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**

			Kespe	unsible I al t	y				
Responsible	Party: Ente	rprise Field Serv	rices, LLC	OGRID: 2	OGRID: <b>241602</b>				
Contact Nan	ne: <b>Thomas</b>	Long		Contact To	elephone: <b>50</b>	5-599-2286			
Contact email:tjlong@eprod.com				Incident #	(assigned by OC	CD) nAPP2318644889			
Contact mail 87401	ing address:	614 Reilly Ave,	Farmington, NN	1					
Latitude 36.8	364828			of Release So		NAD 83 in decimal degrees to 5 decimal places)			
Site Name <b>B</b>	lanco O-14			Site Type I	Natural Gas	Gathering Pipeline			
Date Release	Discovered:	07/05/2023		Serial Nun	nber (if applical	ble): N/A			
Unit Letter	Section	Township	Range	Cour	nty				
N	25	31N	8W	San J	uan				
Surface Owne		Federal Tri	Nature and	Volume of 1		the volumes provided below)			
Crude Oi		Volume Released				ecovered (bbls)			
Produced	Water	Volume Released	d (bbls)		Volume Recovered (bhls)				

Is the concentration of dissolved chloride in the produced water >10,000 mg/l?

☐ Condensate
☐ Volume Released (bbls): Estimated 5 BBLs
☐ Volume Recovered (bbls): None
☐ Other (describe)
☐ Volume/Weight Released (provide units):
☐ Volume/Weight Recovered (provide units)
☐ Cause of Release On June 5, 2023, Enterprise had a release of natural gas and natural gas liquids from the Blanco O-14 pipeline. The

Cause of Release On June 5, 2023, Enterprise had a release of natural gas and natural gas liquids from the Blanco O-14 pipeline. The pipeline was isolated, depressurized, locked and tagged out. No fire nor injuries occurred. No liquids were observed on the ground surface. Repairs and remediation began on July 5, 2023, at which time Enterprise determined the release reportable per NMOCD regulation, due to the volume of impacted subsurface soil. Remediation was completed on July 6, 2023. The final excavation dimensions measured approximately 12 feet long by 12 feet wide by 10 feet deep. A total of 108 cubic yards of hydrocarbon impacted soil was excavated and transported to a New Mexico Oil Conservation Division (NMOCD) approved land farm. A third party closure report is included with this "Final" C-141.

	Page 2 of	98
Incident ID	NAPP2318644889	
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 sample	ing diagram as described in 19.15.2	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 C	DDC District office m	ust be notified 2 days prior to final sampling)	
Description of remediat	ion activities			
and regulations all operators a may endanger public health of should their operations have the human health or the environn compliance with any other feat restore, reclaim, and re-veget	are required to report and/or file ce in the environment. The acceptance failed to adequately investigate and ment. In addition, OCD acceptance deral, state, or local laws and/or regate the impacted surface area to the	rtain release notificate of a C-141 report by remediate contaminate of a C-141 report dogulations. The resport conditions that exist	by knowledge and understand that pursuant to OCD rules ions and perform corrective actions for releases which is the OCD does not relieve the operator of liability ation that pose a threat to groundwater, surface water, less not relieve the operator of responsibility for asible party acknowledges they must substantially led prior to the release or their final land use in ation and re-vegetation are complete.	
Printed Name: Thomas Long		Title: Senior Envir	onmental Scientist	
Signature:		Date:	<u>11-2-2023</u>	
email: tjlong@eprod.com			9-2286	
OCD Only				
Received by: Shelly Wells		Date: _1	1/6/2023	
remediate contamination that		ace water, human heal	their operations have failed to adequately investigate and th, or the environment nor does not relieve the responsible	
Closure Approved by:	Nelson Velez	Date: _	02/02/2024	
Printed Name:	Nelson Velez	Title:	Environmental Specialist - Adv	
<u> </u>				



## **CLOSURE REPORT**

Property:

Blanco O-14 (07/05/23) Unit Letter N, S25 T31N R8W San Juan County, New Mexico

## New Mexico EMNRD OCD Incident ID No. NAPP2318644889

November 2, 2023

Ensolum Project No. 05A1226246

Prepared for:

**Enterprise Field Services, LLC** 

614 Reilly Avenue Farmington, NM 87401 Attn: Mr. Thomas Long

Prepared by:

Ranee Deechilly Project Manager Kyle Summers Senior Managing Geologist Blanco O-14 (07/05/23)

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Blanco O-14 (07/05/23)

### 1.0 INTRODUCTION

## 1.1 Site Description & Background

Operator:	Enterprise Field Services, LLC / Enterprise Products Operating LLC (Enterprise)			
Site Name:	Blanco O-14 (07/05/23) (Site)			
NM EMNRD OCD Incident ID No.	NAPP2318644889			
36.864828° North, 107.630027° West Unit Letter N, Section 25, Township 31 North, Range 8 Wes San Juan County, New Mexico				
Property:	Private Land			
Regulatory:	New Mexico (NM) Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)			

On June 5, 2023, Enterprise was notified of a release on the Blanco O-14 pipeline. Enterprise verified the release and subsequently isolated and locked the pipeline out of service. On July 5, 2023, Enterprise initiated activities to repair the pipeline and remediate potential petroleum hydrocarbon impact. In addition, Enterprise determined the release was "reportable" due to the estimated volume of impacted soil. The NM EMNRD OCD was subsequently notified.

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

## 1.2 Project Objective

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

## 2.0 CLOSURE CRITERIA

The Site is subject to regulatory oversight by the New Mexico EMNRD OCD. Ensolum, LLC (Ensolum) referenced 19.15.29 New Mexico Administrative Code (NMAC), which establishes investigation and abatement action requirements for oil and gas release sites that are subject to reporting and/or corrective action, during the evaluation and remediation of the Site. The appropriate closure criteria for sites are determined using the siting requirements outlined in Paragraph (4) of Subsection C of 19.15.29.12 NMAC. Ensolum utilized the general site characteristics and information available from NM state agency databases and federal agency geospatial databases to determine the appropriate closure criteria for the Site. Supporting figures and documentation associated with the following Siting bullets are provided in **Appendix B**.

• The NM Office of the State Engineer (OSE) tracks the usage and assignment of water rights and water well installations and records this information in the Water Rights Reporting System (WRRS) database. Water wells and other points of diversion (PODs) are each assigned POD numbers in the database (which is searchable and includes an interactive map). Three PODs (SJ-01167, SJ-01822, and SJ-03306) with recorded depth to water were identified in the same Public Land Survey System (PLSS) section as the Site. These PODs are depicted in Figure A (Appendix B). Documentation for POD SJ-03306 indicates a depth to water of 500 feet below grade surface (bgs). This POD is located approximately 0.35 miles north of the Site and approximately 37 feet higher in elevation than the Site. Documentation for POD SJ-01822 indicates a depth to water of 500 feet bgs. This POD is located approximately 0.90 miles



Enterprise Field Services, LLC Blanco O-14 (07/05/23)

northeast of the Site and approximately 55 feet lower in elevation than the Site. Documentation for POD SJ-01167 indicates a depth to water of 390 feet bgs. This POD is located approximately 0.90 miles northeast of the Site and approximately 26 feet lower in elevation than the Site.

- Numerous cathodic protection wells (CPWs) were identified in the NM EMNRD OCD imaging database in the same PLSS section as the Site and in the adjacent PLSS sections. These CPWs are depicted on Figure B (Appendix B). Two of the closest CPWs are located less than 0.50 miles from the Site. Documentation for the cathodic protection well located near the NEBU 445 and 50 well locations indicates a depth to water of 430 feet bgs. This cathodic protection well is located approximately 0.10 miles west of the Site and is approximately 69 feet lower in elevation than the Site. Documentation for the cathodic protection well located near the Blanco 202A well location indicates a depth to water of approximately 160 feet bgs. This cathodic protection well is located approximately 0.47 miles northwest of the Site and is approximately 75 feet lower in elevation than the Site.
- The Site is not located within 300 feet of a NM EMNRD OCD-defined continuously flowing watercourse or significant watercourse (Figure C, Appendix B).
- The Site is not located within 200 feet of a lakebed, sinkhole, or playa lake.
- The Site is not located within 300 feet of a permanent residence, school, hospital, institution, or church (**Figure D**, **Appendix B**).
- No springs, or private domestic freshwater wells used by less than five households for domestic or stock watering purposes were identified within 500 feet of the Site (Figure E, Appendix B).
- No freshwater wells or springs were identified within 1,000 feet of the Site (Figure E, Appendix B).
- The Site is not located within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to New Mexico Statutes Annotated (NMSA) 1978, Section 3-27-3.
- Based on information identified in the U.S. Fish & Wildlife Service National Wetlands Inventory Wetlands Mapper, the Site is not within 300 feet of a wetland (**Figure F**, **Appendix B**).
- Based on information identified in the NM Mining and Minerals Division's Geographic Information System (GIS) Maps and Mine Data database, the Site is not within an area overlying a subsurface mine (Figure G, Appendix B).
- The Site is not located within an unstable area per Paragraph (6) of Subsection U of 19.15.2.7 NMAC.
- Based on information provided by the Federal Emergency Management Agency (FEMA)
   National Flood Hazard Layer (NFHL) geospatial database, the Site is not within a 100-year
   floodplain (Figure H, Appendix B).

Based on available information Enterprise estimates the depth to water at the Site to be greater than 50 feet bgs, resulting in a Tier II ranking. However, the soil requirements of NMAC 19.15.29.13(D)(1) indicate that a minimum of the upper four feet must contain "uncontaminated" soil and that the soils meet Tier I closure criteria listed in Table 1 of NMAC 19.15.29.12. None of



the samples collected below four feet bgs exceeded the Tier I closure criteria, so Tier II closure criteria were not included in this report. The closure criteria for Tier I soils remaining in place at the Site include:

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

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

#### 3.0 SOIL REMEDIATION ACTIVITIES

On July 5, 2023, Enterprise initiated activities to repair the pipeline and remediate petroleum hydrocarbon impact resulting from the release. During the remediation and corrective action activities, Industrial Mechanical, Inc. provided heavy equipment and labor support, while Ensolum provided environmental consulting support.

The final excavation measured approximately 12 feet long and 12 feet wide at the maximum extents. The maximum depth of the excavation measured approximately 10 feet bgs. The lithology encountered during the completion of remediation activities consisted primarily of silty clay underlain by sandstone.

Approximately 108 cubic yards (yd³) of petroleum hydrocarbon-affected soils were transported to the Envirotech, Inc., (Envirotech) landfarm in San Juan County, NM for disposal/remediation. The executed C-138 solid waste acceptance form is provided in **Appendix C**. Enterprise has not yet determined a permanent repair strategy for the pipeline; therefore, the excavation has not yet been backfilled at the time this document was finalized. Once the permanent pipeline repairs are completed, the pipeline excavation will be backfilled with imported fill and then contoured to the surrounding grade.

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

#### 4.0 SOIL SAMPLING PROGRAM

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

Ensolum's soil sampling program included the collection of five composite soil samples (S-1 through S-5) from the excavation for laboratory analysis. The composite samples were comprised of five aliquots each and represent an estimated 200 square foot (ft²) sample area or less per guidelines outlined in Section D of 19.15.29.12 NMAC. The excavator bucket was utilized to obtain fresh aliquots from each area of the excavation. Regulatory correspondence is provided in **Appendix E**.



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

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

## Sampling Event

On July 6, 2023, sampling was performed at the Site. The NM EMNRD OCD was notified of the sampling event although no representative was present during sampling activities. Composite soil sample S-1 (10') was collected from the floor of the excavation. Composite soil samples S-2 (0' to 10'), S-3 (0' to 10'), S-4 (0' to 10'), and S-5 (0' to 10') were collected from the walls of the excavation.

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

### 5.0 SOIL LABORATORY ANALYTICAL METHODS

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

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

### 6.0 SOIL DATA EVALUATION

Ensolum compared the benzene, BTEX, TPH, and chloride laboratory analytical results or laboratory practical quantitation limits (PQLs) / reporting limits (RLs) associated with the composite soil samples (S-1 through S-5) to the applicable NM EMNRD OCD closure criteria. The laboratory analytical results are summarized in **Table 1** (**Appendix F**).

- The laboratory analytical results for all composite soil samples indicate benzene is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the NM EMNRD OCD closure criteria of 10 mg/kg.
- The laboratory analytical results for all composite soil samples indicate total BTEX is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the NM EMNRD OCD closure criteria of 50 mg/kg.
- The laboratory analytical results for all composite soil samples indicate combined TPH GRO/DRO/MRO is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the New Mexico EMNRD OCD closure criteria of 100 mg/kg.
- The laboratory analytical results for all composite soil samples indicate chloride is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the New Mexico EMNRD OCD closure criteria of 600 mg/kg.

## 7.0 RECLAMATION

Enterprise has not yet determined a permanent repair strategy for the pipeline; therefore, the excavation has not yet been backfilled at the time this document was finalized. Once permanent pipeline repairs are completed, Enterprise will backfill the excavation with imported fill and then contour to the surrounding grade.



#### 8.0 FINDINGS AND RECOMMENDATION

- Five composite soil samples were collected from the Site. Based on laboratory analytical results, no benzene, total BTEX, chloride, or combined TPH GRO/DRO/MRO exceedances were identified in the soils remaining at the Site.
- Approximately 108 yd<sup>3</sup> of petroleum hydrocarbon-affected soils were transported to the Envirotech landfarm for disposal/remediation.

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

#### 9.0 STANDARDS OF CARE, LIMITATIONS, AND RELIANCE

#### 9.1 **Standard of Care**

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

#### 9.2 Limitations

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

#### 9.3 Reliance

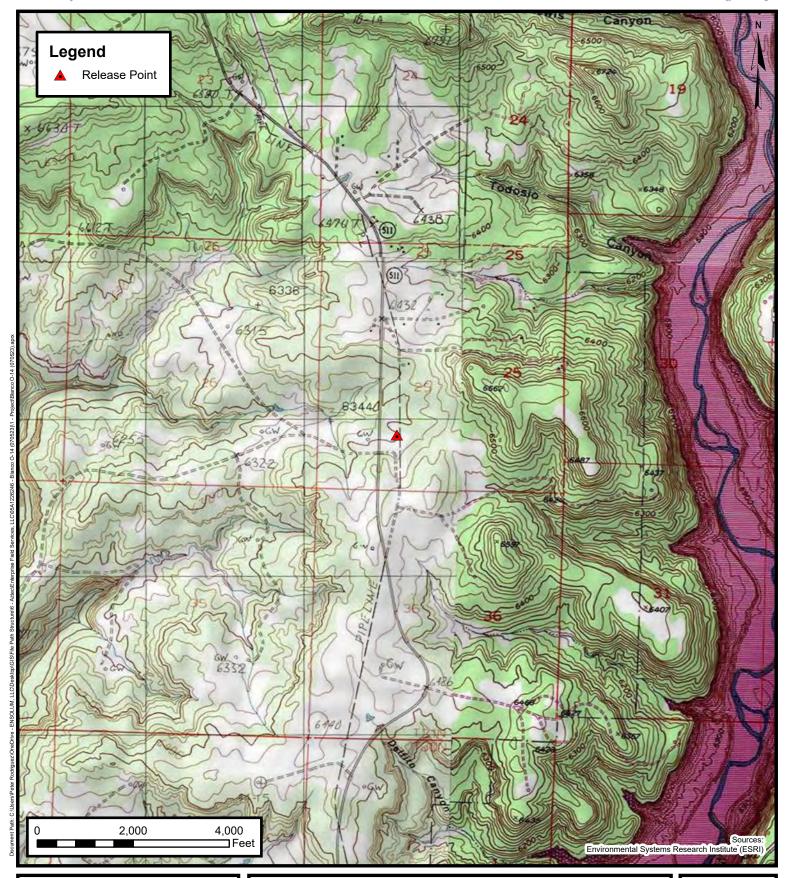
This report has been prepared for the exclusive use of Enterprise, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Site) is prohibited without the express written authorization of Enterprise and Ensolum. Any unauthorized distribution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





**APPENDIX A** 

**Figures** 





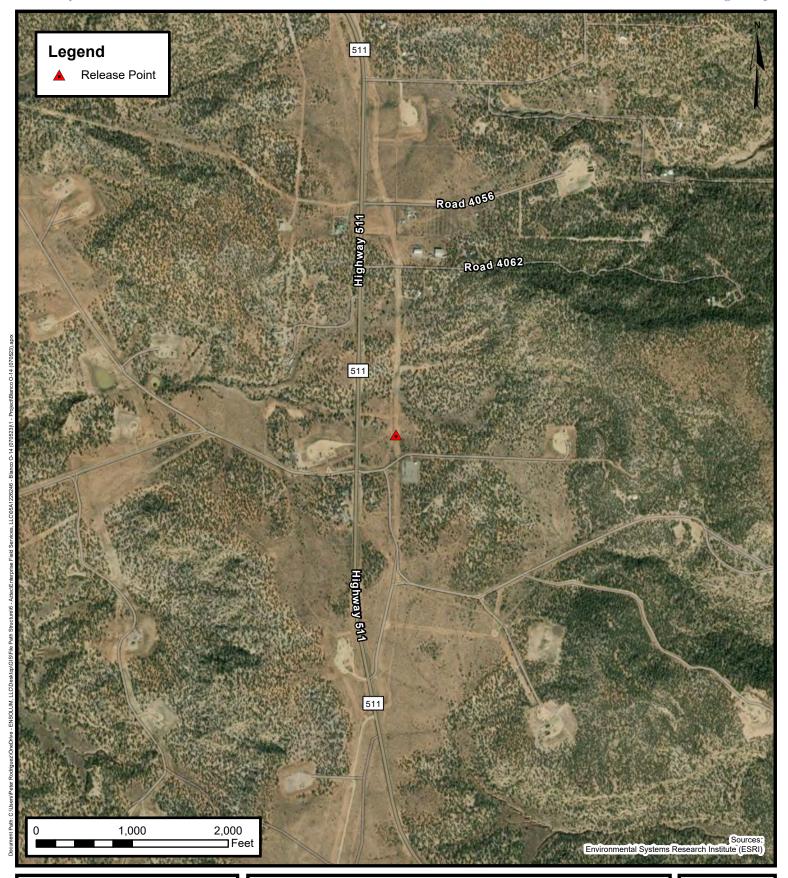
## **Topographic Map**

Enterprise Field Services, LLC Blanco O-14 (07/05/23) Project Number: 05A1226246

Unit Letter N, S25 T31N R8W, San Juan County, New Mexico 36.864828, -107.630027

FIGURE

1





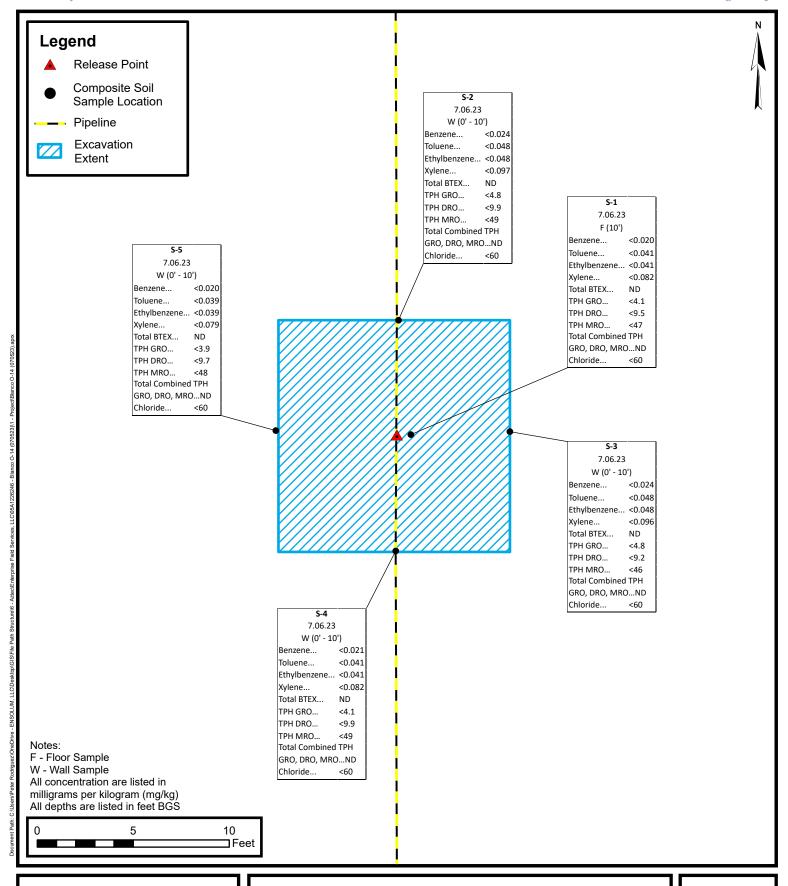
## **Site Vicinity Map**

Enterprise Field Services, LLC Blanco O-14 (07/05/23) Project Number: 05A1226246

Unit Letter N, S25 T31N R8W, San Juan County, New Mexico 36.864828, -107.630027

FIGURE

2





## Site Map with Soil Analytical Results

Enterprise Field Services, LLC Blanco O-14 (07/05/23) Project Number: 05A1226246

Unit Letter N, S25 T31N R8W, San Juan County, New Mexico 36.864828, -107.630027

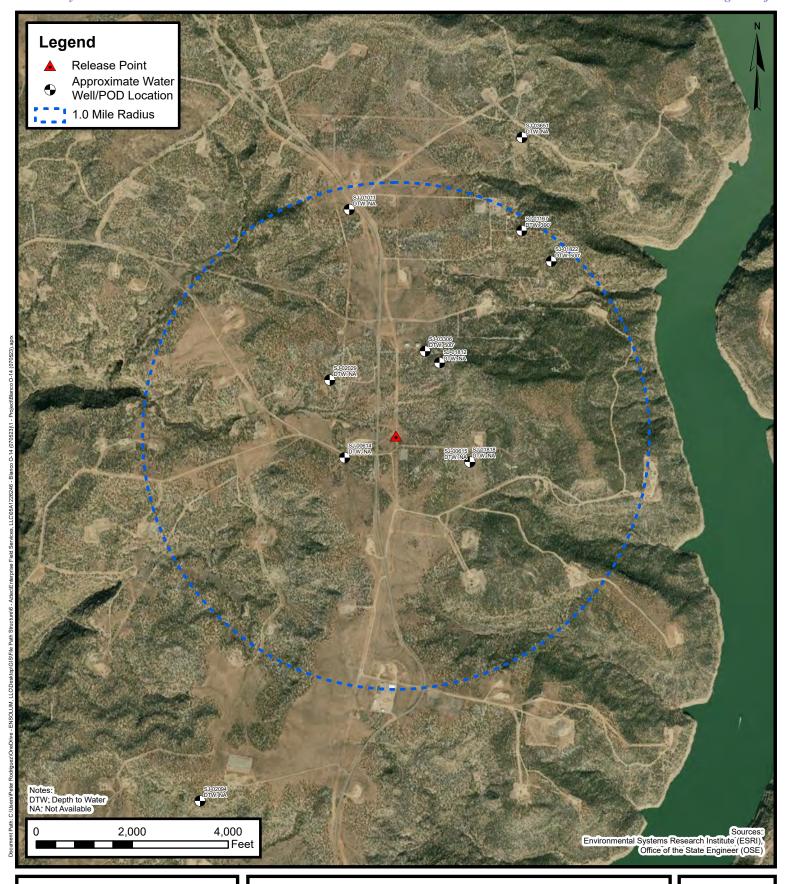
FIGURE 3

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## **APPENDIX B**

Siting Figures and Documentation



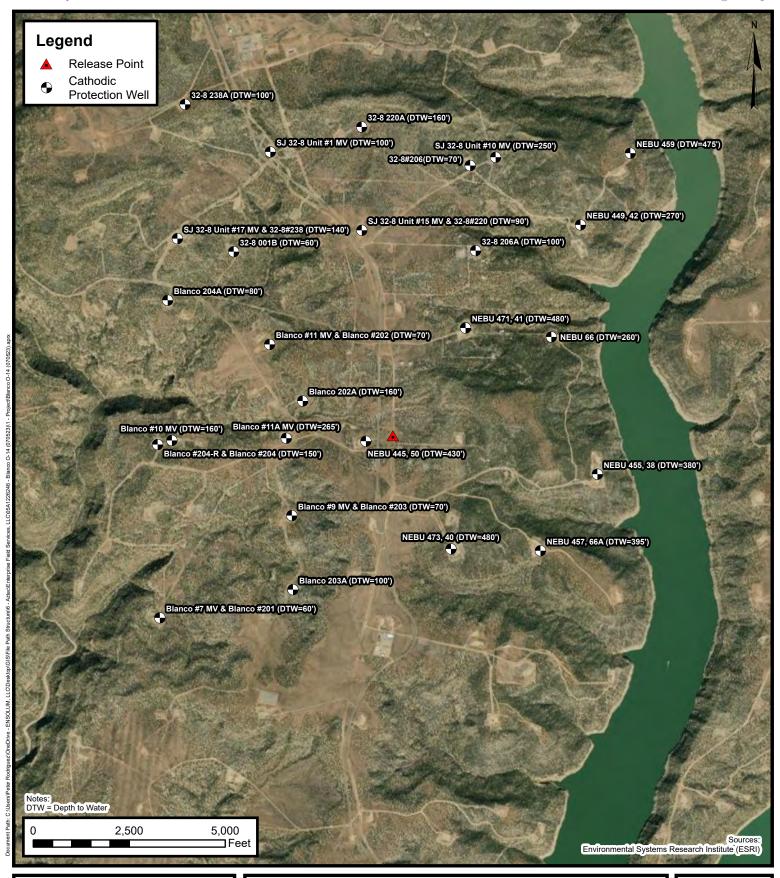


## 1.0 Mile Radius Water Well/POD Location Map

Enterprise Field Services, LLC Blanco O-14 (07/05/23) Project Number: 05A1226246

Unit Letter N, S25 T31N R8W, San Juan County, New Mexico 36.864828, -107.630027

FIGURE





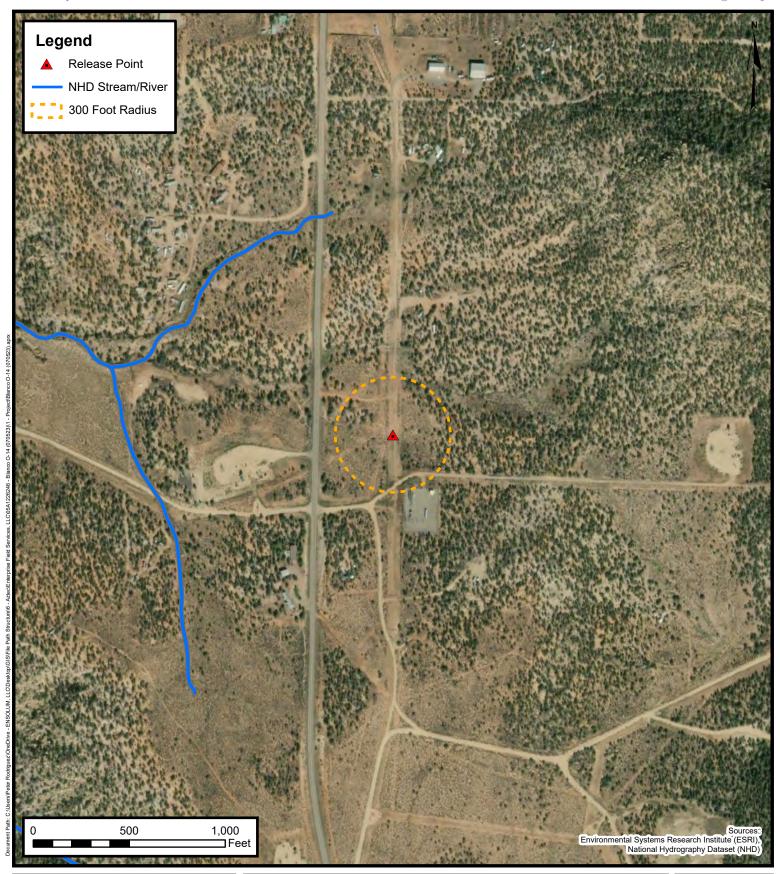
# Cathodic Protection Well Recorded Depth to Water

Enterprise Field Services, LLC Blanco O-14 (07/05/23) Project Number: 05A1226246

Unit Letter N, S25 T31N R8W, San Juan County, New Mexico 36.864828, -107.630027

FIGURE

B





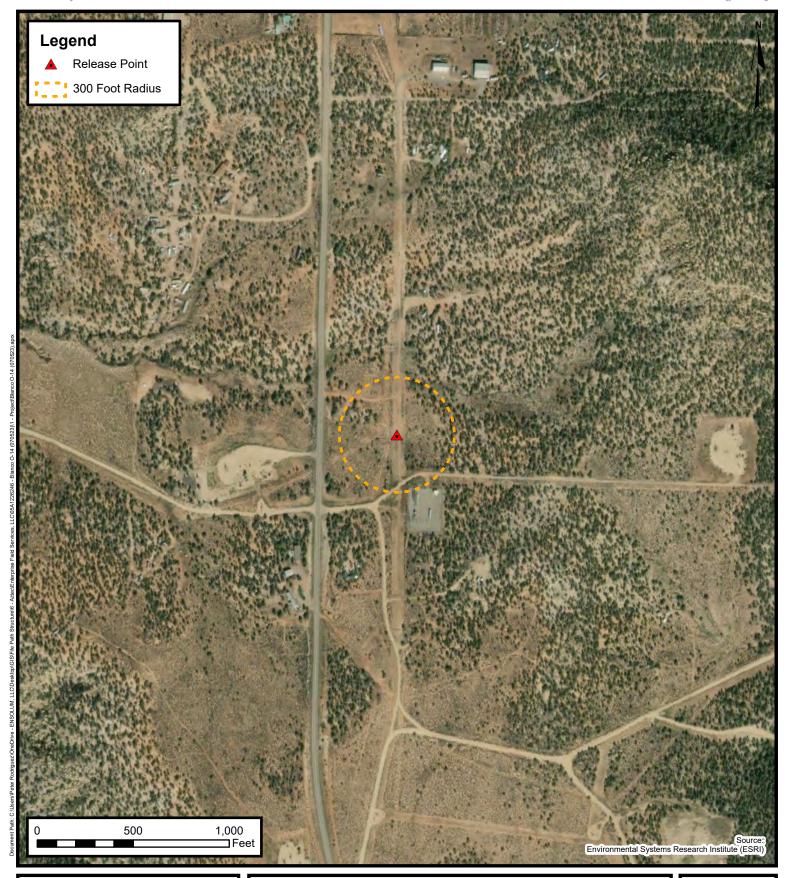
# 300 Foot Radius Watercourse and Drainage Identification

Enterprise Field Services, LLC Blanco O-14 (07/05/23) Project Number: 05A1226246

Unit Letter N, S25 T31N R8W, San Juan County, New Mexico 36.864828, -107.630027

FIGURE

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# 300 Foot Radius Occupied Structure Identification

Enterprise Field Services, LLC Blanco O-14 (07/05/23) Project Number: 05A1226246

Unit Letter N, S25 T31N R8W, San Juan County, New Mexico 36.864828, -107.630027

FIGURE

D





## Water Well and Natural Spring Location

Enterprise Field Services, LLC Blanco O-14 (07/05/23) Project Number: 05A1226246

Unit Letter N, S25 T31N R8W, San Juan County, New Mexico 36.864828, -107.630027

FIGURE





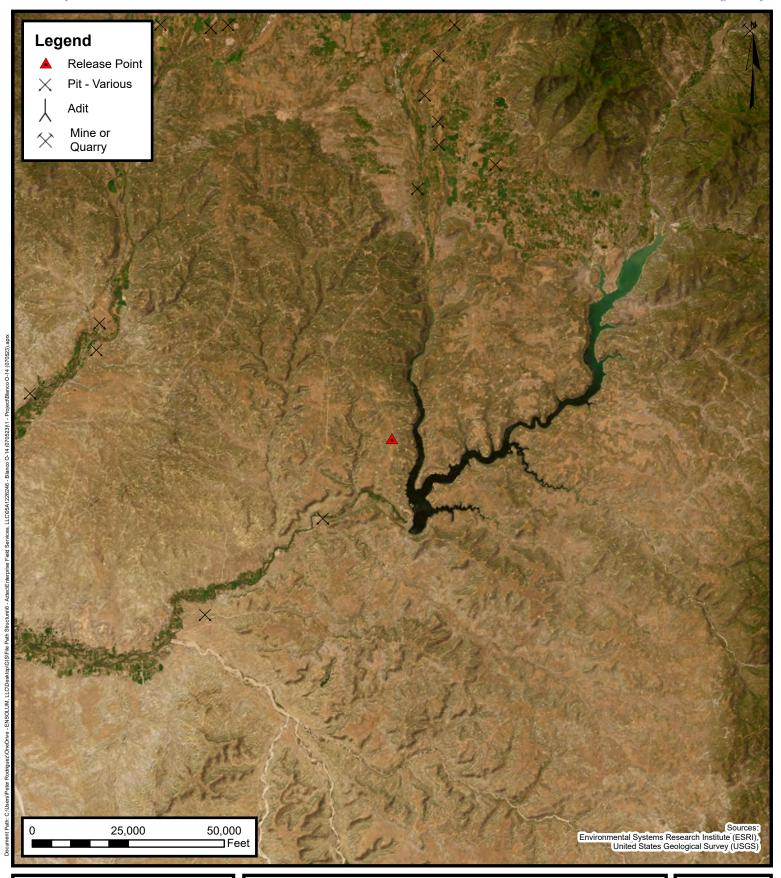
## **Wetlands**

Enterprise Field Services, LLC Blanco O-14 (07/05/23) Project Number: 05A1226246

Unit Letter N, S25 T31N R8W, San Juan County, New Mexico 36.864828, -107.630027

FIGURE

F



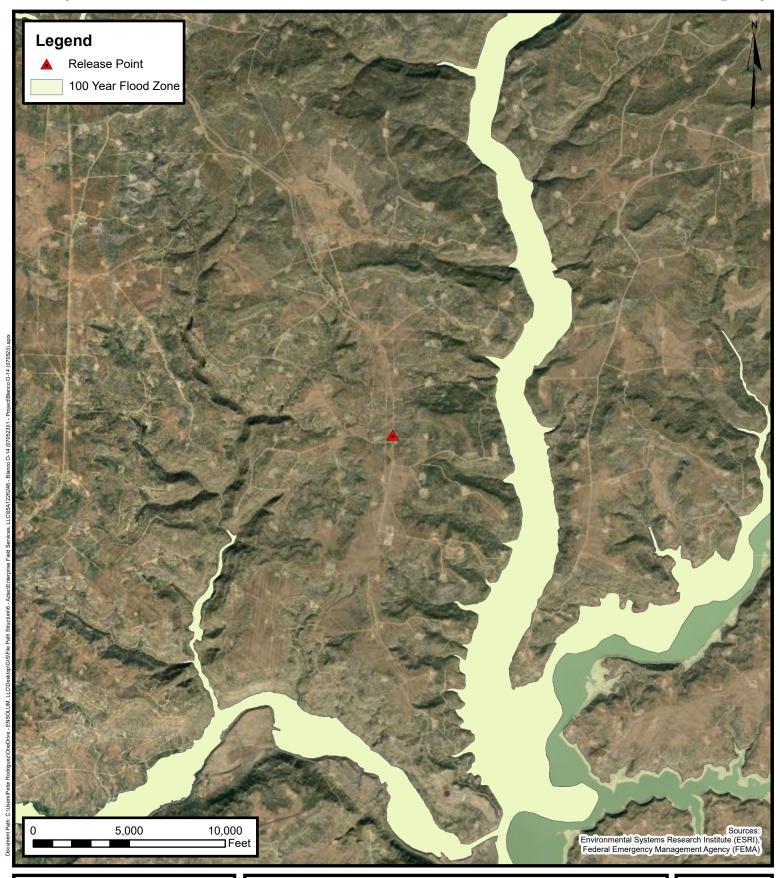


## Mines, Mills, and Quarries

Enterprise Field Services, LLC Blanco O-14 (07/05/23) Project Number: 05A1226246

Unit Letter N, S25 T31N R8W, San Juan County, New Mexico 36.864828, -107.630027

FIGURE





## 100-Year Flood Plain Map

Enterprise Field Services, LLC Blanco O-14 (07/05/23) Project Number: 05A1226246

Unit Letter N, S25 T31N R8W, San Juan County, New Mexico 36.864828, -107.630027

FIGURE

H



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

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

C=the file is closed)

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

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

,	POD										
	POD Sub-		Q Q	0					Donth	Donth	Water
POD Number	Code basin C	County			ec Tws	Rng	х	Υ	•		Column
SJ 01167	SJ	SJ	3 4	4 24	4 31N	W80	266352	4084410* 🌍	465	390	75
SJ 01822	SJ	SJ	2 2	2 25	5 31N	W80	266540	4084216* 🎒	550	500	50
SJ 03306	SJ	SJ	4 4	1 25	5 31N	W80	265739	4083645* 🌍	600	500	100

Average Depth to Water: 463 feet

Minimum Depth: 390 feet

(In feet)

Maximum Depth: 500 feet

**Record Count:** 3

**PLSS Search:** 

**Section(s):** 25, 23, 24, 26, **Township:** 31N **Range:** 08W

35.36

#### \*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, or suitability for any particular purpose of the data.



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

No records found.

**PLSS Search:** 

Section(s): 19, 30, 31 Township: 31N Range: 07W

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DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION OF SO-045-21246 NORTHWESTERN NEW MEXICO (Submit 3 Copies to OCD Aztec Office)	CTION WELLS P-23
(Submit 3 Copies to OCD Aztec Office)	
Operator: BLACKWOOD & NICHOLS CO. Location: Unit M, Se	ec. 25, Twp 31N, Rng 8W.
	r
Name of Well/Wells or Pipeline Serviced NEBU 445, 50	
Florestica (246) Consulation Date 7 07 02 Total David 470) Level T	D 12 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Elevation 6346' Completion Date 7-27-93 Total Depth 470' Land Type	De" Surface: P Mineral: SF-079082
Casing, Sizes, Types & Depths 8-5/8" SCH 40 P.V.C 100', 7-7/8" C	Open Hole
If Casing is cemented, show amounts & types used 20 sks Portland Zia	ı I-II - 90# ea.
If Cement or Bentonite Plugs have been placed, show depths & amounts	used N/A
Depths & thickness of water zones with description of water when possib	ole:
Fresh, Clear, Salty, Sulphur, Etc. Fresh, Damp 120' - 140' - 270', water	er at 430', caught water sample.
Depths gas encountered: N/A	
Type & amount of coke breeze used: Asbury & Loresco - 7,200#	
Depths anodes placed: 122' to 446'	DEGEIVEN
Deptils alloues placed. 122 to 440	M 65 53 5 6 52 11
Depths vent pipes placed: TD to 4' above ground level	OCT1 4 1993
Vent pipe perforations: Bottom 380'	OIL CON. DIV
Remarks: Ground bed 15° from North and 174' from #445 wellhead.	History.
If any of the above data is unavailable, please indicate so. Copies of Water Analyses & Well Bore Schematics should be submitted when as 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: Jan K. all Title: Operations Engineer	Date: 10/12/92

:P#P-23 WELL#NEBU-445950

s 25 T 3/N R 21/

ア# <u>『こよう</u> 	WELL#NEBU-	7440950			S J J T J//V R//
DEPTH	STRATA	NOTES	DEPTII	STRATA	NOTES
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101			,		
151					
201	NE				
251	T				
301	S				
351	ΝO				
40'	Z.				
451					
50					
351 40' 45' 551 65' 70' 75' 70'	. / /				
661					
65'					
10'	N.				
15'	1/1				
91	7				•
85'	7				
70'	W.				
951					
110					
			,		
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RILLER gesse musting

INSPECTOR

CATHODIC GROUND BED DRILLERS REPORT

"# P-23 WELL# N.E.B. U. #445, #50

Ms 25 T 31 R8

#	#EEE#_/0//	,		/ / /	D
EPTH	STRATA	NOTES	DEPTH	STRATA	NOTES
5-100	CASING				
70-170	Yellow San	dstone (striktly dame	,)		
20-145	Black S.	a/e			
15-43	Yellow & C	elstone (s/15ht/y clamps hale trus Sandstone			
		(damp @ 270',			
		(damp @ 270', , made untur 430')		·	
35-443	+ Black Sha	(1,			
45-480	brey San	Istori	,		
				·	•
				The state of the s	

RILLER 97

inspector MM.



# 1115 Farmington Avenue - Farmington , NM 87401 (505) 325-1085

Lab	Sample	No.:	W93-253
	_		L

Standard A.P.I. Water Analysis Report

Collected By: M.D.M.

Company: Blackwood and Nichols Co. Collection Date: 27-Jul-93

Well Name: CP Station P-23 Collection Time: 10:30 AM

Formation: C.P. Groundbed (430 feet) County: Unknown State: Unknown

Location: (M) Sec.25-T31N-R8W Analyst: K. Lambdin & S. Spencer

Remarks: Surface sampling point Analysis Date: 7/31/93

PARAMETER as ICM Comment	PARAMETER 2s ION Comment
Sodium , Na 110 mg/l calculated	d Chloride , Cl 11 mg/l
Potassium, K 11 mg/1	
Calcium, Ca 525 mg/1	Sulfate, SO4 1413 mg/1
Magnesium , Mg 17 mg/l	Hydroxide, OH 0 mg/l Carbonate, CO3 0 mg/l
Iron, Fe (Total) 0.0 mg/l NR	Bicarbonate, HCO3 157 mg/1
Hydrogen Sulfide 0 mg/l <1	Resistivity 4.329 ohm-m
pH 7.51 Units	Conductivity 2,310 us
	Specific Gravity 1.000 Units
TDS 1,536 mg/1	(@ 60 Degrees F)
Remarks: None.  NR = Test Not Run  St	AUG 3 1993  AUG 3 1993  ANGAVIGNO & NICHOLS CO., LTD  1.10
Ca Ma	CI HCO3 504 CO3 0 5 10 15 20 25 30

Scale: Meq/L

## DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS

#471-30-045-27319

NORTHWESTERN NEW MEXICO

#41-30-045-10355

(Submit 3 Copies to OCD Aztec Office)

Operator: BLACKWOOD & NICHOLS CO. Location: Unit B, Sec. 25, Twp 31N, Rng 8W.
Name of Well/Wells or Pipeline Serviced NEBU 471, 41
Name of Well Wells of Fipeline Serviced NEBO 471, 41
Elevation 6380' Completion Date 11-4-93 Total Depth 495' Land Type* Surface: F Mineral: SF-079082
Casing, 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-II - 90# ea.
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. Clear, 480'
210th, Clour, Surphur, Etc. Clour, 100
sha lis arm at
Depths gas encountered: N/A
IANT 2 1994
1 vde & amount of coke breeze used. Asbury Fig-Coke 0.430#
Depths anodes placed: 181' - 445'
Depths anodes placed. 181 - 443
Depths vent pipes placed: Bottom to 4' above ground level
Vent pipe perforations: Bottom - 380'
Remarks: Ground Bed located 190' N 70° of NEBU #471 wellhead.
Remarks. Ground Bed located 190 IN 70 of NEBO #471 Weilliead.
·
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: L-Indian: S-State: P-Fee

If Federal or Indian, add Lease Number.

Title: Operations Engineer Date: 1/3/94

Released to Imaging: 2/2/2024 3:16:11 PM



# 1115 Farmington Avenue - Farmington , NM 87401 (505) 325-1085

		<del></del>
Lab Sample	No.:	W93-443

Standard A.P.I. Water Analysis Report

Collected	By:	J.	Evans	 	 

Company: Blackwood & Nichols Co.

Collection Date: 10/30/93

Well Name: P - 24

Collection Time: Unknown

Formation: C.P. Groundbed while drilling County: Unknown State: Unknown

Location: Unknown

Analyst: K. Lambdin & S. Spencer

Remarks: Water at 480 feet - Depth sampled 495 feet.

Analysis Date: 1

11/2/93

			D. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	L. H. Charles
Sodium , Na Potassium, K	130 mg/1 25 mg/1	D E	Chloride , Cl	12 mg/1
Calcium, Ca	500 mg/1		Hydroxide, OH	1670 mg/l 0 mg/l
Magnesium , Mg	70 mg/1	JAI <b>OIL</b> (	o dangonace, cos	0 mg/1
Iron, Fe (Total)	0 mg/1	NR \	Bicathowate, HCO3	110 mg/1
Hydrogen Sulfide		NR	Resistivity (025 Degrees C	
рН	8.22 Units		Conductivity Specific Gravity	TITLE SAFER BOOK AND TO THE SAFER BOOK AND THE SAFE
TDS	1,680 mg/l		(0 60 Degrees F	NOV
Remarks:	Not enough samp	ole to run H2	S lots of mud.	NOV 4 1993
NR = Test Not Run	n.			Anion/Cation: 99.78

Stiff Diagram

On the state of the state of

Released to Imaging: 2/2/2024 3:16:11 PM

Scale: Meq/L

24 WELL# NEBU. #471. 41

G s 25 T 31-8

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1	STRATA	NOTES	DEPTH	STRATA	NOTES
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35	SANdstone				
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ER Manh M. Sprail

INSPECTOR MDM

Released to Imaging: 2/2/2024 3:16:11 PM

24 WELL# NEB. U. #471, #41

B s 25 T3/-8

STRATA	NOTES	DEPTH	STRATA	NOTES
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R J

INSPECTOR MOM.

Released to Lmuging: 2/2/2024 3:16:11 PM

## DATA SHEET FOR DEEP BED CATHODIC PROTECTION WELLS NORTHWESTERN NEW MEXICO (SUBMIT 2 COPIES TO OCD AZTEC OFFICE)

Replacement PPCO DESIGNATION: FM-461

OPERATOR: PHILLIPS PETROLEUM COMPANY

LOCATION: M 24 31 8

FARMINGTON, N.M. 87401

LEASE NUMBER: 650117

NAME OF WELL/S OR PIPELINE SERVED: (1) SJ 32-8 UNIT #15 MV 30-045-10457

30-045-28223 (2) 32-8#220

ELEVATION: NA

COMPLETION DATE: 07/10/92

TOTAL DEPTH: 600 FT.

LAND: FEDERAL

CASING INFO.: SIZE: 8

IN. TYPE: PVC

DEPTH: 20 FT. CEMENT USED: NA

IF CEMENT OR BENTONITE PLUGS HAVE BEEN PLACED, SHOW DEPTHS & AMOUNTS:

PLUG DEPTH: NONE PLUG AMOUNT: NONE

WATER INFORMATION:

WATER DEPTH (FT): (1) 90

(2) NA

WATER INFORMATION: NA

DEPTHS GAS ENCOUNTERED (FT): NA

TYPE AND AMOUNT OF COKE BREEZE USED:

COKE TYPE: METALLURGICAL COKE BREEZE

COKE AMOUNT: 9641 LBS.

DEPTHS ANODES PLACED (FT):

180,190,200,370,405,415,425,450,470,480,495,505,515,550,560

DEPTH VENT PIPE PLACED (FT): 600

VENT PIPE PERFORATIONS (FT): TOP 170 BOTTOM 600

REMARKS: -O-

IF ANY OF THE ABOVE DATA IS UNAVAILABLE, PLEASE INDICATE SO. COPIES OF ALL LOGS, INCLUDING DRILLERS LOG, WATER ANALYSIS & 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.

NA-INFORMATION NOT AVAILABLE

CC: CP FILE--FARMINGTON

30-045-10562

## OCD CATHODIC PROTECTION DEEPWELL GROUNDBED REPORT DATA SHEET: NORTHWESTERN NEW MEXICO

SUBMIT 2 COPIES TO O.C.D. AZTEC OFFIC

OPERATOR: PHILLIPS PETROLEUM CO. FARMINGTON, NM 87401 PHONE: 599-3400

DECEIVED N APR 2 4 1997

OIL COM. DIV

## **LOCATION INFORMATION**

WELLNAME OR PIPELINE SERVED: SJ 32-8 UNIT #10 MV

ADDTIONAL WELLS: N/A

LEGAL LOCATION: H 24 31 8

DATE OF INSTALLATION: 11/26/96

LEASE NUMBER: 650117

TYPE OF LEASE: FEDERAL

PPCO RECTIFIER NUMBER: FM-446

TOTAL G/B DEPTH 300

## **GROUNDBED INFORMATION**

CASING SIZE: 8

CASING TYPE: PVC

CASING DEPTH:

20

CASING CEMENT: NO

TOP ANODE:

140

BOTTOM ANODE

280

INDIVIDUAL ANODE DEPTHS: 140,150,160,170,180,190,200,210,270,280

AMOUNT OF COKE:

3944

#### WATER INFORMATION

WATER DEPTH (1): 250

WATER DEPTH (2): N/A

CEMENT PLUGS: NO

#### OTHER INFORMATION

GAS DEPTH: N/A

VENT PIPE DEPTH 300

TOP OF VENT PERFORATIONS: 130

REMARKS:

Sidetrack 11/96 NEW G/B DRILLED 11-96

IF ANY OF THE ABOVE DATA IS UNAVAILABLE, PLEASE INDICATE SO COPIES OF ALL LOGS, INCLUDING DRILLERS LOGS, WATER ANALYSIS, AND WELL BORE SCHEMATICS SHOULD BE SUBMITTED WHEN AVAILABLE. UNPLUGGED UNABANDONED WELLS ARE TO BE INCLUDED.

\*- LAHD TYPE MAY BE SHOWN: F-FEDERAL; HINDIAN; S-STATE; P-FEE IF FEDERAL OR INDIAN, ADD LEASE NUMBER.

405306.

Page 35 of 98

CPDTGD.WK3

PHILLIPS PETROLEUM COMPANY F
DEEP TYPE GROUNDBED DATA

n. 446	
DATE: 11-26-90	
102,00	

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COMPANY: Phillips					DATE: 11-26-96		
WELL:					PIPELINE:		
LOCAT 10	LOCATION: /4 /4 SEC.				STATE: New Mexico		
		ETER:	7"	•••••			
GROUNUB	ED: DEPTH: 300 DIAM	• • • • • • •				1017560 JANOOES TYPE: DUTILON	
1			MODE LO	XG	ANCOE		
DEPTH	DRILLERS LOG	1	1 1	, R	DEPTH	REMARKS	
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170	1	2,0	5,0	20	165	7	
180					175		
190							
	<del> </del> <i> </i>		5.7			5	
200		1,6	4,9	1,1	195	4	
210		1.5	4,4	1.7	205	3	
220	Saudstone	14			.xy	·····	
	Janas 1900	1					
230		15					
240	1	1.5					
250	1 /	.9					
260		1.5					
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270	Shele	1.4	212	ルス	270	d	
280		1,3	3.0	1,3	280	1	
290	Sand stone	12					
300						•	
	<i>F</i>	1.1.		·····			
310	***************************************		<b> </b>				
320				1			
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	••••••		{				
350	•••••	<b> </b>		<b> </b>			
MOTES:	HOTES: H2D A+ 250' (19pm)						
TOTES: 110 0 17 0. JU (1 9 PM)							
POWER SOURCE: AUTO VOLTS: ///60							
INDICAT	INDICATE WATER ZONE DEPTHS $250'$						
	RUM: YES / NO TYPE:	PUL	<u></u>		DEPTH:	20 CEMENTED: (YES)/ NO	
						DEPERTED: (153) NO	
	ISOLATION PLUGS SET: YES / (NO) IF SO, WHERE:						
TOTAL:	aps <u>/5.0</u>	-		RESIST	ANCE:/	77	

## DATA SHEET FOR DEEP BED CATHODIC PROTECTION WELLS NORTHWESTERN NEW MEXICO (SUBMIT 2 COPIES TO OCD AZTEC OFFICE)

32. Kin .

PPCO DESIGNATION: FM-535

OPERATOR: PHILLIPS PETROLEUM COMPANY LOCATION: G 24
FARMINGTON, N.M. 87401 LEASE NUMBER: -O-

LOCATION: G 24 31 8

(505) 599-3400 NAME OF WELL/S OR PIPELINE SERVED: (1) 32-8#206

30-045-28251

(2) N/A

ELEVATION: -O-

COMPLETION DATE: 07/03/92

TOTAL DEPTH: 300 FT.

LAND: FEDERAL

CASING INFO.; SIZE: 8

TYPE: PVC IN.

DEPTH: 20 FT. CEMENT USED: NA

IF CEMENT OR BENTONITE PLUGS HAVE BEEN PLACED, SHOW DEPTHS & AMOUNTS:

PLUG DEPTH: NONE PLUG AMOUNT: NONE

WATER INFORMATION:

WATER DEPTH (FT): (1) 70 (2) NA

WATER INFORMATION: NA

DEPTHS GAS ENCOUNTERED (FT): NA

TYPE AND AMOUNT OF COKE BREEZE USED:

COKE TYPE: METALLURGICAL COKE BREEZE

COKE AMOUNT: 5368 LBS.

DEPTHS ANODES PLACED (FT):

**75**,85,95,105,115,125,135,2**1**5,225,235

DEPTH VENT PIPE PLACED (FT): 300

VENT PIPE PERFORATIONS (FT): TOP 65 BOTTOM 300

REMARKS: -0-

IF ANY OF THE ABOVE DATA IS UNAVAILABLE, PLEASE INDICATE SO. COPIES OF ALL LOGS, INCLUDING DRILLERS LOG, WATER ANALYSIS & 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.

NA-INFORMATION NOT AVAILABLE

CC: CP FILE--FARMINGTON

#### OCD CATHODIC PROTECTION DEEPWELL GROUNDBED REPORT DATA SHEET: NORTHWESTERN NEW MEXICO

OPERATOR: ConocoPhillips CO. FARMINGTON, NM 87401

SUBMIT 2 COPIES TO O.C.D. AZTEC OFFICE	JΕ
--	----

PHONE: 599-3400 **LOCATION INFORMATION** 30044532308 **API Number** WELL NAME OR PIPELINE SERVED. 32-8 220A **LEGAL LOCATION:** 24-31-8 9/22/2004 INSTALLATION DATE FM-703 32-8 15A PPCO. RECTIFIER NO.: **ADDITIONAL WELLS: FEDERAL** NMSF080854 TYPE OF LEASE: LEASE NUMBER: **GROUND BED INFORMATION** PVC 380 **8-IN** TYPE OF CASING: 20' TOTAL DEPTH **CASING DIAMETER:** CASING DEPTH CASING CEMENTED: 260 370 TOP ANODE DEPTIL BOTTOM ANODE DEPTH 260,270,280,290,300,310,320,330,340,350,360,370 ANODE DEPTHS: 2600# AMOUNT OF COKE **WATER INFORMATION** 160 WATER DEPTH (1) WATER DEPTH (2): **GAS DEPTH CEMENT PLUGS:** OTHER INFORMATION 380 240 TOP OF VENT PERFORATIONS: **VENT PIPE DEPTIL** REMARKS:

IF ANY OF THE ABOVE DATA IS UNAVAILABLE, PLEASE INDICATE SO, COPIES OF ALL LOGS, INCLUDING DRILLERS LOGS, WATER ANALYSIS, AND WELL BORE SCHEMATICS SHOULD BE SUBMITTED WHEN AVAILABLE, UNPLUGGED UNABANDONED 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.

Tuesday, January

DIST. 3

Received by OCD: 11/6/2023 10:09:32 AM

# OCD CATHODIC PROTECTION DEEPWELL GROUNDBED REPORT DATA SHEET: NORTHWESTERN NEW MEXICO

OPERATOR: ConocoPhillips CO. FARMINGTON, NM 87401

	TO O.C.D. AZTEC			••••	PHONE: 599-3-	
LOCATION INFO	<u>ORMATION</u>			API Kumber	30045333	308
WELL NAME OR PIPEL	INE SERVED:	32-8 206A	LEGAL LOCATION	24-31-8	DISTALL	ATION DATE 12/1/2006
PPCO. RECTIFIER NO.:	FM-0996	ADDITIONAL WELLS:	N/A			
TYPE OF LEASE.	FEDERAL	LEASE	NUMBER: SF	078996		
GROUND BED II	NFORMATION					
TOTAL DEPTIH:	400 GASING I	DIAMETER: 8-IN	TYPE OF CASING: P\	CASING D	<b>PTH</b> 20	CASING CEMENTED: $\Box$
TOP ANODE DEPTIL $\left[ \right.$	200 <b>BOT</b>	TOM ANODE DEPTIL	390			
ANODE DEPTHS:	200,210,22	20,230,240,250,260,2	70,300,320,340,360,3	370,380,390		
AMOUNT OF COKE	3200#					
WATER INFOR WATER DEPTH (1: 648 DEPTH:		TER DEPTH (2):				

IF ANY OF THE ABOVE DATA IS UNAVAILABLE, PLEASE INDICATE SO. COPIES OF ALL LOGS, INCLUDING DRILLERS LOGS, WATER ANALYSIS, AND WELL BORE SCHEMATICS SHOULD BE SUBMITTED WHEN AVAILABLE. UNPLUGGED UNABANDONED 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.

Monday, March 26

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

(SUBMIT 2 COPIES TO OCD AZTEC OFFICE)

30-045-10434

238-30-045-281321993REP

PPCO DESIGNATION: FM-463 "REPLACEMENT"

OPERATOR: PHILLIPS PETROLEUM COMPANY

LOCATION: M 23 31 8 FARMINGTON, N.M. 87401 LEASE NUMBER: 650117

(505) 599-3400

NAME OF WELL/S OR PIPELINE SERVED: (1) SJ 32-8 UNIT #17 MV

(2) 32-8#238

ELEVATION: NA

COMPLETION DATE: 08/23/93

TOTAL DEPTH: 460 FT.

LAND: FEDERAL

CASING INFO.: SIZE: 8

IN.

TYPE: PVC DEPTH: 20 FT. CEMENT USED: NO

IF CEMENT OR BENTONITE PLUGS HAVE BEEN PLACED, SHOW DEPTHS & AMOUNTS:

PLUG DEPTH: NONE PLUG AMOUNT: NONE

WATER INFORMATION:

WATER DEPTH (FT): (1) 140 (2) N/A

WATER INFORMATION: N/A

DEPTHS GAS ENCOUNTERED (FT): N/A

TYPE AND AMOUNT OF COKE BREEZE USED:

COKE TYPE: METALLURGICAL COKE BREEZE

COKE AMOUNT: 7012 LBS.

DEPTHS ANODES PLACED (FT):

160,170,310,320,345,355,390,400,410,425,435

DEPTH VENT PIPE PLACED (FT): 460

VENT PIPE PERFORATIONS (FT): TOP 150 BOTTOM 460

REMARKS: -0-

IF ANY OF THE ABOVE DATA IS UNAVAILABLE, PLEASE INDICATE SO. COPIES OF ALL LOGS, INCLUDING DRILLERS LOG, WATER ANALYSIS & WELL BORE SCHEMATICS SHOULD BE SUBMITTED WHEN AVAILABLE. UNPLUGGED ABANDONED WELLS ARE TO BE INCLUDED.

www.seconderect.com

\* - LAND TYPE MAY BE SHOWN: F-FEDERAL: I-INDIAN: S-STATE: P-FEE IF FEDERAL OR INDIAN, ADD LEASE NUMBER.

NA-INFORMATION NOT AVAILABLE

CC: CP FILE--FARMINGTON

# OCD CATHODIC PROTECTION DEEPWELL GROUNDBED REPORT DATA SHEET: NORTHWESTERN NEW MEXICO

SUBMIT 2 COPIES TO 0 C.D. AZTEC OFFIC

OPERATOR: PHILLIPS PETROLEUM CO. FARMINGTON, NM 87401

PHONE 599-3400

30-045-10568

#### **LOCATION INFORMATION**

WELLNAME OR PIPELINE SERVED: SJ 32-8 UNIT #1 MV

ADDTIONAL WELLS: 32-8#237

LEGAL LOCATION: G 23 31 8 DATE OF INSTALLATION: 11/6/96

LEASE NUMBER: 650117

TYPE OF LEASE: FEDERAL PPCO RECTIFIER NUMBER: FM-450

**TOTAL G/B DEPTH 300** 

#### **GROUNDBED INFORMATION**

CASING SIZE: 8 CASING TYPE: PVC CASING DEPTH: 20

CASING CEMENT: NO

TOP ANODE: 113 BOTTOM ANODE 270

INDIVIDUAL ANODE DEPTHS: 113,120,127,134,141,148,155,162,169,176,183,190,210,225,270

AMOUNT OF COKE: 4535

#### WATER INFORMATION

WATER DEPTH (1): 100 WATER DEPTH (2): N/A

CEMENT PLUGS: NO

#### OTHER INFORMATION

GAS DEPTH: N/A

VENT PIPE DEPTH 300 TOP OF VENT PERFORATIONS: 103

REMARKS: NEW G/B DRILLED 11-96

IF ANY OF THE ABOVE DATA IS UNAVAILABLE, PLEASE INDICATE SO. COPIES OF ALL LOGS, INCLUDING DRILLERS LOGS, WATER ANALYSIS, AND WELL BORE SCHEMATICS SHOULD BE SUBMITTED WHEN AVAILABLE. UNPLUGGED UNABANDONED WELLS ARE TO BE INCLUDED.

\*- LAND TYPE MAY BE SHOWN F-FEDERAL, HINDIAN; S-STATE; P-FEE IF FEDERAL OR INDIAN, ADD LEASE NUMBER.

CPDTGD.WK3

PHILLIPS PETROLEUM COMPANY DEEP TYPE GROUNDBED DATA

FM-	4	5	0
1 '' ,			

COMPANY							••••••	DATE: //-6	76
WELL:		2-8 #237			•••••	PIPELINE:		•••••	
LOCATIO		14 SEC. 23		8			n.m,		, ,
GROUNDE	BED: DEPTH:	300' DIAM	ETER:			BACKFILL:	Loiesco	ANODES TYPE: $oldsymbol{\ell}$	Uriton
				ANODE LO	OG .	ANODE			
DEPTH FT.	DRILL	ERS LOG	Logged	Coked	·R	DEPTH		REMARKS	
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30	299	1 3 love						• • • • • • • • • • • • • • • • • • • •	
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90		<i>f</i>							
100	5h	. 10	,60						
110		4.1.5	77	<b> </b>					
120		15		5.3	1,3	113			
130		15   13	1.4		2.1	120		••••••	• • • • • • • • • • • • • • • • • • • •
140		12		5.4	1	127	•••••		
150		1 11	1 .	5.7	_	1			
160			1,8			141			
170		<u>9</u>	1.1	5,2		148		• • • • • • • • • • • • • • • • • • • •	
180		/ 5	1.8		1				
190	······································	Z2-	19	41	1.3		•••••		
200		Istone	, 2			162			
210		3.1014	16		2.0	176			• • • • • • • • • • • • • • • • • • • •
220			<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>		1.3			••••••	***********
230			.7.3. .4.3.	2.5	1,0	190		• • • • • • • • • • • • • • • • • • • •	
240			13. 23.	1.5	16	210	•••••	•••••••	• • • • • • • • • • • • • • • • • • • •
250		•••••	<u>ر</u> ر	1.3	,7	225			
260			્ર	.6	3	270			• • • • • • • • • • • • • • • • • • • •
270	•	,	ر ج	.• 90.		.a.s.y.			• • • • • • • • • • • • • • • • • • • •
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290			1						•••••
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310	••••••								•••••
320	••••••	•••••	•••••					•••••••••	•••••
330	••••••	•••••						••••••	•
340									• • • • • • • • • • • • • • • • • • • •
350	••••••	• • • • • • • • • • • • • • • • • • • •			,		•••••		•••••
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		4-				11 2	^	•	
POWER SC		10°			VOLTS:_	//- 3	<u></u>		
	WATER ZONE DI						20		
,	RUN: YES / NO	TYPE:	PUC		D	EPTH:	20	CEMENTED:	(YES)/ NO
		YES / 11 SO,	WHERE:			. (	2.5		· · · · · · · · · · · · · · · · · · ·
OTAL: A	ues13.(	<i></i>		١	RESISTA	NCE:	83		

## OCD CATHODIC PROTECTION DEEPWELL GROUNDBED REPORT **DATA SHEET: NORTHWESTERN NEW MEXICO**

OPERATOR: ConocoPhillips CO.

SUBMIT	2	COPIES	то	O.C.D.	AZTEC	OFFICE

FARMINGTON, NM 87401 PHONE: 599-3400

	API Number	30-045-30978
WE SERVED: 32-8 001B LEGAL LOCATION: 0 23 31 8		INSTALLATION DATE: 1/28/2003
NA		
E NUMBER: NMS	SF081089	
		/
TYPE OF CASING:	CASING DE	PTH: 20 CASING CEMENTED:
250		
0,217,223,230,237,24	3,250	
	\$1 \qquad \qqqq \qqq \qqqq \qqq \qqqq \qqq \qqqq \qqq \qqqq \qqq \qqqq \qqq \qqqq \qqq \qqqq \qqq \qqqq	, A.
300		
		FEB 2004
	NA E NUMBER: NMS  TYPE OF CASINE: PY  250  0,217,223,230,237,24	NA E NUMBER: NMSF081089  TYPE OF CASINE: PVC CASING DE 250 0,217,223,230,237,243,250

DRILLERS LOGS, WATER ANALYSIS, AND WELL BORE SCHEMATICS SHOULD BE SUBMITTED WHEN AVAILABLE. UNPLUGGED UNABANDONED 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.

Thursday, Februar

Page 71 of 850

## OCD CATHODIC PROTECTION DEEPWELL GROUNDBED REPORT DATA SHEET: NORTHWESTERN NEW MEXICO

OPERATOR: ConocoPhillips CO.

SUBMIT 2 COPIES TO O.C.D. AZTEC OFFICE

FARMINGTON, NM 87401 PHONE: 599-3400

LOCATION INFORMATION		API Number	3004532293	
WELL NAME OR PIPELINE SERVED: 32-8 238A	LEGAL LOCATION:	21-31-8	INSTALLATION DATE:	9/20/2004
PPCO. RECTIFIER NO.: FM-874 ADDITIONAL WELLS:	444			
TYPE OF LEASE: FEDERAL LEASE N	UMBER: NMS	F079047		
GROUND BED INFORMATION				
TOTAL DEPTH: 380 CASING DIAMETER: 8-IN	TYPE OF CASING: PV	C CASING DEP	TH: 20' CASING CE	MENTED:
TOP ANODE DEPTH: 210 BOTTOM ANODE DEPTH: 37	70			
<b>ANODE DEPTHS:</b> 210,220,230,270,280,290,3	300,310,320,350,360	),370		
AMOUNT OF COKE: 2900#				
WATER INFORMATION			160 WIVI 2	
WATER DEPTH (1): 100 WATER DEPTH (2): CEMENT PLUGS:		9 3		5 0
GAS DEFIE				
OTHER INFORMATION			A COUNTY OF STATE OF	
TOP OF VENT PERFORATIONS: 190 VENT PIPE DEPTIL	380			
STATIC READ701 RECT. STARTED ON 11-8-	-04			
	The state of the s			

IF ANY OF THE ABOVE DATA IS UNAVAILABLE, PLEASE INDICATE SO. COPIES OF ALL LOGS, INCLUDING DRILLERS LOGS, WATER ANALYSIS, AND WELL BORE SCHEMATICS SHOULD BE SUBMITTED WHEN AVAILABLE. UNPLUGGED UNABANDONED 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.

Tuesday, January

Page 11 of 927

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

(SUBMIT 2 COPIES TO OCD AZTEC OFFICE)

PPCO DESIGNATION: FM-500

OPERATOR: PHILLIPS PETROLEUM COMPANY FARMINGTON, N.M. 87401

LEASE NUMBER: 650123

LOCATION: M 26 31 8

(505) 599-3400

NAME OF WELL/S OR PIPELINE SERVED: (1) BLANCO #10 MV

(2) N/A

ELEVATION: NA

COMPLETION DATE: 09/27/72

TOTAL DEPTH: 300 FT.

LAND: FEDERAL

CASING INFO.; SIZE: NA

IN.

TYPE: NA

DEPTH: NA FT.

CEMENT USED: NA

IF CEMENT OR BENTONITE PLUGS HAVE BEEN PLACED, SHOW DEPTHS & AMOUNTS:

PLUG DEPTH: NONE PLUG AMOUNT: NONE

WATER INFORMATION:

WATER DEPTH (FT): (1) 160 (2) -0~

WATER INFORMATION: NA

DEPTHS GAS ENCOUNTERED (FT): NA

TYPE AND AMOUNT OF COKE BREEZE USED:

COKE TYPE: METALLURGICAL COKE BREEZE

COKE AMOUNT: -3396 LBS.

DEPTHS ANODES PLACED (FT):

475,485,495,505,515,525,535,545

DEPTH VENT PIPE PLACED (FT): 300

VENT PIPE PERFORATIONS (FT): TOP 465 BOTTOM 300

REMARKS: -0-

IF ANY OF THE ABOVE DATA IS UNAVAILABLE, PLEASE INDICATE SO. COPIES OF ALL LOGS, INCLUDING DRILLERS LOG, WATER ANALYSIS & 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.

NA-INFORMATION NOT AVAILABLE

FEB21 1992

JIL CON. DIV DIST. 3

CC: CP FILE--FARMINGTON HOUSTON

DATA SHEET FOR DEEP BED CATHODIC PROTECTION WELLS NORTHWESTERN NEW MEXICO

(SUBMIT 2 COPIES TO OCD AZTEC OFFICE)

202-30-045-27968

PPCO DESIGNATION: FM-501

OPERATOR: PHILLIPS PETROLEUM COMPANY FARMINGTON, N.M. 87401

LOCATION: G 26 31 8 LEASE NUMBER: 650124

(505) 599-3400

NAME OF WELL/S OR PIPELINE SERVED: (1) BLANCO #11 MV

(2) BLANCO #202

ELEVATION: NA

COMPLETION DATE: 07/06/77

TOTAL DEPTH: 435 FT.

LAND: FEDERAL

CASING INFO.; SIZE: NA

IN.

TYPE: NA

DEPTH: NA

FT. CEMENT USED: NA

IF CEMENT OR BENTONITE PLUGS HAVE BEEN PLACED, SHOW DEPTHS & AMOUNTS:

PLUG DEPTH: NONE PLUG AMOUNT: NONE

WATER INFORMATION:

WATER DEPTH (FT): (1) 70 (2) -0-

WATER INFORMATION: NA

DEPTHS GAS ENCOUNTERED (FT): NA

TYPE AND AMOUNT OF COKE BREEZE USED:

COKE TYPE: METALLURGICAL COKE BREEZE

COKE AMOUNT: 6464 LBS.

DEPTHS ANODES PLACED (FT):

160,220,230,240,255,265,275,295,340,380

DEPTH VENT PIPE PLACED (FT): 435

VENT PIPE PERFORATIONS (FT): TOP 150 BOTTOM 435

REMARKS: -0-

IF ANY OF THE ABOVE DATA IS UNAVAILABLE, PLEASE INDICATE SO. COPIES OF ALL LOGS, INCLUDING DRILLERS LOG, WATER ANALYSIS & 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.

NA-INFORMATION NOT AVAILABLE

FEB21 1992 OIL CON. DIV.

CC: CP FILE--FARMINGTON

HOUSTON

## Received by OCD: 11/6/2023 10:09:32 AM DATA SHEET FOR DEEP BED CATHODIC PROTECTION WELLS NORTHWESTERN NEW MEXICO

(SUBMIT 2 COPIES TO OCD AZTEC OFFICE)

11A-30 2045-23656

PPCO DESIGNATION: FM-496

OPERATOR: PHILLIPS PETROLEUM COMPANY LOCATION: P 26 3 FARMINGTON, N.M. 87401 LEASE NUMBER: 650125 LOCATION: P 26 31 8

(505) 599-3400

NAME OF WELL/S OR PIPELINE SERVED: (1) BLANCO #11A MV

(2) N/A

ELEVATION: NA

COMPLETION DATE: 04/08/82

TOTAL DEPTH: 500 FT.

LAND: FEDERAL

CASING INFO.: SIZE: NA

IN. TYPE: NA

DEPTH: NA FT.

CEMENT USED: NA

IF CEMENT OR BENTONITE PLUGS HAVE BEEN PLACED, SHOW DEPTHS & AMOUNTS:

PLUG DEPTH: NONE PLUG AMOUNT: NONE

WATER INFORMATION:

WATER DEPTH (FT): (1) 265 (2) -0-

WATER INFORMATION: NA

DEPTHS GAS ENCOUNTERED (FT): NA

TYPE AND AMOUNT OF COKE BREEZE USED:

COKE TYPE: METALLURGICAL COKE BREEZE

COKE AMOUNT: 5105 LBS.

DEPTHS ANODES PLACED (FT):

287,330,360,380,390,400,430,445,455,465

DEPTH VENT PIPE PLACED (FT): 500

VENT PIPE PERFORATIONS (FT): TOP 277 BOTTOM 500

REMARKS: -O-

IF ANY OF THE ABOVE DATA IS UNAVAILABLE, PLEASE INDICATE SO. COPIES OF ALL LOGS, INCLUDING DRILLERS LOG, WATER ANALYSIS & 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.

NA-INFORMATION NOT AVAILABLE

FEB21 1992 OIL CON. DIV.

DIST. 3

CC: CP FILE--FARMINGTON

HOUSTON

#### DATA SHEET FOR DEEP BED CATHODIC PROTECTION WELLS NORTHWESTERN NEW MEXICO (SUBMIT 2 COPIES TO OCD AZTEC OFFICE)

PPCO DESIGNATION: FM-532

OPERATOR: PHILLIPS PETROLEUM COMPANY FARMINGTON, N.M. 87401 LOCATION: SW 26 31 8

LEASE NUMBER: -0-

(505) 599-3400

NAME OF WELL/S OR PIPELINE SERVED: (1) BLANCO #204-R 30-045-28776

30-045-28305 (2) BLANCO#204

ELEVATION: -O-COMPLETION DATE: 07/04/92

TOTAL DEPTH: 440 FT. LAND: FEDERAL

CASING INFO.; SIZE: 8 IN. TYPE: PVC

DEPTH: 20 FT. CEMENT USED: NA

IF CEMENT OR BENTONITE PLUGS HAVE BEEN PLACED, SHOW DEPTHS & AMOUNTS:

PLUG DEPTH: NONE PLUG AMOUNT: NONE

WATER INFORMATION:

WATER DEPTH (FT): (1) 150 (2) NA

WATER INFORMATION: -0-

DEPTHS GAS ENCOUNTERED (FT): -0-

TYPE AND AMOUNT OF COKE BREEZE USED:

COKE TYPE: METALLURGICAL COKE BREEZE

COKE AMOUNT: 5697 LB3.

DEPTHS ANODES PLACED (FT):

200,210,220,315,325,335,345,355,390,400

DEPTH VENT PIPE PLACED (FT): 440

VENT PIPE PERFORATIONS (FT): TOP 190 BOTTOM 440

REMARKS: -0-

IF ANY OF THE ABOVE DATA IS UNAVAILABLE, PLEASE INDICATE SO. COPIES OF ALL LOGS, INCLUDING DRILLERS LOG, WATER ANALYSIS & WELL BORE SCHEMATICS SHOULD BE SUBMITTED WHEN AVAILABLE. UNPLUGGED ABANDONED WELLS ARE TO BE INCLUDED.

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\* - LAND TYPE MAY BE SHOWN: F-FEDERAL; I-INDIAN; S-STATE; P-FEE IF FEDERAL OR INDIAN, ADD LEASE NUMBER.

NA-INFORMATION NOT AVAILABLE

CC: CP FILE--FARMINGTON

### OCD CATHODIC PROTECTION DEEPWELL GROUNDBED REPORT **DATA SHEET: NORTHWESTERN NEW MEXICO**

OPERATOR: ConocoPhillips CO. FARMINGTON, NM 87401

SUBMIT 2 COPIES TO O.C.D. AZTEC OFFICE

PHONE: 599-3400

<b>LOCATION INFO</b>	RMATION			A	7 Number	3004532262
		BLANCO 202A	. FOAL I	AO S TROPI	26-31-8	INSTALLATION DATE: 9/28/2004
WELL NAME OR PIPELII			LEGAL L	OCATION:	20-31-0	INSTALLATION DATE: 9/28/2004
PPCO. RECTIFIER NO.:	FM-864	ADDITIONAL WELLS:	L			
TYPE OF LEASE:	FEDERA	LEASE	NUMBER:	NMNMO	12641	
<u>Ground bed in</u>	FORMATION					
TOTAL DEPTIL 38	30 CASING	DIAMETER: 8-IN	TYPE OF CASI	NG: PVC	CASING DE	PTH: 20' CASING GEMENTED:
TOP ANODE DEPTH:	210 <b>BOT</b>	TOM ANODE DEPTH:	370			
ANOBE DEPTHS:		30,240,250,260,270,3	00,310,320,3	30,340,350,	360,370	
AMOUNT OF COKE	3000#				<u>·</u>	
AMOUNT OF CORL						
WATER INFORM	IATION					16 200 TO
WATER DEPTH (CL		ATER DEPTH (2)				
						Contain of
GAS DEPTH:	CEMENT PLU	<b>168:</b>				
	TION					
THER INFORMA	<u> liun</u>					4.91.51.11.51.60 P
TOP OF VENT PERFORA	T <b>ions:</b> 190	VENT PIPE DEPTIL	380			
	EAD COC CTA	DTCD ON 44 5 04				
EMARKS: STATIC R	EAD000 31A	KIED ON 11-5-04				

IF ANY OF THE ABOVE DATA IS UNAVAILABLE, PLEASE INDICATE SO. COPIES OF ALL LOGS, INCLUDING DRILLERS LOGS, WATER ANALYSIS, AND WELL BORE SCHEMATICS SHOULD BE SUBMITTED WHEN AVAILABLE. UNPLUGGED UNABANDONED 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.

Tuesday, January

#### OCD CATHODIC PROTECTION DEEPWELL GROUNDBED REPORT **DATA SHEET: NORTHWESTERN NEW MEXICO**

OPERATOR: ConocoPhillips CO.

SUBMIT 2 COPIES TO O.C.D. AZTEC OFFICE

FARMINGTON, NM 87401 PHONE: 599-3400

LOCATION INI	<u>FORMATION</u>		A	<b>1 N</b> umber	3004532408	
WELL NAME OR PIP	FLINE SERVED: BLANC	O 204A LEGA	L LOGATION:	D-26-31-8	INSTALLATION DATE	4/4/2005
PPCO. RECTIHER NO.	FM-0900 ADDITI	ONAL WELLS:	N/A			
TYPE OF LEASE:	FEDERAL	LEASE NUMBER:	NM-012	2641		
GROUND BED	INFORMATION					
TOTAL DEPTIL	400 GASING DIAMETER	8-IN TYPE OF C	ASING: PVC	CASING DEP	THE 20 CASING C	EMENTED:
TOP ANODE DEPTIL	220 BOTTOM AND	DE BEPTH: 390			ar Q	9100
ANODE DEPTHS:	220,230,240,250,2	60,270,290,300,310,34	0,350,360,370	380,390		
AMOUNT OF COKE	3000#				FI REC	EB 2006 SEIVED ST. 3
WATER INFO	<u>rmation</u>		:		DN DN	ST. 3
WATER DEPTH (CL	80 WATER DEPT	<b>H</b> [2]:			<b>4.</b> C. 9.	252 pc 65 000
GAS DEPTH:	CEMENT PLUGS:					
OTHER INFOR	MATION					
TOP OF VENT PERF	ORATIONS: 210 VE	IT PIPE DEPTIL 400				
REMARKS: STAR	T UP ON 12-29-05, STATIC	READ703				
-						

IF ANY OF THE ABOVE DATA IS UNAVAILABLE, PLEASE INDICATE SO. COPIES OF ALL LOGS, INCLUDING DRILLERS LOGS, WATER ANALYSIS, AND WELL BORE SCHEMATICS SHOULD BE SUBMITTED WHEN AVAILABLE. UNPLUGGED UNABANDONED 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.

Tuesday, January

# Received by OCD: 11/6/2023 10:09:32 AM SHEET FOR DEEP BED CATHODIC PROTECTION WELLS NORTHWESTERN NEW MEXICO

(SUBMIT 2 COPIES TO OCD AZTEC OFFICE)

203-30-045-279.19

PPCO DESIGNATION: FM-499

OPERATOR: PHILLIPS PETROLEUM COMPANY FARMINGTON, N.M. 87401

LOCATION: A 35 31 8 LEASE NUMBER: 650122

(505) 599-3400

NAME OF WELL/S OR PIPELINE SERVED: (1) BLANCO #9 MV

(2) BLANCO #203

ELEVATION: NA

COMPLETION DATE: 09/26/72

TOTAL DEFTH: 460 FT. LAND: FEDERAL

CASING INFO.; SIZE: NA

IN.

TYPE: NA

FT. DEPTH: NA

CEMENT USED: NA

IF CEMENT OR BENTONITE PLUGS HAVE BEEN PLACED, SHOW DEPTHS & AMOUNTS:

PLUG DEPTH: NONE PLUG AMOUNT: NONE

WATER INFORMATION:

WATER DEPTH (FT): (1) 70

(2) -0-

WATER INFORMATION: NA

DEPTHS GAS ENCOUNTERED (FT): NA

TYPE AND AMOUNT OF COKE BREEZE USED:

COKE TYPE: METALLURGICAL COKE BREEZE

COKE AMOUNT: 8765 LBS.

DEPTHS ANODES PLACED (FT):

80,90,105,170,280,295,355,365,375,385

DEPTH VENT PIPE PLACED (FT): 460

VENT PIPE PERFORATIONS (FT): TOP 70 BOTTOM 460

REMARKS: -0-

IF ANY OF THE ABOVE DATA IS UNAVAILABLE, PLEASE INDICATE SO. COPIES OF ALL LOGS, INCLUDING DRILLERS LOG, WATER ANALYSIS & 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.

NA-INFORMATION NOT AVAILABLE

FEB2 1/1992

OIL CON. DIV. DIST. 3

CC: CP FILE--FARMINGTON HOUSTON

# Received by OCD: 11/6/2023 10:09:32 AM DATA SHEET FOR DEEP BED CATHODIC PROTECTION WELLS NORTHWESTERN NEW MEXICO

(SUBMIT 2 COPIES TO OCD AZTEC OFFICE)

30-045-60250 *201*-

PPCO DESIGNATION: FM-498

OPERATOR: PHILLIPS PETROLEUM COMPANY FARMINGTON, N.M. 87401

LOCATION: L 35 31 8 LEASE NUMBER: 650127

FARMINGTON, N.M. 87401

(505) 599-3400

NAME OF WELL/S OR PIPELINE SERVED: (1) BLANCO #7 MV

(2) BLANCO #201

ELEVATION: NA

COMPLETION DATE: 07/18/77

TOTAL DEPTH: 340 FT.

LAND: FEDERAL

CASING INFO.: SIZE: NA

TYPE: NA IN.

DEPTH: NA FT. CEMENT USED: NA

IF CEMENT OR BENTONITE PLUGS HAVE BEEN PLACED, SHOW DEPTHS & AMOUNTS:

PLUG DEPTH: NONE PLUG AMOUNT: NONE

WATER INFORMATION:

WATER DEPTH (FT): (1) 60

(2) -0-

WATER INFORMATION: NA

DEPTHS GAS ENCOUNTERED (FT): NA

TYPE AND AMOUNT OF COKE BREEZE USED:

COKE TYPE: METALLURGICAL COKE BREEZE

COKE AMOUNT:

6354 LBS.

DEPTHS ANODES PLACED (FT):

70,100,170,185,195,205,(OTHER 4 DEPTHS AREN'T AVAILABLE)

DEPTH VENT PIPE PLACED (FT): 340

VENT PIPE PERFORATIONS (FT): TOP 60 BOTTOM 340

REMARKS: -0-

IF ANY OF THE ABOVE DATA IS UNAVAILABLE, PLEASE INDICATE SO. COPIES OF ALL LOGS, INCLUDING DRILLERS LOG, WATER ANALYSIS & 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.

NA-INFORMATION NOT AVAILABLE

FEB21 1992

OIL CON. DIV DIST. ?

CC: CP FILE -- FARMINGTON

HOUSTON

#### OCD CATHODIC PROTECTION DEEPWELL GROUNDBED REPORT DATA SHEET: NORTHWESTERN NEW MEXICO

OPERATOR: ConocoPhillips CO.

FARMINGTON, NM 87401 PHONE: 599-3400

<u>LOCATION INFO</u>	RMATION			API I	iumber (	3004532244	
WELL NAME OR PIPELI	NE SERVED:	BLANCO 203A	LEGAL L	OCATION:	35-31-8	INSTALLATION DA	ATE 8/5/2004
PPCO. RECTIFIER NO.:	FM-865	ADDITIONAL WELLS:					
TYPE OF LEASE	FEDERA	AL LEASE	NUMBER:	NMNM012	641		
GROUND BED IN	FORMATIO	N					
TOTAL DEPTIH: 42	20 CASIN	G MAMETER: 8-IN	TYPE OF CAS	NG: PVC	CASING DEPT	H 20' CASIN	IG CEMENTED: 🗆
TOP ANODE DEPTH:	240 BI	OTTOM ANODE BEPTIL	410				
ANODE DEPTHS:	240,25	50,260,310,320,330,340	,350,360,370	0,380,390,400,	410		
AMOUNT OF COKE	3100#	]					
WATER INFORM	AA I JUN	· .		4		00 20 707	100
WATER DEPTH (1)	100	VATER DEPTH (2)				18 C 30 37	120
GAS DEPTIL:	CEMENT P	LUGS:				E a M	300
ATHER INFORMA	l Tion					40,000	2 8 g
OTHER INFORMA						El Bu	. (17)
TOP OF VENT PERFORA	TIONS: 220	VENT PIPE DEPTIL	420			12181A	L'ALLAND
EMARKS: STATIC F	READ774 R	ECT. STRTED ON 11-5	-04				

IF ANY OF THE ABOVE DATA IS UNAVAILABLE, PLEASE INDICATE SO. COPIES OF ALL LOGS, INCLUDING DRILLERS LOGS, WATER ANALYSIS, AND WELL BORE SCHEMATICS SHOULD BE SUBMITTED WHEN AVAILABLE. UNPLUGGED UNABANDONED 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.

Tuesday, January

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# DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS #40 - 30-045-10127 NORTHWESTERN NEW MEXICO

\$473 → 30-045-27298

(Submit 3 Copies to OCD Aztec Office)

Operator: BLACKWOOD & NICHOLS CO. Location: Unit G, Sec. 36, Twp 31N, Rng 8W.
Name of Well/Wells or Pipeline Serviced NEBU 473, 40
Elevation 6440' Completion Date 11-5-93 Total Depth 495' Land Type* Surface: S Mineral: E-3150-1
Casing, 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-II - 90# ea.
If Cement or Bentonite Plugs have been placed, show depths & amounts used N/A
Depths & thickness of water zones with description of water when possible:
Fresh, Clear, Salty, Sulphur, Etc. Water at 480' when drilled.
Depths gas encountered: N/A
Type & amount of coke breeze used: Asbury. RECARBURIZED CHORON (RAPHITE - 6,900#
Depths anodes placed: 115' - 441'
Depths vent pipes placed: Bottom to 4' above ground level.
Vent pipe perforations: Bottom - 380'  JAN 0 3 1994
Remarks: Groundbed is located at 228° N & 151' from NEBU #473 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. all Title: Operations Engineer Date: 12-22-93



1115 Farmington Avenue - Farmington , NM 87401

(505) 325-1085

Lab Number:

W93-475

Standard A.P.I. Water Analysis Report

Company:

BLACKWOOD & NICHOLS CO., LTD.

Date Collected:

11/3/93

Well Name:

P-20; NEBU #473

Date Received:

11/4/93

Formation:

SURFACE

Date Analyzed:

11/10/93

Location:

NE SEC. 36-31-08

County:

San Juan State: New Mexico

Collected By:

J. EVANS

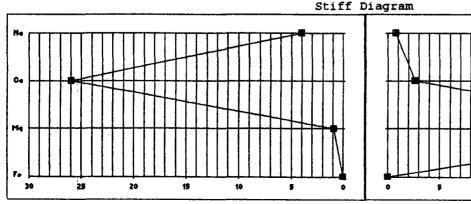
Analyst:

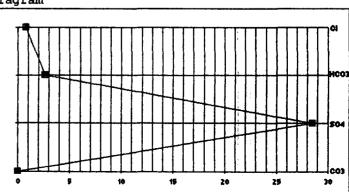
Sheila Feltman

Remarks:

GROUNDBED - DRILLING @ 455'

	e riot			<b>46</b> 100	
Sodium , Na	92 mg/1		Chloride , Cl	28 mg/l	
Potassium, K	7 mg/1		Sulfate, SO4	1370 mg/1	
Calcium , Ca Magnesium , Mg	520 mg/1 11 mg/1		Hydroxide, OH	0 mg/1	
Iron, Fe (Total)	0 mg/1	NR	Carbonate, CO3 Bicarbonate, HCO3	0 mg/1 160 mg/1	
Hydrogen Sulfide	0 mg/1	< 0.1 mg/L	Resistivity	4.367 ohm-m	
рН	7.7 units		(025 Degrees C) Conductivity	2,290 us	
TDS			Specific Gravity (0 60 Degrees F)		
Remarks:		NOV 1 5 1993			
	BLACKW	OOD & NICHOLS CO	μυ · ιτο.		
NR = Test Not Run			-•	Anion/Cation:	102.8%





Scale: Meq/L

P.	20 WELL# <u>N.E.B.</u>	u. 4473,40		E	s <u> 36 - 131</u>
II,	STRATA	notes	DEPTH	STRATA	NOTI
2-25	shale				
25-75	sanlstone				
25-95	sandstone with	shale streaks			
25-100	Shale	shale stacats			
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ER Mad A. Sprill

INSPECTOR MIM.

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% WELL# <u>N.F.B.</u>	U. #473, #40			6	s <u>36 r31-</u>	
STRATA	notes	l	DEPTH	STRATA	МОЛЛ	
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	STRATA  Casino Sale Sale State Sandy State Sandy State Sindy State Sindy State	Casin, Sale Saly Stell Sandy Stell Sandy Stell Sindy S	- STRATA NOTES 1  Casino,  Kall  Sandstine,  Sindy Stall  Sindy Stale  Sindy Stale  Sindy Stale  Sindy Stale  Sindy Stale  Sindy Stale  Sindstane	STRATA NOTES  DEPTH  CASIN,  Sale Sale  Sale  Sale Sale  Sale	STRATA NOTES DEPTH STRATA  Casin  Lale  Salstine	

LER\_\_\_\_\_\_

INSPECTOR MOM-

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION OF SOLUTION OF	ON WELLS P-2
Operator: BLACKWOOD & NICHOLS CO. Location: Unit M, Sec.	19, Twp <u>31N</u> , Rng <u>7W</u>
Name of Well/Wells or Pipeline Serviced NEBU 449, 42	
Elevation 6300' Completion Date 7-27-93 Total Depth 417' Land Type*	Surface: F Mineral: SF-08055
Casing, Sizes, Types & Depths 8-5/8" SCH 40 P.V.C 100', 7-7/8" Ope	n Hole
If Casing is cemented, show amounts & types used 20 sks Portland Zia I-	II - 90# ea.
If Cement or Bentonite Plugs have been placed, show depths & amounts use	ed N/A
Depths & thickness of water zones with description of water when possible:  Fresh, Clear, Salty, Sulphur, Etc. Fresh, Damp 110', 270' lake level  Depths gas encountered: N/A	
Type & amount of coke breeze used: Asbury & Loresco - 6,100#  Depths anodes placed: 120' - 406'	RECEIVE
Depths vent pipes placed: 420' to 4' above ground level	OCT1 41993
Vent pipe perforations: Bottom 340'	OIL CON. DIV DIST. 3
Remarks: Ground bed is located 341' 330° NW of #449 wellhead.	
If any of the above data is unavailable, please indicate so. Copies of all Water Analyses & Well Bore Schematics should be submitted when avail wells are to be included.	

Title: Operations Engineer Date: /1/2/93

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1P# 18-26 WELL# NEBU 449 + 42

s<u>/9 t3/N r7//</u>

PHILADU GATI TA					2 / / 1 Q / / N / 22	
DEPTH	STRATA	NOTES	DEPTH	STRATA	NOTES	
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15'						
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251	N. C.					
301	X					
351	4					
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INSPECTOR DE MATISSE

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INSPECTOR MM.

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# 1115 Farmington Avenue - Farmington , NM 87401 (505) 325-1085

Lab	Sample	No.:	₩93-252

Standard A.P.I. Water Analysis Report

Collected By: M.D.M.

Company: Blackwood and Nichols Co. Collection Date: 28-Jul-93

Well Name: NEBU #449, #42 Collection Time: 10:31 FM

Formation: Surface County: San Juan State: NM

Location: (M) Sec.19-T31N-R7W Analyst: K. Lambdin & S. Spencer

Remarks: Fresh water, CP Station P-26 Analysis Date: 7/31/93

PARAMETER as ION	Comment	PARAMETER	:as ION	Comment
Sodium , Na 150 m	•	Chloride , Cl	21 mg/l	
Potassium, K 10 m	-	_		
Calcium, Ca 602 m	g/l	Sulfate, SO4	1508 mg/1	
		Hydroxide, OH	0 mg/l	
Magnesium , Mg 22 m	g/l	Carbonate, CO3	0 mg/l	
Iron, Fe (Total) 0.0 m	g/l NR	Bicarbonate, HCO3	267 mg/l	
Hydrogen Sulfide 0 m	g/l <1	Resistivity	3.311 ohm-	m
		(025 Degrees C)		
он 7.70 U	nits	Conductivity	3,020 uS	
		Specific Gravity	1.000 Units	
rDS 200 m	g/l	(@ 60 Degrees F)		
Remarks: None.	Stiff	∭ AU	IG 3 1993 Anion/Cation  M NICHOLS CO., LTD.	94.1
Ca Mq				HC Sco

Scale: Meq/L

P-27

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

(Submit 3 Copies to OCD Aztec Office)

3579

_	& NICHOLS CO. Location: Unit <u>G</u> , Sec. <u>19</u> , Twp <u>31N</u> , Rng <u>T</u>
Elevation 6500' Completio	on Date 11-1-93 Total Depth 495' Land Type* Surface: F Mineral: SF-08055
Casing, Sizes, Types & Dep	oths 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-II - 90# ea.
If Cement or Bentonite Plug	gs have been placed, show depths & amounts used N/A
Depths & thickness of water	r zones with description of water when possible:
Fresh, Clear, Salty, Sulphur	, Etc. Clear, 475'.
Depths gas encountered:	N/A
Type & amount of coke bre	eze used: Asbury Flo-Coke - 6,150#
Depths anodes placed:1	35' to 426' (10)
Depths vent pipes placed:	Bottom to 4' above ground level.  JAN 0 3 1994  OIL CON.
Vent pipe perforations:B	Bottom - 380'
Remarks: Groundbed is	located at 117° N & 132' from NEBU #459 wellhead.
	s unavailable, please indicate so. Copies of all logs, including Drillers ore Schematics should be submitted when available. Unplugged aband
*Land Type may be shown: If Federal or Indian, add Le	F-Federal; I-Indian; S-State; P-Fee. ase Number.
Signed by: James K. a	Title: Operations Engineer Date: 12.22-93

4 150.

(505) 325-1085

W93-445 Lab Sample No.:

VIRONMENTAL ACKWOOD & NICHOLS CO., LFD.

Standard A.P.I. Water Analysis Report

Collected By: J. Evans

Company: Blackwood & Nichols Co. Collection Date: 10/28/93

Well Name: P - 27

Collection Time: Unknown

Formation: C.P. Groundbed while drilling

County: Unknown State: Unknown

Location: Unknown

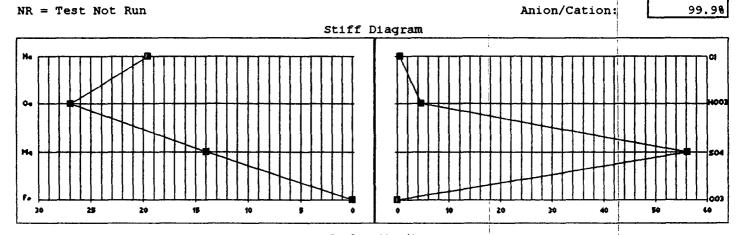
Analyst: K. Lambdin & S. Spencer

Remarks: Water at 475 feet - Depth sampled 495 feet

Analysis Date:

57417 (2000)		PARAMOPEL	as ION Commont
Sodium , Na 450 mg,		Chloride , Cl	20 mg/1
Potassium, K 34 mg, Calcium, Ca 540 mg,		Sulfate, SO4	2700 mg/1
Magnesium , Mg 170 mg,	/1	Hydroxide, OH Carbonate, CO3	0 mg/1 0 mg/1
Iron, Fe (Total) 0 mg,	/1 NR	Bicarbonate, HCO3	280 mg/l
Hydrogen Sulfide 0 mg	/1 NR	Resistivity (025 Degrees C)	2.941 ohm-m
pH 7.80 Un:	its	Conductivity	3,400 us
TDS 2,270 mg,	/1	Specific Gravity (0 60 Degrees F)	1.000 Units

Remarks: Not enough sample to run H2S -- lots of mud.



Scale: Meq/L

53	TWELL# NIE.B.	U. #495		G s 17 T 31-7		
	STRATA	NOTES	DEPTH	STRATA	ноте	
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INSPECTOR\_MDM;

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P-25

# DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS

### NORTHWESTERN NEW MEXICO

30-045-22921

(Submit 3 Copies to OCD Aztec Office)

3597

Operator: BLACKWOOD & NICHOLS CO. Location: Unit F, Sec. 30, Twp 31N, Rng 7W.
Name of Well/Wells or Pipeline Serviced NEBU 66
Elevation 6280' Completion Date 10-31-93 Total Depth 495' Land Type* Surface: F Mineral: SF-079082
Casing, 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-II - 90# ea.
If Cement or Bentonite Plugs have been placed, show depths & amounts usedN/A
Depths & thickness of water zones with description of water when possible:
Fresh, Clear, Salty, Sulphur, Etc. Water at 260'
Depths gas encountered: N/A
Type & amount of coke breeze used: 132 sx Asbury Graphite Flo-Coke
Depths anodes placed: 270' - 447'
Depths vent pipes placed: 495' to 4' above ground level
Vent pipe perforations: 115' - 495'
Remarks: Ground Bed located 115' N 44° of NEBU #66 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.

Title: Operations Engineer Date: 1/3/9.4

Signed by: James K. Ull
Released to Imaging: 2/2/2024 3:16:11 PM

2-25 WELL# NEBU #66 Es 30 T 31-1 STRATA NOTES DEPTH STRATA H NOTES Fill Oiet - 8 Sorlstone shale spulstone

ER Mark A. Spruil Released to Imaging: 2/2/2024 3:16:11 PM

INSPECTOR\_MJM:

JAN 1 2 1994

OIL CON! DIV.



#### 1115 Farmington Avenue - Farmington , NM 87401 (505) 325-1085

Lab	Sample	No.:	W93-444	
			···	

Standard A.P.I. W	ater Analysis Report
	Collected By: J. Evans
Company: Blackwood & Nichols Co.	Collection Date: 10/31/93
Well Name: P-24 P-25	Collection Time: Unknown
Formation: C.P. Groundbed while drilling	County: <u>Unknown</u> State: <u>Unknown</u>
Location: Unknown	Analyst: K. Lambdin & S. Spencer,
Remarks: Depth sampled - 260 feet	NOV 4 1993  Ranalysis Date: 11/2/93
Sodium , Na       240 mg/1         Potassium, K       30 mg/1         Calcium , Ca       540 mg/1	Chloride , Cl 20 mg/l Sulfate, SO4 1850 mg/l
Magnesium, Mg 30 mg/1	Hydroxide, OH 0 mg/l Carbonate, CO3 0 mg/l
Iron, Fe (Total) 0 mg/1 NR	Bicarbonate, HCO3 235 mg/1
Hydrogen Sulfide 0 mg/l NR	Resistivity 3.636 ohm-m (025 Degrees C)
pH 7.72 Units	Conductivity 2,750 us
TDS 1,860 mg/1	Specific Gravity 1.000 Units
Remarks: Not enough sample to run H2S	lots of myAN1 2 1994
	Ollon, DV.
NR = Test Not Run Stiff	Diagram 105.6%
	MO03

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Scale: Meq/L

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-25 WELL# <u>NEBU = 66</u>	:	c 30
THELL# 19 COOK OV	. :	<u>5_5</u>

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	STRATA	notes	DEPTH	STRATA	NOTE
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180	Sendstore				
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-240	Snittered Koll				
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P-22

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

(Submit 3 Copies to OCD Aztec Office)

3580

Operator: BLACKWOOD & NICHOLS CO. Location: Unit B, Sec. 31, Twp 31N, Rng 7W.
Name of Well/Wells or Pipeline Serviced NEBU 455, 38 30-045-270-45, 30-045-10216
Elevation 6300' Completion Date 11-4-93 Total Depth 495' Land Type* Surface: F Mineral: SF-079043
Casing, 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-II - 90# ea.
If Cement or Bentonite Plugs have been placed, show depths & amounts usedN/A
Depths & thickness of water zones with description of water when possible:
Fresh, Clear, Salty, Sulphur, Etc. Water at 380'.
Depths gas encountered: N/A
Type & amount of coke breeze used: Asbury Graphite Flo-Coke. 6,150-##
Depths anodes placed: 310' - 430'
Depths vent pipes placed: Bottom to 4' above ground level.
Vent pipe perforations: Bottom - 380'  JAN 0 3 1994
Remarks: Groundbed is located at 141' N 22° W of NEBU #455.
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.

Title: Operations Engineer Date: 12.22-93

Signed by: https://www.acceptage.com/signed-common Released to Imaging: 2/2/2024 3:16:11 PM

1115 Farmington Avenue - Farmington , NM 87401

(505) 325-1085

NVIRONMENTAL **EPORTS** 

Lab Number:

W93-464

#### Standard A.P.I. Water Analysis Report

BLACKWOOD & NICHOLS CO., LTD. Company:

P-22

Date Collected: 11/1/93

Well Name:

Date Received:

Date Analyzed:

11/3/93

Formation:

SURFACE

11/10/93

Location:

NOT AVAILABLE

San Juan State: New Mexico

Collected By:

J. EVANS

Analyst:

County:

Sheila Feltman

Remarks:

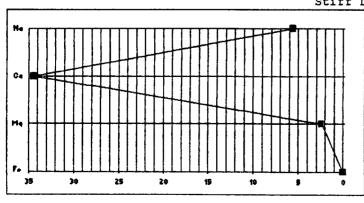
GROUNDBED @ 380'

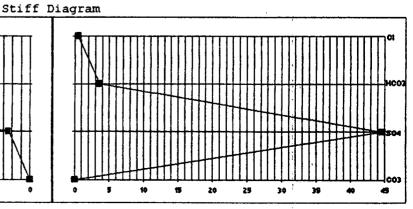
			PARAMETER	as ton Comment
Sodium , Na Potassium, K	130 mg/1 15 mg/1		Chloride , Cl	18 mg/1
Calcium , Ca	690 mg/1		Sulfate, SO4	2150 mg/l
			Hydroxide, OH	0 mg/1
Magnesium , Mg	29 mg/l		Carbonate, CO3	0 mg/1
Iron, Fe (Total)	0 mg/1	NR	Bicarbonate, HCO3	220 mg/1
Hydrogen Sulfide	0 mg/1	<0.1 mg/L	Resistivity	3.096 ohm-m
			(025 Degrees C)	
pН	7.8 units	เปรอดเกา	Conductivity	3, 230 us
TDS	3,200 mg/1	NOV 15 18	Specific Gravity	
Remarks:	BLA	ACKWOOD & NICHOLS	CO. LTD	

NR = Test Not Run

Anion/Cation:

114.0%





Scale: Meq/L

STRATA	NOTES	DEPTH	STRATA	NOTES
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P-21

#### DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS

NORTHWESTERN NEW MEXICO

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(Submit 3 Copies to OCD Aztec Office)

#66A ->	30-045-	22922
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Operator: BLACKWOOD & NICHOLS CO. Location: Unit F, Sec. 31, Twp 31N, 1	Rng <u>7W</u> .
Name of Well/Wells or Pipeline Serviced NEBU 457, 66A	
Elevation 6400' Completion Date 11-5-93 Total Depth 495' Land Type* Surface: F Miner	al: SF-079082
Casing, 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-II - 90# ea.	
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. Clear, 395'	
Depths gas encountered: N/A	
Type & amount of coke breeze used: Asbury	
Depths anodes placed: 170' - 380' (15)	
Depths vent pipes placed: Bottom to 4' above ground level	
Vent pipe perforations: Bottom - 380'  OIL CON. DIV	
Remarks: Ground Bed located East of NEBU #457 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.

Title: Operations Engineer Date: 1/3/94



1115 Farmington Avenue - Farmington , NM 87401 (505) 325-1085

Lab Number: W93-463

Standard A.P.I. Water Analysis Report

Company: BLACKWOOD & NICHOLS CO., LTD.

Date Collected: 11/2/93

Well Name:

P 21; NEBU #457 & #66A Date Received:

11/3/93

Formation:

SURFACE

11/10/93

Location:

NW 31-31-07

San Juan State: New Mexico

Collected By:

J. EVANS

Analyst:

County:

Date Analyzed:

Sheila Feltman Kalo

Remarks:

GROUNDBED - DRILLING @ 480'

	Eisk Comment	PARAMETRIA AS ION Comment
Sodium , Na Potassium, K	95 mg/1 8 mg/1	Chloride , Cl 25 mg/l
Calcium , Ca	440 mg/1	Sulfate, SO4 1270 mg/l
Magnesium , Mg	17 mg/1	Hydroxide, OH 0 mg/l Carbonate, CO3 0 mg/l
Iron, Fe (Total)	0 mg/1 NR	Bicarbonate, HCO3 210 mg/l
Hydrogen Sulfide	0 mg/l <0.1 mg/L	Resistivity 4.695 ohm-m
рн	7.8 units	(025 Degrees C)  Conductivity  2,130 us  Specific Gravity  1.0047
TDS	1,900 mg 1 2 C 2	ETD (8 60 Degree & CET VE
Remarks:	NOV 1 5 199	JANI 2 1994
NR = Test Not Run	Stiff	O. ITh  Annon/Eation: 110.48

Stiff Diagram

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Oc.

Diagram

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Scale: Meq/L

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WELL# NEB.U \*457-#66A

Fs3/ r31-7

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	STRATA	notes	DEPTH	STRATA	NOTES
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7	Boulders				
25	shale				
45	sandstone				:
<u>P5</u>	shale		·		
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INSPECTOR



# **APPENDIX C**

Executed C-138 Solid Waste Acceptance Form

District 1
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources Oil Conservation Division 1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-138 Revised 08/01/11

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

# REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address: Enterprise Field Services, LLC, 614 Reilly Ave, Farmington NM 87401	
2. Originating Site: Blanco O-14	AFE: N66628 PM: Maron O'Brien Pay Key: REB21200
2. Location of Material (Street Address, City, State or ULSTR): UL N Section 25 T31N R8W; 36.864828, -107.630027	July 2023
4. Source and Description of Waste: Source: Hydrocarbon contaminated soil associated with remediation activities Description: Hydrocarbon contaminated soil associated with remediation activ Estimated Volume _50 yd³ bbls Known Volume (to be entered by the operator	from a natural gas pipeline release.
5. GENERATOR CERTIFICATION STATEMEN	T OF WASTE STATUS
I, Thomas Long , representative or authorized agent for Enterprise Production Generator Signature certify that according to the Resource Conservation and Recovery Act (RCRA) and regulatory determination, the above described waste is: (Check the appropriate class	the US Environmental Protection Agency's July 1988
RCRA Non-Exempt: Oil field waste which is non-hazardous that does not characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or list subpart D, as amended. The following documentation is attached to demonstrathe appropriate items)	ed hazardous waste as defined in 40 CFR, part 261,
☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Know	vledge ☐ Other (Provide description in Box 4)
GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION	STATEMENT FOR LANDFARMS
I, Thomas Long 7-5-2023, representative for Enterprise Products Operating Generator Signature the required testing/sign the Generator Waste Testing Certification.	ng authorize to complete
I, Greg Crabbee, representative for Envirotech, Increpresentative samples of the oil field waste have been subjected to the paint filter to have been found to conform to the specific requirements applicable to landfarms put of the representative samples are attached to demonstrate the above-described waste 19.15.36 NMAC.	est and tested for chloride content and that the samples rsuant to Section 15 of 19.15.36 NMAC. The results
5. Transporter: TBD CF+M, IMI	
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 Landfa	urm 🔲 Landfill 🔲 Other
Waste Acceptance Status:  ☐ APPROVED	DENIED (Must Be Maintained As Permanent Record)
PRINT NAME: Greg Crabbrec TITLE: ENU	two Manager DATE: 7/5/23
SIGNATURE: TELEPHON Surface Waste Management Facility Authorized Agent	IE NO.: 505-632-0615



# APPENDIX D

Photographic Documentation

#### SITE PHOTOGRAPHS

Closure Report Enterprise Field Services, LLC Blanco O-14 (07/05/23) Ensolum Project No. 05A1226246



### Photograph 1

Photograph Description: View of the inprocess excavation activities.



### Photograph 2

Photograph Description: View of the final excavation.





# **APPENDIX E**

Regulatory Correspondence

 From:
 Velez, Nelson, EMNRD

 To:
 Long, Thomas

 Cc:
 Stone, Brian

Subject: Re: [EXTERNAL] Blanco O-14 - UL N Section 25 T31N R8W; 36.864828, -107.630027; NMOCD Incident #

nAPP2318644889

**Date:** Wednesday, July 5, 2023 12:45:31 PM

Attachments: Outlook-sx2uugb5.png

#### [Use caution with links/attachments]

Tom,

Thank you for the notice. Your variance request specifically addressing 19.15.29.12D (1a) NMAC is approved.

If an OCD representative is not on-site on the date &/or time given, please sample per 19.15.29 NMAC or from an OCD pre-approved sampling plan. For whatever reason, if the sampling timeframe is altered, please notify the OCD as soon as possible so we may adjust our schedule(s). Failure to notify the OCD of this change may result in the closure sample(s) not being accepted.

Please keep a copy of this communication for inclusion within the appropriate report submittal.

The OCD requires a copy of all correspondence relative to remedial activities be included in all proposals and/or final closure reports. Correspondence required to be included in reports may include, but not limited to, notifications for liner inspections, sample events, spill/release/fire, and request for time extensions or variances.

Regards,

Nelson Velez • Environmental Specialist - Adv Environmental Bureau | EMNRD - Oil Conservation Division 1000 Rio Brazos Road | Aztec, NM 87410 (505) 469-6146 | nelson.velez@emnrd.nm.gov http://www.emnrd.state.nm.us/OCD/



From: Long, Thomas <tjlong@eprod.com> Sent: Wednesday, July 5, 2023 12:41 PM

To: Velez, Nelson, EMNRD < Nelson. Velez@emnrd.nm.gov>

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

**Subject:** [EXTERNAL] Blanco O-14 - UL N Section 25 T31N R8W; 36.864828, -107.630027; NMOCD Incident # nAPP2318644889

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Nelson,

This email is a notification and a variance request. Enterprise is requesting a variance for required 48 hour notification per 19.15.29.12D (1a) NMAC. Enterprise would like to collect soil samples for laboratory analysis tomorrow July 6, 2023 at 12:00 p.m. at the Blanco O-14 excavation. Please acknowledge acceptance of this variance request. If you have any questions, please call or email.

Thank you,

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



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



# **APPENDIX F**

Table 1 – Soil Analytical Summary

**ENSOLUM** 

	TABLE 1 Blanco O-14 (07/05/23) SOIL ANALYTICAL SUMMARY												
Sample I.D.	Date	Sample Type  C- Composite G - Grab	Sample Depth (feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX <sup>1</sup> (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total Combined TPH (GRO/DRO/MRO) <sup>1</sup> (mg/kg)	Chloride (mg/kg)
New Mexico Energy, Mineral & Natural Resources Department Oil Conservation Division Closure Criteria (Tier I)				10	NE	NE	NE	50	NE	NE	NE	100	600
						Excavation C	omposite Soil	Samples					
S-1	7.06.23	С	10	<0.020	<0.041	<0.041	<0.082	ND	<4.1	<9.5	<47	ND	<60
S-2	7.06.23	С	0 to 10	<0.024	<0.048	<0.048	<0.097	ND	<4.8	<9.9	<49	ND	<60
S-3	7.06.23	С	0 to 10	<0.024	<0.048	<0.048	<0.096	ND	<4.8	<9.2	<46	ND	<60
S-4	7.06.23	С	0 to 10	<0.021	<0.041	<0.041	<0.082	ND	<4.1	<9.9	<49	ND	<60
S-5	7.06.23	С	0 to 10	<0.020	<0.039	<0.039	<0.079	ND	<3.9	<9.7	<48	ND	<60

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

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

NA = Not Analyzed

NE = Not established

mg/kg = milligrams per kilogram

BTEX = Benzene, Toluene, Ethylbenzene, and Xylenes

TPH = Total Petroleum Hydrocarbons

GRO = Gasoline Range Organics

DRO = Diesel Range Organics

MRO = Motor Oil/Lube Oil Range Organics



# **APPENDIX G**

Laboratory Data Sheets & Chain of Custody Documentation



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

Hall Environmental Analysis Laboratory

July 17, 2023

**Kyle Summers** 

**ENSOLUM** 

606 S. Rio Grande Suite A

Aztec, NM 87410

TEL: (903) 821-5603

FAX:

RE: Lateral 0 14 OrderNo.: 2307202

#### Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 5 sample(s) on 7/7/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 2307202

Date Reported: 7/17/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-1

**Project:** Lateral 0 14 **Collection Date:** 7/6/2023 12:00:00 PM

**Lab ID:** 2307202-001 **Matrix:** MEOH (SOIL) **Received Date:** 7/7/2023 6:10:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: JTT
Chloride	ND	60	mg/Kg	20	7/7/2023 12:21:41 PM	76052
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analys	t: PRD
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	7/7/2023 10:54:16 AM	76045
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	7/7/2023 10:54:16 AM	76045
Surr: DNOP	93.9	69-147	%Rec	1	7/7/2023 10:54:16 AM	76045
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: JJP
Gasoline Range Organics (GRO)	ND	4.1	mg/Kg	1	7/7/2023 1:55:09 PM	GS97991
Surr: BFB	98.9	15-244	%Rec	1	7/7/2023 1:55:09 PM	GS97991
EPA METHOD 8021B: VOLATILES					Analys	t: JJP
Benzene	ND	0.020	mg/Kg	1	7/7/2023 1:55:09 PM	R97991
Toluene	ND	0.041	mg/Kg	1	7/7/2023 1:55:09 PM	R97991
Ethylbenzene	ND	0.041	mg/Kg	1	7/7/2023 1:55:09 PM	R97991
Xylenes, Total	ND	0.082	mg/Kg	1	7/7/2023 1:55:09 PM	R97991
Surr: 4-Bromofluorobenzene	83.6	39.1-146	%Rec	1	7/7/2023 1:55:09 PM	R97991

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

Qualifiers:

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

Page 1 of 9

Lab Order 2307202

Date Reported: 7/17/2023

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-2

 Project:
 Lateral 0 14
 Collection Date: 7/6/2023 12:05:00 PM

 Lab ID:
 2307202-002
 Matrix: MEOH (SOIL)
 Received Date: 7/7/2023 6:10:00 AM

Result **RL Oual Units DF** Date Analyzed Batch Analyses **EPA METHOD 300.0: ANIONS** Analyst: JTT Chloride ND 60 mg/Kg 7/7/2023 12:34:02 PM 76052 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: PRD Diesel Range Organics (DRO) 9.9 mg/Kg 7/7/2023 11:04:54 AM 76045 Motor Oil Range Organics (MRO) ND mg/Kg 1 7/7/2023 11:04:54 AM 76045 49 Surr: DNOP 94.4 69-147 %Rec 1 7/7/2023 11:04:54 AM 76045 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 7/7/2023 2:19:03 PM GS97991 4.8 mg/Kg Surr: BFB 99.1 %Rec 7/7/2023 2:19:03 PM GS97991 15-244 **EPA METHOD 8021B: VOLATILES** Analyst: JJP ND 0.024 7/7/2023 2:19:03 PM R97991 Benzene mg/Kg Toluene ND 0.048 mg/Kg 7/7/2023 2:19:03 PM R97991 Ethylbenzene ND 0.048 mg/Kg 1 7/7/2023 2:19:03 PM R97991 Xylenes, Total ND 0.097 mg/Kg 7/7/2023 2:19:03 PM R97991 Surr: 4-Bromofluorobenzene 83.0 39.1-146 %Rec 7/7/2023 2:19:03 PM R97991

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

Qualifiers:

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

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Lab Order 2307202

Date Reported: 7/17/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-3

**Project:** Lateral 0 14 **Collection Date:** 7/6/2023 12:10:00 PM

**Lab ID:** 2307202-003 **Matrix:** MEOH (SOIL) **Received Date:** 7/7/2023 6:10:00 AM

Analyses	Result	RL Qı	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: JTT
Chloride	ND	60	mg/Kg	20	7/7/2023 1:11:06 PM	76052
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analys	t: PRD
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	7/7/2023 11:15:32 AM	76045
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	7/7/2023 11:15:32 AM	76045
Surr: DNOP	93.0	69-147	%Rec	1	7/7/2023 11:15:32 AM	76045
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: JJP
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	7/7/2023 2:42:59 PM	GS97991
Surr: BFB	102	15-244	%Rec	1	7/7/2023 2:42:59 PM	GS97991
EPA METHOD 8021B: VOLATILES					Analys	t: <b>JJP</b>
Benzene	ND	0.024	mg/Kg	1	7/7/2023 2:42:59 PM	R97991
Toluene	ND	0.048	mg/Kg	1	7/7/2023 2:42:59 PM	R97991
Ethylbenzene	ND	0.048	mg/Kg	1	7/7/2023 2:42:59 PM	R97991
Xylenes, Total	ND	0.096	mg/Kg	1	7/7/2023 2:42:59 PM	R97991
Surr: 4-Bromofluorobenzene	84.8	39.1-146	%Rec	1	7/7/2023 2:42:59 PM	R97991

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

Qualifiers:

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

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Lab Order 2307202

Date Reported: 7/17/2023

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT: ENSOLUM** Client Sample ID: S-4

**Project:** Lateral 0 14 Collection Date: 7/6/2023 12:15:00 PM Lab ID: 2307202-004 Matrix: MEOH (SOIL) **Received Date:** 7/7/2023 6:10:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: JTT
Chloride	ND	60	mg/Kg	20	7/7/2023 1:23:27 PM	76052
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analys	t: PRD
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	7/7/2023 11:26:12 AM	76045
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/7/2023 11:26:12 AM	76045
Surr: DNOP	97.4	69-147	%Rec	1	7/7/2023 11:26:12 AM	76045
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: JJP
Gasoline Range Organics (GRO)	ND	4.1	mg/Kg	1	7/7/2023 3:06:57 PM	GS97991
Surr: BFB	102	15-244	%Rec	1	7/7/2023 3:06:57 PM	GS97991
EPA METHOD 8021B: VOLATILES					Analys	t: <b>JJP</b>
Benzene	ND	0.021	mg/Kg	1	7/7/2023 3:06:57 PM	R97991
Toluene	ND	0.041	mg/Kg	1	7/7/2023 3:06:57 PM	R97991
Ethylbenzene	ND	0.041	mg/Kg	1	7/7/2023 3:06:57 PM	R97991
Xylenes, Total	ND	0.082	mg/Kg	1	7/7/2023 3:06:57 PM	R97991
Surr: 4-Bromofluorobenzene	84.1	39.1-146	%Rec	1	7/7/2023 3:06:57 PM	R97991

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

Qualifiers:

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

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Lab Order 2307202

Date Reported: 7/17/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-5

 Project:
 Lateral 0 14
 Collection Date: 7/6/2023 12:20:00 PM

 Lab ID:
 2307202-005
 Matrix: MEOH (SOIL)
 Received Date: 7/7/2023 6:10:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: JTT
Chloride	ND	60	mg/Kg	20	7/7/2023 1:35:46 PM	76052
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analys	t: PRD
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	7/7/2023 11:36:53 AM	76045
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	7/7/2023 11:36:53 AM	76045
Surr: DNOP	94.7	69-147	%Rec	1	7/7/2023 11:36:53 AM	76045
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: JJP
Gasoline Range Organics (GRO)	ND	3.9	mg/Kg	1	7/7/2023 3:30:52 PM	GS97991
Surr: BFB	98.9	15-244	%Rec	1	7/7/2023 3:30:52 PM	GS97991
EPA METHOD 8021B: VOLATILES					Analys	t: JJP
Benzene	ND	0.020	mg/Kg	1	7/7/2023 3:30:52 PM	R97991
Toluene	ND	0.039	mg/Kg	1	7/7/2023 3:30:52 PM	R97991
Ethylbenzene	ND	0.039	mg/Kg	1	7/7/2023 3:30:52 PM	R97991
Xylenes, Total	ND	0.079	mg/Kg	1	7/7/2023 3:30:52 PM	R97991
Surr: 4-Bromofluorobenzene	82.3	39.1-146	%Rec	1	7/7/2023 3:30:52 PM	R97991

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

Qualifiers:

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

ple pH Not In Range
orting Limit Page 5 of 9

### Hall Environmental Analysis Laboratory, Inc.

2307202

WO#:

17-Jul-23

Client: ENSOLUM
Project: Lateral 0 14

Sample ID: MB-76052 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 76052 RunNo: 98004

Prep Date: 7/7/2023 Analysis Date: 7/7/2023 SeqNo: 3566373 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-76052 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 76052 RunNo: 98004

Prep Date: 7/7/2023 Analysis Date: 7/7/2023 SeqNo: 3566374 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 91.3 90 110

#### Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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## Hall Environmental Analysis Laboratory, Inc.

2307202 17-Jul-23

WO#:

Client: ENSOLUM
Project: Lateral 0 14

Sample ID: 2307202-	005AMS Samp	SampType: MS TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: S-5	Bat	ch ID: 760	045	F	RunNo: 97	7999				
Prep Date: 7/7/2023	3 Analysis	Date: <b>7/</b>	7/2023	5	SeqNo: 3	565779	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DF	RO) 48	9.8	49.21	0	96.7	54.2	135			
Surr: DNOP	4.6		4.921		94.5	69	147			
Sample ID: 2307202-	ole ID: 2307202-005AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics									
Client ID: S-5	Bat	ch ID: 760	045	F	RunNo: 97	7999				
Prep Date: 7/7/2023	3 Analysis	Date: <b>7/</b>	7/2023	5	SeqNo: 3	565781	Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Discal Dance Organist /DI										
Diesel Range Organics (DF	RO) 49	10	50.00	0	97.3	54.2	135	2.22	29.2	
Surr: DNOP	RO) 49 4.8	10	50.00 5.000	0	97.3 95.6	54.2 69	135 147	2.22	29.2	
	4.8	10 оТуре: <b>LC</b>	5.000		95.6	69		0	0	
Surr: DNOP	4.8 45 Samp		5.000	Tes	95.6	69 PA Method	147	0	0	
Surr: DNOP Sample ID: LCS-760	4.8 45 Samp Bat	оТуре: LC	5.000 S 045	Tes	95.6 tCode: <b>EF</b>	69 PA Method 7999	147	0 esel Range	0	
Surr: DNOP  Sample ID: LCS-760  Client ID: LCSS	4.8 45 Samp Bat	oType: LC	5.000 S 045	Tes	95.6 etCode: <b>EF</b> RunNo: <b>9</b> 7	69 PA Method 7999	147 8015M/D: Die	0 esel Range	0	Qual
Surr: DNOP  Sample ID: LCS-760  Client ID: LCSS  Prep Date: 7/7/2023	4.8 45 Samp Bat 3 Analysis Result	oType: LC	5.000 S 045 7/2023	Tes F	95.6 stCode: EF RunNo: 97 SeqNo: 38	69 PA Method 7999 665785	147 8015M/D: Die Units: mg/K	0 esel Range	0 Organics	Qual

Sample ID: MB-76045	SampT	уре: МВ	BLK	Tes	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 76045			F	RunNo: 97	7999					
Prep Date: <b>7/7/2023</b>	Analysis D	ate: <b>7/</b> 7	7/2023	5	SeqNo: 3	565788	9				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	ND	10									
Motor Oil Range Organics (MRO)	ND	50									
Surr: DNOP	9.3		10.00		92.8	69	147				

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 7 of 9

## Hall Environmental Analysis Laboratory, Inc.

2307202

WO#:

17-Jul-23

**Client: ENSOLUM Project:** Lateral 0 14

Sample ID: 2.5ug gro lcs	Samp	ype: <b>LC</b>	S	Tes	TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batcl	n ID: GS	97991	F	7991						
Prep Date:	Analysis [	Date: <b>7/</b> 7	7/2023	SeqNo: <b>3565532</b>			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	97.4	70	130				
Surr: BFB	2000		1000		200	15	244				

Sample ID: mb	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: GS97991		RunNo: 97991							
Prep Date:	Analysis D	ate: <b>7/</b>	7/2023	8	SeqNo: 3	565826	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	950		1000		95.2	15	244			

#### Qualifiers:

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

Page 8 of 9

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2307202** 

17-Jul-23

Client: ENSOLUM
Project: Lateral 0 14

Sample ID: mb	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: R97991		RunNo: 97991							
Prep Date:	Analysis Date: 7/7/2023		SeqNo: <b>3565827</b>			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	0.79		1.000		79.3	39.1	146			

Sample ID: 2307202-001ams SampType: MS			TestCode: EPA Method 8021B: Volatiles							
Client ID: S-1	Batch ID: R97991			RunNo: 97991						
Prep Date:	Analysis Date: 7/7/2023			SeqNo: <b>3566275</b>			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.64	0.020	0.8197	0	78.6	70	130			
Toluene	0.65	0.041	0.8197	0	79.1	70	130			
Ethylbenzene	0.66	0.041	0.8197	0	80.3	70	130			
Xylenes, Total	2.0	0.082	2.459	0	80.4	70	130			
Surr: 4-Bromofluorobenzene	0.68		0.8197		83.4	39.1	146			

Sample ID: 2307202-001ams	d Samp	Type: MS	SD	Tes	TestCode: EPA Method 8021B: Volatiles					
Client ID: S-1	Bato	Batch ID: <b>R97991</b>			RunNo: 97991					
Prep Date:	Analysis I	Analysis Date: 7/7/2023			SeqNo: <b>3566276</b>			Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.62	0.020	0.8197	0	75.8	70	130	3.73	20	
Toluene	0.62	0.041	0.8197	0	75.8	70	130	4.36	20	
Ethylbenzene	0.63	0.041	0.8197	0	77.0	70	130	4.18	20	
Xylenes, Total	1.9	0.082	2.459	0	77.4	70	130	3.80	20	
Surr: 4-Bromofluorobenzene	0.68		0.8197		82.9	39.1	146	0	0	

Sample ID: 100NG BTEX LCS	Samp	SampType: LCS			TestCode: EPA Method 8021B: Volatiles					
Client ID: LCSS	Batch ID: <b>R97991</b>			RunNo: <b>97991</b>						
Prep Date:	Analysis Date: 7/7/2023			SeqNo: <b>3569272</b>			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.82	0.025	1.000	0	82.3	70	130			
Toluene	0.82	0.050	1.000	0	82.4	70	130			
Ethylbenzene	0.83	0.050	1.000	0	83.1	70	130			
Xylenes, Total	2.5	0.10	3.000	0	82.2	70	130			
Surr: 4-Bromofluorobenzene	0.86		1.000		85.9	39.1	146			

#### Qualifiers:

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- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
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- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque. NM 87109

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

# Sample Log-In Check List

Released to Imaging: 2/2/2024 3:16:11 PM

Client Name: ENSOLUM Work O	order Number: 2307202		RcptNo	1
Received By: Tracy Casarrubias 7/7/2023	6:10:00 AM			
Completed By: Tracy Casarrubias 7/7/2023	7:00:56 AM			
Reviewed By: 7/7/23				
Chain of Custody				
1. Is Chain of Custody complete?	Yes 🗌	No 🗹	Not Present	
2. How was the sample delivered?	<u>Courier</u>			
<u>Log In</u>				
3. Was an attempt made to cool the samples?	Yes 🗹	No 🗌	NA 🗌	
4. Were all samples received at a temperature of >0° C to	6.0°C Yes ✓	No 🗌	na 🗆	
5. Sample(s) in proper container(s)?	Yes 🗸	No 🗌		
6. Sufficient sample volume for indicated test(s)?	Yes 🗹	No 🗌		
7. Are samples (except VOA and ONG) properly preserved	? Yes ✓	No 🗌		
8. Was preservative added to bottles?	Yes 🗌	No 🗹	NA 🗌	
9. Received at least 1 vial with headspace <1/4" for AQ VC	A? Yes 🗌	No 🗌	NA 🗹	
10. Were any sample containers received broken?	Yes	No 🔽	# of preserved	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes 🗹	No 🗌	bottles checked for pH: (<2 o	r >12 unless noted)
12. Are matrices correctly identified on Chain of Custody?	Yes 🗹	No 🗌	Adjusted?	
13. Is it clear what analyses were requested?	Yes 🗹	No 🗌		4 11/07
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes 🗹	No 🗌	Checked by:	7414165
Special Handling (if applicable)				
15. Was client notified of all discrepancies with this order?	Yes 🗌	No 🗆	NA 🗹	
Person Notified:	Date:			
By Whom:	Via: eMail P	hone 🗌 Fax	☐ In Person	
Regarding:				
Client Instructions: Phone number and Email/Fa	x are missing on COC - TMC	7/7		
16. Additional remarks:				
17. Cooler Information  Cooler No Temp °C Condition Seal Intact	Seal No Seal Date	Signed By		

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RO / 2 PCI 70SIM	& Sommers	☐ Standard ☐ Level 4 (Full Validation)
MRi B's		OA/OC Package:
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Analysis Request	05A1321350	Phone #:
Tel. 505-345-3975 Fax 505-345-4107	Project #:	21/28 # 7:3
4901 Hawkins NE - Albuquerque, NM 87109	Lateral 0-14	Mailing Address: Lot Ship Jack
www.hallenvironmental.com	Project Name:	
ANALYSIS LABORATORY	□ Standard & Rush 7-7-33	Client: Ensolun llc
HALL ENVIRONMENTAL	Turn-Around Time:	Chain-of-Custody Record

District III

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

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

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

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

CONDITIONS

Action 282905

#### **CONDITIONS**

Operator:	OGRID:
Enterprise Field Services, LLC	241602
PO Box 4324	Action Number:
Houston, TX 77210	282905
	Action Type:
	[C-141] Release Corrective Action (C-141)

#### CONDITIONS

Created By		Condition Date
nvelez	None	2/2/2024