

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: 151618
Contact Name: Thomas Long	Contact Telephone: 505-599-2286
Contact email: tjlong@eprod.com	Incident # (assigned by OCD): NRM2005731060
Contact mailing address: 614 Reilly Ave, Farmington, NM 87401	

Location of Release Source

Latitude **36.78597** Longitude **-107.59033** (NAD 83 in decimal degrees to 5 decimal places)

Site Name NEBU #345	Site Type Natural Gas Gathering Pipeline
Date Release Discovered: 2/7/2020	Serial Number (if applicable): NM 119620

Unit Letter	Section	Township	Range	County
G	29	30N	7W	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)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input checked="" type="checkbox"/> Condensate	Volume Released (bbls): 3-5 BBLs	Volume Recovered (bbls): None
<input checked="" type="checkbox"/> Natural Gas	Volume Released (Mcf): < 1 MCF	Volume Recovered (Mcf): None
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units):	Volume/Weight Recovered (provide units)

Cause of Release On February 7, 2020, Enterprise discovered a release of natural gas from the NEBU #345 well tie. No liquids were released to the ground surface. No washes were affected. Repairs and remediation began on February 13, 2020, at which time Enterprise determined the release reportable per NMOCDC regulation, due to the volume of impacted subsurface soil. Remediation was completed on February 14, 2020. The final excavation measured approximately 17 feet long by 13 feet wide by 7 feet deep. Approximately 72 cubic yards of hydrocarbon impacted soil was excavated and transported to a New Mexico Oil Conservation Division approved land farm facility. A third party closure report is included with this "Final." C-141.

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: Jon E. Fields

Title: Director, Environmental

Signature: 

Date: 9/23/2020

email: jefields@eprod.com

Telephone: (713) 381-6684

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: 05/16/2022

Printed Name: Nelson Velez Title: Environmental Specialist – Adv

NEBU #345 Well Tie Pipeline Release Closure Report

Unit Letter G, Section 29, Township 30 North, Range 7 West
Rio Arriba County, New Mexico

July 24, 2020

Prepared for:
Enterprise Field Services, LLC
614 Reilly Avenue
Farmington, New Mexico 87401

Prepared by:
Rule Engineering, LLC
501 Airport Drive, Suite 205
Farmington, New Mexico 87401



Enterprise Field Services, LLC NEBU #345 Well Tie Pipeline Release Closure Report

Prepared for:

Enterprise Field Services, LLC
614 Reilly Avenue
Farmington, New Mexico 87401

Prepared by:

Rule Engineering, LLC
501 Airport Drive, Suite 205
Farmington, New Mexico 87401



Heather M. Woods, P.G., Area Manager

July 24, 2020

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Enterprise Field Services, LLC
NEBU #345 Well Tie Pipeline Release Closure Report
July 24, 2020

1.0 Introduction

This closure report summarizes the remedial activities undertaken at the NEBU #345 Well Tie Pipeline release site to remediate potential hydrocarbon impact according to closure criteria as outlined in 19.15.29 of the New Mexico Authority Code (NMAC).

1.1 Release Summary

Operator	Enterprise Field Services, LLC (Enterprise)		
Site Name	NEBU #345 Well Tie Pipeline Release		
Site Location Description	Unit Letter G, Section 29, Township 30 North, Range 7 West (N36.78597, W107.59033)		
Land Jurisdiction	United States Department of the Interior Bureau of Land Management (BLM)		
Discovery Date	February 7, 2020		
Release Source	Corrosion hole in pipeline		
Substance(s) Released	Pipeline liquids and natural gas		
Volume of Soil Transported for Disposal/Remediation	Approximately 72 cubic yards soil and 25 barrels of hydrovac cuttings	Remedial Excavation Dimensions	Approximately 17 feet by 13 feet and 7 feet deep
Disposal Facility	Envirotech Landfarm (Permit NM-01-0011)		

A topographic map of the location reproduced from the United States Geological Society quadrangle map of the area is included as Figure 1 and an aerial site map is included as Figure 2.

2.0 Closure Criteria Determination

The remediation standards for the release location are determined per 19.15.29 NMAC and are selected by depth to groundwater with a concentration of less than 10,000 milligrams per kilogram (mg/kg) total dissolved solids (TDS) and several additional factors outlined in Paragraph (4) of Subsection (C) of 19.15.29.12 NMAC. A summary of the determination and supporting documents are included in Appendix A.

Closure criteria for the soils impacted at the release location are determined by the “less than or equal to 50 feet” category of Table 1, 19.15.29.12 NMAC. These remedial standards are as follows:

- 10 mg/kg benzene per USEPA Methods 8021B or 8260B.
- 50 mg/kg total benzene, toluene, ethylbenzene, and xylenes (BTEX) per USEPA Method 8021B or 8260B;

Enterprise Field Services, LLC
NEBU #345 Well Tie Pipeline Release Closure Report
July 24, 2020

- 100 mg/kg total petroleum hydrocarbons (TPH) as gasoline range organics (GRO), diesel range organics (DRO), and mineral range organics (MRO) per USEPA Method 8015M; and
- 600 milligrams per kilogram (mg/kg) chloride per United States Environmental Protection Agency (USEPA) Methods 300.0 or SM 4500-Cl B.

3.0 Field Activities

On February 13, 2020, Enterprise initiated repair and remediation activities at the location. West States Energy Contractors, Inc. provided heavy equipment operation and repair support. Rule Engineering, LLC (Rule) personnel provided excavation guidance and collected confirmation samples from the resultant excavation. The final repair excavation was measured approximately 17 feet by 13 feet by 7 feet in depth. Approximately 72 cubic yards of soil and 25 barrels of hydrovac cuttings were transported to the Envirotech Landfarm near Bloomfield, New Mexico for disposal/remediation. The repair excavation was backfilled with clean, imported material.

A depiction of the excavation with sample locations is included as Figure 3. A copy of the executed C-138 Solid Waste Acceptance Form is included in Appendix B. A photograph log is included in Appendix C. A copy of regulatory correspondence is included in Appendix D.

4.0 Confirmation Soil Sampling

Rule collected confirmation excavation soil samples (SC-1 through SC-5) from the sidewalls and base of the excavation. Each confirmation soil sample is a representative composite comprised of five equivalent aliquots of soil collected from the sampled area. Confirmation sample locations are shown on Figure 3.

Samples were field screened for volatile organic compounds (VOCs). Field screening for VOC vapors was conducted with a photoionization detector (PID). Before beginning field screening, the PID was calibrated with 100 parts per million (ppm) isobutylene gas. Soil samples collected for laboratory analysis were placed into laboratory supplied glassware, labeled, and maintained on ice until delivery to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico. All samples were analyzed for BTEX per USEPA Method 8021B and TPH (GRO/DRO/MRO) per USEPA 8015D and chlorides per USEPA Method 300.0.

5.0 Laboratory Analytical Results

The laboratory analytical results were compared to the remediation standards for the site. A summary of constituent detections above the laboratory reporting limits is provided below:

Rule

Enterprise Field Services, LLC
NEBU #345 Well Tie Pipeline Release Closure Report
July 24, 2020

- Benzene detections ranged from 0.070 mg/kg to 0.49 mg/kg, which are below the remediation standard of 10 mg/kg.
- Total BTEX detections ranged from 0.90 mg/kg to 2.4 mg/kg, which are below the remediation standard of 50 mg/kg.
- Total TPH detections ranged from 9.1 mg/kg to 27 mg/kg, which are below the remediation standard of 100 mg/kg.
- Chloride detections ranged from 69 mg/kg to 98 mg/kg, which are below the remediation standard of 600 mg/kg.

The concentrations of the remaining constituents were reported below the laboratory reporting limits, which are below each respective remediation standard. Laboratory analytical results are summarized in Table 1. Analytical laboratory reports are included in Appendix E.

6.0 Reclamation and Revegetation

The excavation was backfilled with clean, imported material. The area was contoured as near as possible to original grade and will be re-seeded with a BLM approved seed mixture.

7.0 Recommendation

Hydrocarbon impacted soils associated with the NEBU #345 well tie pipeline release have been excavated and transported to an approved landfarm for disposal/remediation. Laboratory analytical results for the confirmation samples collected from the excavation report benzene, total BTEX, and TPH concentrations below the remediation standards set forth for the release. Therefore, no further work is recommended.

8.0 Closure and Limitations

This report has been prepared for the exclusive use of Enterprise and is subject to the terms, conditions, and limitations stated in Rule's report and Service Agreement with Enterprise. All work has been performed in accordance with generally accepted professional environmental consulting practices. No other warranty is expressed or implied.

Enterprise Field Services, LLC
NEBU #345 Well Tie Pipeline Release Closure Report
July 24, 2020

Table

Rule

Table 1. Summary of Laboratory Analytical Results
Enterprise Field Services
NEBU #345 Well Tie Pipeline Release
Rio Arriba County, New Mexico

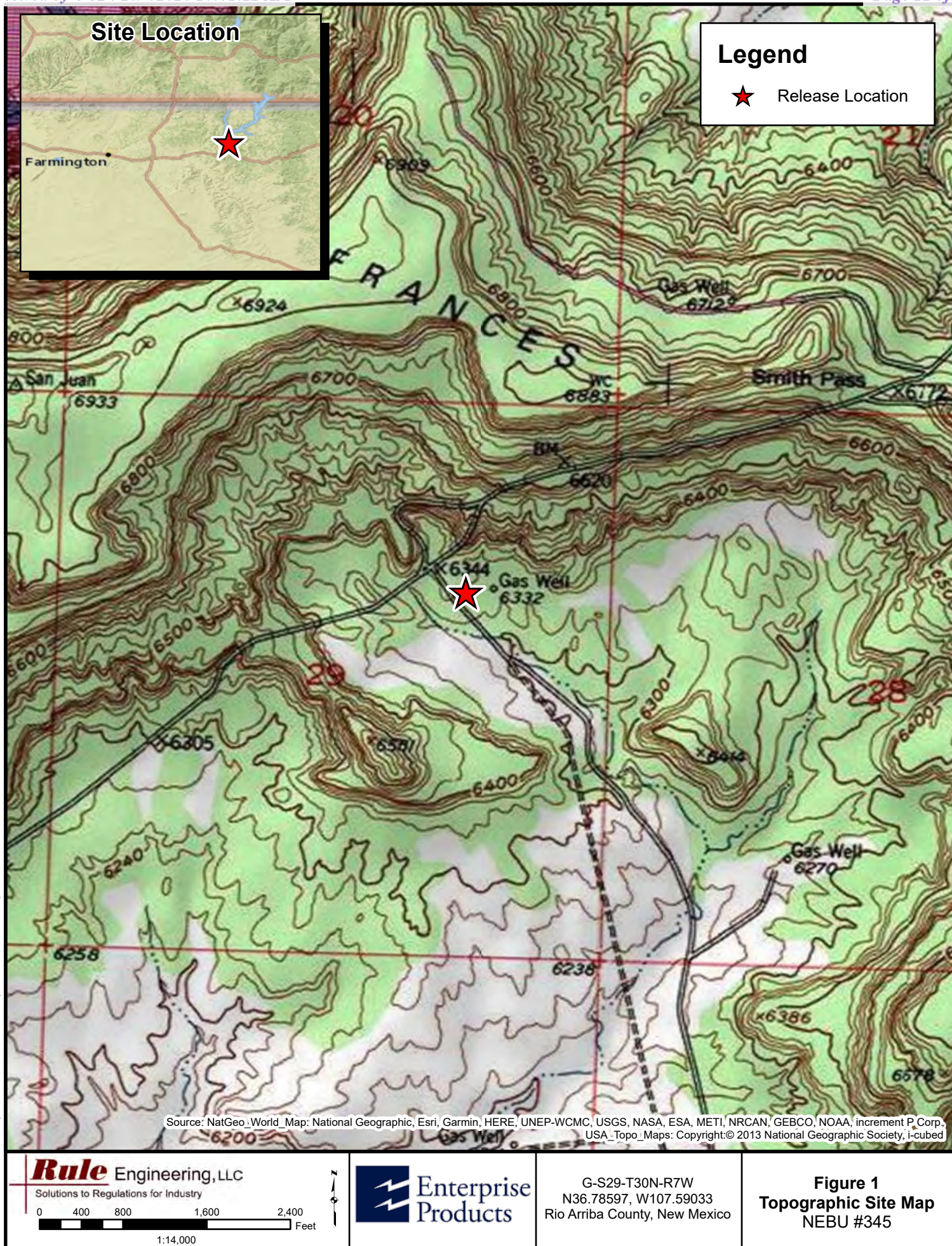
Sample Name	Date	Approximate Sample Depth (ft bgs)	Sample Location	Laboratory Analytical Results									
				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH as GRO (mg/kg)	TPH as DRO (mg/kg)	TPH as MRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
Remediation Standard*				10	NE	NE	NE	50	NE	NE	NE	100	600
SC-1	2/14/2020	0 - 7	East Wall	0.14	0.71	<0.19	1.5	2.3	<19	<9.8	<49	ND	69
SC-2	2/14/2020	0 - 7	South Wall	<0.096	<0.19	<0.19	<0.39	ND	<19	<9.4	<47	ND	97
SC-3	2/14/2020	0 - 7	West Wall	0.070	0.37	<0.037	0.46	0.90	<3.7	<9.7	<49	ND	<60
SC-4	2/14/2020	0 - 7	North Wall	<0.090	<0.18	<0.18	<0.36	ND	<18	27	<44	27	98
SC-5	2/14/2020	7	Base	0.49	1.2	0.049	0.66	2.4	9.1	<9.8	<49	9.1	<60

Notes: ft bgs - feet below grade surface
mg/kg - milligrams per kilogram
NE - not established
ND - not detected above laboratory reporting limits
BTEX - total benzene, toluene, ethylbenzene, and xylenes
TPH - total petroleum hydrocarbons
GRO - gasoline range organics
DRO - diesel range organics
MRO - mineral oil range organics
*Per Table 1 of 19.15.29.12 NMAC, based on category "less than or equal to 50 feet" depth to groundwater

Enterprise Field Services, LLC
NEBU #345 Well Tie Pipeline Release Closure Report
July 24, 2020


Figures

Rule



7/20/20

Legend

 Release location



World Imagery: USDA FSA, GeoEye, CNES/Airbus DS

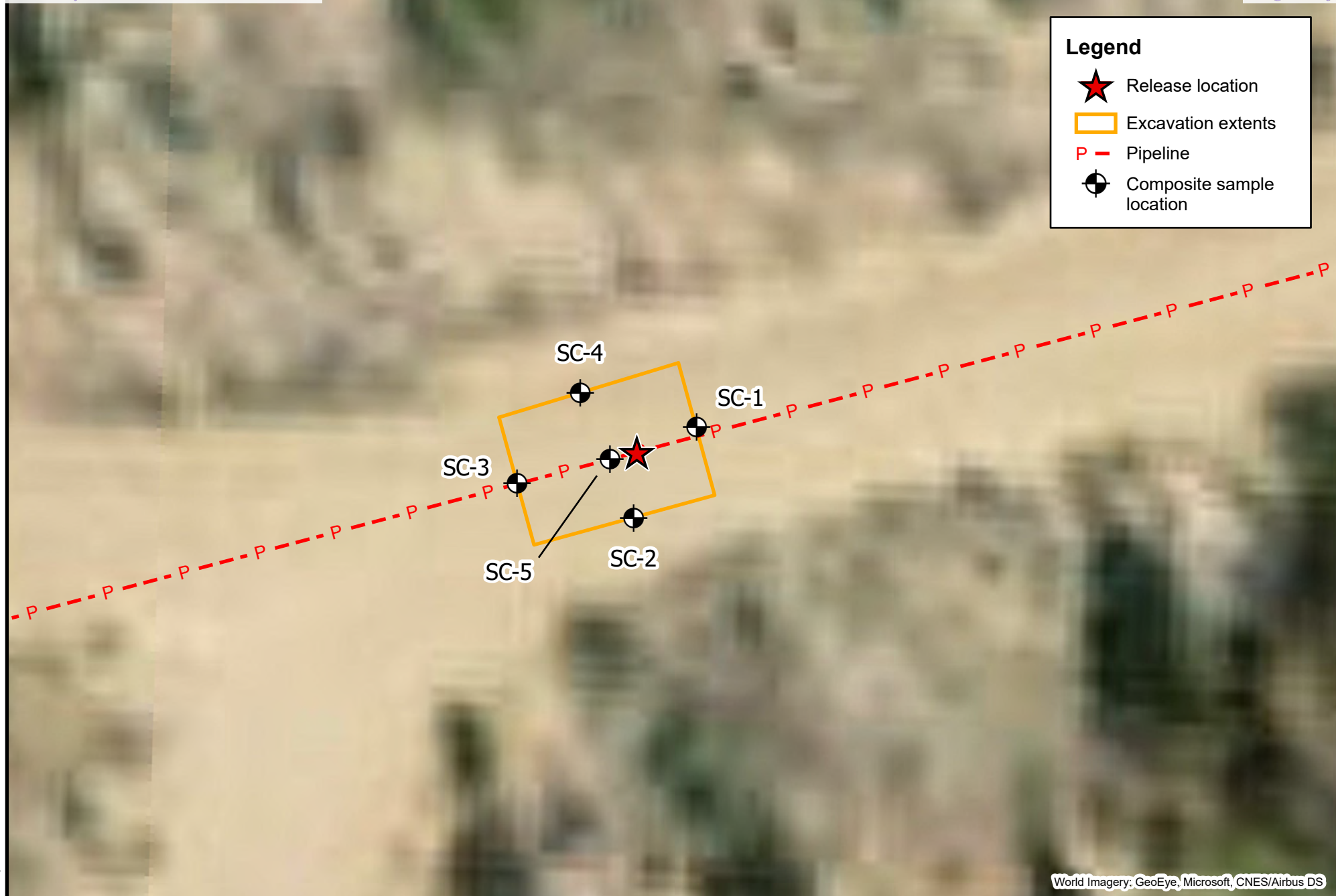
Rule Engineering, LLC
Solutions to Regulations for Industry

0 270 540 1,080 1,620 2,160
Feet
1:8,000



G-S29-T30N-R7W
N36.78597, W107.59033
Rio Arriba County, New Mexico

Figure 2
Aerial Site Map
NEBU #345



World Imagery: GeoEye, Microsoft, CNES/Airbus DS

Rule Engineering, LLC
Solutions to Regulations for Industry

0 5 10 20 30
Feet
1:140



G-S29-T30N-R7W
N36.78597, W107.59033
Rio Arriba County, New Mexico

Figure 3
Sample Location Map
NEBU #345

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Enterprise Field Services, LLC
NEBU #345 Well Tie Pipeline Release Closure Report
July 24, 2020

Appendix A

Closure Criteria Determination and Documentation

Rule

Closure Criteria Determination NEBU #345 Well Tie Pipeline Release

A review of the release site characteristics based on Paragraph (4) of Subsection (C) of 19.15.29 NMAC, concluded that site closure criteria are determined by the ***“less than or equal to 50 feet”*** category of Table 1.

The release site characteristics are as follows:

- Depth to groundwater at the site is anticipated to be greater than 100 feet below ground surface based on the area’s geology and geomorphology.
 - A search of the New Mexico Office of the State Engineer (NMOSE) Water Rights Reporting System reported one point of diversion (POD) within Sections 19, 20, 21, 28, 29, 30, 31, 32 and 33 of Township 30 North and Range 7 West. That POD is SJ 00035 with a reported depth to water of 467 feet below ground surface.
 - A search of the New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD) online imaging database yielded 14 cathodic well records within a 1-mile radius of the site. Depth to groundwater reported for these cathodic wells ranges from 80 feet to 390 feet below ground surface.

The location **is** within:

- 300 feet of any continuously flowing watercourse or any other significant water course. *A second-order ephemeral tributary wash to Gobernador Canyon is located approximately 126 feet east of the release site.*

The location is **not** within:

- ½ mile of known water sources, including private and domestic water sources.
- 200 feet of any lakebed, sinkhole or playa lake.
- 300 feet of an occupied permanent residence, school, hospital, institution or church.
- 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes.
- incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to Section 3-27-3 NMSA 1978 as amended.
- 1,000 feet of any fresh water well or spring.
- the area overlying a subsurface mine.
- 300 feet of a wetland.
- an unstable area.
- 100-year floodplain.

Rule





New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

(R=POD has been replaced,
O=orphaned,
C=the file is closed)

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
SJ 00035	SJ	RA		2	2	4	33	30N	07W	270745	4072250*	547	467	80

Average Depth to Water: **467 feet**

Minimum Depth: **467 feet**

Maximum Depth: **467 feet**

Record Count: 1

PLSS Search:

Section(s): 19, 20, 21, 28, 29, 30, 31, 32, 33
Township: 30N
Range: 07W

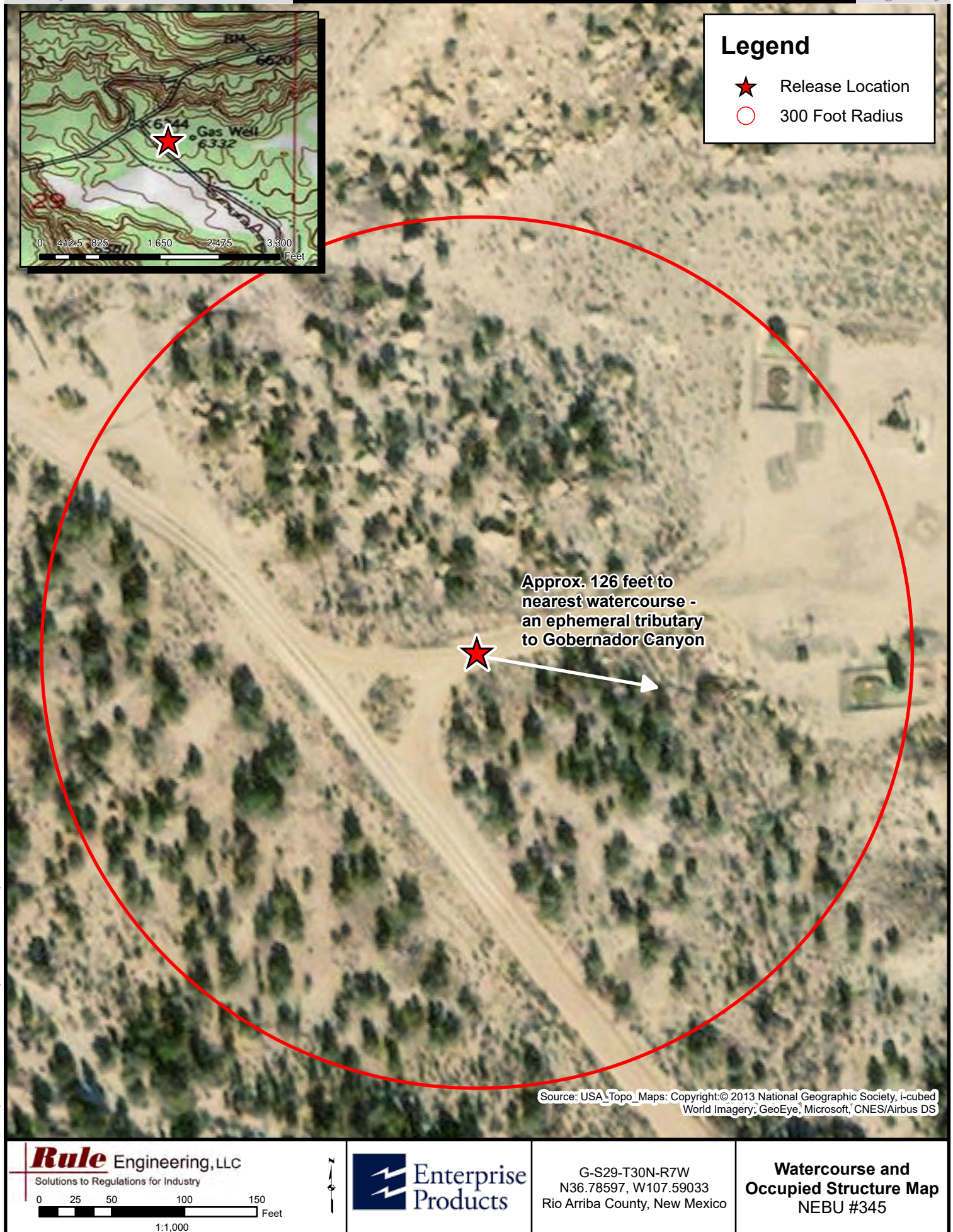
*UTM location was derived from PLSS - see Help

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

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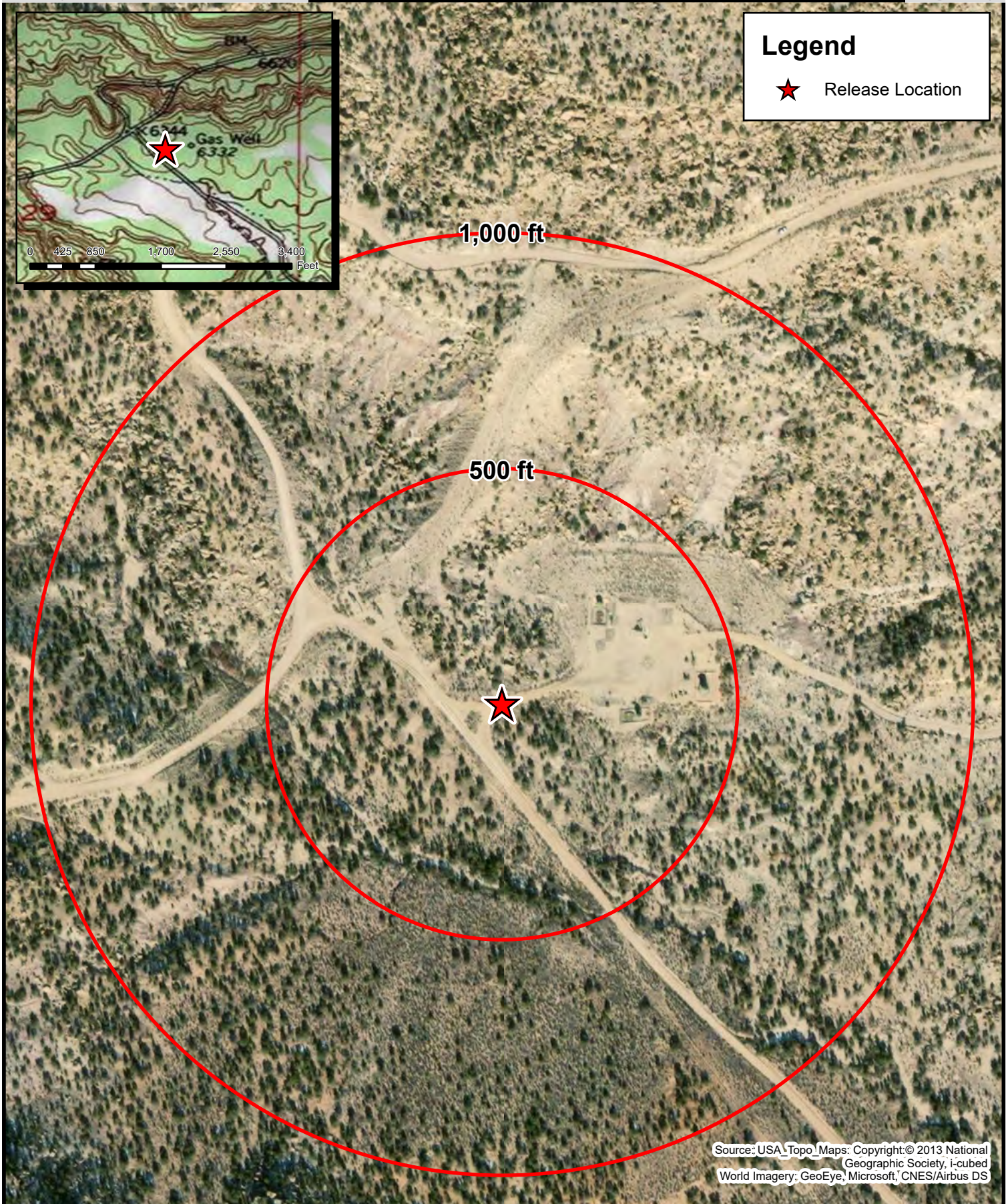
Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER



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7/21/20



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<p>Rule Engineering, LLC Solutions to Regulations for Industry</p> <p>0 90 180 360 540 Feet</p> <p>1:3,265</p>	<p> Enterprise Products</p>	<p>G-S29-T30N-R7W N36.78597, W107.59033 Rio Arriba County, New Mexico</p>	<p>Water Wells and Natural Springs Map NEBU #345</p>
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7/24/2020



NEBU #345 Wetland Map



July 22, 2020

Wetlands

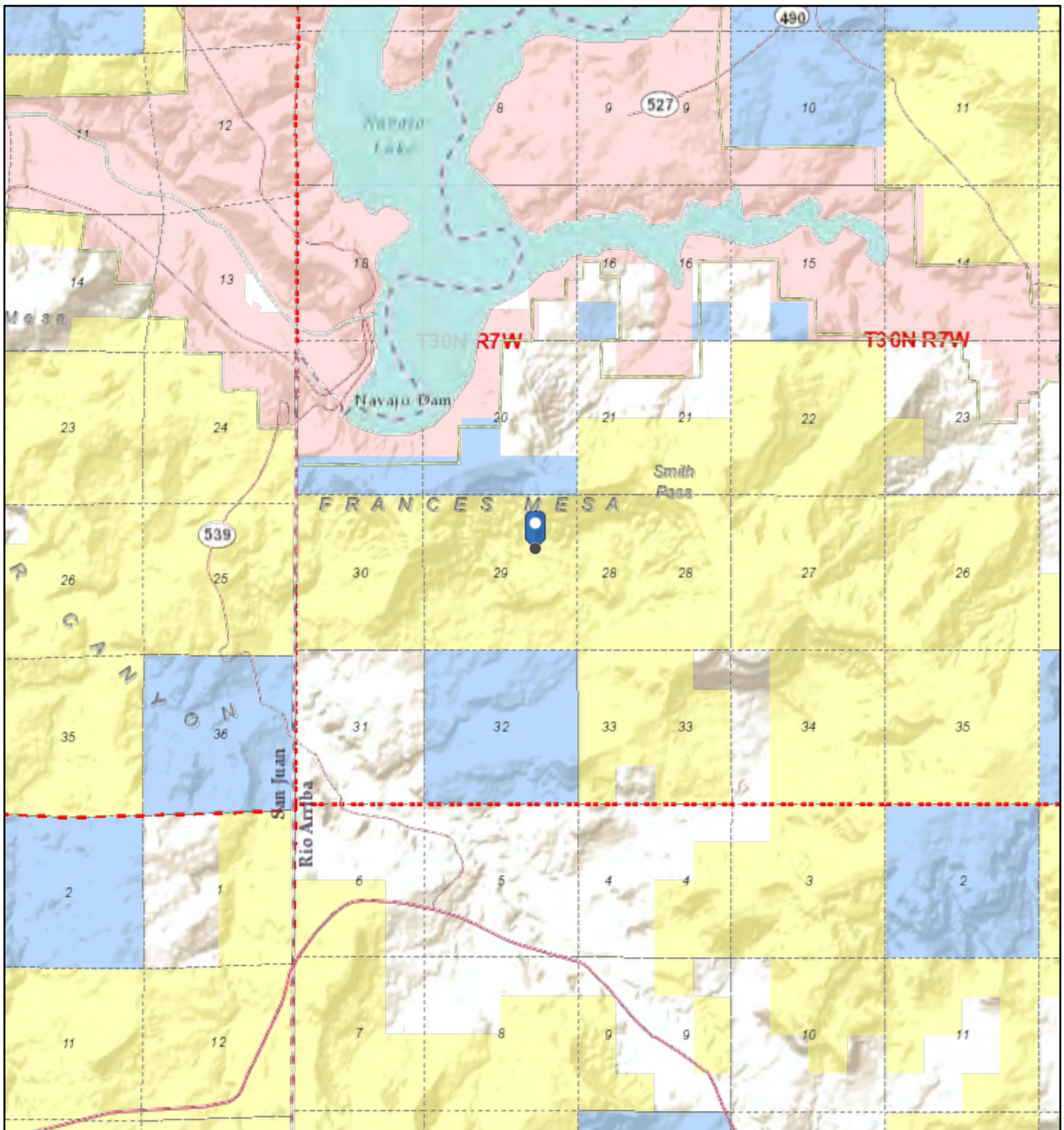
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond

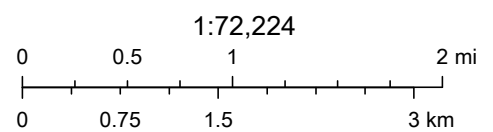
- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

NEBU #345 Mines Map



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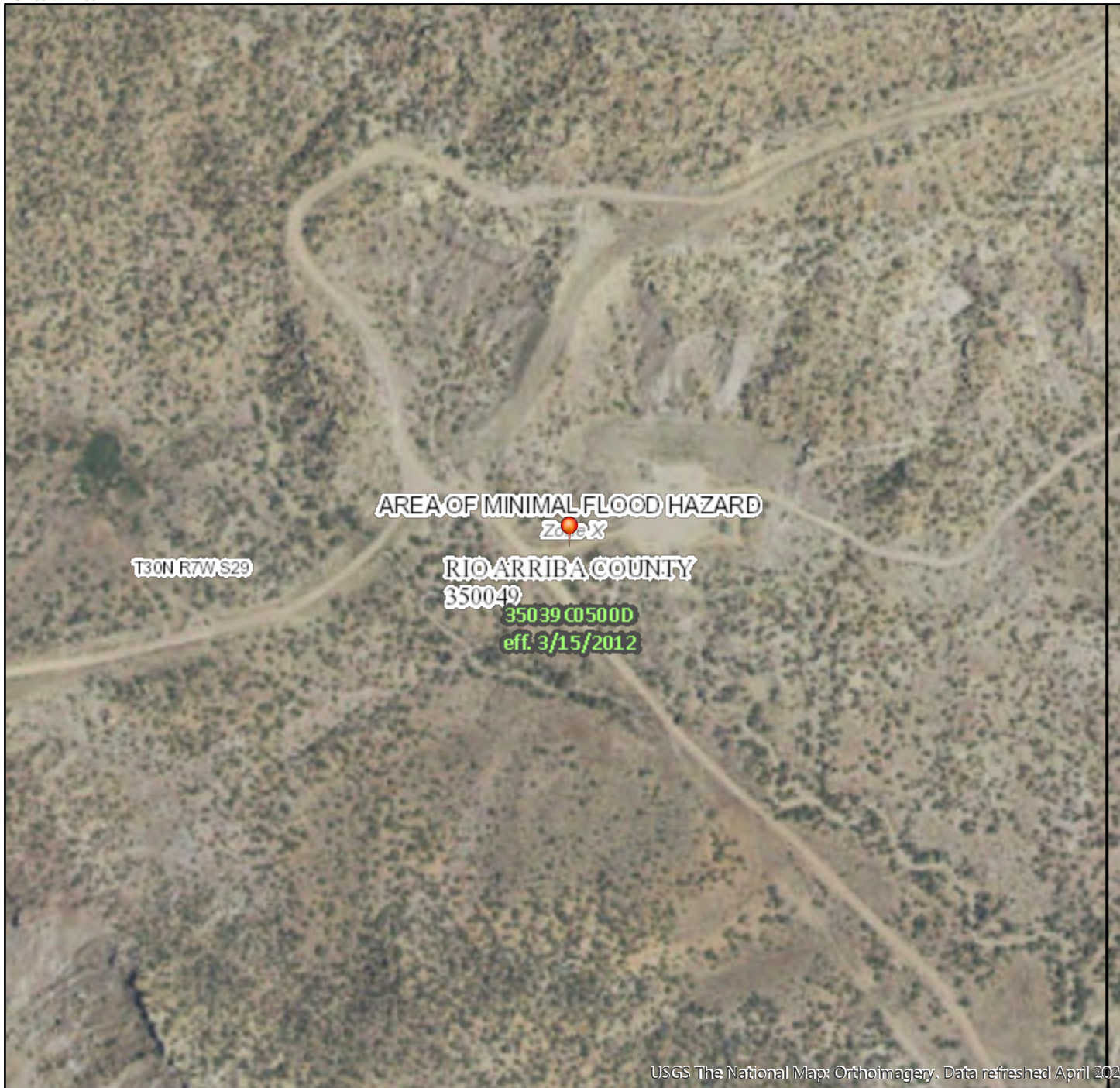
U.S. Bureau of Land Management - New Mexico State Office, Sources:
Esri, USGS, NOAA, Sources: Esri, Garmin, USGS, NPS

EMNRD MMD GIS Coordinator

National Flood Hazard Layer FIRMette



107° 35'44"W 36° 47'24"N



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped



The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 7/21/2020 at 8:04 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

USGS The National Map: Orthoimagery. Data refreshed April 2020

107° 35'44"W 36° 46'55"N

0 250 500 1,000 1,500 2,000 Feet

1:6,000

Released to Imaging: 5/16/2022 2:38:33 PM

30-039-22027

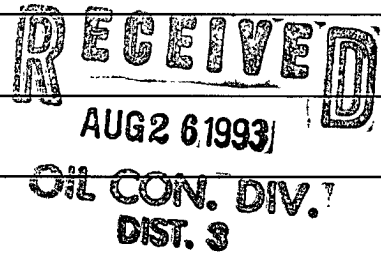
DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS

NORTHWESTERN NEW MEXICO

(Submit 3 Copies to OCD Aztec Office)

Operator: BLACKWOOD & NICHOLS CO. Location: Unit P, Sec. 20, Twp 30N, Rng 7W.Name of Well/Wells or Pipeline Serviced NEBU 19AElevation 6790' Completion Date 7-11-93 Total Depth 325' Land Type* Surface: F Mineral: SF-079060Casing, Sizes, Types & Depths 8-5/8" SCH 40 P.V.C. - 100' , 7 7/8" OPEN HOLEIf Casing is cemented, show amounts & types used 20 sks Portland Zia I-IIIf 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. Small amount of water 104' and 180' not enough for water sample.Depths gas encountered: N/AType & amount of coke breeze used: Asbury - 4,000#Depths anodes placed: 315' to 186'Depths vent pipes placed: 325' to 4' above ground levelVent pipe perforations: 325' to 125'Remarks: Groundbed located 156' & W of North 239° of wellhead

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.

Signed by: James K. AllenTitle: Operations EngineerDate: 8/11/93

S 20 T 30 R 07

INSPECTOR Jesse Evans

UNIT LETTER P S 20 T 30 R 7

INSPECTOR May D. McFarland

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICO
(Submit 3 Copies to OCD Aztec Office)Operator: BLACKWOOD & NICHOLS CO. Location: Unit M, Sec. 21, Twp 30N, Rng 7W.Name of Well/Wells or Pipeline Served NEBU 405, 4Elevation 6720' Completion Date 7-11-93 Total Depth 385' Land Type* Surface: F Mineral: SF-079060Casing, Sizes, Types & Depths 8-5/8" SCH 40 P.V.C. - 100', 7 7/8" OPEN HOLE.If Casing is cemented, show amounts & types used 20 sks Portland Zia I-IIIf 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. No water

Depths gas encountered: _____

Type & amount of coke breeze used: Asbury recarburized 108 sxDepths anodes placed: 195' to 371'Depths vent pipes placed: 385' to 4' above ground levelVent pipe perforations: 125' to 385'Remarks: Groundbed located 178' & North 90° W from NEBU 405

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.

Signed by: James K. Alben Title: Operations Engineer Date: 8/11/93

S 21 T 30 R 05

INSPECTOR Jessie Eans

S 21 T 30 R C

INSPECTOR Jerry Egan

116/ 30-039-0770

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS

NORTHWESTERN NEW MEXICO

(Submit 3 Copies to OCD Aztec Office)

Operator: BLACKWOOD & NICHOLS CO. Location: Unit H, Sec. 29, Twp 30N, Rng 7W.Name of Well/Wells or Pipeline Serviced NEBU 477, 6Elevation 6340' Completion Date 7-12-93 Total Depth 392' Land Type* Surface: F Mineral: SF-079060Casing, Sizes, Types & Depths 8-5/8" SCH 40 P.V.C. - 100', 7 7/8" OPEN HOLE.If Casing is cemented, show amounts & types used 20 sks Portland Zia I-IIIf 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. Not enough for sample, moisture at 140'Depths gas encountered: N/AType & amount of coke breeze used: Asbury Recarburized - 112 sxDepths anodes placed: 138' to 355'Depths vent pipes placed: 395' to 4' above ground levelVent pipe perforations: 95' to 395'Remarks: Groundbed located 140' N 50° E of NEBU 477

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.

Signed by: Jama K. AllenTitle: Operations EngineerDate: 8/11/93

CP# SS18 WELL# NEB 6-29

S 29 T 30 M R7

DEPTH	STRATA	NOTES	DEPTH	STRATA	NOTES
0'					
10'					
20'					
30'					
40'					
50'					
60'					
70'					
80'					
90'					
100'					

DRILLER Gene Marking

INSPECTOR Joe Matyssek

S 29 T 30 R 0

INSPECTOR James D. Evans

30-039-21903

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. 30 Twp 30 Rng 7Name of Well/Wells or Pipeline Serviced SAN JUAN 30-6 UNIT #9A

cps 1473w

Elevation 6289' Completion Date 8/7/80 Total Depth 540' Land Type* N/ACasing, Sizes, Types & Depths 12' OF SURFACE CASINGIf Casing is cemented, show amounts & types used N/AIf 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' SAMPLE TAKENDepths gas encountered: 540'Type & amount of coke breeze used: 49 SACKSDepths anodes placed: 395', 385', 375', 330', 320', 310', 300', 230', 220', 210'Depths vent pipes placed: 540'Vent pipe perforations: 380'Remarks: gb #1 WATER WENT DOWN HOLE WHILE COKING.**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 LOGDrilling Log (Attach Hereto). ☐

2"X60" Purion

Completion Date 8/7/80

Well Name S.J. 30-6 "9A		Location SE 30-30-7		CPS No. 1473 W	
Type & Size Bit Used 6 3/4"				Work Order No. 57570-21	
Anode Hole Depth 540' T.O. 540'	Total Drilling Rig Time	Total Lbs. Coke Used 49 SACKS	Lost Circulation Mat'l Used	No. Sacks Mud Used	
Anode Depth # 1 295' # 2 385' # 3 375' # 4 330' # 5 320' # 6 310' # 7 300' # 8 230' # 9 220' # 10 210'					
Anode Output (Amps) # 1 2.3 # 2 2.5 # 3 2.1 # 4 2.4 # 5 2.6 # 6 2.8 # 7 2.1 # 8 3.2 # 9 3.4 # 10 3.5					
Anode Depth # 11 # 12 # 13 # 14 # 15 # 16 # 17 # 18 # 19 # 20					
Anode Output (Amps) # 11 # 12 # 13 # 14 # 15 # 16 # 17 # 18 # 19 # 20					
Total Circuit Resistance Volts 10.8 Amps 12.0 Ohms .9	No. 8 C.P. Cable Used		No. 2 C.P. Cable Used		

Remarks: STATIC 600' E. = .76 V INSULATED UNION checked OK
 Driller said WATER AT 180'. Approx. 2 gal./min. Drilled to 300'.
 WATER standing in Hole next A.M. AT 180'. TOOK WATER SAMPLE. Set
 12' of surface casing (1 Hr. Rig Time) Drilled to 540'. HIT GAS,
 came out, & Logged Hole to 540'. INSTALLED 540' of 1" P.V.C.
 VENT pipe Perforated 380'. WATER went DOWN Hole while
 casing.

All Construction Completed

Ditch + 1 cable = 265' ✓
 EXTRA cable = 270' ✓
 20' meter loop pole ✓
 40V 16A Rect. ✓
 Hole Depth + 40' ✓
 1 Hr. Rig Time for setting ✓
 surface casing.

GROUND BED LAYOUT SKETCH




DISTRIBUTION:

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

6289

REPORT NO. 57570-21 DATE August 7 1980

EVENING

Driller		Total Men In Crew
---------	---	-------------------

____ Company Supervisor

El Paso Natural Gas Company
ENGINEERING CALCULATIONSheet _____ of _____
Date _____
By: _____
File: _____S.J. 30-6²9ACPS * 1473 W
SE 30-30-7

W.O. 57570-21

MW	gals/mol
16.04	C ₁ 6.4
30.07	C ₂ 10.12
44.10	C ₃ 10.42
58.12	iC ₄ 12.38
58.12	nC ₄ 11.93
72.15	iC ₅ 13.85
72.15	nC ₅ 13.71
86.18	iC ₆ 15.50
86.18	C ₆ 15.57
100.21	iC ₇ 17.2
100.21	C ₇ 17.46
114.23	C ₈ 19.39
28.05	C ₂ 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 ₂ S	5.17
28.01	N ₂	4.16
2.02	H ₂	3.38

170- 380- 1.7 -
1.9 - ②
80- 90- 1.7
1.4 - ①
90- .5 400- 1.2
.3 .6
200- .4 10- .4
.5 .5
10- 1.9 - ⑩ 20- .6
2.1 .6
20- 1.5 - ⑨ 30- .6
1.9 .9
30- 1.3 - ⑧ 40- 1.5
1.0
40- .5 50- .8
.4 .7
50- .5 60- .6
.5 .6
60- .5 70- .8
.5 .6
70- .5 80- .7
.5 .7
80- .6 90- .6
.6 .7
90- .7 500- .7
.9 .6
300- 1.5 - ⑦ 10- .6
1.7 .7
10- 1.9 - ⑥ 20- .7
1.6 1.4
20- 1.6 - ⑤ 30- 1.3
1.4 1.4
30- 1.4 - ④ 40- T.D
.9
40- .5
.5
50- .6
.6
60- .6
.6
70- .6
1.3 - ③

Driller said WATER AT 180'.
Approx. 294L/min. Drilled
To 300; WATER STANDING
in hole NEXT A.M. AT 180'.
Took WATER SAMPLE. SET 12'
of SURFACE CASING. (1 Hr. Rig
Time) Drilled To 540'. HIT
GAS Logged Hole To 540'.
INSTALLED 540' of 1" P.V.C.
VENT Pipe, Perforated 380'.
WATER WENT DOWN HOLE
while casing.

$$108 \text{ V. } 120 \text{ A.} = 9 \text{ } \Omega$$

8/7/80

JL

1-395'-1.6-2.3
2-385'-1.6-2.5
3-375'-1.4-2.1
4-330'-1.4-2.4
5-320'-1.6-2.6
6-310'-1.8-2.8
7-300'-1.5-2.1
8-230'-1.8-3.2
9-220'-1.9-3.4
10-210'-1.9-3.5

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

Analysis No. 1-10033 Date 11-12-80

Operator El Paso Natural Gas Well Name San Juan 30-6 #9A

Location SE 30-30-7 County Rio Arriba State New Mexico

Field Blanco Formation _____

Sampled From CPS 1473 W @ 180 ft.

Date Sampled 8-7-80 By _____

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

Sodium	138	ppm	6.0	epm	Chloride	24	ppm	0.7	epm
--------	-----	-----	-----	-----	----------	----	-----	-----	-----

Calcium	136	ppm	6.8	epm	Bicarbonate	190	ppm	3.1	epm
---------	-----	-----	-----	-----	-------------	-----	-----	-----	-----

Magnesium	12	ppm	1.0	epm	Sulfate	480	ppm	10.0	epm
-----------	----	-----	-----	-----	---------	-----	-----	------	-----

Iron	No test	ppm	0	epm	Carbonate	0	ppm	0	epm
------	---------	-----	---	-----	-----------	---	-----	---	-----

H ₂ S	No test	ppm	0	epm	Hydroxide	0	ppm	0	epm
------------------	---------	-----	---	-----	-----------	---	-----	---	-----

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

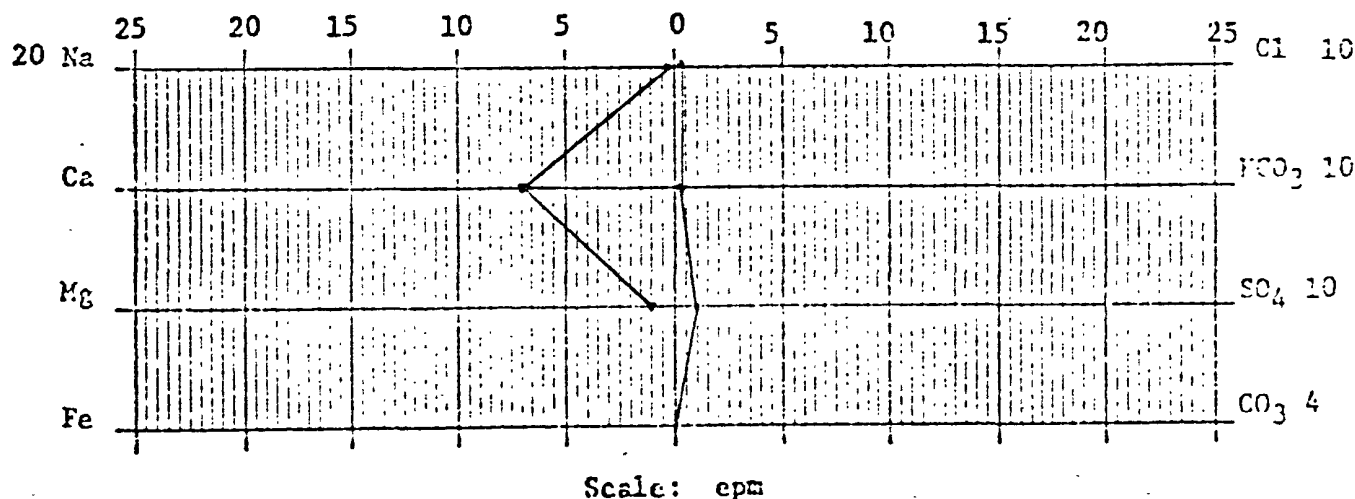
Total Solids Dissolved 1150

pH 7.4

Sp. Gr. .9978 At 60°F

Resistivity 800 ohm-cm at 77°F

Joe Barnett
Chemist



15- 30-039-07757
497- 30-039-24960

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. 29 Twp 30 Rng 7

Name of Well/Wells or Pipeline Serviced SAN JUAN 30-6 UNIT #15, #497

cps 262w

Elevation 6279 Completion Date 8/19/74 Total Depth 660' 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' 390'

Depths gas encountered: N/A

Type & amount of coke breeze used: N/A

Depths anodes placed: 565', 555', 545', 525', 470', 460', 435', 425', 415', 225'

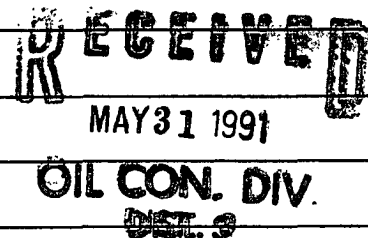
Depths vent pipes placed: N/A

Vent pipe perforations: 405'

Remarks: qb #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.



El Paso Natural Gas Company
Form 7-238 (Rev. 1-69)WELL CASING
CATHODIC PROTECTION CONSTRUCTION REPORT
DAILY LOGDrilling Log (Attach Hereto). ☐Completion Date 8-19-74

Well Name SJ 30-6 # 15		Location SW29-30-7		CPS No. 262 W	
Type & Size Bit Used 634				Work Order No. 40025	
Anode Hole Depth 660	Total Drilling Rig Time	Total Lbs. Coke Used	Lost Circulation Mat'l Used	No. Sacks Mud Used	
Anode Depth					
# 1 565	# 2 555	# 3 545	# 4 525	# 5 470	# 6 460
# 7 435	# 8 425	# 9 415	# 10 225		
Anode Output (Amps)					
# 1 2.3	# 2 2.7	# 3 2.0	# 4 1.4	# 5 2.1	# 6 1.6
# 7 1.4	# 8 2.1	# 9 2.0	# 10 3.6		
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 11.5	Amps 10.8	Ohms 1.06	120'		

Remarks: Driller Said Water at 160 & 390- Start Log at 215'
 Without adding water to hole Approx 1 hr. after Stop Drill
 Vent Perforated 405'
 Pump Coke to 70' of Surface- Complete By Slurry

\$ 3,409.00

48.00 Cable

\$ 3,457.00


675.00 EXTRA Depth

\$ 4,132.00

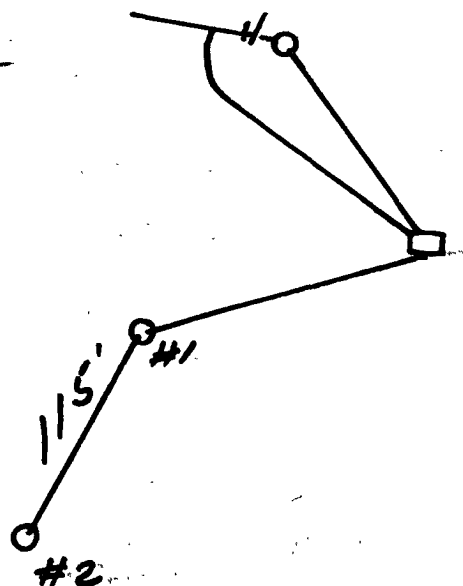
165.28 TAX

\$ 4,297.28 TOTAL

All Construction Completed


 (Signature)

GROUND BED LAYOUT SKETCH



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

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

GENERAL OFFICE
14991 W. 44TH AVENUE
BAILEY OFFICE
CALL 1-838-4821

Date 8-19-74

Location _____
City SARASOTA State FL County _____

[illegible]

C.P.S. Time _____

S.W.W.D.I. Time _____

Total Footage _____

Approval of
C.P.S. Engineer: _____

C.P.S. Engineer

C.P.S. Engineer

Date: _____

By: _____

262W - X = 7.8

115' - B

MW	gas/mol
16	C ₁ 8.4
30	C ₂ 9.56
44	C ₃ 10.42
58	IC ₄ 12.38
72	NC ₄ 11.93
86	NC ₅ 13.71
100	IC ₆ 15.30
114	C ₇ 17.46
128	C ₈ 19.58
142	C ₉ 21.64
156	C ₁₀ 23.67

MW	MISC.	gas/mol
44	CO ₂	0.38
34	H ₂ S	4.19
28	N ₂	4.16
2	H ₂	3.38

180		360	.6	6	540	.8	Driller said wtr at 180 - 390 Start Log at 215 without adding wtr to hole approx 1 Hr.			
			.6	7		.9				
90		70	5	6	58	1.4				
			6	6		1.6	Vent Perf. 405			
200		80	6	6	60	1.4				
			6	6		1.2				
10		90	7	7	70	.6				
	3		7	6		.7				
20	9	400	7	7	80	7				
	9		7	7		7				
30	8	10	8	8	90	7				
	7		11	11		7				
40	7	20	12	13	600	7				
	6		13	11		7				
50	2	30	7	6	10	.8				
	5		6	.8		7				
60	6	40	7		20	7				
	7	TD + 2	6			7	1	565	1.2	1.623
70	5	50	7		30	1.1	2	555	1.6	1.827
	3		7			1.3	3	545	.8	1.220
80	4	60	9		40	.8	4	525	.8	.914
	4		1.4			.6	5	470	1.4	1.621
90	4	70	1.4		50	4	6	460	9	1.016
	4		7			3	7	435	8	.914
200	4	80	6		60 TD	3	8	425	1.1	1.421
	4		7				9	415	1.1	1.120
10	3	90	7				10	225	9	1.836
	3		7							
20	2	500	7							
	2		7							
30	5	10	7							
	5		7							
40	5	20	7							
	5		.8							
50	5	30	7							
	6		7							

115V 10.8A = 1.06 ~

108
700

30-039-21902

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. 29 Twp 30 Rng 7
Name of Well/Wells or Pipeline Serviced SAN JUAN 30-6 UNIT #15A
cps 1474w
Elevation 6311' Completion Date 8/6/80 Total Depth 560' Land Type* N/A
Casing, Sizes, Types & Depths N/A
If Casing is cemented, show amounts & types used N/A
If Cement or Bentonite Plugs have been placed, show depths & amounts used
N/A
Depths & thickness of water zones with description of water when possible:
Fresh, Clear, Salty, Sulphur, Etc. 120' SAMPLE TAKEN
Depths gas encountered: N/A
Type & amount of coke breeze used 56 SACKS
Depths anodes placed: 470', 390', 383', 375', 285', 277', 269', 261', 253', 245'
Depths vent pipes placed: 530'
Vent pipe perforations: 410'
Remarks: gb #1

RECEIVED
MAY 31 1981
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 LOGDrilling Log (Attach Hereto). ☐

2"X60" DUTION

Completion Date 8/6/80

Well Name S.J. 30-6 15A		Location SE 29-30-7		CPS No. 1474 V	
Type & Size Bit Used 6 3/4"				Work Order No. 57571-21	
Anode Hole Depth 560' T.D. 530'	Total Drilling Rig Time	Total Lbs. Coke Used 56 SACKS	Lost Circulation Mat'l Used	No. Sacks Mud Used	
Anode Depth	# 1 470'	# 2 390'	# 3 383'	# 4 375'	# 5 285'
	# 6 277'	# 7 269'	# 8 261'	# 9 253'	# 10 245'
Anode Output (Amps)	# 1 1.8	# 2 2.7	# 3 2.6	# 4 2.3	# 5 2.0
	# 6 2.4	# 7 2.6	# 8 2.9	# 9 3.3	# 10 3.1
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 11.7		Amps 11.4		Ohms 1.03
	No. 8 C.P. Cable Used		No. 2 C.P. Cable Used		

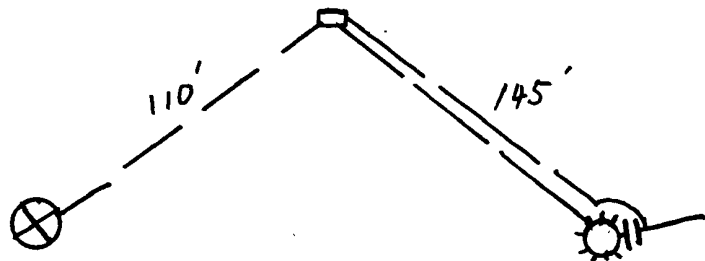
Remarks: STATIC 600' W = .80V INSULATED UNION CHECKED OK
 DRILLER SAID WATER AT 120', APPROX. 29 GAL./MIN. TOOK WATER SAMPLE
 DRILLED TO 560', LOGGED HOLE NEXT AM. TO 530'. INSTALLED 530'
 OF 1" P.V.C. VENT PIPE, PERFORATED 410'.

Ditch & 1 cable = 255'
 extra cable = 175'
 stub pole ✓
 40V 16A RECT. ✓
 Hole Depth + 30' ✓

All Construction Completed

GROUND BED LAYOUT SKETCH

(Signature)
 14 Hr. Reg.
 2 Hr. O.T.



DISTRIBUTION:

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

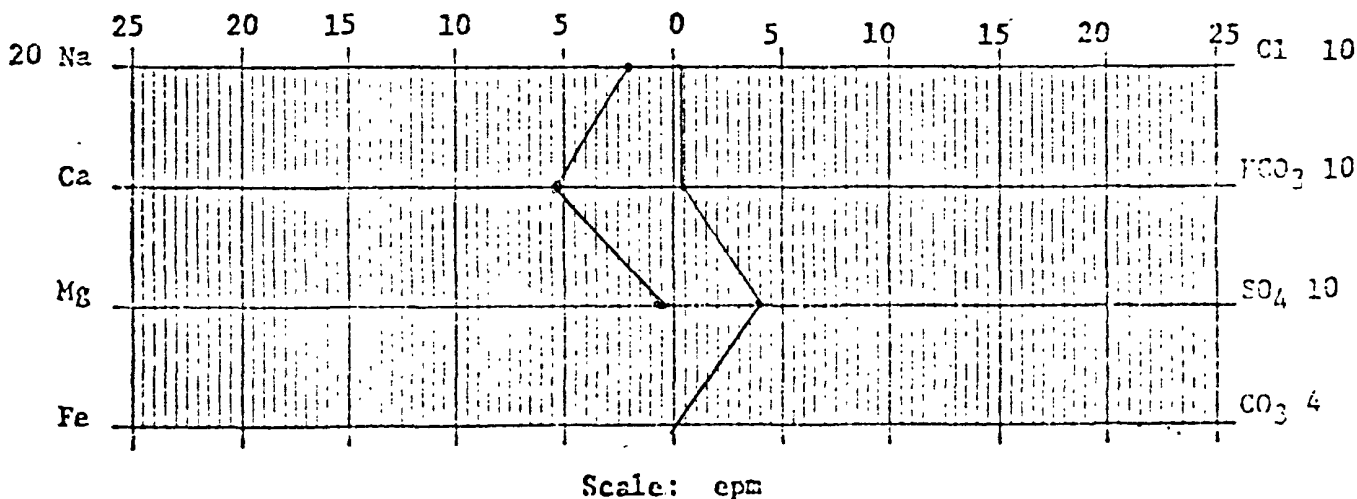
6311

SIGNED: Toolpusher Kevin Buge Company Supervisor _____

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

Analysis No. 1-10032 Date 11-12-80
Operator El Paso Natural Gas Well Name San Juan 30-6 #15A
Location SE 29-30-7 County Rio Arriba State New Mexico
Field Blanco Formation _____
Sampled From CPS 1474 W @120 ft.
Date Sampled 8-6-80 By _____
Tbg. Press. _____ Csg. _____ Surface Csg. Press. _____
ppm epm ppm epm
Sodium 947 41.2 Chloride 52 1.5
Calcium 104 5.2 Bicarbonate 346 5.7
Magnesium 9 0.7 Sulfate 1920 39.9
Iron No test Carbonate 0 0
H₂S No test Hydroxide 0 0
cc: C.B. O'Nan Total Solids Dissolved 3154
R.A. Ullrich
E.R. Paulek
J.W. McCarthy
A.M. Smith
W.B. Shropshire
D.C. Adams
File
pH 7.4
Sp. Gr. .9987 At _____ 60°F
Resistivity 227 ohm-cm at _____ 77°F

Joe Barnett
Chemist



Sheet: 01
Date: _____
By: _____
File: _____

CPS # 1474 W

S.J. 30-6 #15 A

SE 29-30-7

W.O. 57571-21

MW	gals/mol
16.04	C1 6.4
30.07	C2 10.12
44.10	C3 10.42
58.12	iC4 12.38
58.12	nC4 11.93
72.15	iC5 13.85
72.15	nC5 13.71
86.18	iC6 15.50
86.18	C6 15.57
100.21	iC7 17.2
100.21	C7 17.46
114.23	C8 19.39
28.05	C2# 9.64
42.08	C3# 9.67

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

Driller SAID WATER AT 120', Approx. 2 GAL./min. Took 1.4 WATER SAMPLE. Drilled To 560, Logged Hole Next A.M. To 530. Installed 530' of 1" P.V.C. VENT Pipe Perforated 410'.

120-1.0 310-.5 510-.9
 .8 .4
 30-.9 20-.3 20-1.7
 1.3 .6
 40-.8 30-.5 30-
 .5 .3
 50-.4 40-.8 40-
 .8 .8
 60-.8 50-.8 50-
 .5 .7
 70-.3 60-.7 60-
 .3 .7
 80-.2 70-.7
 .2 1.5 - ④
 90-.4 80-1.2 - ③
 1.13 1.6 - ③
 200-.9 90-1.4 - ②
 .8 .9
 10-.7 400-.9
 .6 .8
 20-.3 10-.8
 .2 .7
 30-.5 20-.7
 .7 .8
 40-.4 30-.9
 1.3 - ⑩ .8
 50-1.7 40-.8
 2.0 - ⑨ .8
 60-2.1 50-.8
 2.3 1.0
 70-2.0 - ⑦ 60-1.0
 1.8 1.1
 80-1.6 - ⑥ 70-1.4 - ①
 1.5 - ⑤ .9
 90-.7 80-.6
 .6 .7
 300-.4 90-.7
 .4 .7
 500-.8
 .9

11.7 V. 11.4 A. = 103 Ω
 8/6/80
 JR

1-470-1.3-1.8
 2-390-1.6-2.7
 3-383-1.9-2.6
 4-375-1.5-2.3
 5-285-1.3-2.0
 6-277-1.4-2.4
 7-269-1.8-2.6
 8-261-2.1-2.9
 9-253-1.1-3.3
 10-245-1.8-3.10

30-039-07729

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

Operator MERIDIAN OIL Location: Unit NE Sec. 32 Twp 30 Rng 7Name of Well/Wells or Pipeline Serviced SAN JUAN 30-6 UNIT #47cps 279wElevation 6211' Completion Date 3/22/63 Total Depth 100' Land Type* N/ACasing, Sizes, Types & Depths N/AIf Casing is cemented, show amounts & types used N/AIf Cement or Bentonite Plugs have been placed, show depths & amounts used
N/ADepths & thickness of water zones with description of water when possible:
Fresh, Clear, Salty, Sulphur, Etc. N/ADepths gas encountered: N/AType & amount of coke breeze used: 850 lbs.Depths anodes placed: 90', 84', 55', 49', 43', 31'Depths vent pipes placed: N/AVent pipe perforations: N/ARemarks: qb-#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.

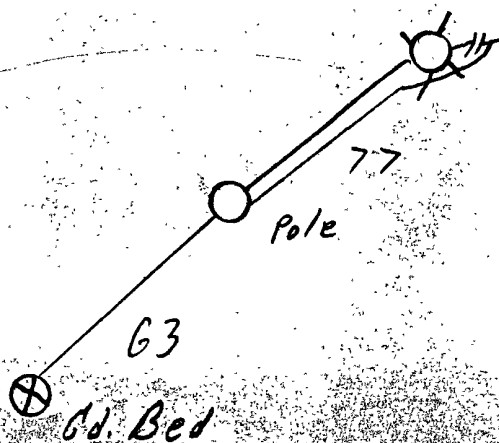
WELL CASING
CATHODIC PROTECTION CONSTRUCTION REPORT
DAILY LOG

S.J. 30-6 ^{#47} ~~ATLANTA #1~~ DATE 3-22-63
WELL NAME Southern Union State #1 CPS NO. 279W
LOCATION 32-30N-7W
WORK ORDER NUMBER 184-40542-50-02
ANODE HOLE DEPTH 100'
TOTAL DRILLING RIG TIME 3 Hrs
DRILLING TIME FOR RECTIFIER POLE HOLE 0
TYPE AND SIZE BIT USED _____
NUMBER SACKS MUD USED 2
NUMBER SACKS LOST CIRCULATION MAT'L USED 0
ANODE DEPTHS #1 90', #2 84', #3 55', #4 49' 543 631'
TOTAL LBS. COKE USED 850 lbs
ANODE OUTPUTS 12 VOLTS, #1 2.3, #2 2.4, #3 2.4, #4 2.8 5.2.6 6 2.
TOTAL CIRCUIT RESISTANCE: VOLTS 11.7 AMPERES 6.8 OHMS 1.72
NUMBER FEET SURFACE CABLE CONDUIT 263'
DRILLING LOG (ATTACH HERETO).
FORMATION LOG (ATTACH HERETO).
REMARKS: Static C/S = .62 R 600 NW

ALL CONSTRUCTION COMPLETED

E. Paehl
SIGNATURE

GROUND BED LAYOUT SKETCH



ORIGINAL & 1 COPY
ALL REPORTS

1104'

30-039-07729

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

Operator MERIDIAN OIL Location: Unit NE Sec. 32 Twp 30 Rng 7Name of Well/Wells or Pipeline Serviced SAN JUAN 30-6 UNIT #47

cps 279w

Elevation 6211' Completion Date 8/4/70 Total Depth 540' Land Type* N/ACasing, Sizes, Types & Depths N/A

RECEIVED

MAY 31 1991

If Casing is cemented, show amounts & types used N/AOIL CON. DIV
DIST. 3

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. 80'Depths gas encountered: N/A HOLE MAKING SMALL AMOUNT OF GAS.Type & amount of coke breeze used: 96 SACKSDepths anodes placed: 510', 495', 485', 475', 465', 310', 300', 190', 165', 90'Depths vent pipes placed: N/AVent pipe perforations: 450'Remarks: gb #2 ANODES #4 & #5 + #6 & #7 ARE DUAL. ALL OTHERS SINGLEHOLE MAKING SMALL AMOUNT OF GAS

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

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

El Paso Natural Gas Company

Form 7-238 (Rev. 1-69)

WELL CASING

CATHODIC PROTECTION CONSTRUCTION REPORT

DAILY LOG

GHD BED No. 2

Contract By G.P.S.

Completion Date 8-4-70

Drilling Log (Attach Hereto) ☐

Well Name SJ 30-6 #47		Location NE 32-30-7		CPS No. 279 W	
Type & Size Bit Used 6 3/4"				Work Order No. 184-40084-50-2	
Anode Hole Depth 540'	Total Drilling Rig Time	Total Lbs. Coke Used	Lost Circulation Mat'l Used	No. Sacks Mud Used	
Anode Depth					
# 1 510	# 2 495	# 3 485	# 4 475	# 5 465	# 6 310
# 7 300	# 8 190	# 9 165	# 10 90		
Anode Output (Amps)					
# 1 1.8	# 2 2.0	# 3 3.0	# 4 3.2	# 5 3.2	# 6 3.4
# 7 3.4	# 8 2.2	# 9 2.5	# 10 2.4		
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 11.5	Amps 13.2	Ohms 0.87			

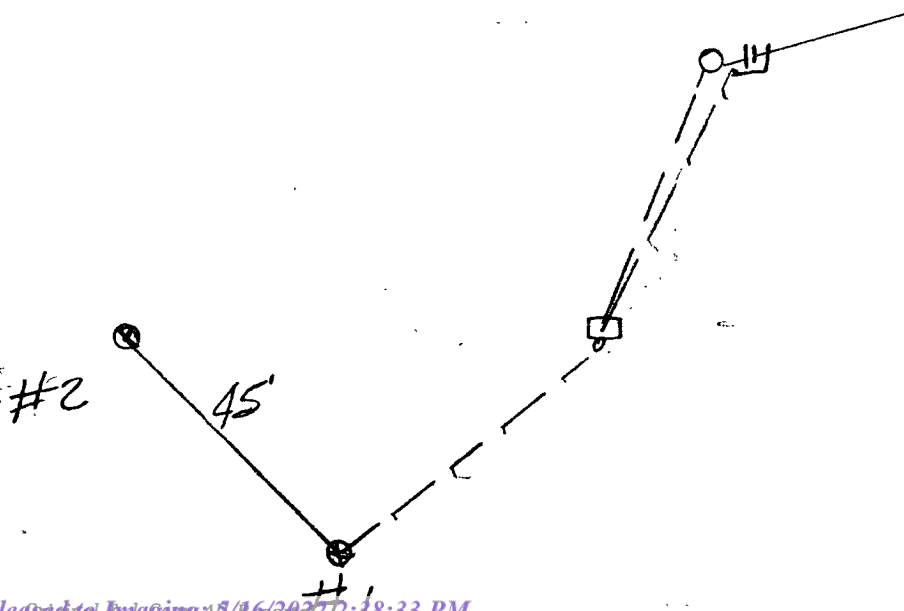
Remarks: Driller said Blew water to surface from 80'
 Vent Hose Perforated 450' -
 Anodes 4 & 5 - 6 & 7 are Dual - all others single
 Pump. 87 Coke - Dump Total
 Note - Hole making small amount of Gas -

Pay 535'
 No Extra anodes

All Construction Completed

Amels
 (Signature)

GROUND BED LAYOUT SKETCH



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

Category	Value
1	6.4
2	9.56
3	10.42
4	12.38
5	11.93
6	13.85
7	15.57
8	17.2
9	17.46
10	19.38
11	19.38
12	28
13	42

Water of 80' - Good Return

Date:

3828

30-039-07729

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

Operator Meridian Oil Co. Location: Unit H Sec. 32 Twp 30 Rng 07

Name of Well/Wells or Pipeline Serviced _____

SAN JUAN 30-6 UNIT #47

Elevation 6211 Completion Date 1-6-93 Total Depth 520' Land Type S

Casing Strings, Sizes, Types & Depths 11/6 Set 99' of 8" PVC Casing

NO WATER, GAS, or Boulders were encountered during casing

If Casing Strings are cemented, show amounts & types used Cemented

WITH 21 SACKS

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

Coke at 110', mixed 10 bags cement, Set 20' cement plug.

Depths & thickness of water zones with description of water: Fresh, Clear,

Salty, Sulphur, Etc. 230'

RECEIVED

JAN 31 1994

Depths gas encountered: 460'

Ground bed depth with type & amount of coke breeze used: OIL CON 1.

77 sacks of (100lb) Varesin type 50 mesh breeze

Depths anodes placed: 495', 487', 477', 467', 455', 445', 310', 302', 293', 284', 250', 190'

Depths vent pipes placed: 520'

Vent pipe perforations: bottom 340'

Remarks: No pressure is lifting water, its not natural flow.

Installed Valve on Vent pipe.

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

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

Call 3/22 Cg

API WATER ANALYSIS REPORT FORM

Laboratory No. 25-930316-14		Sample No.		Date Sampled	
Company MERIDIAN OIL		Legal Description H-32-30-7		County or Parish	
Field 279W		Well S.J. 30-6 # 47		Depth 230'	
Lease or Unit Fresh, Clear		Formation Grand Bay		Water, B/D	
Type of Water (Produced, Supply, etc.)		Sampling Point		Sampled By	

DISSOLVED SOLIDS

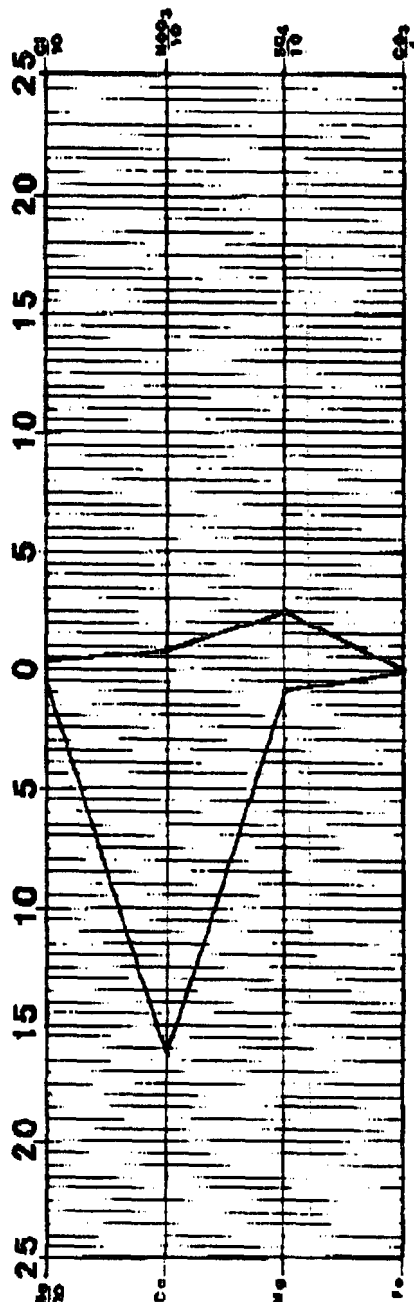
CATIONS	mg/l	me/l	OTHER PROPERTIES
Sodium, Na (calc.)	420	18	pH 7.24
Calcium, Ca	329	16.4	Specific Gravity, 60/60 F. 1.0051
Magnesium, Mg	12	1	Resistivity (ohm-meters) 12 F. 3.15
Barium, Ba			

ANIONS

ANIONS	mg/l	me/l	OTHER PROPERTIES
Chloride, Cl	100	2.8	Total Dissolved Solids (calc.) 2,530
Sulfate, So ₄	1190	24.7	
Carbonate, CO ₃			
Bicarbonate, HCO ₃	490	8	

REMARKS & RECOMMENDATIONS

ATTN: Bill Donahue



TECH, Inc.
333 East Main
Farmington
New Mexico
87401
505/327-3311

Post-It™ brand fax transmittal memo 7671		# of pages > 17
To Bill Donahue	From	
Co. Meridian	Co. Tech	
Dept.	Phone # 327-3311	
Fax # 326-9833	Fax # 328-3311	

Date Received March 16th, 1993	Preserved	Date Analyzed March 19th, 1993	Analyzed By R.H.
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94- 30-039-18241 4354

428- 30-039-24381

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. 28 Twp 30 Rng 7Name of Well/Wells or Pipeline Serviced SAN JUAN 30-6 UNIT #94. #428cps 137wElevation 6270' Completion Date 3/23/63 Total Depth 100' Land Type* N/ACasing, Sizes, Types & Depths N/AIf Casing is cemented, show amounts & types used N/AIf Cement or Bentonite Plugs have been placed, show depths & amounts used
N/ADepths & thickness of water zones with description of water when possible:
Fresh, Clear, Salty, Sulphur, Etc. N/ADepths gas encountered: N/AType & amount of coke breeze used: 680 lbs.Depths anodes placed: 80', 64', 58', 52', 46'Depths vent pipes placed: N/AVent pipe perforations: N/ARemarks: gb #1**RECEIVED**

MAY 31 1991

OIL CON. DIV.
DIST. 3

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

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

WELL CASING
CATHODIC PROTECTION CONSTRUCTION REPORT
DAILY LOG

DATE 3-23-63

WELL NAME WH. Key 4-B 30-6 #74 CPS NO. 137W

LOCATION 28-30N-7W

WORK ORDER NUMBER 484-40642-50-02

ANODE HOLE DEPTH 100'

TOTAL DRILLING RIG TIME 5 hrs

DRILLING TIME FOR RECTIFIER POLE HOLE _____

TYPE AND SIZE BIT USED _____

NUMBER SACKS MUD USED 0

NUMBER SACKS LOST CIRCULATION MAT'L USED 0

ANODE DEPTHS #1 80', #2 64', #3 58', #4 52' 546'

TOTAL LBS. COKE USED 680 lbs

ANODE OUTPUTS 12 VOLTS, #1 3.0, #2 3.2, #3 3.2, #4 3.6 53.4

TOTAL CIRCUIT RESISTANCE: VOLTS 11.6 AMPERES 8.4 OHMS 1.38

NUMBER FEET SURFACE CABLE CONDUIT 368'

DRILLING LOG (ATTACH HERETO).

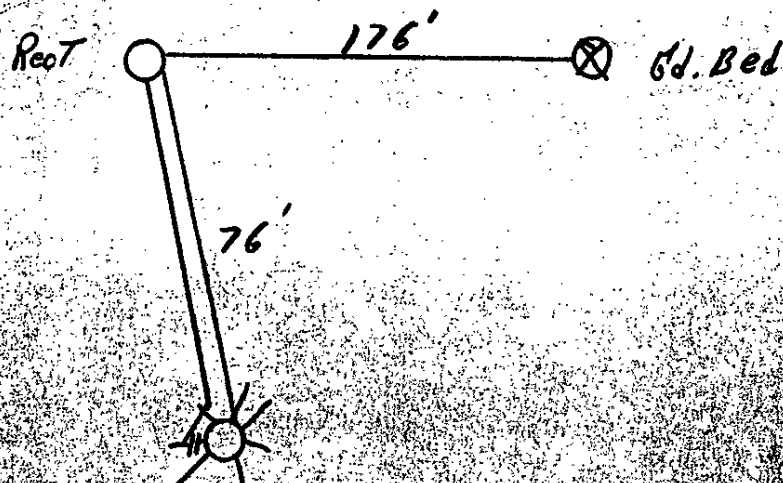
FORMATION LOG (ATTACH HERETO).

REMARKS: Static $\gamma_s = .71$ R 600' W

ALL CONSTRUCTION COMPLETED

E. Paulk
SIGNATURE

GROUND BED LAYOUT SKETCH



ORIGINAL & 1 COPY
ALL REPORTS

Released to Imaging: 5/16/2022 2:38:33 PM

44 = 30-039-18241
428 = 30-039-24381

4353

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. 28 Twp 30 Rng 7

Name of Well/Wells or Pipeline Serviced SAN JUAN 30-6 UNIT #94, #428

cps 137w

Elevation 6270' Completion Date 8/19/74 Total Depth 640' 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' BIG WATER 380' - 400'

Depths gas encountered: N/A

Type & amount of coke breeze used: 11600 lbs.

Depths anodes placed: 610', 590', 575', 550', 540', 525', 495', 485', 475', 450'

Depths vent pipes placed: N/A

Vent pipe perforations: 430'

Remarks: gb #2

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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.

El Paso Natural Gas Company
Form 7-238 (Rev. 1-69)WELL CASING
CATHODIC PROTECTION CONSTRUCTION REPORT
DAILY LOGDrilling Log (Attach Hereto). ☐LOGGED
Completion Date 8/19/74

Well Name <u>SAN JUAN 30-6 #94</u>		Location <u>SW 28-30N-7W</u>		CPS No. <u>137 W</u>	
Type & Size Bit Used <u>6 3/4"</u>				Work Order No. <u>40073</u>	
Anode Hole Depth <u>640'</u>	Total Drilling Rig Time	Total Lbs. Coke Used <u>11,600 EST</u>	Lost Circulation Mat'l Used	No. Sacks Mud Used	
Anode Depth					
# 1 <u>610</u>	# 2 <u>590</u>	# 3 <u>575</u>	# 4 <u>550</u>	# 5 <u>540</u>	# 6 <u>525</u>
# 7 <u>495</u>	# 8 <u>485</u>	# 9 <u>475</u>	# 10 <u>450</u>		
Anode Output (Amps)					
# 1 <u>2.0</u>	# 2 <u>1.7</u>	# 3 <u>2.0</u>	# 4 <u>2.5</u>	# 5 <u>2.4</u>	# 6 <u>1.7</u>
# 7 <u>1.8</u>	# 8 <u>2.6</u>	# 9 <u>2.1</u>	# 10 <u>1.8</u>		
Anode Depth					
# 11	# 12	# 13	# 14	# 15	# 16
# 17	# 18	# 19	# 20		
Anode Output (Amps)					
# 11	# 12	# 13	# 14	# 15	# 16
# 17	# 18	# 19	# 20		
Total Circuit Resistance					
Volts <u>11.8</u>	Amps <u>9.0</u>	Ohms <u>1.31</u>		No. 8 C.P. Cable Used <u>115'</u>	No. 2 C.P. Cable Used

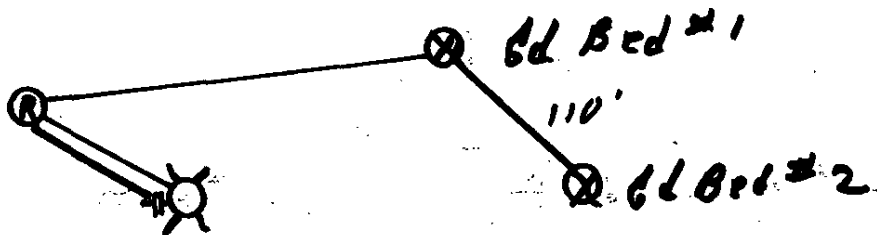
Remarks: Driller said moisture @ 150' water @ 180'
Big water @ 380' - 400'. water standing @ 180'
AFTER 1hr VENT HOSE PERFORATED 430'
Pumped ~~Two~~ ^{Three} leads water to above water zone.

\$3,409.00
46.00 Cable
\$3,455.00
1,012.50 EXTRA DEPTH
\$4,467.50
178.70 TAX
\$4,646.20

All Construction Completed

Edward R. Pauls
 (Signature)

GROUND BED LAYOUT SKETCH



Original & 1 Copy All Reports

STORM WATER WELL DRILLING INC.

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

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

GENERAL OFFICE
14991 W. 44TH AVENUE
BAILEY OFFICE
CALL 1-838-4821

Drill CPS #137 W

Date 8-19-74

Owner _____

Location

City _____ State _____ County _____

From	To	Formation	Color	Hardness
0	20	Sand	tan	Soft
20	170	Shale	Blue Grey	Med
170	200	Sandy Shale	Grey	"
200	400	Sand	"	"
400	410	Sandy Shale	"	"
410	480	Shale	Blue	"
480	510	Sand	Grey	"
510	580	Shale + Sand	"	"
580	600	Sand	"	"
600	640	Sandy Shale	"	"
moisture @ 150				
Inject @ 150				
water @ 180				
" @ 280-400				

Total Hours _____

Equipment Down Time _____

Hours Drilling 10

Driller Bill

Helper Ray

Helper 2nd

C.P.S. Time _____

S.W.W.D.I. Time _____

Total Footage _____

Approval of

C.P.S. Engineer _____

Date: _____

By: _____

137 W

X = 11.9

MW	gas/mol
16	C
30	CO
44	CO ₂
58	H ₂ O
72	H ₂
86	HCN
100	CO ₂
114	CO
128	C ₂ H ₆
142	C ₂ H ₄

180	.3		60	.8	③ 40	1.1	Driller said MOS. T
	.3			.7		1.2	@ 150' water @
90	.3		70	.7	④ 50	1.2	180' big water @
	.3			.7		1.0	380' - 400'
200	.4		80	.7	60	.7	VENT Pipe Perforated
	.4			.7		.6	430'
10	.3		90	.6	70	.9	Water standing
	.3			.7	③	1.0	@ 180' AFTER 1825
10	.3		400	.7	80	.8	
	.1			.8		.8	
30	.1		10	.7	④ 90	.8	While pumping
	.1			.7		.7	second load water
40	.1		20	.7	600	.7	at location
	.2			.7		.8	come back and
50	.4		30	.7	④ 10	1.0	contractor was
	.4			.7		.9	dry slitting
60	.4		40	.7	20	.7	told him to
	.5			.8		1.6	complete by
70	.5	⑩ 50	1.1		30	.9	pumping
	.5		.8			1.0	
80	.5		60	.8	40		
	.5		.8				
90	.5		70	.9			water coke
	.9	①	1.1		1	610	1.0
300	.8		80	1.5	2	590	.8
	.7	②	1.6		3	575	1.1
10	.7		90	1.4	4	550	1.2
	.5	③	1.2		5	540	1.3
20	.5		500	.6	6	525	.8
	.7		.7		7	495	1.2
30	.7		10	.7	8	485	1.7
	.9		.8		9	475	1.2
40	.7		20	.8	10	450	1.2
	.8	④	.8				
50	.7		30	.8		11.84	9.0A
	.8		.8				1.31-2

MW	gas/mol
16	C
30	CO
44	CO ₂
58	H ₂ O
72	H ₂
86	HCN
100	CO ₂
114	CO
128	C ₂ H ₆
142	C ₂ H ₄

30-039-22654

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. 28 Twp 30 Rng 7Name of Well/Wells or Pipeline Serviced SAN JUAN 30-6 UNIT #94A

cps 1693w

Elevation 6325 Completion Date 9/6/83 Total Depth 480' Land Type* N/ACasing, Sizes, Types & Depths N/AIf Casing is cemented, show amounts & types used N/A

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

N/A

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

Fresh, Clear, Salty, Sulphur, Etc. 130' NO SAMPLEDepths gas encountered: N/AType & amount of coke breeze used: 4800 lbs.Depths anodes placed: 375', 370', 315', 310', 305', 300', 190', 185', 180', 175'Depths vent pipes placed: 485'Vent pipe perforations: 400'Remarks: gb #1

RECEIVED
MAY 31 1991
OIL CON. DIV.
1051.3

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

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

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

WELL CASING
CATHODIC PROTECTION CONSTRUCTION REPORT
DAILY LOGDrilling Log (Attach Hereto) ☒Completion Date 9-6-83

CPS #	Well Name, Line or Plant:	Work Order #	Static:	Ins. Union Check
1693-W	S.J 30-6 #94A	59110-21-SD-20-44	-76 600'SE	68mA
				<input checked="" type="checkbox"/> Good <input type="checkbox"/> Bad
Location:	Anode Size:	Anode Type:	Size Bit:	
NW 28-30-7	2" X 60"	Ducron	6 3/4	
Depth Drilled	Depth Logged	Drilling Rig Time	Total Lbs. Coke Used	Lost Circulation Mat'l Used
480'	480'		4,800'	
Anode Output Depth				
# 1 2.40	# 2 2.20	# 3 3.70	# 4 3.90	# 5 3.60
# 6 3.40	# 7 3.00	# 8 3.40	# 9 2.90	# 10 2.90
# 1 375	# 2 370	# 3 315	# 4 310	# 5 305
# 6 300	# 7 190	# 8 185	# 9 180	# 10 175
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 12.3	Amps 12	Ohms 102		

Remarks: Drilled to 120' with only moist spots. 3 Days later Drilled to 130', Hit water, started Injection with soap. Installed 485' of 1" pvc vent pipe of which 400' was perforated. Miller Est. rates Hole @ 30 to 40 g.p.m. Slurried approx. 4,800 lbs Coke Down Hole. no water sample.

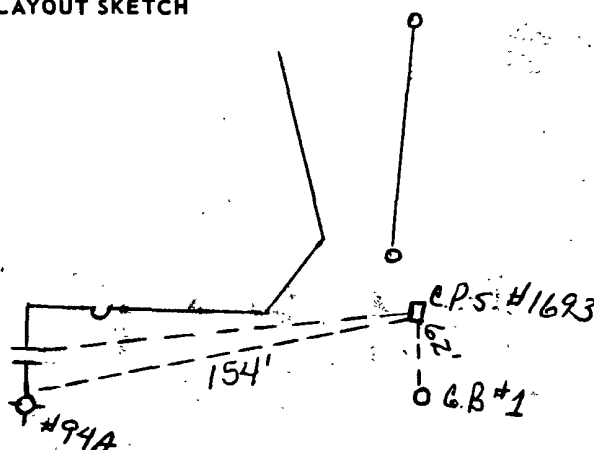
Rectifier Size: 40 V 16 A ✓
 Addn'l Depth _____
 Depth Credit: 20' ✓
 Extra Cable: 169' ✓
 Ditch & 1 Cable: 216' ✓
 25' Meter Pole: _____
 20' Meter Pole: 20' mp ✓
 10' Stub Pole: _____

All Construction Completed

C. W. Donohue
 (Signature)

GROUND BED LAYOUT SKETCH

Reg time	over time
8 hrs	2 hrs

☒


SIGNED: Toolpusher _____ Company Supervisor _____

El Paso Natural Gas Company
ENGINEERING CALCULATIONSheet:
Date:
By:
File:

C.P.S. 1693-W

NW 28-30-7

S J 30-6 #94A

W.O.# 59110-21-50-20-64

Static = 76 600' SE

Union CK = 68MA OK

Drilled to 120' with only moss
spots. Drilled to 130' hit water
Started injection with 5 gal.
Installed 485' of 1" PVC
vent pipe 400' with perforations.
Driller Estimates Hole @
30 to 40 g.p.m.
Spurred approx. 4,800 lbs Coke
Down Hole
Drilled: 480'
Logged: 480'
NO Water Sample

MW	gals/mol
16.04	C1 6.4
30.07	C2 10.12
44.10	C3 10.42
58.12	iC4 12.38
58.12	nC4 11.93
72.15	iC5 13.85
72.15	nC5 13.71
86.18	iC6 15.50
86.18	C6 15.57
100.21	iC7 17.2
100.21	C7 17.46
114.23	C8 19.39
28.05	C2 9.64
42.08	C3 9.67

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

1	30	355	.6		
	35	60	.6		
	40	65	.7		
	45 .5	70	.8	①	
	50 .6	75	.8	①	
	55 .6	80	.4		
	60 .9	85	.4		
	70 1.2	90	.3		
	75 1.1	95	.6		
	80 1.2	400	.4		
	85 1.2	05	.3		
	90 1.0	10	.4		
	95 .5	15	.4		
2	00 .3	20	.4		
	05 .3	25	.4		
	10 .3	30	.4		
	15 .2	35	.4		
	20 .2	40	.4		
	25 .2	45	.4		
	30 .2	50	.3	①	375 .90 2.40
	35 .2	55	.3	②	370 .90 2.20
	40 .2	60	.3	③	315 1.40 3.70
	45 .2	65	.3	④	310 1.30 3.90
	50 .5	70	.3	⑤	305 1.20 3.60
	55 .4	75	.3	⑥	300 1.20 3.40
	60 .3	80	TD	⑦	190 1.20 3.00
	65 .3	85		⑧	185 1.50 3.40
	70 .3	90		⑨	180 1.40 2.90
	75 .3	95		⑩	175 1.20 2.90
	80 .4	500			
	85 .4				
	90 .4				
	95 .6				
3	00 1.0				
	05 1.0				
	10 1.2				
	15 1.1				
	20 .7				
	25 .7				
	30 .7				
	35 .5				
	40 .4				
	45 .4				
	50 .6				

12.3 V 12A Ω 1.02

15- 30-039-07757
497- 30-039-24960

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 29 Twp 30 Rng 7

Name of Well/Wells or Pipeline Serviced SAN JUAN 30-6 UNIT #15, #497

cps 262w

Elevation 6279' Completion Date 3/23/63 Total Depth 300' Land Type* N/A

Casing, Sizes, Types & Depths N/A

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

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

Depths & thickness of water zones with description of water when possible:
Fresh, Clear, Salty, Sulphur, Etc. N/A

Depths gas encountered: N/A

Type & amount of coke breeze used: 2145lbs

Depths anodes placed: 221', 215', 209', 203', 147', 120'

Depths vent pipes placed: N/A

Vent pipe perforations: N/A

Remarks: gb #1

RECEIVED
MAY 31 1991
OIL CON. DIV
DIST. 3

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

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

WELL CASING
CATHODIC PROTECTION CONSTRUCTION REPORT
DAILY LOG

DATE 3-23-63WELL NAME SAN JUAN 30-6 #15CPS NO. 262WLOCATION 29-30N - 7WWORK ORDER NUMBER 184-40542-50-02ANODE HOLE DEPTH 300'TOTAL DRILLING RIG TIME 13 h 25DRILLING TIME FOR RECTIFIER POLE HOLE 0TYPE AND SIZE BIT USED 0NUMBER SACKS MUD USED 2NUMBER SACKS LOST CIRCULATION MAT'L USED 0ANODE DEPTHS #1 221', #2 215', #3 209', #4 203' 5 147' 6 141' 7 120'TOTAL LBS. COKE USED 2145 lbsANODE OUTPUTS 12 VOLTS, #1 16, #2 23, #3 2.8, #4 1.85 1.2 6 1.87TOTAL CIRCUIT RESISTANCE: VOLTS 11.6 AMPERES 7 OHMS 1.76NUMBER FEET SURFACE CABLE ~~CONDUIT~~ 414'

DRILLING LOG (ATTACH HERETO).

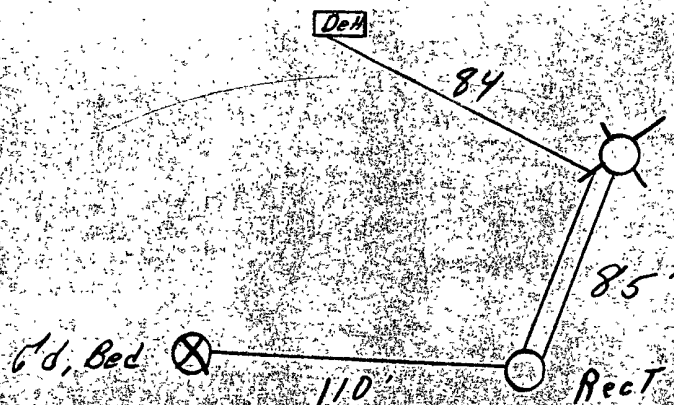
FORMATION LOG (ATTACH HERETO).

REMARKS: Static 95 = 71 R 600' SInsulating Union on Dehydrator

ALL CONSTRUCTION COMPLETED

E. Parikh
SIGNATURE

GROUND BED LAYOUT SKETCH



ORIGINAL & 1 COPY
ALL REPORTS

1785'

© 1994 by The McGraw-Hill Companies, Inc.

30-039-24070

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

Operator Cinco Ltd. Location: Unit D Sec. 32 Twp 30N Rng 7WName of Well/Wells or Pipeline Serviced State Pat #1Elevation 6186' Completion Date 2/5/87 Total Depth 300' Land Type* State
GR E-178Casing, Sizes, Types & Depths NoneIf Casing is cemented, show amounts & types used NoneIf Cement or Bentonite Plugs have been placed, show depths & amounts used
NoneDepths & thickness of water zones with description of water when possible:
Fresh, Clear, Salty, Sulphur, Etc. 110'-118', Description not available
125'-135', Description not availableDepths gas encountered: Present, depth encountered not noted.Type & amount of coke breeze used: 2200#Depths anodes placed: 130', 140', 160', 170', 180', 210', 225', 240', 255'
& 270'Depths vent pipes placed: 300'-1" PVCVent pipe perforations: N/A

Remarks: _____

RECEIVED
FEB 21 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.

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

Operator Cinco Ltd. Location: Unit D Sec. 32 Twp 30N Rng 7W

Name of Well/Wells or Pipeline Serviced State Pat #1

Elevation 6186' Completion Date 2/5/87 Total Depth 300' Land Type* State
GR E-178

Casing, Sizes, Types & Depths None

If Casing is cemented, show amounts & types used None

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

Depths & thickness of water zones with description of water when possible:
Fresh, Clear, Salty, Sulphur, Etc. 110'-118', Description not available
125'-135', Description not available

Depths gas encountered: Present, depth encountered not noted.

Type & amount of coke breeze used: 2200#

Depths anodes placed: 130', 140', 160', 170', 180', 210', 225', 240', 255'

Depths vent pipes placed: 300'-1" PVC & 270'

Vent pipe perforations: N/A

Remarks: _____

RECEIVED

FEB 21 1991

OIL CON. DIV.
DIST. 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.

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

Operator Cinco Ltd. Location: Unit D Sec. 32 Twp 30N Rng 7W

Name of Well/Wells or Pipeline Serviced State Pat #1

Elevation 6186' Completion Date 2/5/87 Total Depth 300' Land Type* State
GR E-178

Casing, Sizes, Types & Depths None

If Casing is cemented, show amounts & types used None

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

Depths & thickness of water zones with description of water when possible:
Fresh, Clear, Salty, Sulphur, Etc. 110'-118', Description not available
125'-135', Description not available

Depths gas encountered: Present, depth encountered not noted.

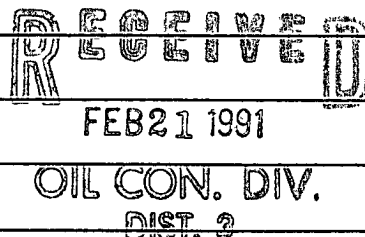
Type & amount of coke breeze used: 2200#

Depths anodes placed: 130', 140', 160', 170', 180', 210', 225', 240', 255'
& 270'

Depths vent pipes placed: 300'-1" PVC

Vent pipe perforations: N/A

Remarks: _____



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.

Enterprise Field Services, LLC
NEBU #345 Well Tie Pipeline Release Closure Report
July 24, 2020

Appendix B

Executed C-138 Solid Waste Acceptance Form

Rule

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

Released to Imaging: 5/16/2022 2:38:33 PM

97057-1090

Form C-138
Revised 08/01/11

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

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. **Generator Name and Address:**
Enterprise Field Services, LLC, 614 Reilly Ave, Farmington NM 87401

Invoicing Information
PayKeyRB21200
AFE: N47089

2. **Originating Site:**
NEBU #345

3. **Location of Material (Street Address, City, State or ULSTR):**
UL G Section 29 T30N R7W; 36.786018, -107.590287

Feb 2020

4. **Source and Description of Waste:**

Source: Sediment/Soil/sludge from remediation activities associated with a natural gas pipeline release.

Description: Soil/Sediment/sludge associated with remediation activities.

Estimated Volume 50 yd³ / bbls Known Volume (to be entered by the operator at the end of the haul) 72/25 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* 2-12-2020, 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/Sierra Oil Field Services and subcontractors**

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: Envirotech, Inc. Soil Remediation Facility * Permit #: NM01-0011

Address of Facility: Hill Top, 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: 2/12/2020

SIGNATURE: *Greg Crabtree*
Surface Waste Management Facility Authorized Agent

TELEPHONE NO.: 505-632-0615

Enterprise Field Services, LLC
NEBU #345 Well Tie Pipeline Release Closure Report
July 24, 2020


Appendix C


Photograph Log

Rule

Photograph Log
NEBU #345 Well Tie Pipeline Release
Enterprise Field Services, LLC


Rule

Photograph #1	
Client: Enterprise	
Site Name: NEBU #345 Well Tie Pipeline Release	
Date Photo Taken: February 14, 2019	
Release Location: N36.78597, W107.59033 G-29-30N-7W Rio Arriba County, NM	
Photo Taken by: Heather Woods	Description: Facing northwest, view of the final excavation extents.

Photograph #2	
Client: Enterprise	
Site Name: NEBU #345 Well Tie Pipeline Release	
Date Photo Taken: February 14, 2019	
Release Location: N36.78597, W107.59033 G-29-30N-7W Rio Arriba County, NM	
Photo Taken by: Heather Woods	Description: Facing southwest, view of the final excavation extents.

Photograph Log
NEBU #345 Well Tie Pipeline Release
Enterprise Field Services, LLC

Rule

Photograph #3	
Client: Enterprise	
Site Name: NEBU #345 Well Tie Pipeline Release	
Date Photo Taken: July 14, 2019	
Release Location: N36.78597, W107.59033 G-29-30N-7W Rio Arriba County, NM	
Photo Taken by: Theodore Valdez	Description: Facing east, view of the reclaimed release area.

Enterprise Field Services, LLC
NEBU #345 Well Tie Pipeline Release Closure Report
July 24, 2020

Appendix D

Correspondence

Rule

From: [Long, Thomas](#)
To: "[Smith, Cory, EMNRD \(Cory.Smith@state.nm.us\)](#)"; [kwchristesen@blm.gov](#)
Subject: FW: NEBU #435 - UL G Section 29 T30N R7W; 36.78597, -107.59033
Date: Friday, February 14, 2020 8:21:00 AM
Importance: Low

Cory/Kenneth,

This site name is actually the NEBU #345, not the NEBU #435.

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



From: Long, Thomas
Sent: Thursday, February 13, 2020 2:47 PM
To: 'Smith, Cory, EMNRD (Cory.Smith@state.nm.us)' <Cory.Smith@state.nm.us>;
[kwchristesen@blm.gov](#)
Cc: Stone, Brian <[bmstone@eprod.com](#)>
Subject: NEBU #435 - UL G Section 29 T30N R7W; 36.78597, -107.59033

Cory/Kenneth,

This email is to notify you that Enterprise discovered natural gas release on the NEBU #435 well tie on February 7, 2020. No liquids were released to the ground surface. The repairs began today and it was determined that this release is reportable per NMOCDC regulation due to the volume of impacted subsurface soil. The release is located at UL G Section 29 T30N R7W; 36.78597, -107.59033. This email is also a notification that Enterprise will collecting soil samples for laboratory analysis tomorrow February 14, 2020 at 11:00 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 Field Services, LLC
NEBU #345 Well Tie Pipeline Release Closure Report
July 24, 2020

Appendix E

Analytical Laboratory Report

Rule



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

February 18, 2020

Heather Woods

Rule Engineering LLC
501 Airport Dr., Ste 205
Farmington, NM 87401
TEL: (505) 325-1055
FAX:

RE: NEBU 345

OrderNo.: 2002623

Dear Heather Woods:

Hall Environmental Analysis Laboratory received 5 sample(s) on 2/15/2020 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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2002623

Date Reported: 2/18/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC

Client Sample ID: SC-1

Project: NEBU 345

Collection Date: 2/14/2020 11:15:00 AM

Lab ID: 2002623-001

Matrix: MEOH (SOIL)

Received Date: 2/15/2020 12:35:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CJS
Chloride	69	60		mg/Kg	20	2/17/2020 11:26:55 AM	50475
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	2/17/2020 9:39:48 AM	50471
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/17/2020 9:39:48 AM	50471
Surr: DNOP	85.6	55.1-146		%Rec	1	2/17/2020 9:39:48 AM	50471
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	19		mg/Kg	5	2/17/2020 9:38:33 AM	G66590
Surr: BFB	85.5	66.6-105		%Rec	5	2/17/2020 9:38:33 AM	G66590
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	0.14	0.094		mg/Kg	5	2/17/2020 9:38:33 AM	B66590
Toluene	0.71	0.19		mg/Kg	5	2/17/2020 9:38:33 AM	B66590
Ethylbenzene	ND	0.19		mg/Kg	5	2/17/2020 9:38:33 AM	B66590
Xylenes, Total	1.5	0.38		mg/Kg	5	2/17/2020 9:38:33 AM	B66590
Surr: 4-Bromofluorobenzene	89.3	80-120		%Rec	5	2/17/2020 9:38:33 AM	B66590

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

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

Page 1 of 11

Analytical Report

Lab Order 2002623

Date Reported: 2/18/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC

Client Sample ID: SC-2

Project: NEBU 345

Collection Date: 2/14/2020 11:33:00 AM

Lab ID: 2002623-002

Matrix: MEOH (SOIL)

Received Date: 2/15/2020 12:35:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CJS
Chloride	97	60		mg/Kg	20	2/17/2020 11:39:16 AM	50475
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	2/17/2020 10:07:14 AM	50471
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/17/2020 10:07:14 AM	50471
Surr: DNOP	85.8	55.1-146		%Rec	1	2/17/2020 10:07:14 AM	50471
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	19		mg/Kg	5	2/17/2020 10:02:03 AM	G66590
Surr: BFB	80.7	66.6-105		%Rec	5	2/17/2020 10:02:03 AM	G66590
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.096		mg/Kg	5	2/17/2020 10:02:03 AM	B66590
Toluene	ND	0.19		mg/Kg	5	2/17/2020 10:02:03 AM	B66590
Ethylbenzene	ND	0.19		mg/Kg	5	2/17/2020 10:02:03 AM	B66590
Xylenes, Total	ND	0.39		mg/Kg	5	2/17/2020 10:02:03 AM	B66590
Surr: 4-Bromofluorobenzene	88.1	80-120		%Rec	5	2/17/2020 10:02:03 AM	B66590

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

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

Page 2 of 11

Analytical Report

Lab Order 2002623

Date Reported: 2/18/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC

Client Sample ID: SC-3

Project: NEBU 345

Collection Date: 2/14/2020 11:45:00 AM

Lab ID: 2002623-003

Matrix: MEOH (SOIL)

Received Date: 2/15/2020 12:35:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CJS
Chloride	ND	60		mg/Kg	20	2/17/2020 11:51:38 AM	50475
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	2/17/2020 10:16:24 AM	50471
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/17/2020 10:16:24 AM	50471
Surr: DNOP	84.0	55.1-146		%Rec	1	2/17/2020 10:16:24 AM	50471
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	2/17/2020 10:25:42 AM	G66590
Surr: BFB	87.3	66.6-105		%Rec	1	2/17/2020 10:25:42 AM	G66590
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	0.070	0.019		mg/Kg	1	2/17/2020 10:25:42 AM	B66590
Toluene	0.37	0.037		mg/Kg	1	2/17/2020 10:25:42 AM	B66590
Ethylbenzene	ND	0.037		mg/Kg	1	2/17/2020 10:25:42 AM	B66590
Xylenes, Total	0.46	0.075		mg/Kg	1	2/17/2020 10:25:42 AM	B66590
Surr: 4-Bromofluorobenzene	90.4	80-120		%Rec	1	2/17/2020 10:25:42 AM	B66590

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

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

Page 3 of 11

Analytical Report

Lab Order 2002623

Date Reported: 2/18/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC

Client Sample ID: SC-4

Project: NEBU 345

Collection Date: 2/14/2020 12:01:00 PM

Lab ID: 2002623-004

Matrix: MEOH (SOIL)

Received Date: 2/15/2020 12:35:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CJS
Chloride	98	60		mg/Kg	20	2/17/2020 12:03:59 PM	50475
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	27	8.8		mg/Kg	1	2/17/2020 10:25:33 AM	50471
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	2/17/2020 10:25:33 AM	50471
Surr: DNOP	81.9	55.1-146		%Rec	1	2/17/2020 10:25:33 AM	50471
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	18		mg/Kg	5	2/17/2020 10:49:20 AM	G66590
Surr: BFB	81.9	66.6-105		%Rec	5	2/17/2020 10:49:20 AM	G66590
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.090		mg/Kg	5	2/17/2020 10:49:20 AM	B66590
Toluene	ND	0.18		mg/Kg	5	2/17/2020 10:49:20 AM	B66590
Ethylbenzene	ND	0.18		mg/Kg	5	2/17/2020 10:49:20 AM	B66590
Xylenes, Total	ND	0.36		mg/Kg	5	2/17/2020 10:49:20 AM	B66590
Surr: 4-Bromofluorobenzene	88.0	80-120		%Rec	5	2/17/2020 10:49:20 AM	B66590

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

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

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Analytical Report

Lab Order 2002623

Date Reported: 2/18/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC

Client Sample ID: SC-5

Project: NEBU 345

Collection Date: 2/14/2020 12:20:00 PM

Lab ID: 2002623-005

Matrix: MEOH (SOIL)

Received Date: 2/15/2020 12:35:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CJS
Chloride	ND	60		mg/Kg	20	2/17/2020 12:16:19 PM	50475
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	2/17/2020 10:34:42 AM	50471
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/17/2020 10:34:42 AM	50471
Surr: DNOP	85.7	55.1-146		%Rec	1	2/17/2020 10:34:42 AM	50471
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	9.1	4.3		mg/Kg	1	2/17/2020 11:12:59 AM	G66590
Surr: BFB	93.1	66.6-105		%Rec	1	2/17/2020 11:12:59 AM	G66590
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	0.49	0.022		mg/Kg	1	2/17/2020 11:12:59 AM	B66590
Toluene	1.2	0.043		mg/Kg	1	2/17/2020 11:12:59 AM	B66590
Ethylbenzene	0.049	0.043		mg/Kg	1	2/17/2020 11:12:59 AM	B66590
Xylenes, Total	0.66	0.087		mg/Kg	1	2/17/2020 11:12:59 AM	B66590
Surr: 4-Bromofluorobenzene	92.7	80-120		%Rec	1	2/17/2020 11:12:59 AM	B66590

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

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

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2002623

18-Feb-20

Client: Rule Engineering LLC

Project: NEBU 345

Sample ID: MB-50475	SampType: mblk	TestCode: EPA Method 300.0: Anions
Client ID: PBS	Batch ID: 50475	RunNo: 66591
Prep Date: 2/17/2020	Analysis Date: 2/17/2020	SeqNo: 2288912 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	ND	1.5

Sample ID: LCS-50475	SampType: lcs	TestCode: EPA Method 300.0: Anions
Client ID: LCSS	Batch ID: 50475	RunNo: 66591
Prep Date: 2/17/2020	Analysis Date: 2/17/2020	SeqNo: 2288913 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	14	1.5 15.00 0 92.3 90 110

Qualifiers:

- * Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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

WO#: 2002623

18-Feb-20

Client: Rule Engineering LLC**Project:** NEBU 345

Sample ID: MB-50471	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 50471	RunNo: 66580								
Prep Date: 2/17/2020	Analysis Date: 2/17/2020	SeqNo: 2288223			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	8.1		10.00		81.3	55.1	146			

Sample ID: LCS-50471	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 50471	RunNo: 66580								
Prep Date: 2/17/2020	Analysis Date: 2/17/2020	SeqNo: 2288224			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	95.4	70	130			
Surr: DNOP	3.8		5.000		75.0	55.1	146			

Sample ID: 2002623-001AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: SC-1	Batch ID: 50471	RunNo: 66580								
Prep Date: 2/17/2020	Analysis Date: 2/17/2020	SeqNo: 2288249			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	9.1	45.62	6.942	85.3	47.4	136			
Surr: DNOP	3.7		4.562		80.4	55.1	146			

Sample ID: 2002623-001AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: SC-1	Batch ID: 50471	RunNo: 66580								
Prep Date: 2/17/2020	Analysis Date: 2/17/2020	SeqNo: 2288250			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	9.8	48.88	6.942	81.5	47.4	136	2.03	43.4	
Surr: DNOP	3.9		4.888		79.1	55.1	146	0	0	

Sample ID: MB-50453	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 50453	RunNo: 66580								
Prep Date: 2/14/2020	Analysis Date: 2/17/2020	SeqNo: 2288580			Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.6		10.00		85.7	55.1	146			

Sample ID: LCS-50453	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 50453	RunNo: 66580								
Prep Date: 2/14/2020	Analysis Date: 2/17/2020	SeqNo: 2288581			Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

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

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

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2002623

18-Feb-20

Client: Rule Engineering LLC

Project: NEBU 345

Sample ID: LCS-50453	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 50453	RunNo: 66580								
Prep Date: 2/14/2020	Analysis Date: 2/17/2020	SeqNo: 2288581	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.1		5.000		82.4	55.1	146			

Qualifiers:

- *

Value exceeds Maximum Contaminant Level.
- D

Sample Diluted Due to Matrix
- H

Holding times for preparation or analysis exceeded
- ND

Not Detected at the Reporting Limit
- PQL

Practical Quantitative Limit
- S

% Recovery outside of range due to dilution or matrix
- B

Analyte detected in the associated Method Blank
- E

Value above quantitation range
- J

Analyte detected below quantitation limits
- P

Sample pH Not In Range
- RL

Reporting Limit

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

WO#: 2002623

18-Feb-20

Client: Rule Engineering LLC**Project:** NEBU 345

Sample ID: mb1	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: G66590			RunNo: 66590						
Prep Date:	Analysis Date: 2/17/2020			SeqNo: 2288638			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	830		1000		82.7	66.6	105			

Sample ID: 2.5ug gro lcs	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: G66590			RunNo: 66590						
Prep Date:	Analysis Date: 2/17/2020			SeqNo: 2288639			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	94.1	80	120			
Surr: BFB	960		1000		96.1	66.6	105			

Sample ID: 2002623-001ams	SampType: MS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: SC-1	Batch ID: G66590			RunNo: 66590						
Prep Date:	Analysis Date: 2/17/2020			SeqNo: 2288640			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	67	19	94.13	10.73	59.4	69.1	142			S
Surr: BFB	3400		3765		91.3	66.6	105			

Sample ID: 2002623-001amsd	SampType: MSD			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: SC-1	Batch ID: G66590			RunNo: 66590						
Prep Date:	Analysis Date: 2/17/2020			SeqNo: 2288641			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	92	19	94.13	10.73	86.8	69.1	142	32.5	20	R
Surr: BFB	3600		3765		94.6	66.6	105	0	0	

Qualifiers:

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

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

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

WO#: 2002623

18-Feb-20

Client: Rule Engineering LLC**Project:** NEBU 345

Sample ID: mb1	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: B66590			RunNo: 66590						
Prep Date:	Analysis Date: 2/17/2020			SeqNo: 2288656		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	0.90		1.000		90.1	80	120			

Sample ID: 100ng btex lcs	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: B66590			RunNo: 66590						
Prep Date:	Analysis Date: 2/17/2020			SeqNo: 2288657		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	96.0	80	120			
Toluene	0.98	0.050	1.000	0	98.0	80	120			
Ethylbenzene	0.99	0.050	1.000	0	99.0	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.6	80	120			
Surr: 4-Bromofluorobenzene	0.97		1.000		97.4	80	120			

Sample ID: 2002623-002ams	SampType: MS			TestCode: EPA Method 8021B: Volatiles						
Client ID: SC-2	Batch ID: B66590			RunNo: 66590						
Prep Date:	Analysis Date: 2/17/2020			SeqNo: 2288658		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	3.4	0.096	3.858	0.06674	87.2	78.5	119			
Toluene	3.6	0.19	3.858	0.1204	90.2	75.7	123			
Ethylbenzene	3.5	0.19	3.858	0	90.3	74.3	126			
Xylenes, Total	11	0.39	11.57	0.2222	90.2	72.9	130			
Surr: 4-Bromofluorobenzene	3.5		3.858		90.7	80	120			

Sample ID: 2002623-002amsd	SampType: MSD			TestCode: EPA Method 8021B: Volatiles						
Client ID: SC-2	Batch ID: B66590			RunNo: 66590						
Prep Date:	Analysis Date: 2/17/2020			SeqNo: 2288659		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	3.1	0.096	3.858	0.06674	78.6	78.5	119	10.2	20	
Toluene	3.2	0.19	3.858	0.1204	80.6	75.7	123	10.9	20	
Ethylbenzene	3.1	0.19	3.858	0	81.0	74.3	126	10.8	20	
Xylenes, Total	9.6	0.39	11.57	0.2222	80.9	72.9	130	10.7	20	
Surr: 4-Bromofluorobenzene	3.4		3.858		89.0	80	120	0	0	

Qualifiers:

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2002623

18-Feb-20

Client: Rule Engineering LLC

Project: NEBU 345

Sample ID: mb-50435	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 50435			RunNo: 66590						
Prep Date: 2/13/2020	Analysis Date: 2/17/2020			SeqNo: 2288662		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.94		1.000		93.8	80	120			

Sample ID: lcs-50435	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 50435			RunNo: 66590						
Prep Date: 2/13/2020	Analysis Date: 2/17/2020			SeqNo: 2288663		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.90		1.000		89.9	80	120			

Qualifiers:

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

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

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

Sample Log-In Check List

Client Name: RULE ENGINEERING LL

Work Order Number: 2002623

RcptNo: 1

Received By: Erin Melendrez 2/15/2020 12:35:00 PM

Completed By: Erin Melendrez 2/15/2020 1:58:27 PM

Reviewed By: LB 2/17/2020

Chain of Custody

1. Is Chain of Custody sufficiently 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 $>0^{\circ}\text{C}$ 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: ENM 2/15/20

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 $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.7	Good				

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 10557

CONDITIONS

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 10557
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	5/16/2022