:00 AM	60573
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/11/2021 11:09:30 AM	60572
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/11/2021 11:09:30 AM	60572
Surr: DNOP	104	70-130		%Rec	1	6/11/2021 11:09:30 AM	60572
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.4		mg/Kg	1	6/11/2021 8:47:55 AM	G79040
Surr: BFB	112	70-130		%Rec	1	6/11/2021 8:47:55 AM	G79040
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.017		mg/Kg	1	6/11/2021 8:47:55 AM	B79040
Toluene	ND	0.034		mg/Kg	1	6/11/2021 8:47:55 AM	B79040
Ethylbenzene	ND	0.034		mg/Kg	1	6/11/2021 8:47:55 AM	B79040
Xylenes, Total	0.13	0.068		mg/Kg	1	6/11/2021 8:47:55 AM	B79040
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	6/11/2021 8:47:55 AM	B79040

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

Qualifiers:

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

Analytical Report
Lab Order **2106650**
Date Reported: **6/16/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-2
Project: Stewart LS 5 **Collection Date:** 6/10/2021 10:35:00 AM
Lab ID: 2106650-002 **Matrix:** MEOH (SOIL) **Received Date:** 6/11/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	ND	60		mg/Kg	20	6/11/2021 9:48:24 AM	60573
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	6/11/2021 11:33:25 AM	60572
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/11/2021 11:33:25 AM	60572
Surr: DNOP	105	70-130		%Rec	1	6/11/2021 11:33:25 AM	60572
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	6/11/2021 9:11:42 AM	G79040
Surr: BFB	108	70-130		%Rec	1	6/11/2021 9:11:42 AM	G79040
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.018		mg/Kg	1	6/11/2021 9:11:42 AM	B79040
Toluene	ND	0.037		mg/Kg	1	6/11/2021 9:11:42 AM	B79040
Ethylbenzene	ND	0.037		mg/Kg	1	6/11/2021 9:11:42 AM	B79040
Xylenes, Total	ND	0.073		mg/Kg	1	6/11/2021 9:11:42 AM	B79040
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	6/11/2021 9:11:42 AM	B79040

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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2106650**
Date Reported: **6/16/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-3
Project: Stewart LS 5 **Collection Date:** 6/10/2021 10:40:00 AM
Lab ID: 2106650-003 **Matrix:** MEOH (SOIL) **Received Date:** 6/11/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	ND	60		mg/Kg	20	6/11/2021 10:00:49 AM	60573
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	12	9.9		mg/Kg	1	6/11/2021 11:57:20 AM	60572
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/11/2021 11:57:20 AM	60572
Surr: DNOP	103	70-130		%Rec	1	6/11/2021 11:57:20 AM	60572
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	15		mg/Kg	5	6/11/2021 9:35:15 AM	G79040
Surr: BFB	114	70-130		%Rec	5	6/11/2021 9:35:15 AM	G79040
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.076		mg/Kg	5	6/11/2021 9:35:15 AM	B79040
Toluene	ND	0.15		mg/Kg	5	6/11/2021 9:35:15 AM	B79040
Ethylbenzene	ND	0.15		mg/Kg	5	6/11/2021 9:35:15 AM	B79040
Xylenes, Total	ND	0.30		mg/Kg	5	6/11/2021 9:35:15 AM	B79040
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	5	6/11/2021 9:35:15 AM	B79040

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

Qualifiers:

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

Analytical Report
Lab Order **2106650**
Date Reported: **6/16/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-4
Project: Stewart LS 5 **Collection Date:** 6/10/2021 10:45:00 AM
Lab ID: 2106650-004 **Matrix:** MEOH (SOIL) **Received Date:** 6/11/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	69	60		mg/Kg	20	6/11/2021 10:13:13 AM	60573
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	8.6		mg/Kg	1	6/11/2021 12:21:12 PM	60572
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	6/11/2021 12:21:12 PM	60572
Surr: DNOP	103	70-130		%Rec	1	6/11/2021 12:21:12 PM	60572
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	2.9		mg/Kg	1	6/11/2021 9:58:47 AM	G79040
Surr: BFB	110	70-130		%Rec	1	6/11/2021 9:58:47 AM	G79040
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.014		mg/Kg	1	6/11/2021 9:58:47 AM	B79040
Toluene	ND	0.029		mg/Kg	1	6/11/2021 9:58:47 AM	B79040
Ethylbenzene	ND	0.029		mg/Kg	1	6/11/2021 9:58:47 AM	B79040
Xylenes, Total	ND	0.057		mg/Kg	1	6/11/2021 9:58:47 AM	B79040
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	6/11/2021 9:58:47 AM	B79040

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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2106650**
Date Reported: **6/16/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-5
Project: Stewart LS 5 **Collection Date:** 6/10/2021 10:50:00 AM
Lab ID: 2106650-005 **Matrix:** MEOH (SOIL) **Received Date:** 6/11/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	ND	60		mg/Kg	20	6/11/2021 10:25:38 AM	60573
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	6/11/2021 12:45:08 PM	60572
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/11/2021 12:45:08 PM	60572
Surr: DNOP	102	70-130		%Rec	1	6/11/2021 12:45:08 PM	60572
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.0		mg/Kg	1	6/11/2021 10:22:19 AM	G79040
Surr: BFB	113	70-130		%Rec	1	6/11/2021 10:22:19 AM	G79040
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.015		mg/Kg	1	6/11/2021 10:22:19 AM	B79040
Toluene	ND	0.030		mg/Kg	1	6/11/2021 10:22:19 AM	B79040
Ethylbenzene	ND	0.030		mg/Kg	1	6/11/2021 10:22:19 AM	B79040
Xylenes, Total	ND	0.059		mg/Kg	1	6/11/2021 10:22:19 AM	B79040
Surr: 4-Bromofluorobenzene	106	70-130		%Rec	1	6/11/2021 10:22:19 AM	B79040

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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2106650**
Date Reported: **6/16/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-6
Project: Stewart LS 5 **Collection Date:** 6/10/2021 10:55:00 AM
Lab ID: 2106650-006 **Matrix:** MEOH (SOIL) **Received Date:** 6/11/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	71	60		mg/Kg	20	6/11/2021 11:02:51 AM	60573
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	6/11/2021 10:17:48 AM	60572
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	6/11/2021 10:17:48 AM	60572
Surr: DNOP	162	70-130	S	%Rec	1	6/11/2021 10:17:48 AM	60572
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.3		mg/Kg	1	6/11/2021 10:46:02 AM	G79040
Surr: BFB	112	70-130		%Rec	1	6/11/2021 10:46:02 AM	G79040
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.016		mg/Kg	1	6/11/2021 10:46:02 AM	B79040
Toluene	ND	0.033		mg/Kg	1	6/11/2021 10:46:02 AM	B79040
Ethylbenzene	ND	0.033		mg/Kg	1	6/11/2021 10:46:02 AM	B79040
Xylenes, Total	ND	0.066		mg/Kg	1	6/11/2021 10:46:02 AM	B79040
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	1	6/11/2021 10:46:02 AM	B79040

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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2106650**
Date Reported: **6/16/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-7
Project: Stewart LS 5 **Collection Date:** 6/10/2021 11:00:00 AM
Lab ID: 2106650-007 **Matrix:** MEOH (SOIL) **Received Date:** 6/11/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	98	59		mg/Kg	20	6/11/2021 11:15:16 AM	60573
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	8.1		mg/Kg	1	6/11/2021 10:42:02 AM	60572
Motor Oil Range Organics (MRO)	ND	40		mg/Kg	1	6/11/2021 10:42:02 AM	60572
Surr: DNOP	91.6	70-130		%Rec	1	6/11/2021 10:42:02 AM	60572
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	6/11/2021 11:09:34 AM	G79040
Surr: BFB	112	70-130		%Rec	1	6/11/2021 11:09:34 AM	G79040
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.017		mg/Kg	1	6/11/2021 11:09:34 AM	B79040
Toluene	ND	0.035		mg/Kg	1	6/11/2021 11:09:34 AM	B79040
Ethylbenzene	ND	0.035		mg/Kg	1	6/11/2021 11:09:34 AM	B79040
Xylenes, Total	ND	0.070		mg/Kg	1	6/11/2021 11:09:34 AM	B79040
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	1	6/11/2021 11:09:34 AM	B79040

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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2106650**
Date Reported: **6/16/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-8
Project: Stewart LS 5 **Collection Date:** 6/10/2021 11:05:00 AM
Lab ID: 2106650-008 **Matrix:** MEOH (SOIL) **Received Date:** 6/11/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	120	60		mg/Kg	20	6/11/2021 11:27:41 AM	60573
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	7.5		mg/Kg	1	6/11/2021 11:06:24 AM	60572
Motor Oil Range Organics (MRO)	ND	38		mg/Kg	1	6/11/2021 11:06:24 AM	60572
Surr: DNOP	92.3	70-130		%Rec	1	6/11/2021 11:06:24 AM	60572
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.1		mg/Kg	1	6/11/2021 11:33:08 AM	G79040
Surr: BFB	134	70-130	S	%Rec	1	6/11/2021 11:33:08 AM	G79040
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.016		mg/Kg	1	6/11/2021 11:33:08 AM	B79040
Toluene	ND	0.031		mg/Kg	1	6/11/2021 11:33:08 AM	B79040
Ethylbenzene	ND	0.031		mg/Kg	1	6/11/2021 11:33:08 AM	B79040
Xylenes, Total	ND	0.063		mg/Kg	1	6/11/2021 11:33:08 AM	B79040
Surr: 4-Bromofluorobenzene	118	70-130		%Rec	1	6/11/2021 11:33:08 AM	B79040

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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2106650**
Date Reported: **6/16/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-9
Project: Stewart LS 5 **Collection Date:** 6/10/2021 11:10:00 AM
Lab ID: 2106650-009 **Matrix:** MEOH (SOIL) **Received Date:** 6/11/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	110	60		mg/Kg	20	6/11/2021 11:40:05 AM	60573
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	8.1		mg/Kg	1	6/11/2021 11:30:42 AM	60572
Motor Oil Range Organics (MRO)	ND	40		mg/Kg	1	6/11/2021 11:30:42 AM	60572
Surr: DNOP	81.9	70-130		%Rec	1	6/11/2021 11:30:42 AM	60572
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg	1	6/11/2021 11:56:40 AM	G79040
Surr: BFB	112	70-130		%Rec	1	6/11/2021 11:56:40 AM	G79040
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.019		mg/Kg	1	6/11/2021 11:56:40 AM	B79040
Toluene	ND	0.038		mg/Kg	1	6/11/2021 11:56:40 AM	B79040
Ethylbenzene	ND	0.038		mg/Kg	1	6/11/2021 11:56:40 AM	B79040
Xylenes, Total	ND	0.076		mg/Kg	1	6/11/2021 11:56:40 AM	B79040
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	1	6/11/2021 11:56:40 AM	B79040

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

Qualifiers:

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

Analytical Report
Lab Order **2106650**
Date Reported: **6/16/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-11
Project: Stewart LS 5 **Collection Date:** 6/10/2021 11:15:00 AM
Lab ID: 2106650-010 **Matrix:** MEOH (SOIL) **Received Date:** 6/11/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	65	60		mg/Kg	20	6/11/2021 11:52:30 AM	60573
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	9.9	9.5		mg/Kg	1	6/11/2021 11:55:00 AM	60572
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/11/2021 11:55:00 AM	60572
Surr: DNOP	95.4	70-130		%Rec	1	6/11/2021 11:55:00 AM	60572
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.2		mg/Kg	1	6/11/2021 12:20:11 PM	G79040
Surr: BFB	110	70-130		%Rec	1	6/11/2021 12:20:11 PM	G79040
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.016		mg/Kg	1	6/11/2021 12:20:11 PM	B79040
Toluene	ND	0.032		mg/Kg	1	6/11/2021 12:20:11 PM	B79040
Ethylbenzene	ND	0.032		mg/Kg	1	6/11/2021 12:20:11 PM	B79040
Xylenes, Total	ND	0.064		mg/Kg	1	6/11/2021 12:20:11 PM	B79040
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	6/11/2021 12:20:11 PM	B79040

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

Qualifiers:

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

Analytical Report
Lab Order **2106650**
Date Reported: **6/16/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-12
Project: Stewart LS 5 **Collection Date:** 6/10/2021 11:20:00 AM
Lab ID: 2106650-011 **Matrix:** MEOH (SOIL) **Received Date:** 6/11/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	ND	60		mg/Kg	20	6/11/2021 12:04:56 PM	60573
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	36	8.7		mg/Kg	1	6/11/2021 12:19:18 PM	60572
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	6/11/2021 12:19:18 PM	60572
Surr: DNOP	99.9	70-130		%Rec	1	6/11/2021 12:19:18 PM	60572
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.2		mg/Kg	1	6/11/2021 1:07:19 PM	G79040
Surr: BFB	110	70-130		%Rec	1	6/11/2021 1:07:19 PM	G79040
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.016		mg/Kg	1	6/11/2021 1:07:19 PM	B79040
Toluene	ND	0.032		mg/Kg	1	6/11/2021 1:07:19 PM	B79040
Ethylbenzene	ND	0.032		mg/Kg	1	6/11/2021 1:07:19 PM	B79040
Xylenes, Total	ND	0.064		mg/Kg	1	6/11/2021 1:07:19 PM	B79040
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	6/11/2021 1:07:19 PM	B79040

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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2106650**
Date Reported: **6/16/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-13
Project: Stewart LS 5 **Collection Date:** 6/10/2021 11:25:00 AM
Lab ID: 2106650-012 **Matrix:** MEOH (SOIL) **Received Date:** 6/11/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	170	61		mg/Kg	20	6/11/2021 12:17:20 PM	60573
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/11/2021 12:43:36 PM	60572
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/11/2021 12:43:36 PM	60572
Surr: DNOP	93.8	70-130		%Rec	1	6/11/2021 12:43:36 PM	60572
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.0		mg/Kg	1	6/11/2021 1:31:00 PM	G79040
Surr: BFB	116	70-130		%Rec	1	6/11/2021 1:31:00 PM	G79040
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.015		mg/Kg	1	6/11/2021 1:31:00 PM	B79040
Toluene	ND	0.030		mg/Kg	1	6/11/2021 1:31:00 PM	B79040
Ethylbenzene	ND	0.030		mg/Kg	1	6/11/2021 1:31:00 PM	B79040
Xylenes, Total	0.10	0.061		mg/Kg	1	6/11/2021 1:31:00 PM	B79040
Surr: 4-Bromofluorobenzene	108	70-130		%Rec	1	6/11/2021 1:31:00 PM	B79040

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

Qualifiers:

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

Analytical Report
Lab Order **2106650**
Date Reported: **6/16/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-10
Project: Stewart LS 5 **Collection Date:** 6/10/2021 2:30:00 PM
Lab ID: 2106650-013 **Matrix:** MEOH (SOIL) **Received Date:** 6/11/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	170	60		mg/Kg	20	6/11/2021 12:29:44 PM	60573
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	8.8		mg/Kg	1	6/11/2021 1:08:00 PM	60572
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	6/11/2021 1:08:00 PM	60572
Surr: DNOP	98.6	70-130		%Rec	1	6/11/2021 1:08:00 PM	60572
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	6/11/2021 1:54:36 PM	G79040
Surr: BFB	116	70-130		%Rec	1	6/11/2021 1:54:36 PM	G79040
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.018		mg/Kg	1	6/11/2021 1:54:36 PM	B79040
Toluene	ND	0.035		mg/Kg	1	6/11/2021 1:54:36 PM	B79040
Ethylbenzene	ND	0.035		mg/Kg	1	6/11/2021 1:54:36 PM	B79040
Xylenes, Total	0.10	0.071		mg/Kg	1	6/11/2021 1:54:36 PM	B79040
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	1	6/11/2021 1:54:36 PM	B79040

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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2106650**
Date Reported: **6/16/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-14
Project: Stewart LS 5 **Collection Date:** 6/10/2021 3:00:00 PM
Lab ID: 2106650-014 **Matrix:** MEOH (SOIL) **Received Date:** 6/11/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	240	60		mg/Kg	20	6/11/2021 12:42:08 PM	60573
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	6/11/2021 1:32:16 PM	60572
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/11/2021 1:32:16 PM	60572
Surr: DNOP	95.0	70-130		%Rec	1	6/11/2021 1:32:16 PM	60572
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	6/11/2021 2:18:14 PM	G79040
Surr: BFB	118	70-130		%Rec	1	6/11/2021 2:18:14 PM	G79040
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.019		mg/Kg	1	6/11/2021 2:18:14 PM	B79040
Toluene	ND	0.037		mg/Kg	1	6/11/2021 2:18:14 PM	B79040
Ethylbenzene	ND	0.037		mg/Kg	1	6/11/2021 2:18:14 PM	B79040
Xylenes, Total	0.12	0.075		mg/Kg	1	6/11/2021 2:18:14 PM	B79040
Surr: 4-Bromofluorobenzene	110	70-130		%Rec	1	6/11/2021 2:18:14 PM	B79040

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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2106650**

16-Jun-21

Client: ENSOLUM

Project: Stewart LS 5

Sample ID: **MB-60573** SampType: **MBLK** TestCode: **EPA Method 300.0: Anions**

Client ID: **PBS** Batch ID: **60573** RunNo: **79021**

Prep Date: **6/11/2021** Analysis Date: **6/11/2021** SeqNo: **2772746** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-60573** SampType: **LCS** TestCode: **EPA Method 300.0: Anions**

Client ID: **LCSS** Batch ID: **60573** RunNo: **79021**

Prep Date: **6/11/2021** Analysis Date: **6/11/2021** SeqNo: **2772747** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	99.7	90	110			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2106650**

16-Jun-21

Client: ENSOLUM

Project: Stewart LS 5

Sample ID: **MB-60572** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **PBS** Batch ID: **60572** RunNo: **79023**

Prep Date: **6/11/2021** Analysis Date: **6/11/2021** SeqNo: **2772308** 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	10		10.00		101	70	130			

Sample ID: **LCS-60572** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **LCSS** Batch ID: **60572** RunNo: **79023**

Prep Date: **6/11/2021** Analysis Date: **6/11/2021** SeqNo: **2772309** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	89.2	68.9	141			
Surr: DNOP	4.7		5.000		94.0	70	130			

Sample ID: **2106650-001AMS** SampType: **MS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **S-1** Batch ID: **60572** RunNo: **79023**

Prep Date: **6/11/2021** Analysis Date: **6/11/2021** SeqNo: **2772470** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	9.3	46.51	0	101	15	184			
Surr: DNOP	4.8		4.651		103	70	130			

Sample ID: **2106650-001AMSD** SampType: **MSD** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **S-1** Batch ID: **60572** RunNo: **79023**

Prep Date: **6/11/2021** Analysis Date: **6/11/2021** SeqNo: **2772594** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	9.8	49.16	0	98.5	15	184	2.56	23.9	
Surr: DNOP	5.1		4.916		104	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 Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2106650**

16-Jun-21

Client: ENSOLUM

Project: Stewart LS 5

Sample ID: **mb** SampType: **MBLK** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS** Batch ID: **G79040** RunNo: **79040**
Prep Date: Analysis Date: **6/11/2021** SeqNo: **2773004** 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	1100		1000		113	70	130			

Sample ID: **2.5ug gro lcs** SampType: **LCS** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS** Batch ID: **G79040** RunNo: **79040**
Prep Date: Analysis Date: **6/11/2021** SeqNo: **2773005** 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	103	78.6	131			
Surr: BFB	1200		1000		125	70	130			

Sample ID: **2106650-001ams** SampType: **MS** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **S-1** Batch ID: **G79040** RunNo: **79040**
Prep Date: Analysis Date: **6/11/2021** SeqNo: **2773020** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	19	3.4	16.93	0	110	61.3	114			
Surr: BFB	890		677.1		132	70	130			S

Sample ID: **2106650-001amsd** SampType: **MSD** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **S-1** Batch ID: **G79040** RunNo: **79040**
Prep Date: Analysis Date: **6/11/2021** SeqNo: **2773021** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	18	3.4	16.93	0	108	61.3	114	2.21	20	
Surr: BFB	890		677.1		132	70	130	0	0	S

Sample ID: **mb-60556** SampType: **MBLK** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS** Batch ID: **60556** RunNo: **79040**
Prep Date: **6/10/2021** Analysis Date: **6/11/2021** SeqNo: **2773022** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1200		1000		115	70	130			

Sample ID: **lcs-60556** SampType: **LCS** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS** Batch ID: **60556** RunNo: **79040**
Prep Date: **6/10/2021** Analysis Date: **6/11/2021** SeqNo: **2773023** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1300		1000		127	70	130			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2106650**

16-Jun-21

Client: ENSOLUM

Project: Stewart LS 5

Sample ID: **mb** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **PBS** Batch ID: **B79040** RunNo: **79040**

Prep Date: Analysis Date: **6/11/2021** SeqNo: **2773051** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		107	70	130			

Sample ID: **100NG BTEX LCS** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **LCSS** Batch ID: **B79040** RunNo: **79040**

Prep Date: Analysis Date: **6/11/2021** SeqNo: **2773052** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.025	1.000	0	99.0	80	120			
Toluene	1.0	0.050	1.000	0	101	80	120			
Ethylbenzene	1.0	0.050	1.000	0	101	80	120			
Xylenes, Total	3.1	0.10	3.000	0	102	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		107	70	130			

Sample ID: **2106650-002ams** SampType: **MS** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **S-2** Batch ID: **B79040** RunNo: **79040**

Prep Date: Analysis Date: **6/11/2021** SeqNo: **2773067** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.71	0.018	0.7310	0	97.4	80	120			
Toluene	0.73	0.037	0.7310	0	100	80	120			
Ethylbenzene	0.73	0.037	0.7310	0	99.6	80	120			
Xylenes, Total	2.2	0.073	2.193	0	101	80	120			
Surr: 4-Bromofluorobenzene	0.82		0.7310		112	70	130			

Sample ID: **2106650-002amsd** SampType: **MSD** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **S-2** Batch ID: **B79040** RunNo: **79040**

Prep Date: Analysis Date: **6/11/2021** SeqNo: **2773068** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.71	0.018	0.7310	0	97.8	80	120	0.307	20	
Toluene	0.73	0.037	0.7310	0	100	80	120	0.0799	20	
Ethylbenzene	0.74	0.037	0.7310	0	101	80	120	1.68	20	
Xylenes, Total	2.2	0.073	2.193	0	101	80	120	0.358	20	
Surr: 4-Bromofluorobenzene	0.84		0.7310		116	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 Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2106650**

16-Jun-21

Client: ENSOLUM

Project: Stewart LS 5

Sample ID: **mb-60556** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **PBS** Batch ID: **60556** RunNo: **79040**

Prep Date: **6/10/2021** Analysis Date: **6/11/2021** SeqNo: **2773091** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.1		1.000		108	70	130			

Sample ID: **LCS-60556** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **LCSS** Batch ID: **60556** RunNo: **79040**

Prep Date: **6/10/2021** Analysis Date: **6/11/2021** SeqNo: **2773092** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.1		1.000		110	70	130			

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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: **2106650** RcptNo: 1

Received By: **Juan Rojas** 6/11/2021 7:30:00 AM

Completed By: **Desiree Dominguez** 6/11/2021 7:45:58 AM

Reviewed By: SPA 6.11.21

Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

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

# of preserved bottles checked for pH: (<2 or >12 unless noted)
Adjusted?
Checked by: JR 6/11/21

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

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

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.7	Good	Yes			
2	0.4	Good	Yes			

Chain-of-Custody Record

Client: Ensolum, LLC

Mailing Address: 606 S. Rio Grande Suite A
Aztec, NM 87410

Phone #:

email or Fax#: KSummers@ensilum.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☐ Standard ☒ Rush SAMEDAY

Project Name: Stewart LS #5

Project #: See notes

Project Manager: KSummers

Sampler: L. Daniell

On Ice: ☒ Yes ☐ No

# of Coolers: 2

Cooler Temp(including CF): 1.9-0.2=1.7 (°C)

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

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	0.6-0.2=0.4 HEAL No. 2106650	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Chlorides					
6/10/21	1030	S	S-1	1x 4oz Jar	cool	-001	X	X									X					
6/10/21	1035	S	S-2	1x 4oz Jar	cool	-002	X	X									X					
6/10/21	1040	S	S-3	1x 4oz Jar	cool	-003	X	X									X					
6/10/21	1045	S	S-4	1x 4oz Jar	cool	-004	X	X									X					
6/10/21	1050	S	S-5	1x 4oz Jar	cool	-005	X	X									X					
6/10/21	1055	S	S-6	1x 4oz Jar	cool	-006	X	X									X					
6/10/21	1100	S	S-7	1x 4oz Jar	cool	-007	X	X									X					
6/10/21	1105	S	S-8	1x 4oz Jar	cool	-008	X	X									X					
6/10/21	1110	S	S-9	1x 4oz Jar	cool	-009	X	X									X					
6/10/21	1115	S	S-11	1x 4oz Jar	cool	-010	X	X									X					
6/10/21	1120	S	S-12	1x 4oz Jar	cool	-011	X	X									X					
6/10/21	1125	S	S-13	1x 4oz Jar	cool	-012	X	X									X					

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
6/10/21	1633				6/10/21	1633
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
6/10/21	1730			courier	6/11/21	7:30

Remarks: SAMEDAY
PM - Tom Long (EP200)
Day key - ~~N53923~~ RB21200
Non AFE - N53923

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.

Chain-of-Custody Record

Client: Ensolum, LLC

Mailing Address: 606 S. Rio Grande Suite A
Aztec, NM 87410

Phone #:

email or Fax#: KSummers@ensolum.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time: SAME DAY
☐ Standard ☒ Rush

Project Name: Stewart LS #5

Project #: Seeretos

Project Manager: KSummers

Sampler: L. Daniell

On Ice: ~~☐ Yes~~ ☐ No

# of Coolers: 1 2 recollect

Cooler Temp(including CF): 1.9 - 0.2 = 1.7 (°C)
0.6 - 0.2 = 0.4

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

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2106650	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Chlorides
6/10/21	1430	S	S-10	~~1x~~ 1x4ozJar	Cool	-013	X	X									X
6/10/21	1500	S	S-14	1x4ozJar	Cool	-014	X	X									X

Analysis Request

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
6/10/21	1633				6/10/21	1633
6/10/21	1730			courier	6/11/21	7:30

Remarks:
SAME DAY
PM - Tom Long (EPROD)
Pay Key - RB21200
Non AFE - NS3923

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.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

June 18, 2021

Kyle Summers

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

RE: Stewart LS 5 OrderNo.: 2106822

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 10 sample(s) on 6/16/2021 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2106822**
Date Reported: **6/18/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-15
Project: Stewart LS 5 **Collection Date:** 6/15/2021 10:00:00 AM
Lab ID: 2106822-001 **Matrix:** MEOH (SOIL) **Received Date:** 6/16/2021 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	ND	60		mg/Kg	20	6/16/2021 11:16:56 AM	60672
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	7.6		mg/Kg	1	6/16/2021 11:41:06 AM	60668
Motor Oil Range Organics (MRO)	ND	38		mg/Kg	1	6/16/2021 11:41:06 AM	60668
Surr: DNOP	81.9	70-130		%Rec	1	6/16/2021 11:41:06 AM	60668
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.3		mg/Kg	1	6/16/2021 10:15:13 AM	G79119
Surr: BFB	102	70-130		%Rec	1	6/16/2021 10:15:13 AM	G79119
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.016		mg/Kg	1	6/16/2021 10:15:13 AM	B79119
Toluene	ND	0.033		mg/Kg	1	6/16/2021 10:15:13 AM	B79119
Ethylbenzene	ND	0.033		mg/Kg	1	6/16/2021 10:15:13 AM	B79119
Xylenes, Total	ND	0.066		mg/Kg	1	6/16/2021 10:15:13 AM	B79119
Surr: 4-Bromofluorobenzene	94.5	70-130		%Rec	1	6/16/2021 10:15:13 AM	B79119

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

Qualifiers:

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

Analytical Report
Lab Order **2106822**
Date Reported: **6/18/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-16
Project: Stewart LS 5 **Collection Date:** 6/15/2021 10:05:00 AM
Lab ID: 2106822-002 **Matrix:** MEOH (SOIL) **Received Date:** 6/16/2021 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	ND	60		mg/Kg	20	6/16/2021 11:29:20 AM	60672
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	8.8		mg/Kg	1	6/16/2021 11:53:06 AM	60668
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	6/16/2021 11:53:06 AM	60668
Surr: DNOP	82.4	70-130		%Rec	1	6/16/2021 11:53:06 AM	60668
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	6/16/2021 10:38:42 AM	G79119
Surr: BFB	104	70-130		%Rec	1	6/16/2021 10:38:42 AM	G79119
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.018		mg/Kg	1	6/16/2021 10:38:42 AM	B79119
Toluene	ND	0.037		mg/Kg	1	6/16/2021 10:38:42 AM	B79119
Ethylbenzene	ND	0.037		mg/Kg	1	6/16/2021 10:38:42 AM	B79119
Xylenes, Total	ND	0.073		mg/Kg	1	6/16/2021 10:38:42 AM	B79119
Surr: 4-Bromofluorobenzene	95.8	70-130		%Rec	1	6/16/2021 10:38:42 AM	B79119

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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2106822**
Date Reported: **6/18/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-17
Project: Stewart LS 5 **Collection Date:** 6/15/2021 10:10:00 AM
Lab ID: 2106822-003 **Matrix:** MEOH (SOIL) **Received Date:** 6/16/2021 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	92	60		mg/Kg	20	6/16/2021 11:41:46 AM	60672
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	6/16/2021 12:05:02 PM	60668
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	6/16/2021 12:05:02 PM	60668
Surr: DNOP	86.8	70-130		%Rec	1	6/16/2021 12:05:02 PM	60668
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.4		mg/Kg	1	6/16/2021 11:02:29 AM	G79119
Surr: BFB	105	70-130		%Rec	1	6/16/2021 11:02:29 AM	G79119
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.017		mg/Kg	1	6/16/2021 11:02:29 AM	B79119
Toluene	ND	0.034		mg/Kg	1	6/16/2021 11:02:29 AM	B79119
Ethylbenzene	ND	0.034		mg/Kg	1	6/16/2021 11:02:29 AM	B79119
Xylenes, Total	ND	0.068		mg/Kg	1	6/16/2021 11:02:29 AM	B79119
Surr: 4-Bromofluorobenzene	96.9	70-130		%Rec	1	6/16/2021 11:02:29 AM	B79119

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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2106822**
Date Reported: **6/18/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-18
Project: Stewart LS 5 **Collection Date:** 6/15/2021 10:15:00 AM
Lab ID: 2106822-004 **Matrix:** MEOH (SOIL) **Received Date:** 6/16/2021 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	ND	60		mg/Kg	20	6/16/2021 11:54:11 AM	60672
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	6/16/2021 12:17:05 PM	60668
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/16/2021 12:17:05 PM	60668
Surr: DNOP	84.0	70-130		%Rec	1	6/16/2021 12:17:05 PM	60668
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	6/16/2021 11:26:01 AM	G79119
Surr: BFB	106	70-130		%Rec	1	6/16/2021 11:26:01 AM	G79119
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.017		mg/Kg	1	6/16/2021 11:26:01 AM	B79119
Toluene	ND	0.035		mg/Kg	1	6/16/2021 11:26:01 AM	B79119
Ethylbenzene	ND	0.035		mg/Kg	1	6/16/2021 11:26:01 AM	B79119
Xylenes, Total	ND	0.070		mg/Kg	1	6/16/2021 11:26:01 AM	B79119
Surr: 4-Bromofluorobenzene	99.0	70-130		%Rec	1	6/16/2021 11:26:01 AM	B79119

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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2106822**
Date Reported: **6/18/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-19
Project: Stewart LS 5 **Collection Date:** 6/15/2021 10:20:00 AM
Lab ID: 2106822-005 **Matrix:** MEOH (SOIL) **Received Date:** 6/16/2021 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	ND	60		mg/Kg	20	6/16/2021 12:06:35 PM	60672
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	6/16/2021 12:29:01 PM	60668
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/16/2021 12:29:01 PM	60668
Surr: DNOP	82.5	70-130		%Rec	1	6/16/2021 12:29:01 PM	60668
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.4		mg/Kg	1	6/16/2021 11:49:32 AM	G79119
Surr: BFB	106	70-130		%Rec	1	6/16/2021 11:49:32 AM	G79119
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.017		mg/Kg	1	6/16/2021 11:49:32 AM	B79119
Toluene	ND	0.034		mg/Kg	1	6/16/2021 11:49:32 AM	B79119
Ethylbenzene	ND	0.034		mg/Kg	1	6/16/2021 11:49:32 AM	B79119
Xylenes, Total	ND	0.069		mg/Kg	1	6/16/2021 11:49:32 AM	B79119
Surr: 4-Bromofluorobenzene	98.4	70-130		%Rec	1	6/16/2021 11:49:32 AM	B79119

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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2106822**
Date Reported: **6/18/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-20
Project: Stewart LS 5 **Collection Date:** 6/15/2021 10:25:00 AM
Lab ID: 2106822-006 **Matrix:** MEOH (SOIL) **Received Date:** 6/16/2021 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	240	60		mg/Kg	20	6/16/2021 12:18:59 PM	60672
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	6/16/2021 12:40:57 PM	60668
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/16/2021 12:40:57 PM	60668
Surr: DNOP	84.5	70-130		%Rec	1	6/16/2021 12:40:57 PM	60668
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	6/16/2021 12:13:08 PM	G79119
Surr: BFB	105	70-130		%Rec	1	6/16/2021 12:13:08 PM	G79119
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.017		mg/Kg	1	6/16/2021 12:13:08 PM	B79119
Toluene	ND	0.035		mg/Kg	1	6/16/2021 12:13:08 PM	B79119
Ethylbenzene	ND	0.035		mg/Kg	1	6/16/2021 12:13:08 PM	B79119
Xylenes, Total	ND	0.070		mg/Kg	1	6/16/2021 12:13:08 PM	B79119
Surr: 4-Bromofluorobenzene	97.8	70-130		%Rec	1	6/16/2021 12:13:08 PM	B79119

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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2106822**
Date Reported: **6/18/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-21
Project: Stewart LS 5 **Collection Date:** 6/15/2021 10:30:00 AM
Lab ID: 2106822-007 **Matrix:** MEOH (SOIL) **Received Date:** 6/16/2021 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	170	60		mg/Kg	20	6/16/2021 12:31:24 PM	60672
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	6/16/2021 12:52:50 PM	60668
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	6/16/2021 12:52:50 PM	60668
Surr: DNOP	82.2	70-130		%Rec	1	6/16/2021 12:52:50 PM	60668
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.4		mg/Kg	1	6/16/2021 12:36:48 PM	G79119
Surr: BFB	105	70-130		%Rec	1	6/16/2021 12:36:48 PM	G79119
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.017		mg/Kg	1	6/16/2021 12:36:48 PM	B79119
Toluene	ND	0.034		mg/Kg	1	6/16/2021 12:36:48 PM	B79119
Ethylbenzene	ND	0.034		mg/Kg	1	6/16/2021 12:36:48 PM	B79119
Xylenes, Total	ND	0.068		mg/Kg	1	6/16/2021 12:36:48 PM	B79119
Surr: 4-Bromofluorobenzene	96.5	70-130		%Rec	1	6/16/2021 12:36:48 PM	B79119

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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2106822**
Date Reported: **6/18/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-22
Project: Stewart LS 5 **Collection Date:** 6/15/2021 10:35:00 AM
Lab ID: 2106822-008 **Matrix:** MEOH (SOIL) **Received Date:** 6/16/2021 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	150	61		mg/Kg	20	6/16/2021 12:43:49 PM	60672
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	14	8.6		mg/Kg	1	6/16/2021 1:04:57 PM	60668
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	6/16/2021 1:04:57 PM	60668
Surr: DNOP	94.0	70-130		%Rec	1	6/16/2021 1:04:57 PM	60668
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	16		mg/Kg	5	6/16/2021 1:24:09 PM	G79119
Surr: BFB	111	70-130		%Rec	5	6/16/2021 1:24:09 PM	G79119
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.081		mg/Kg	5	6/16/2021 1:24:09 PM	B79119
Toluene	ND	0.16		mg/Kg	5	6/16/2021 1:24:09 PM	B79119
Ethylbenzene	ND	0.16		mg/Kg	5	6/16/2021 1:24:09 PM	B79119
Xylenes, Total	ND	0.32		mg/Kg	5	6/16/2021 1:24:09 PM	B79119
Surr: 4-Bromofluorobenzene	98.6	70-130		%Rec	5	6/16/2021 1:24:09 PM	B79119

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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2106822**
Date Reported: **6/18/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-23
Project: Stewart LS 5 **Collection Date:** 6/15/2021 10:40:00 AM
Lab ID: 2106822-009 **Matrix:** MEOH (SOIL) **Received Date:** 6/16/2021 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	86	60		mg/Kg	20	6/16/2021 1:21:02 PM	60672
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	32	8.8		mg/Kg	1	6/16/2021 1:17:08 PM	60668
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	6/16/2021 1:17:08 PM	60668
Surr: DNOP	84.5	70-130		%Rec	1	6/16/2021 1:17:08 PM	60668
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	15	3.4		mg/Kg	1	6/16/2021 1:47:52 PM	G79119
Surr: BFB	168	70-130	S	%Rec	1	6/16/2021 1:47:52 PM	G79119
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.017		mg/Kg	1	6/16/2021 1:47:52 PM	B79119
Toluene	0.13	0.034		mg/Kg	1	6/16/2021 1:47:52 PM	B79119
Ethylbenzene	0.083	0.034		mg/Kg	1	6/16/2021 1:47:52 PM	B79119
Xylenes, Total	0.95	0.068		mg/Kg	1	6/16/2021 1:47:52 PM	B79119
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	6/16/2021 1:47:52 PM	B79119

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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2106822**
Date Reported: **6/18/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-24
Project: Stewart LS 5 **Collection Date:** 6/15/2021 10:45:00 AM
Lab ID: 2106822-010 **Matrix:** MEOH (SOIL) **Received Date:** 6/16/2021 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	150	60		mg/Kg	20	6/16/2021 1:33:27 PM	60672
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	110	9.3		mg/Kg	1	6/16/2021 1:29:21 PM	60668
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	6/16/2021 1:29:21 PM	60668
Surr: DNOP	84.8	70-130		%Rec	1	6/16/2021 1:29:21 PM	60668
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	110	17		mg/Kg	5	6/16/2021 2:11:35 PM	G79119
Surr: BFB	247	70-130	S	%Rec	5	6/16/2021 2:11:35 PM	G79119
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.085		mg/Kg	5	6/16/2021 2:11:35 PM	B79119
Toluene	ND	0.17		mg/Kg	5	6/16/2021 2:11:35 PM	B79119
Ethylbenzene	0.24	0.17		mg/Kg	5	6/16/2021 2:11:35 PM	B79119
Xylenes, Total	3.1	0.34		mg/Kg	5	6/16/2021 2:11:35 PM	B79119
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	5	6/16/2021 2:11:35 PM	B79119

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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2106822**
18-Jun-21

Client: ENSOLUM
Project: Stewart LS 5

Sample ID: **MB-60672** SampType: **MBLK** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS** Batch ID: **60672** RunNo: **79104**
Prep Date: **6/16/2021** Analysis Date: **6/16/2021** SeqNo: **2777600** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-60672** SampType: **LCS** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS** Batch ID: **60672** RunNo: **79104**
Prep Date: **6/16/2021** Analysis Date: **6/16/2021** SeqNo: **2777602** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.3	90	110			

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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2106822**

18-Jun-21

Client: ENSOLUM

Project: Stewart LS 5

Sample ID: **MB-60668** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **PBS** Batch ID: **60668** RunNo: **79110**

Prep Date: **6/16/2021** Analysis Date: **6/16/2021** SeqNo: **2776846** 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	8.5		10.00		85.4	70	130			

Sample ID: **LCS-60668** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **LCSS** Batch ID: **60668** RunNo: **79110**

Prep Date: **6/16/2021** Analysis Date: **6/16/2021** SeqNo: **2776847** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	10	50.00	0	86.3	68.9	141			
Surr: DNOP	4.1		5.000		82.3	70	130			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2106822**
18-Jun-21

Client: ENSOLUM
Project: Stewart LS 5

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **G79119**	RunNo: **79119**
Prep Date:	Analysis Date: **6/16/2021**	SeqNo: **2777461** 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: **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **G79119**	RunNo: **79119**
Prep Date:	Analysis Date: **6/16/2021**	SeqNo: **2777462** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	101	78.6	131			
Surr: BFB	1200		1000		117	70	130			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2106822**

18-Jun-21

Client: ENSOLUM

Project: Stewart LS 5

Sample ID: **mb** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **PBS** Batch ID: **B79119** RunNo: **79119**

Prep Date: Analysis Date: **6/16/2021** SeqNo: **2777494** 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		95.6	70	130			

Sample ID: **100ng btex lcs** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **LCSS** Batch ID: **B79119** RunNo: **79119**

Prep Date: Analysis Date: **6/16/2021** SeqNo: **2777495** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.025	1.000	0	97.2	80	120			
Toluene	1.0	0.050	1.000	0	101	80	120			
Ethylbenzene	1.0	0.050	1.000	0	101	80	120			
Xylenes, Total	3.1	0.10	3.000	0	102	80	120			
Surr: 4-Bromofluorobenzene	0.98		1.000		98.1	70	130			

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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: **2106822** RcptNo: **1**

Received By: **Sean Livingston** **6/16/2021 8:45:00 AM** Sean Livingston

Completed By: **Sean Livingston** **6/16/2021 8:55:28 AM** Sean Livingston

Reviewed By: CC 6/16/21

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

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

# of preserved bottles checked for pH: (<2 or >12 unless noted)
Adjusted?
Checked by: KPG 6/16/21

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

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

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.8	Good				

Chain-of-Custody Record

Client: Ensolum, LLC

Mailing Address: 606 S. Rio Grande, Suite A
Aztec, NM 87410

Phone #:

email or Fax#: KSummers@ensolum.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:
☐ Standard ☒ Rush 100% Same Day

Project Name: Stewart LS#5

Project #:

Project Manager: K. Summers

Sampler: L. Daniell

On Ice: ☑ Yes ☐ No

Sample Temperature: 3.9 - 0.1 = 3.8°C

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

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 2106822	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions ($F, Cl, NO_3, NO_2, PO_4, SO_4$)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Air Bubbles (Y or N)
6/15/21	10:00	S	S-15	1 4oz jar ~~3x40 mL~~	Cool	001	X		X					X				
6/15/21	10:05	S	S-16	1 4oz jar	Cool	002	X		X					X				
6/15/21	10:10	S	S-17	1 4oz jar	Cool	003	X		X					X				
6/15/21	10:15	S	S-18	1 4oz jar	Cool	004	X		X					X				
6/15/21	10:20	S	S-19	1 4oz jar	Cool	005	X		X					X				
6/15/21	10:25	S	S-20	1 4oz jar	Cool	006	X		X					X				
6/15/21	10:30	S	S-21	1 4oz jar	Cool	007	X		X					X				
6/15/21	10:35	S	S-22	1 4oz jar	Cool	008	X		X					X				
6/15/21	10:40	S	S-23	1 4oz jar	Cool	009	X		X					X				
6/15/21	10:45	S	S-24	1 4oz jar	Cool	010	X		X					X				

Analysis Request

Date:	Time:	Relinquished by:	Received by:	Date	Time
6/15/21	1448		Natasha	6/15/21	1448
Date:	Time:	Relinquished by:	Received by:	Date	Time
6/15/21	1720	Natasha	See courier	6/16/21	8:45

Remarks: PM Tom Long
Pay Key: RB21200
AFE # N53923
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.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

July 09, 2021

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

RE: Stewart LS 5 OrderNo.: 2107264

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 1 sample(s) on 7/8/2021 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2107264**
Date Reported: **7/9/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-25
Project: Stewart LS 5 **Collection Date:** 7/7/2021 10:30:00 AM
Lab ID: 2107264-001 **Matrix:** MEOH (SOIL) **Received Date:** 7/8/2021 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	74	60		mg/Kg	20	7/8/2021 9:53:07 AM	61177
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	7/8/2021 9:57:52 AM	61178
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/8/2021 9:57:52 AM	61178
Surr: DNOP	108	70-130		%Rec	1	7/8/2021 9:57:52 AM	61178
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range Organics (GRO)	ND	4.1		mg/Kg	1	7/8/2021 11:33:00 AM	61168
Surr: BFB	96.3	70-130		%Rec	1	7/8/2021 11:33:00 AM	61168
EPA METHOD 8021B: VOLATILES						Analyst: **mb**	
Benzene	ND	0.021		mg/Kg	1	7/8/2021 11:33:00 AM	61168
Toluene	ND	0.041		mg/Kg	1	7/8/2021 11:33:00 AM	61168
Ethylbenzene	ND	0.041		mg/Kg	1	7/8/2021 11:33:00 AM	61168
Xylenes, Total	0.11	0.082		mg/Kg	1	7/8/2021 11:33:00 AM	61168
Surr: 4-Bromofluorobenzene	89.6	70-130		%Rec	1	7/8/2021 11:33:00 AM	61168

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

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2107264**

09-Jul-21

Client: ENSOLUM

Project: Stewart LS 5

Sample ID: **MB-61177** SampType: **MBLK** TestCode: **EPA Method 300.0: Anions**

Client ID: **PBS** Batch ID: **61177** RunNo: **79636**

Prep Date: **7/8/2021** Analysis Date: **7/8/2021** SeqNo: **2801621** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-61177** SampType: **LCS** TestCode: **EPA Method 300.0: Anions**

Client ID: **LCSS** Batch ID: **61177** RunNo: **79636**

Prep Date: **7/8/2021** Analysis Date: **7/8/2021** SeqNo: **2801622** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.4	90	110			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2107264**

09-Jul-21

Client: ENSOLUM

Project: Stewart LS 5

Sample ID: **MB-61178** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **PBS** Batch ID: **61178** RunNo: **79630**

Prep Date: **7/8/2021** Analysis Date: **7/8/2021** SeqNo: **2801392** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		108	70	130			

Sample ID: **LCS-61178** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **LCSS** Batch ID: **61178** RunNo: **79630**

Prep Date: **7/8/2021** Analysis Date: **7/8/2021** SeqNo: **2801394** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	95.8	68.9	141			
Surr: DNOP	5.2		5.000		104	70	130			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2107264**

09-Jul-21

Client: ENSOLUM

Project: Stewart LS 5

Sample ID: **mb-61168** SampType: **MBLK** TestCode: **EPA Method 8015D: Gasoline Range**

Client ID: **PBS** Batch ID: **61168** RunNo: **79645**

Prep Date: **7/7/2021** Analysis Date: **7/8/2021** SeqNo: **2802000** 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	1100		1000		106	70	130			

Sample ID: **lcs-61168** SampType: **LCS** TestCode: **EPA Method 8015D: Gasoline Range**

Client ID: **LCSS** Batch ID: **61168** RunNo: **79645**

Prep Date: **7/7/2021** Analysis Date: **7/8/2021** SeqNo: **2802001** 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	1100		1000		111	70	130			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2107264**

09-Jul-21

Client: ENSOLUM

Project: Stewart LS 5

Sample ID: **mb-61168** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **PBS** Batch ID: **61168** RunNo: **79645**

Prep Date: **7/7/2021** Analysis Date: **7/8/2021** SeqNo: **2802007** 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	0.97		1.000		97.1	70	130			

Sample ID: **lcs-61168** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **LCSS** Batch ID: **61168** RunNo: **79645**

Prep Date: **7/7/2021** Analysis Date: **7/8/2021** SeqNo: **2802008** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	102	80	120			
Toluene	1.0	0.050	1.000	0	102	80	120			
Ethylbenzene	1.0	0.050	1.000	0	104	80	120			
Xylenes, Total	3.1	0.10	3.000	0	105	80	120			
Surr: 4-Bromofluorobenzene	0.99		1.000		99.3	70	130			

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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: **2107264** RcptNo: 1

Received By: **Cheyenne Cason** **7/8/2021 7:50:00 AM** Chad

Completed By: **Sean Livingston** **7/8/2021 8:09:26 AM** Sean Livingston

Reviewed By: JR 7/8/21

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

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

# of preserved bottles checked for pH: (<2 or >12 unless noted)

Adjusted?

Checked by: KPG 7/8/21

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: Date:

By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.5	Good				

Chain-of-Custody Record

Client: Ensolum, LLC

Mailing Address: 606 S. Rio Grande, suite A

Phone #:

email or Fax#: KSummers@ensolum.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time: Same Day
☐ Standard ☒ Rush 100%

Project Name: Stewart LS #5

Project #:

Project Manager: K. Summers

Sampler: L. Daniell

On Ice: ☑ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 1.4 +0.1 = 1.5 (°C)

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

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2107264	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
7/7/21	10:30	S	S-25	1 4oz Jar	Cool	001	X	X					X			

Analysis Request

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
7/7/21	1158				7/7/21	1158
7/7/21	1814				7/8/21	0750

Remarks: PM Tom Long
Pay Key: RB21200
Non AFE# N53923
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 66005

CONDITIONS

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 66005
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	1/5/2022