



209 W. McKay Street
Carlsbad, New Mexico 88220
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November 14, 2024

Mike Bratcher
District Supervisor
Oil Conservation Division, District 2
811 S. First Street
Artesia, New Mexico 88210

**Re: Deferral Request
 Rigel 20 Fed 3H Battery
 Devon Energy Production Company
 Unit L, Section 20, Township 19S, Range 31E
 Site Coordinates: 32.64329948, -103.898984
 Eddy County, New Mexico
 Incident ID: nAPP2416525018**

Introduction

On behalf of Devon Energy Production Company (Devon), New Tech Global Environmental, LLC (NTGE) has prepared this Site Characterization and Remediation Deferral Request for submittal to the New Mexico Oil Conservation Division (NMCOD) District 2 Office in Artesia, New Mexico to document site assessment, proposed remedial action activities, and sample analysis results for the Rigel 20 Fed 3H Battery (Site). The Site is located in Unit Letter L, Section 20, of Township 19 South and Range 31 East in Eddy County, New Mexico. The GPS coordinates for the release site are 32.64329948° N latitude and 103.898984° W longitude. The site location with respect to the nearest town is shown on Figure 1 and the topography of the area is shown on Figure 2.

Background

Based on the Release Notification C-141 form, the release was discovered on June 12, 2024, and was due to equipment failure. Upon discovery, the Site was shut-in, and repairs ensued. The spill resulted in the release of approximately fourteen (14) barrels (bbls) of crude oil of which two (2) were recovered for a net loss of twelve (12) bbls of crude oil. The release area is shown on Figure 3.

Site Characterization

Based on a review of the New Mexico Office of State Engineers and USGS databases, there are two known water sources within a ½-mile radius of the Site. The nearest identified well (CP-01943-POD1) is located approximately 0.38 miles north of the Site in Sec 20 T19S R31E. The well was drilled in 2023 to the reported depth of 55 feet (ft) below ground surface (bgs) with no groundwater encountered. No other receptors (playas, wetlands, waterways, lakebeds, or ordinance boundaries) are located within each specific boundary or distance from the Site. According to the Karst Potential Map, the site is located within a Medium Karst area. The Site characterization documentation (Points

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of Diversion, Karst Potential, Significant Watercourse Map, Wetlands Map, and FEMA Map) are attached to the end of this report.

Regulatory Criteria

NTGE characterized the Site according to Table I, Closure Criteria for Soils Impacted by a Release, from the New Mexico Administrative Code (NMCA) Title 19, Chapter 15, Part 29, Section 12 (NMAC 19.15.29.12).

General Site Characterization and Groundwater:

Site Characterization	Average Groundwater Depth (ft)
Medium Karst	>55

Table 3.1 Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29.12 & 19.15.29.13)

Regulatory Standard	Chloride	TPH (GRO+DRO+MRO)	TPH (GRO+MRO)	BTEX	Benzene
19.15.29.12 NMAC Table I Closure Criteria for Soils Impacted by a Release	10,000 mg/kg	2,500 mg/kg	1,000 mg/kg	50 mg/kg	10 mg/kg
19.15.29.13 Restoration, Reclamation and Re- vegetation (Impacted Area 0-4 Feet)	600 mg/kg	100 mg/kg	---	50 mg/kg	10 mg/kg
Notes: --- = not defined					

Site Assessment

On June 18, 2024, NTGE conducted site assessment activities to assess the extent of impacts at the Site. Two (2) vertical delineation sample points (V-1 through V-2) were installed within the release area, while six (6) horizontal delineation sample points (H-1 through H-6) were installed adjacent to the release area in order to characterize the impacts. Soil samples were collected at half foot (0.5) to one (1) ft intervals from depths ranging from zero (0) to four and a half (4.5) ft bgs with a geotechnical hand auger. The hand auger was decontaminated with Alconox and deionized water between soil samples to prevent cross-contamination.

Soil samples were placed directly into laboratory provided sample containers, placed on ice, and transported under proper chain-of-custody protocol to Cardinal Laboratories in Hobbs, New Mexico for analysis of benzene, toluene, ethylbenzene, and xylene (BTEX) (EPA Method 8021B), total petroleum hydrocarbons (TPH) (EPA method 8015 modified), and chloride (Method SM4500Cl-B). The analytical results indicated that TPH and/or BTEX concentrations exceeded the NMOCD regulatory limits in the area of V-1 to a depth of two and a half (2.5) ft bgs, and the area of V-2 to a depth of three and a half (3.5) ft bgs. All other samples were below NMOCD regulatory limits.

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Analytical results are included in Table 1, while soil boring locations are shown in Figure 3. The Laboratory reports containing analytical methods and chain-of-custody documents are attached to the report.

Remedial Action Activities and Confirmation Sampling

Based on the analytical results, Devon proceeded with the remedial actions at the Site to include the excavation and disposal of impacted soils above the regulatory limits. The release area was excavated to a depth of three (3) ft bgs in the areas of V-1, and to a depth of four (4) ft bgs in the area of V-2 to ensure that the impacted soil has been removed.

On September 25, 2024, a total of four (4) composite confirmation samples were collected from the excavation base (i.e., CS-1 through CS-4) and seven (7) sidewall composite confirmation samples were collected (i.e., SW-1 through SW-7) to ensure impacted soil was removed. Analytical results indicated that seven (7) side wall samples (i.e., SW-1 through SW-7) were above NMOCD regulatory criterion for BTEX, TPH and/or chloride concentrations.

As a result, Devon proceeded with the further excavation of impacted areas. On October 10, 2024, NTGE collected a total of five (5) additional confirmation samples from the excavation sidewalls (i.e., SW-3, SW-4, SW-5, SW-6, and SW-7) to ensure impacted soil was removed. Analytical results indicated all samples were below NMOCD regulatory criterion for the Site, excluding SW-1 and SW-2 which were unable to be excavated further due to facility infrastructure. The final excavation extent and confirmation sample locations are shown on Figure 4. Analytical results of the confirmation samples are included in Table 2.

Soil samples were placed directly into laboratory provided sample containers, placed on ice, and transported under proper chain-of-custody protocol to the lab. The confirmation samples collected represent an area no greater than 200 square feet and were analyzed for BTEX (EPA Method 8021B), TPH (EPA method 8015 modified), and chloride (method SM4500Cl-B). Laboratory reports containing analytical methods and chain-of-custody documents are attached.

Deferral Sampling

On October 10, 2024, NTGE installed one (1) vertical deferral sample point (i.e., DS-1) at depths ranging from one (1) to eleven (11) ft bgs with a geotechnical hand auger to characterize the impacts that couldn't be excavated due to facility infrastructure. Analytical results indicated benzene, BTEX, and/or TPH concentrations were over Table I Closure Criteria to a depth of ten (10) ft bgs. At eleven ft bgs concentrations for benzene, BTEX, TPH, and chloride were below Table I Closure Criteria. Laboratory reports containing analytical methods and chain-of-custody documents are attached. Laboratory results are presented in Table 2 and their locations are shown in Figure 5.

Deferral Request

Devon personnel have expressed that the excavation areas of SW-1, SW-2, and DS-1 cannot be expanded horizontally or vertically due to the presence of facility infrastructure (i.e., flowlines) around the excavation and the associated safety concerns in further encroaching the infrastructure. The infrastructure in and around the excavation is shown on Figure 5.

On behalf of Devon, NTG Environmental formally requests a deferral to address the remaining soil impacts at the time of facility decommissioning or in the event infrastructure modifications are made in

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the area that would alleviate the safety concerns, whichever is sooner. Should the deferral request be granted, a remedial action report documenting excavation expansion and confirmation sampling activities will be prepared and filed following completion of the remediation actions to be completed at a future date.

If you have any questions regarding this report or need additional information, please contact us at 432-701-2159.

Sincerely,
NTG Environmental



Ethan Sessums
Project Manager

Attachments:

- Figures
- Tables
- Site Characterization Information
- Photographic Log
- Laboratory Reports and Chain-of-Custody

SITE CHARACTERIZATION INFORMATION

TABLES

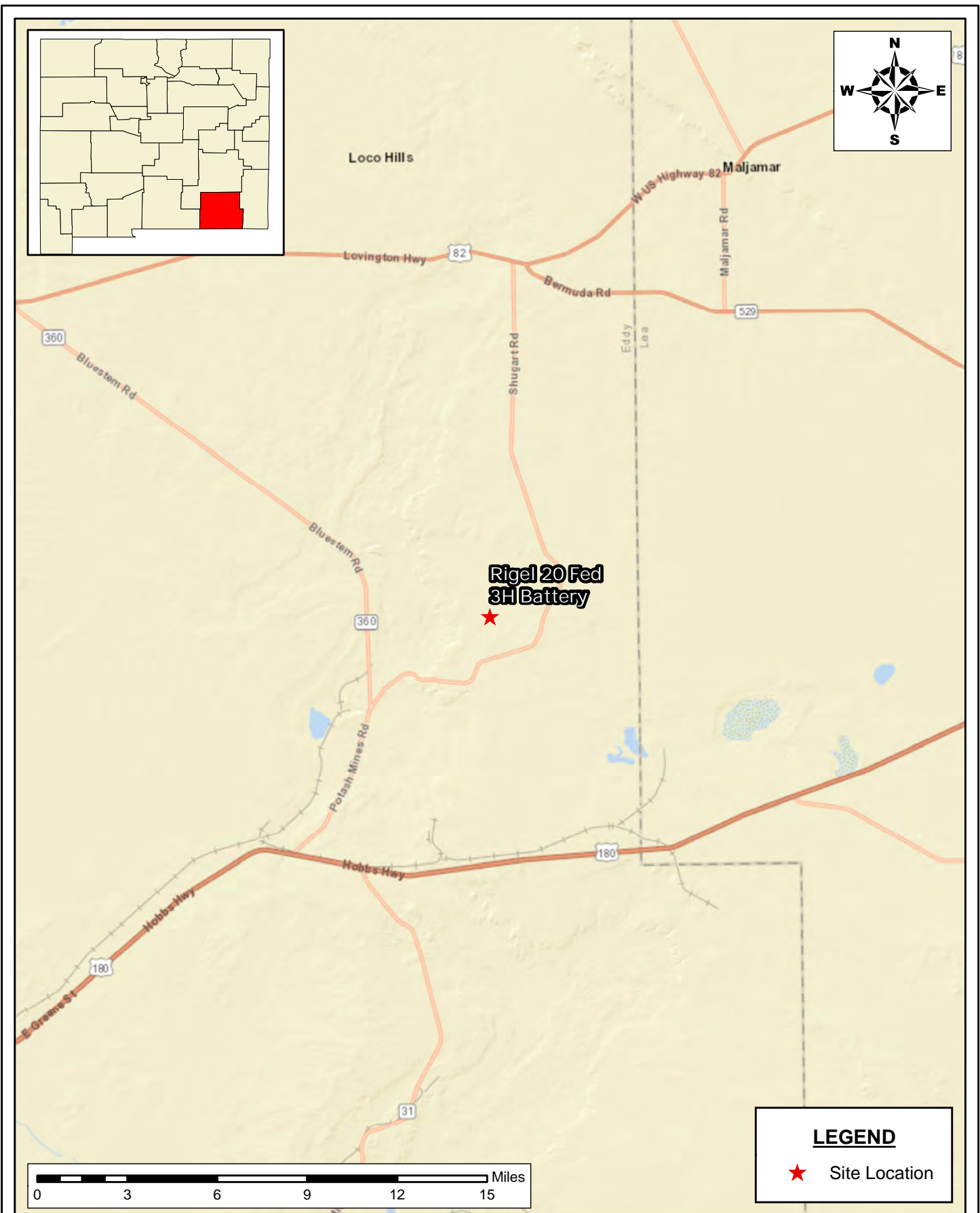
FIGURES

PHOTOGRAPHIC LOG

LABORATORY REPORTS AND CHAIN-OF-CUSTODY DOCUMENTS

FIGURES

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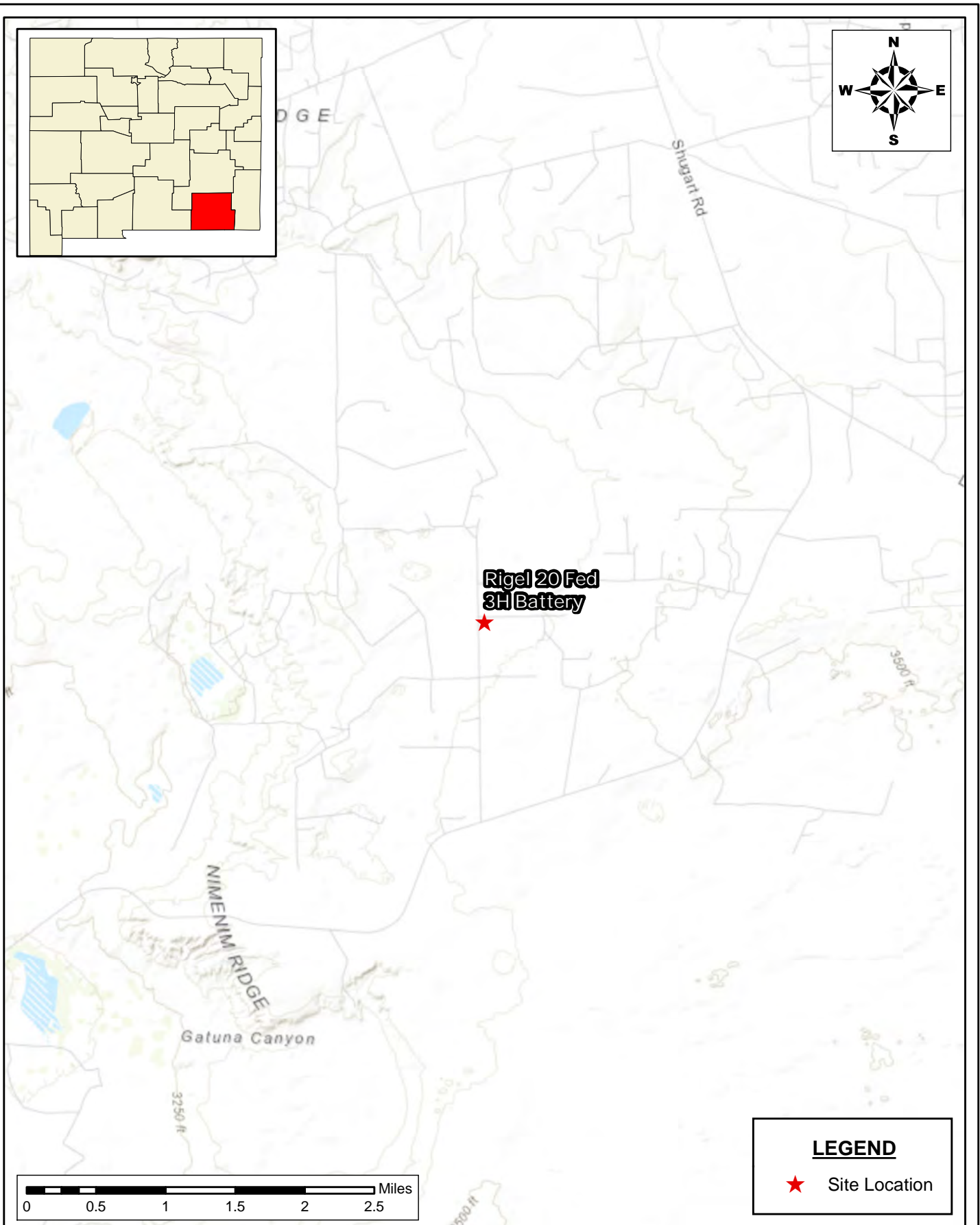
SITE LOCATION MAP SITE CHARACTERIZATION AND REMEDIATION DEFERAL REQUEST DEVON ENERGY PRODUCTION CORPORATION RIGEL 20 FED 3 EDDY COUNTY, NEW MEXICO		
SCALE: As Shown	Date: 6/25/2024	PROJECT #: 248823

 New Tech Global Environmental, LLC 911 Regional Park Drive Houston, Texas 77060 T - 281.872.9300 F - 281.872.4521 Web: www.ntgenviroinmental.com
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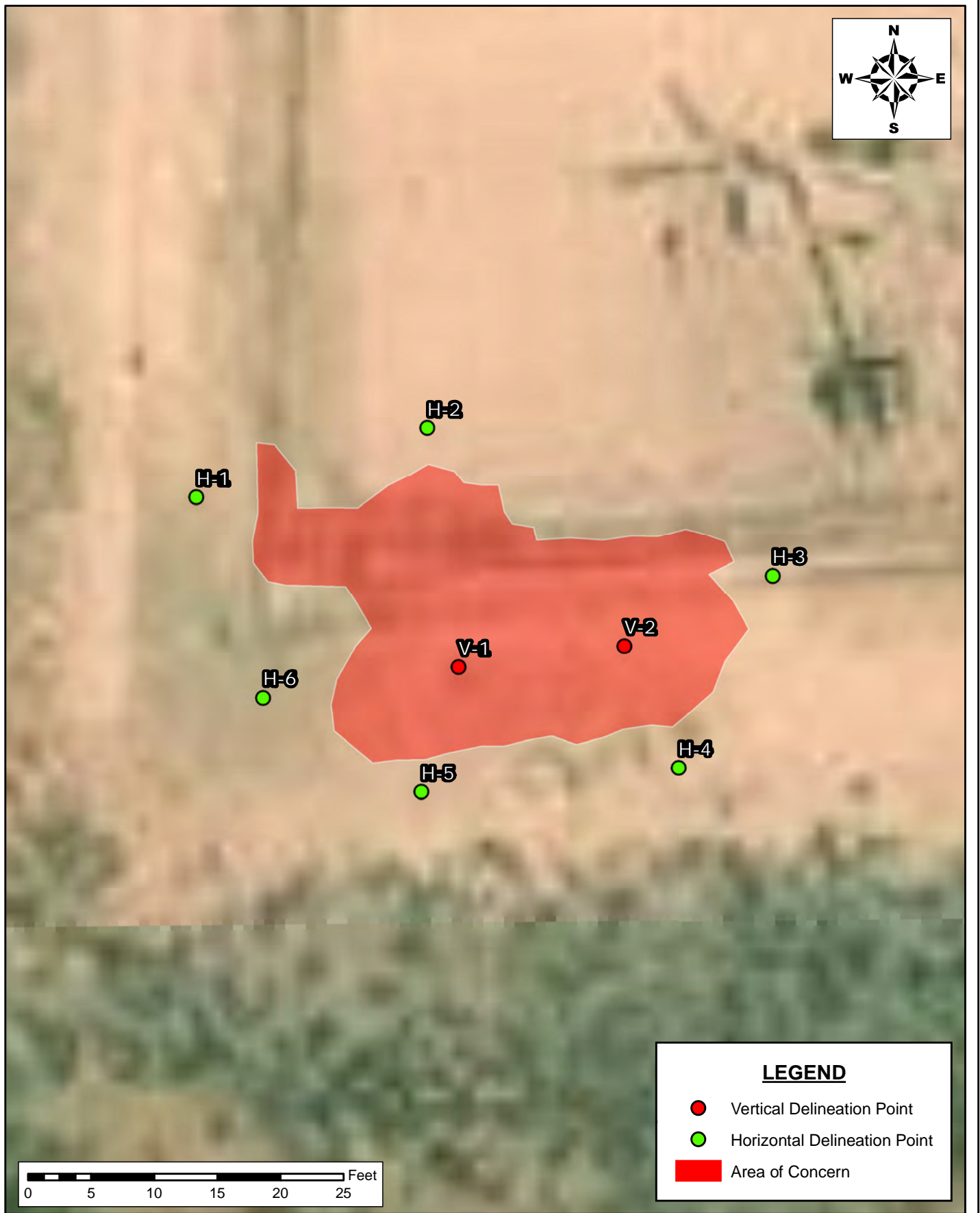
NOTES: 1. Base Image: ESRI Maps & Data 2013 2. Map Projection: NAD 1983
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DRAWING NUMBER: FIGURE 1 SHEET NUMBER: 1 of 1
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**DELINEATION SAMPLING MAP
SITE CHARACTERIZATION AND
REMEDIAL DEFERRAL REQUEST**
DEVON ENERGY PRODUCTION COMPANY
RIGEL 20 FED 3
EDDY COUNTY, NEW MEXICO

SCALE: As Shown

Date: 6/25/2024

PROJECT #: 248823



New Tech Global Environmental, LLC
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NOTES:

1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983

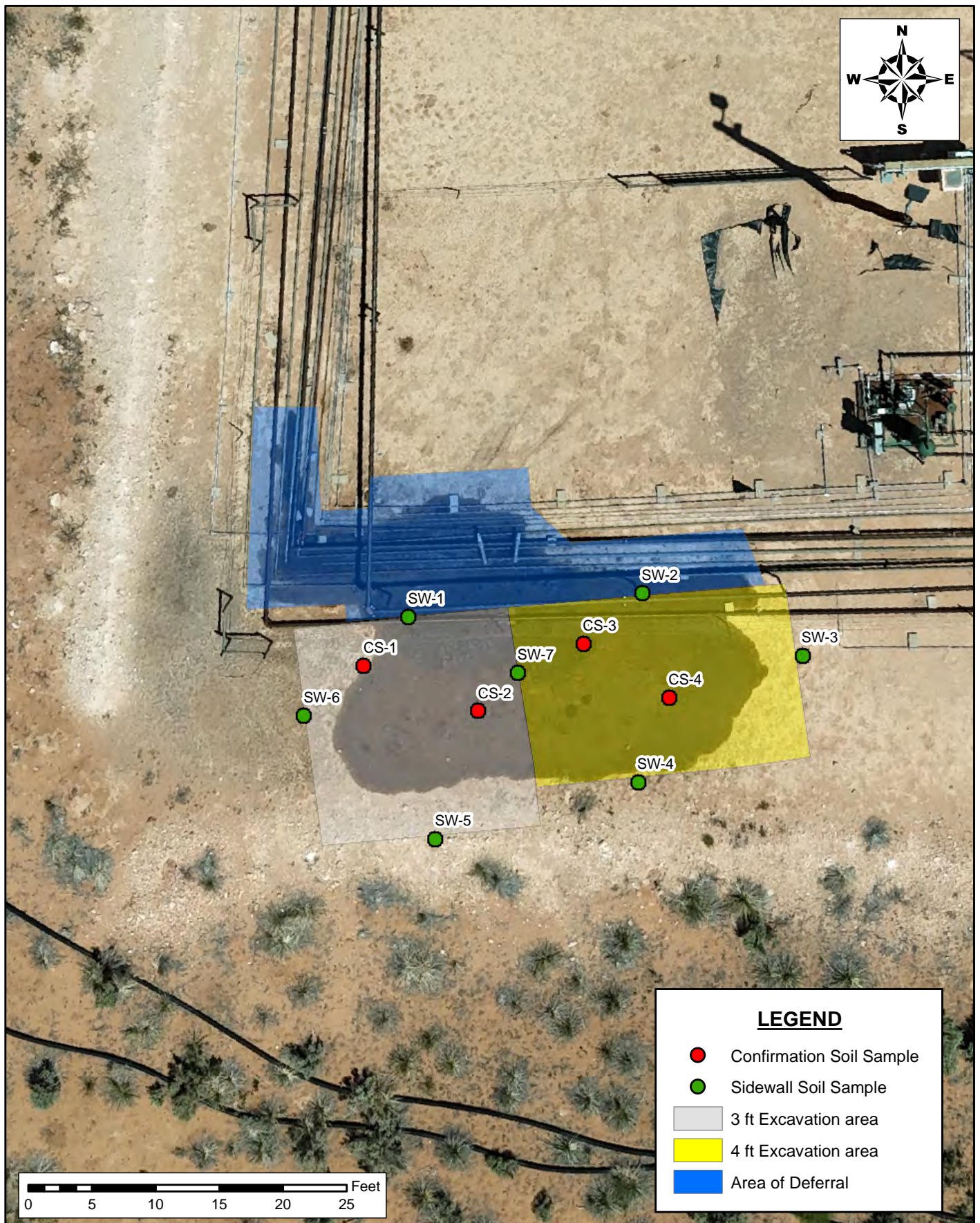
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FIGURE 3

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1 of 1

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CONFIRMATION SAMPLING MAP
SITE CHARACTERIZATION AND DEFERRAL REQUEST
DEVON ENERGY PRODUCTION COMPANY
RIGEL 20 FED 3
EDDY COUNTY, NEW MEXICO

SCALE: As Shown Date: 11/14/2024 PROJECT #: 248823



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NOTES:

1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983

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FIGURE 4

SHEET NUMBER:

1 of 1

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LEGEND

- Horizontal Soil Sample
- Vertical Soil Sample
- 3 ft Excavation area
- 4 ft Excavation area
- Area of Deferral

0 5 10 15 20 25 Feet

DEFERRAL MAP
SITE CHARACTERIZATION AND DEFERRAL REQUEST
DEVON ENERGY PRODUCTION COMPANY
RIGEL 20 FED 3
EDDY COUNTY, NEW MEXICO

SCALE: As Shown

Date: 11/14/2024

PROJECT #: 248823



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NOTES:

1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983

DRAWING NUMBER:

FIGURE 5

SHEET NUMBER:

1 of 1

TABLES

Table 1
Summary of Soil Analytical Data - Delineation Samples
Rigel 20 Fed 3
Devon Energy Production Company
Eddy County, New Mexico

Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH					Chloride
								GRO (C6-C10)	DRO (C10-C28)	GRO + DRO (C6-C28)	MRO (C28-C35)	Total GRO/DRO/MRO (C6-C35)	
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
			Table I Closure Criteria for Soil 51-100 feet Depth to Groundwater 19.15.29 NMAC										
			10 mg/kg	---	---	---	50 mg/kg	---	---	---	---	2,500 mg/kg	10,000 mg/kg
Vertical Delineation Samples													
V-1	6/18/2024	0-6"	0.591	18.8	23.9	54.2	97.5	1,140	16,700	17,840	3,730	21,570	256
	6/18/2024	1-1.5'	0.232	8.16	12.4	25.6	46.5	270	1,310	1,580	253	1,833	64
	6/18/2024	2-2.5'	<0.050	0.825	1.11	3.47	5.41	43.8	250	293.8	32.9	326.7	16.0
	6/18/2024	3-3.5'	<0.050	0.105	0.269	1.40	1.77	10.7	85.3	96.0	<10.0	96.0	80.0
	6/18/2024	4-4.5'	<0.050	0.064	0.156	0.488	0.708	10.1	66.1	76.2	<10.0	76.2	224
V-2	6/18/2024	0-6"	1.60	9.95	12.3	33	56.9	1,090	21,900	22,990	4,900	27,890	64.0
	6/18/2024	1-1.5'	0.506	3.86	4.19	9.47	18.0	119	1,920	2,039	408	2,447	<16.0
	6/18/2024	2-2.5'	<0.050	0.101	0.104	0.295	0.500	<10.0	60.9	60.9	<10.0	60.9	16.0
	6/18/2024	3-3.5'	<0.050	0.375	0.518	1.56	2.46	23.4	468	491.4	84.3	575.7	96.0
	6/18/2024	4-4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	11.1	11.1	<10.0	11.1	592
Horizontal Delineation Samples													
H-1	6/18/2024	0-6"	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
H-2	6/18/2024	0-6"	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	15.7	15.7	<10.0	15.7	16.0
H-3	6/18/2024	0-6"	<0.050	0.074	0.086	0.152	3.12	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
H-4	6/18/2024	0-6"	<0.050	0.197	0.218	0.400	0.815	<10.0	13.8	13.8	<10.0	13.8	48.0
H-5	6/18/2024	0-6"	0.057	0.324	0.177	0.250	0.808	<10.0	14.9	14.9	<10.0	14.9	80.0
H-6	6/18/2024	0-6"	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0

Notes:

1. Values reported in mg/kg

2. < = Value Less Than Reporting Limit (RL)

4. BTEX analyses by EPA Method SW 8021B

SP-±

Sample Point Excavated

5. TPH analyses by EPA Method SW 8015 Mod.

6. GRO/DRO/MRO - Gasoline/Diesel/Motor Oil

7. Yellow shaded cells indicate analytical samples that exceed the NMAC 19.15.29.12 Table I Closure Criteria for the site.

8. Peach shaded cells indicate analytical samples that exceed the NMAC 19.15.29.13 Table I Closure Criteria for the site (4 Feet and Greater).

9. --- Not Analyzed

Table 2
Summary of Soil Analytical Data - Confirmation Samples
Rigel 20 Fed 3
Devon Energy Production Company
Eddy County, New Mexico

Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH					Chloride
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	GRO (C6-C10)	DRO (C10-C28)	GRO + DRO (C6-C28)	MRO (C28-C35)	Total GRO/DRO/MRO (C6-C35)	
			Table I Closure Criteria for Soil 51-100 feet Depth to Groundwater 19.15.29 NMAC										
			10 mg/kg	---	---	---	50 mg/kg	---	---	1,000 mg/kg	---	2,500 mg/kg	10,000 mg/kg
Base Confirmation Samples													
CS-1	9/25/2024	3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	23.5	23.5	<10.0	23.5	64.0
CS-2	9/25/2024	3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	18.8	18.8	<10.0	18.8	80.0
CS-3	9/25/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	33.6	33.6	<10.0	33.6	64.0
CS-4	9/25/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	14.5	14.5	<10.0	14.5	224
Sidewall Samples													
SW-1	9/25/2024	0-3	0.056	0.660	1.08	2.01	3.80	49	1,990	2,039	429	2,468	112
SW-2	9/25/2024	0-4	0.718	12.7	16.1	34.6	64.0	263	13,700	13,963	3,090	17,053	32.0
SW-3	9/25/2024	0-4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	619	619	137	756	32.0
	10/10/2024	0-4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SW-4	9/25/2024	0-4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	200	200	54.5	255	32.0
	10/10/2024	0-4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SW-5	9/25/2024	0-3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	1,660	1,660	531	2,191	64.0
	10/10/2024	0-3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SW-6	9/25/2024	0-3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,150
	10/10/2024	0-3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW-7	9/25/2024	3-4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	281	281	77.6	359	144
	10/10/2024	3-4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
Deferral Samples													
DS-1	10/10/2024	1	<1.00	19.0	26.7	73.1	119	2,060	32,700	34,760	6,040	40,800	64.0
	10/10/2024	2	62.5	329	162	336	889	7,680	19,500	27,180	3,240	30,420	48.0
	10/10/2024	3	14.2	56.5	25.5	48.8	145	813	1,660	2,473	254	2,727	32.0
	10/10/2024	4	18.7	117	59.8	113	308	3,600	9,470	13,070	1,620	14,690	32.0
	10/10/2024	5	40.7	215	96.2	183	535	5,730	12,220	17,950	2,020	19,970	32.0
	10/10/2024	6	54.8	259	114	202	630	6,410	12,600	19,010	1,910	20,920	16.0
	10/10/2024	7	46.6	233	106	188	573	6,920	13,200	20,120	2,180	22,300	16.0
	10/10/2024	8	41.4	217	100	180	538	5,490	10,400	15,890	1,550	17,440	16.0
	10/10/2024	9	37.8	211	101	182	533	5,750	11,400	17,150	1,710	18,860	<16.0
	10/10/2024	10	4.57	29.2	9.09	13.8	56.7	161	72.6	233.6	<10.0	233.6	64.0
	10/10/2024	11	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0

Notes:

1. Values reported in mg/kg
 2. < = Value Less Than Reporting Limit (RL)

5. TPH analyses by EPA Method SW 8015 Mod.
 6. GRO/DRO/MRO - Gasoline/Diesel/Motor Oil

4. BTEX analyses by EPA Method SW 8021B
 SP-1 Sample Point Excavated

7. Yellow shaded cells indicate analytical samples that exceed the NMAC 19.15.29.12 Table I Closure Criteria for the site.
 8. Peach shaded cells indicate analytical samples that exceed the NMAC 19.15.29.13 Table I Closure Criteria for the site (4 Feet or Greater).
 9. --- Not Analyzed

SITE CHARACTERIZATION INFORMATION

NMOCD Closure Criteria

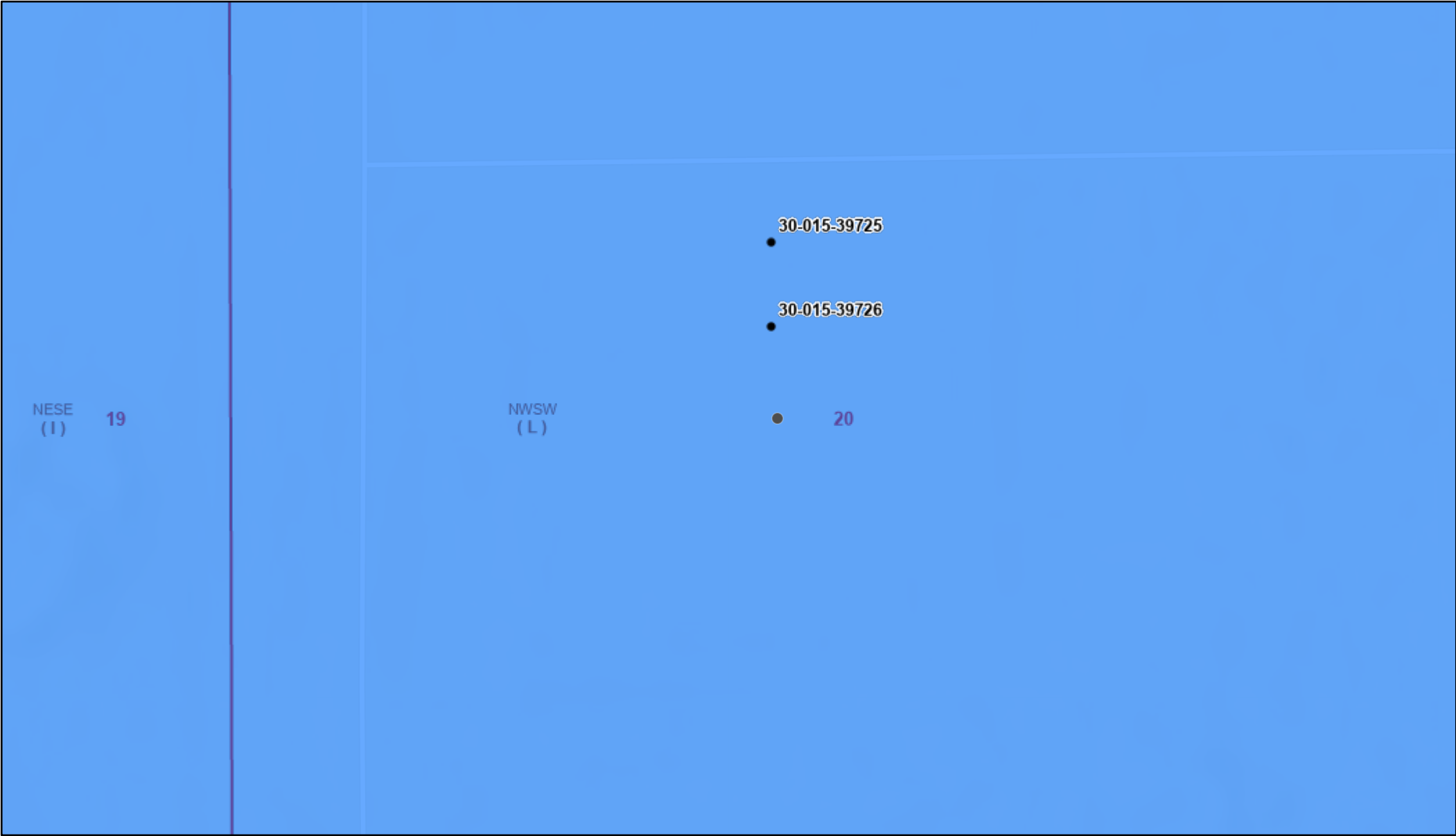
Rigel 20 Fed 3H Battery

Site Information (19.15.29.11.A (2,3, & 4) NMAC)		Source/Notes
Depth to Groundwater (ft bgs)	>55	Office of the State Engineer (OSE)
Horizontal Distance from All Water Sources Within 0.5 mile (ft)	N/A	National Wetlands Inventory (NWS)
Horizontal Distance to Nearest Significant Watercourse (ft)	N/A	National Wetlands Inventory (NWS)

Closure Criteria (19.15.29.12.B(4) and Table 1 NMAC)						
Depth to Groundwater (ft)		Closure Criteria (mg/kg)				
		Chloride*	TPH	GRO + DRO	BTEX	Benzene
< 50		600	100	--	50	10
51 - 100	x	10,000	2,500	1,000	50	10
>100		20,000	2,500	1,000	50	10
Surface Water	Yes/No	in yes, then				
<300 ft from a continuously flowing watercourse or other significant watercourse?	No	600	100	1,000	50	10
<200 ft from a lakebed, sinkhole, or playa lake?	No					
Water Well or Water Source						
<500 ft from a spring or a private, domestic fresh waster well used by less that 5 households for domestic or livestock purposes?	No					
<1,000 ft from a fresh water well or spring?	No					
Human and Other Area						
<300 ft from an occupied permanent residence, school, hospital, institution or church?	No					
Within incorporated municipal boundaries or within a defined municipal fresh water well field?	No					
<100 ft from a wetland?	No					
Within an area overlying a subsurface mine?	No					
Within and unstable area?	No					
Within a 100 yr floodplain?	No					

* - numerical limit or background, whichever is greater

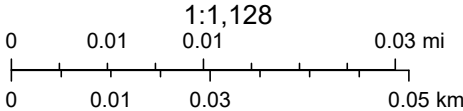
Karst Potential Map



6/13/2024, 10:43:44 AM

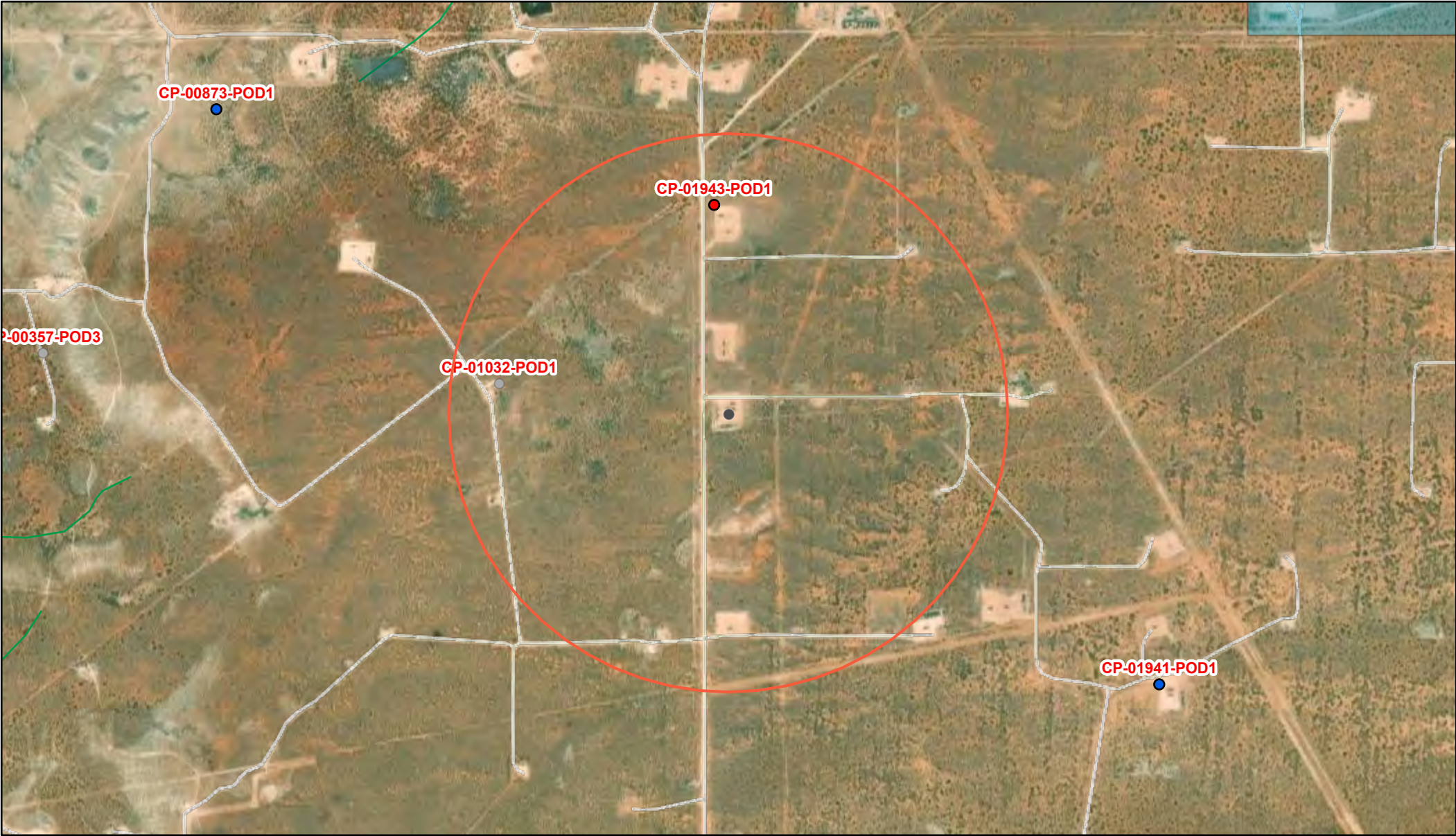
Wells - Large Scale Karst Occurrence Potential

- Oil, Active
- Medium
- PLSS Second Division
- PLSS First Division



BLM, OCD, New Mexico Tech, Oil Conservation Division of the New Mexico Energy, Minerals and Natural Resources Department., Sources: Esri, Airbus DS, USGS, NGA, NASA, CGIAR, N Robinson, NCEAS, NLS, OS, NMA, Geodatastyrelsen, Rijkswaterstaat, GSA, Geoland, FEMA, Intermap and the GIS

OSE POD Location Map



6/13/2024, 10:20:39 AM

- Override 1

GIS WATERS PODs

Active
- Plugged

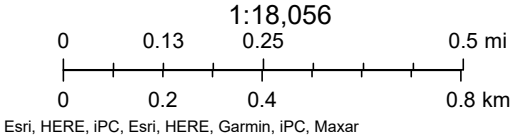
OSE District Boundary
- New Mexico State Trust Lands

Both Estates

NHD Flowlines

Artificial Path
- Connector

Stream River





WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD 1 (TW-1)		WELL TAG ID NO. N/A		OSE FILE NO(S). CP-1943			
	WELL OWNER NAME(S) Devon Energy				PHONE (OPTIONAL) 575-748-1838			
	WELL OWNER MAILING ADDRESS 6488 7 Rivers Hwy				CITY Artesia	STATE NM	ZIP 88210	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 38	SECONDS 55.52 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND			
		LONGITUDE 103	53	58.0 W	* DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE NW SW NW Sec.20 T19S R31E NMPM								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1249		NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.		
	DRILLING STARTED 4/6/2023	DRILLING ENDED 4/9/2023	DEPTH OF COMPLETED WELL (FT) Temporary Well Material		BORE HOLE DEPTH (FT) ±55	DEPTH WATER FIRST ENCOUNTERED (FT) N/A		
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A	DATE STATIC MEASURED 4/18/23		
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Hollow Stem Auger					CHECK HERE IF PITLESS ADAPTER IS INSTALLED <input type="checkbox"/>		
	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM. (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	0	55	±6.25	Soil Boring	--	--	--	--
3. ANNULAR MATERIAL	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
				N/A				

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 01/28/2022)

FILE NO. CP-1943	POD NO. 1	TRN NO. 7410394
LOCATION 19S. 31E. 20 1 31	WELL TAG ID NO. MA	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
	0	4	4	Sand, fine-grained, poorly graded, unconsolidated Brown	Y ✓ N	
	4	25	21	Caliche, with very fine- grained sand, Tan off white	Y ✓ N	
	25	50	25	Sand, fine-grained, poorly graded, consolidated, Brown	Y ✓ N	
	50	55	5	Sand, fine-grained, poorly graded, unconsolidated, Tan	Y ✓ N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:					TOTAL ESTIMATED WELL YIELD (gpm): 0.00	
<input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY:						

5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.
		MISCELLANEOUS INFORMATION: Temporary well material removed and soil boring backfilled using drill cuttings from total depth to ten feet below ground surface(bgs), then hydrated bentonite chips ten feet bgs to surface. 5 Rigel 20 Fed Com 2H <div style="text-align: right; color: gray;">311 31 APR 2023 4:01 PM</div>
		PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Shane Eldridge, Cameron Pruitt

6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:	
	 Jackie D. Atkins	4/26/23
	SIGNATURE OF DRILLER / PRINT SIGNEE NAME	DATE

FOR USE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 01/28/2022)

FILE NO. CP- 1943	POD NO. 1	TRN NO. 740394
LOCATION 195-31E-20 131	WELL TAG ID NO. M4	PAGE 2 OF 2



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: CP-1943 POD-1

Well owner: Devon Energy

Phone No.: 575-748-1838

Mailing address: 6488 7 Rivers Hwy

City: Artesia

State: New Mexico

Zip code: 88210

II. WELL PLUGGING INFORMATION:

1) Name of well drilling company that plugged well: Jackie D. Atkins (Atkins Engineering Associates Inc.)

2) New Mexico Well Driller License No.: 1249 Expiration Date: 04/30/25

3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s):

Shane Eldridge, Cameron Pruitt

4) Date well plugging began: 4/18/2023 Date well plugging concluded: 4/18/2023

5) GPS Well Location: Latitude: 32 deg, 38 min, 55.52 sec
Longitude: 103 deg, 53 min, 58 sec, WGS 84

6) Depth of well confirmed at initiation of plugging as: 55 ft below ground level (bgl),
by the following manner: weighted tape

7) Static water level measured at initiation of plugging: n/a ft bgl

8) Date well plugging plan of operations was approved by the State Engineer: 1/11/2023

9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

- For each interval plugged, describe within the following columns:**

I, Jackie D. Atkins, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Date _____

Significant Watercourse Map

Rigel 20 Fed 3H Battery

Enterprise Products Chaparral Cryo Plant

Legend

- 0.5 Mile Radius
- 300 Ft Radius
- Rigel 20 Fed 3H Battery

19

20

Rigel 20 Fed 3H Battery

3450

Google Earth

3000 ft





Wetlands Map



June 13, 2024

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

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

- Lake
- Other
- Riverine

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

National Flood Hazard Layer FIRMette



103°54'15"W 32°38'51"N



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

1:6,000
























103°53'38"W 32°38'21"N

Released to Imaging: 3/6/2025 9:48:45 AM

Basemap Imagery Source: USGS National Map 2023

Legend

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

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped



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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 6/25/2024 at 1:25 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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

PHOTOGRAPHIC LOG

PHOTOGRAPHIC LOG
Devon Energy Production Company
Rigel 20 Fed 3H Battery

Photograph No. 1

Facility: Rigel 20 Fed 3H Battery

County: Eddy County, New Mexico

Description:
Area of Concern.



Photograph No. 2

Facility: Rigel 20 Fed 3H Battery

County: Eddy County, New Mexico

Description:
Area of Concern.



Photograph No. 3

Facility: Rigel 20 Fed 3H Battery

County: Eddy County, New Mexico

Description:
Area of Concern.



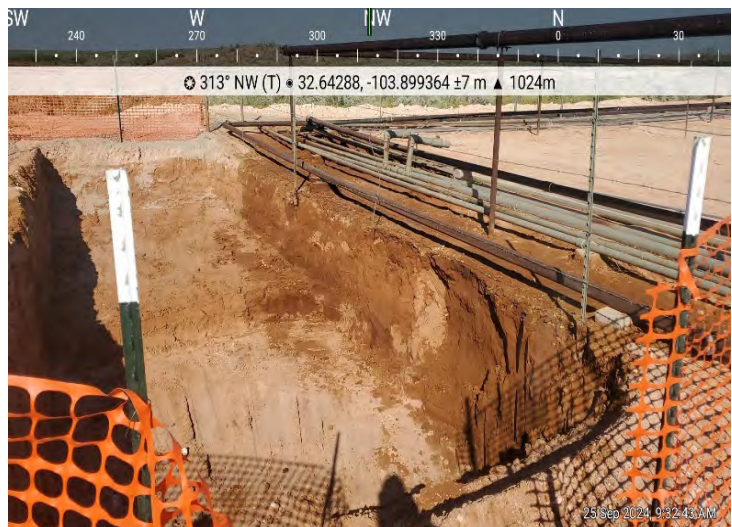
PHOTOGRAPHIC LOG
Devon Energy Production Company
Rigel 20 Fed 3H Battery

Photograph No. 4

Facility: Rigel 20 Fed 3H Battery

County: Eddy County, New Mexico

Description:
Confirmation Sampling 9/25/24

**Photograph No. 5**

Facility: Rigel 20 Fed 3H Battery

County: Eddy County, New Mexico

Description:
Confirmation Sampling 9/25/24

**Photograph No. 6**

Facility: Rigel 20 Fed 3H Battery

County: Eddy County, New Mexico

Description:
Confirmation Sampling

Confirmation Sampling 9/25/24



PHOTOGRAPHIC LOG
Devon Energy Production Company
Rigel 20 Fed 3H Battery

Photograph No. 7

Facility: Rigel 20 Fed 3H Battery

County: Eddy County, New Mexico

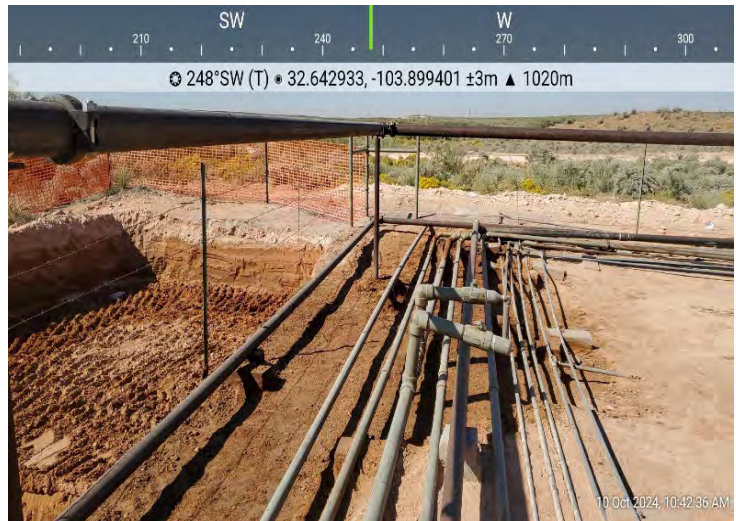
Description:
Confirmation Sampling 10/10/24

**Photograph No. 8**

Facility: Rigel 20 Fed 3H Battery

County: Eddy County, New Mexico

Description:
Confirmation Sampling 10/10/24

**Photograph No. 9**

Facility: Rigel 20 Fed 3H Battery

County: Eddy County, New Mexico

Description:
Confirmation Sampling 10/10/24



LABORATORY REPORTS AND CHAIN-OF-CUSTODY DOCUMENTS



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

June 24, 2024

ETHAN SESSUMS

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: RIGEL 20 FED 3

Enclosed are the results of analyses for samples received by the laboratory on 06/18/24 11:06.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 06/18/2024
 Reported: 06/24/2024
 Project Name: RIGEL 20 FED 3
 Project Number: 248823
 Project Location: DEVON - EDDY CO, NM

Sampling Date: 06/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V - 1 0-6" (H243560-01)

BTEx 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.591	0.500	06/21/2024	ND	1.99	99.4	2.00	1.97	
Toluene*	18.8	0.500	06/21/2024	ND	2.12	106	2.00	2.12	
Ethylbenzene*	23.9	0.500	06/21/2024	ND	2.13	106	2.00	2.60	
Total Xylenes*	54.2	1.50	06/21/2024	ND	6.58	110	6.00	2.30	
Total BTEX	97.5	3.00	06/21/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 139 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	06/19/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1140	50.0	06/19/2024	ND	189	94.6	200	3.70	
DRO >C10-C28*	16700	50.0	06/19/2024	ND	185	92.6	200	5.20	
EXT DRO >C28-C36	3730	50.0	06/19/2024	ND					

Surrogate: 1-Chlorooctane 160 % 48.2-134

Surrogate: 1-Chlorooctadecane 184 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 06/18/2024
 Reported: 06/24/2024
 Project Name: RIGEL 20 FED 3
 Project Number: 248823
 Project Location: DEVON - EDDY CO, NM

Sampling Date: 06/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V - 1 1-1.5' (H243560-02)

BTEx 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.232	0.100	06/21/2024	ND	1.99	99.4	2.00	1.97	
Toluene*	8.16	0.100	06/21/2024	ND	2.12	106	2.00	2.12	
Ethylbenzene*	12.4	0.100	06/21/2024	ND	2.13	106	2.00	2.60	
Total Xylenes*	25.6	0.300	06/21/2024	ND	6.58	110	6.00	2.30	
Total BTEX	46.5	0.600	06/21/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 182 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/19/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	270	10.0	06/19/2024	ND	189	94.6	200	3.70	
DRO >C10-C28*	1310	10.0	06/19/2024	ND	185	92.6	200	5.20	
EXT DRO >C28-C36	253	10.0	06/19/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 06/18/2024
 Reported: 06/24/2024
 Project Name: RIGEL 20 FED 3
 Project Number: 248823
 Project Location: DEVON - EDDY CO, NM

Sampling Date: 06/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V - 1 2-2.5' (H243560-03)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2024	ND	1.99	99.4	2.00	1.97	
Toluene*	0.825	0.050	06/20/2024	ND	2.12	106	2.00	2.12	
Ethylbenzene*	1.11	0.050	06/20/2024	ND	2.13	106	2.00	2.60	
Total Xylenes*	3.47	0.150	06/20/2024	ND	6.58	110	6.00	2.30	
Total BTEX	5.41	0.300	06/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 134 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/19/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	43.8	10.0	06/19/2024	ND	207	104	200	1.30	
DRO >C10-C28*	250	10.0	06/19/2024	ND	201	101	200	8.95	
EXT DRO >C28-C36	32.9	10.0	06/19/2024	ND					

Surrogate: 1-Chlorooctane 93.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.8 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 06/18/2024
 Reported: 06/24/2024
 Project Name: RIGEL 20 FED 3
 Project Number: 248823
 Project Location: DEVON - EDDY CO, NM

Sampling Date: 06/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V - 1 3-3.5' (H243560-04)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2024	ND	1.99	99.4	2.00	1.97	
Toluene*	0.105	0.050	06/20/2024	ND	2.12	106	2.00	2.12	
Ethylbenzene*	0.269	0.050	06/20/2024	ND	2.13	106	2.00	2.60	
Total Xylenes*	1.40	0.150	06/20/2024	ND	6.58	110	6.00	2.30	
Total BTEX	1.77	0.300	06/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	06/19/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	10.7	10.0	06/19/2024	ND	207	104	200	1.30	
DRO >C10-C28*	85.3	10.0	06/19/2024	ND	201	101	200	8.95	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					

Surrogate: 1-Chlorooctane 96.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 06/18/2024
 Reported: 06/24/2024
 Project Name: RIGEL 20 FED 3
 Project Number: 248823
 Project Location: DEVON - EDDY CO, NM

Sampling Date: 06/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V - 1 4-4.5' (H243560-05)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2024	ND	1.99	99.4	2.00	1.97	
Toluene*	0.064	0.050	06/20/2024	ND	2.12	106	2.00	2.12	
Ethylbenzene*	0.156	0.050	06/20/2024	ND	2.13	106	2.00	2.60	
Total Xylenes*	0.488	0.150	06/20/2024	ND	6.58	110	6.00	2.30	
Total BTEX	0.708	0.300	06/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	06/19/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	10.1	10.0	06/19/2024	ND	207	104	200	1.30	
DRO >C10-C28*	66.1	10.0	06/19/2024	ND	201	101	200	8.95	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					

Surrogate: 1-Chlorooctane 97.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.7 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 06/18/2024
 Reported: 06/24/2024
 Project Name: RIGEL 20 FED 3
 Project Number: 248823
 Project Location: DEVON - EDDY CO, NM

Sampling Date: 06/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V - 2 0-6" (H243560-06)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.60	1.00	06/20/2024	ND	1.99	99.4	2.00	1.97	
Toluene*	9.95	1.00	06/20/2024	ND	2.12	106	2.00	2.12	
Ethylbenzene*	12.3	1.00	06/20/2024	ND	2.13	106	2.00	2.60	
Total Xylenes*	33.0	3.00	06/20/2024	ND	6.58	110	6.00	2.30	
Total BTEX	56.9	6.00	06/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	06/19/2024	ND	416	104	400	0.00		
TPH 8015M										
		mg/kg		Analyzed By: MS						S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1090	50.0	06/19/2024	ND	207	104	200	1.30	
DRO >C10-C28*	21900	50.0	06/19/2024	ND	201	101	200	8.95	
EXT DRO >C28-C36	4900	50.0	06/19/2024	ND					

Surrogate: 1-Chlorooctane 564 % 48.2-134

Surrogate: 1-Chlorooctadecane 615 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 06/18/2024
 Reported: 06/24/2024
 Project Name: RIGEL 20 FED 3
 Project Number: 248823
 Project Location: DEVON - EDDY CO, NM

Sampling Date: 06/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V - 2 1-1.5' (H243560-07)

BTEx 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.506	0.050	06/21/2024	ND	1.99	99.4	2.00	1.97	
Toluene*	3.86	0.050	06/21/2024	ND	2.12	106	2.00	2.12	
Ethylbenzene*	4.19	0.050	06/21/2024	ND	2.13	106	2.00	2.60	
Total Xylenes*	9.47	0.150	06/21/2024	ND	6.58	110	6.00	2.30	
Total BTEX	18.0	0.300	06/21/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 180 % 71.5-134

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/19/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	119	10.0	06/19/2024	ND	207	104	200	1.30	
DRO >C10-C28*	1920	10.0	06/19/2024	ND	201	101	200	8.95	
EXT DRO >C28-C36	408	10.0	06/19/2024	ND					

Surrogate: 1-Chlorooctane 121 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.1 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 06/18/2024
 Reported: 06/24/2024
 Project Name: RIGEL 20 FED 3
 Project Number: 248823
 Project Location: DEVON - EDDY CO, NM

Sampling Date: 06/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V - 2 2-2.5' (H243560-08)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2024	ND	1.99	99.4	2.00	1.97	
Toluene*	0.101	0.050	06/20/2024	ND	2.12	106	2.00	2.12	
Ethylbenzene*	0.104	0.050	06/20/2024	ND	2.13	106	2.00	2.60	
Total Xylenes*	0.295	0.150	06/20/2024	ND	6.58	110	6.00	2.30	
Total BTEX	0.500	0.300	06/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/19/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2024	ND	207	104	200	1.30	
DRO >C10-C28*	60.9	10.0	06/19/2024	ND	201	101	200	8.95	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					

Surrogate: 1-Chlorooctane 97.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.6 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 06/18/2024
 Reported: 06/24/2024
 Project Name: RIGEL 20 FED 3
 Project Number: 248823
 Project Location: DEVON - EDDY CO, NM

Sampling Date: 06/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V - 2 3-3.5' (H243560-09)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2024	ND	1.99	99.4	2.00	1.97	
Toluene*	0.375	0.050	06/20/2024	ND	2.12	106	2.00	2.12	
Ethylbenzene*	0.518	0.050	06/20/2024	ND	2.13	106	2.00	2.60	
Total Xylenes*	1.56	0.150	06/20/2024	ND	6.58	110	6.00	2.30	
Total BTEX	2.46	0.300	06/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 128 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	06/19/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	23.4	10.0	06/19/2024	ND	207	104	200	1.30	
DRO >C10-C28*	468	10.0	06/19/2024	ND	201	101	200	8.95	
EXT DRO >C28-C36	84.3	10.0	06/19/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.5 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 06/18/2024
 Reported: 06/24/2024
 Project Name: RIGEL 20 FED 3
 Project Number: 248823
 Project Location: DEVON - EDDY CO, NM

Sampling Date: 06/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V - 2 4-4.5' (H243560-10)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2024	ND	1.99	99.4	2.00	1.97	
Toluene*	<0.050	0.050	06/20/2024	ND	2.12	106	2.00	2.12	
Ethylbenzene*	<0.050	0.050	06/20/2024	ND	2.13	106	2.00	2.60	
Total Xylenes*	<0.150	0.150	06/20/2024	ND	6.58	110	6.00	2.30	
Total BTX	<0.300	0.300	06/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	06/19/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2024	ND	207	104	200	1.30	
DRO >C10-C28*	11.1	10.0	06/19/2024	ND	201	101	200	8.95	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					

Surrogate: 1-Chlorooctane 97.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 06/18/2024
 Reported: 06/24/2024
 Project Name: RIGEL 20 FED 3
 Project Number: 248823
 Project Location: DEVON - EDDY CO, NM

Sampling Date: 06/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: H - 1 (H243560-11)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/20/2024	ND	1.99	99.4	2.00	1.97		
Toluene*	<0.050	0.050	06/20/2024	ND	2.12	106	2.00	2.12		
Ethylbenzene*	<0.050	0.050	06/20/2024	ND	2.13	106	2.00	2.60		
Total Xylenes*	<0.150	0.150	06/20/2024	ND	6.58	110	6.00	2.30		
Total BTEx	<0.300	0.300	06/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/19/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2024	ND	207	104	200	1.30	
DRO >C10-C28*	<10.0	10.0	06/19/2024	ND	201	101	200	8.95	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					

Surrogate: 1-Chlorooctane 90.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.4 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 06/18/2024
 Reported: 06/24/2024
 Project Name: RIGEL 20 FED 3
 Project Number: 248823
 Project Location: DEVON - EDDY CO, NM

Sampling Date: 06/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: H - 2 (H243560-12)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2024	ND	1.99	99.4	2.00	1.97	
Toluene*	<0.050	0.050	06/20/2024	ND	2.12	106	2.00	2.12	
Ethylbenzene*	<0.050	0.050	06/20/2024	ND	2.13	106	2.00	2.60	
Total Xylenes*	<0.150	0.150	06/20/2024	ND	6.58	110	6.00	2.30	
Total BTEX	<0.300	0.300	06/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/19/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2024	ND	207	104	200	1.30	
DRO >C10-C28*	15.7	10.0	06/19/2024	ND	201	101	200	8.95	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					

Surrogate: 1-Chlorooctane 89.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.6 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 06/18/2024
 Reported: 06/24/2024
 Project Name: RIGEL 20 FED 3
 Project Number: 248823
 Project Location: DEVON - EDDY CO, NM

Sampling Date: 06/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: H - 3 (H243560-13)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/20/2024	ND	1.85	92.4	2.00	1.80		
Toluene*	0.074	0.050	06/20/2024	ND	1.85	92.7	2.00	2.33		
Ethylbenzene*	0.086	0.050	06/20/2024	ND	1.75	87.7	2.00	2.47		
Total Xylenes*	0.152	0.150	06/20/2024	ND	5.47	91.1	6.00	2.50		
Total BTEx	3.12	0.300	06/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	06/19/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2024	ND	207	104	200	1.30	
DRO >C10-C28*	<10.0	10.0	06/19/2024	ND	201	101	200	8.95	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					

Surrogate: 1-Chlorooctane 80.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.4 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 06/18/2024
 Reported: 06/24/2024
 Project Name: RIGEL 20 FED 3
 Project Number: 248823
 Project Location: DEVON - EDDY CO, NM

Sampling Date: 06/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: H - 4 (H243560-14)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2024	ND	1.85	92.4	2.00	1.80	
Toluene*	0.197	0.050	06/20/2024	ND	1.85	92.7	2.00	2.33	
Ethylbenzene*	0.218	0.050	06/20/2024	ND	1.75	87.7	2.00	2.47	
Total Xylenes*	0.400	0.150	06/20/2024	ND	5.47	91.1	6.00	2.50	
Total BTEX	0.815	0.300	06/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/19/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2024	ND	207	104	200	1.30	
DRO >C10-C28*	13.8	10.0	06/19/2024	ND	201	101	200	8.95	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					

Surrogate: 1-Chlorooctane 78.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 06/18/2024
 Reported: 06/24/2024
 Project Name: RIGEL 20 FED 3
 Project Number: 248823
 Project Location: DEVON - EDDY CO, NM

Sampling Date: 06/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: H - 5 (H243560-15)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.057	0.050	06/20/2024	ND	1.85	92.4	2.00	1.80	
Toluene*	0.324	0.050	06/20/2024	ND	1.85	92.7	2.00	2.33	
Ethylbenzene*	0.177	0.050	06/20/2024	ND	1.75	87.7	2.00	2.47	
Total Xylenes*	0.250	0.150	06/20/2024	ND	5.47	91.1	6.00	2.50	
Total BTEX	0.808	0.300	06/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	06/19/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2024	ND	207	104	200	1.30	
DRO >C10-C28*	14.9	10.0	06/19/2024	ND	201	101	200	8.95	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					

Surrogate: 1-Chlorooctane 91.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 06/18/2024
 Reported: 06/24/2024
 Project Name: RIGEL 20 FED 3
 Project Number: 248823
 Project Location: DEVON - EDDY CO, NM

Sampling Date: 06/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: H - 6 (H243560-16)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2024	ND	1.85	92.4	2.00	1.80	
Toluene*	<0.050	0.050	06/20/2024	ND	1.85	92.7	2.00	2.33	
Ethylbenzene*	<0.050	0.050	06/20/2024	ND	1.75	87.7	2.00	2.47	
Total Xylenes*	<0.150	0.150	06/20/2024	ND	5.47	91.1	6.00	2.50	
Total BTEX	<0.300	0.300	06/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/19/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2024	ND	207	104	200	1.30	
DRO >C10-C28*	<10.0	10.0	06/19/2024	ND	201	101	200	8.95	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					

Surrogate: 1-Chlorooctane 93.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



Chain of Custody

Work Order No: 1843554

Project Manager:	Ethan Sessums	Bill to: (if different)	Date Woodall
Company Name:	NTG Environmental	Company Name:	Devon
Address:	209 W McKay St	Address:	
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	
Phone:	432-701-2159	Email:	esessums@ntgglobal.com

Work Order Comments	
Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Unperfund <input type="checkbox"/>	
State of Project:	
Reporting Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:	

Project Name:		Rigel 20 Fed 3		Turn Around		Pres. Code		ANALYSIS REQUEST												Preservative Codes																																													
Project Number:		248823		<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush																None: NO DI Water: H ₂ O																																													
Project Location:		Eddy County, NM		Due Date:																Cool: Cool MeOH: Me																																													
Sampler's Name:		Clayton T, Ethan S																		HCL: HC HNO ₃ : HN																																													
PO #		21357562																		H ₂ SO ₄ : H ₂ NaOH: Na																																													
SAMPLE RECEIPT				Temp Blank:		<input checked="" type="radio"/> Yes <input checked="" type="radio"/> No		Wet Ice:		<input checked="" type="radio"/> Yes <input checked="" type="radio"/> No		Parameters										H ₃ PO ₄ : HP																																											
Received Intact:		<input checked="" type="radio"/> Yes <input checked="" type="radio"/> No		Thermometer ID:		140																																																											
Cooler Custody Seals:		<input checked="" type="radio"/> Yes <input checked="" type="radio"/> No		Correction Factor:																																																													
Sample Custody Seals:		<input checked="" type="radio"/> Yes <input checked="" type="radio"/> No		Temperature Reading:		-1.2																																																											
Total Containers:		16		Corrected Temperature:																																																													
Sample Identification		Depth (ft bgs)		Date		Time		Soil		Water		Grab/Comp		# of Cont		BTEX 8021B												TPH 8015M (GRO + DRO + MRO)		Chloride 4500												HOLD												Sample Comments											
V-1		0-6"		6/18/2024		8:00		X				Grab		1		X												X												X																									
V-1		1-1.5'		6/18/2024		8:03		X				Grab		1		X												X												X																									
V-1		2-2.5'		6/18/2024		8:06		X				Grab		1		X												X												X																									
V-1		3-3.5'		6/18/2024		8:09		X				Grab		1		X												X												X																									
V-1		4-4.5'		6/18/2024		8:12		X				Grab		1		X												X												X																									
V-2		0-6"		6/18/2024		8:15		X				Grab		1		X												X												X																									
V-2		1-1.5'		6/18/2024		8:18		X				Grab		1		X												X												X																									
V-2		2-2.5'		6/18/2024		8:21		X				Grab		1		X												X												X																									
V-2		3-3.5'		6/18/2024		8:24		X				Grab		1		X												X												X																									
V-2		4-4.5'		6/18/2024		8:27		X				Grab		1		X												X												X																									
Additional Comments:																																																																	

Additional Comments:

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		6-18-24 1106			
		2			
		4			
		6			



Work Order No.:

HA243542

Page 20 of 20



Project Manager:	Ethan Sessums	Bill to: (if different)	Date	Woodall
Company Name:	NTG Environmental	Company Name:	Devon	
Address:	209 W McKay St	Address:		
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:		
Phone:	432-701-2159	Email:	esessums@ntgglobal.com	
Product Name:				

Work Order Comments	
Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> brownfields <input type="checkbox"/> RRC <input type="checkbox"/> superfund <input type="checkbox"/>	
State of Project:	
Reporting Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:	

[illegible]

Additional Comments:

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		6-18-24 1106			



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

September 27, 2024

ETHAN SESSUMS

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: RIGEL 20 FED 3H BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 09/25/24 12:46.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 09/25/2024
 Reported: 09/27/2024
 Project Name: RIGEL 20 FED 3H BATTERY
 Project Number: 248823
 Project Location: DEVON - EDDY CO, NM

Sampling Date: 09/25/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - 1 (H245819-01)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/26/2024	ND	2.06	103	2.00	1.54	
Toluene*	<0.050	0.050	09/26/2024	ND	2.15	108	2.00	2.39	
Ethylbenzene*	<0.050	0.050	09/26/2024	ND	2.29	115	2.00	3.76	
Total Xylenes*	<0.150	0.150	09/26/2024	ND	6.93	116	6.00	4.47	
Total BTEX	<0.300	0.300	09/26/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	09/26/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2024	ND	199	99.4	200	1.07	
DRO >C10-C28*	23.5	10.0	09/26/2024	ND	195	97.5	200	3.15	
EXT DRO >C28-C36	<10.0	10.0	09/26/2024	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 09/25/2024
 Reported: 09/27/2024
 Project Name: RIGEL 20 FED 3H BATTERY
 Project Number: 248823
 Project Location: DEVON - EDDY CO, NM

Sampling Date: 09/25/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - 2 (H245819-02)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/26/2024	ND	2.06	103	2.00	1.54	
Toluene*	<0.050	0.050	09/26/2024	ND	2.15	108	2.00	2.39	
Ethylbenzene*	<0.050	0.050	09/26/2024	ND	2.29	115	2.00	3.76	
Total Xylenes*	<0.150	0.150	09/26/2024	ND	6.93	116	6.00	4.47	
Total BTEX	<0.300	0.300	09/26/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	09/26/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2024	ND	199	99.4	200	1.07	
DRO >C10-C28*	18.8	10.0	09/26/2024	ND	195	97.5	200	3.15	
EXT DRO >C28-C36	<10.0	10.0	09/26/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 09/25/2024
 Reported: 09/27/2024
 Project Name: RIGEL 20 FED 3H BATTERY
 Project Number: 248823
 Project Location: DEVON - EDDY CO, NM

Sampling Date: 09/25/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - 3 (H245819-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/26/2024	ND	2.06	103	2.00	1.54		
Toluene*	<0.050	0.050	09/26/2024	ND	2.15	108	2.00	2.39		
Ethylbenzene*	<0.050	0.050	09/26/2024	ND	2.29	115	2.00	3.76		
Total Xylenes*	<0.150	0.150	09/26/2024	ND	6.93	116	6.00	4.47		
Total BTEx	<0.300	0.300	09/26/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	09/26/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2024	ND	199	99.4	200	1.07	
DRO >C10-C28*	33.6	10.0	09/26/2024	ND	195	97.5	200	3.15	
EXT DRO >C28-C36	<10.0	10.0	09/26/2024	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 09/25/2024
 Reported: 09/27/2024
 Project Name: RIGEL 20 FED 3H BATTERY
 Project Number: 248823
 Project Location: DEVON - EDDY CO, NM

Sampling Date: 09/25/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - 4 (H245819-04)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/26/2024	ND	1.81	90.3	2.00	2.52	
Toluene*	<0.050	0.050	09/26/2024	ND	1.91	95.5	2.00	1.47	
Ethylbenzene*	<0.050	0.050	09/26/2024	ND	1.96	97.8	2.00	1.30	
Total Xylenes*	<0.150	0.150	09/26/2024	ND	5.86	97.6	6.00	1.48	
Total BTEX	<0.300	0.300	09/26/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	09/26/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2024	ND	199	99.4	200	1.07	
DRO >C10-C28*	14.5	10.0	09/26/2024	ND	195	97.5	200	3.15	
EXT DRO >C28-C36	<10.0	10.0	09/26/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.3 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 09/25/2024
 Reported: 09/27/2024
 Project Name: RIGEL 20 FED 3H BATTERY
 Project Number: 248823
 Project Location: DEVON - EDDY CO, NM

Sampling Date: 09/25/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 1 (H245819-05)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.056	0.050	09/26/2024	ND	1.81	90.3	2.00	2.52	
Toluene*	0.660	0.050	09/26/2024	ND	1.91	95.5	2.00	1.47	
Ethylbenzene*	1.08	0.050	09/26/2024	ND	1.96	97.8	2.00	1.30	
Total Xylenes*	2.01	0.150	09/26/2024	ND	5.86	97.6	6.00	1.48	
Total BTEX	3.80	0.300	09/26/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	09/26/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	49.0	10.0	09/26/2024	ND	199	99.4	200	1.07	
DRO >C10-C28*	1990	10.0	09/26/2024	ND	195	97.5	200	3.15	
EXT DRO >C28-C36	429	10.0	09/26/2024	ND					

Surrogate: 1-Chlorooctane 118 % 48.2-134

Surrogate: 1-Chlorooctadecane 133 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 09/25/2024
 Reported: 09/27/2024
 Project Name: RIGEL 20 FED 3H BATTERY
 Project Number: 248823
 Project Location: DEVON - EDDY CO, NM

Sampling Date: 09/25/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 2 (H245819-06)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.718	0.200	09/26/2024	ND	1.81	90.3	2.00	2.52	
Toluene*	12.7	0.200	09/26/2024	ND	1.91	95.5	2.00	1.47	
Ethylbenzene*	16.1	0.200	09/26/2024	ND	1.96	97.8	2.00	1.30	
Total Xylenes*	34.6	0.600	09/26/2024	ND	5.86	97.6	6.00	1.48	
Total BTEX	64.0	1.20	09/26/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/26/2024	ND	416	104	400	3.77	

TPH 8015M	mg/kg		Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	263	50.0	09/26/2024	ND	199	99.4	200	1.07	
DRO >C10-C28*	13700	50.0	09/26/2024	ND	195	97.5	200	3.15	
EXT DRO >C28-C36	3090	50.0	09/26/2024	ND					

Surrogate: 1-Chlorooctane 135 % 48.2-134

Surrogate: 1-Chlorooctadecane 365 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 09/25/2024
 Reported: 09/27/2024
 Project Name: RIGEL 20 FED 3H BATTERY
 Project Number: 248823
 Project Location: DEVON - EDDY CO, NM

Sampling Date: 09/25/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 3 (H245819-07)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/26/2024	ND	1.81	90.3	2.00	2.52	
Toluene*	<0.050	0.050	09/26/2024	ND	1.91	95.5	2.00	1.47	
Ethylbenzene*	<0.050	0.050	09/26/2024	ND	1.96	97.8	2.00	1.30	
Total Xylenes*	<0.150	0.150	09/26/2024	ND	5.86	97.6	6.00	1.48	
Total BTEX	<0.300	0.300	09/26/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/26/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2024	ND	199	99.4	200	1.07	
DRO >C10-C28*	619	10.0	09/26/2024	ND	195	97.5	200	3.15	
EXT DRO >C28-C36	137	10.0	09/26/2024	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 09/25/2024
 Reported: 09/27/2024
 Project Name: RIGEL 20 FED 3H BATTERY
 Project Number: 248823
 Project Location: DEVON - EDDY CO, NM

Sampling Date: 09/25/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 4 (H245819-08)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/26/2024	ND	1.81	90.3	2.00	2.52		
Toluene*	<0.050	0.050	09/26/2024	ND	1.91	95.5	2.00	1.47		
Ethylbenzene*	<0.050	0.050	09/26/2024	ND	1.96	97.8	2.00	1.30		
Total Xylenes*	<0.150	0.150	09/26/2024	ND	5.86	97.6	6.00	1.48		
Total BTEX	<0.300	0.300	09/26/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/26/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2024	ND	199	99.4	200	1.07	
DRO >C10-C28*	200	10.0	09/26/2024	ND	195	97.5	200	3.15	
EXT DRO >C28-C36	54.5	10.0	09/26/2024	ND					

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 09/25/2024
 Reported: 09/27/2024
 Project Name: RIGEL 20 FED 3H BATTERY
 Project Number: 248823
 Project Location: DEVON - EDDY CO, NM

Sampling Date: 09/25/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 5 (H245819-09)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/26/2024	ND	1.81	90.3	2.00	2.52	
Toluene*	<0.050	0.050	09/26/2024	ND	1.91	95.5	2.00	1.47	
Ethylbenzene*	<0.050	0.050	09/26/2024	ND	1.96	97.8	2.00	1.30	
Total Xylenes*	<0.150	0.150	09/26/2024	ND	5.86	97.6	6.00	1.48	
Total BTEX	<0.300	0.300	09/26/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/26/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2024	ND	200	99.8	200	0.396	
DRO >C10-C28*	1660	10.0	09/26/2024	ND	179	89.6	200	2.68	
EXT DRO >C28-C36	531	10.0	09/26/2024	ND					

Surrogate: 1-Chlorooctane 97.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.6 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 09/25/2024
 Reported: 09/27/2024
 Project Name: RIGEL 20 FED 3H BATTERY
 Project Number: 248823
 Project Location: DEVON - EDDY CO, NM

Sampling Date: 09/25/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 6 (H245819-10)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/26/2024	ND	1.81	90.3	2.00	2.52	
Toluene*	<0.050	0.050	09/26/2024	ND	1.91	95.5	2.00	1.47	
Ethylbenzene*	<0.050	0.050	09/26/2024	ND	1.96	97.8	2.00	1.30	
Total Xylenes*	<0.150	0.150	09/26/2024	ND	5.86	97.6	6.00	1.48	
Total BTX	<0.300	0.300	09/26/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1150	16.0	09/26/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2024	ND	200	99.8	200	0.396	
DRO >C10-C28*	<10.0	10.0	09/26/2024	ND	179	89.6	200	2.68	
EXT DRO >C28-C36	<10.0	10.0	09/26/2024	ND					

Surrogate: 1-Chlorooctane 96.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.3 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 09/25/2024
 Reported: 09/27/2024
 Project Name: RIGEL 20 FED 3H BATTERY
 Project Number: 248823
 Project Location: DEVON - EDDY CO, NM

Sampling Date: 09/25/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 7 (H245819-11)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/26/2024	ND	1.81	90.3	2.00	2.52	
Toluene*	<0.050	0.050	09/26/2024	ND	1.91	95.5	2.00	1.47	
Ethylbenzene*	<0.050	0.050	09/26/2024	ND	1.96	97.8	2.00	1.30	
Total Xylenes*	<0.150	0.150	09/26/2024	ND	5.86	97.6	6.00	1.48	
Total BTEX	<0.300	0.300	09/26/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	09/26/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2024	ND	200	99.8	200	0.396	
DRO >C10-C28*	281	10.0	09/26/2024	ND	179	89.6	200	2.68	
EXT DRO >C28-C36	77.6	10.0	09/26/2024	ND					

Surrogate: 1-Chlorooctane 97.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.8 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name: NTA Environmental

Project Manager: Zihan Dessum

Address: 209 W McKay Street

City: Las Vegas State: NM Zip: 88400

Phone #: (254) 266-5436 Fax #: (254) 266-5436

Project #:	448825	Project Owner:	Devon
------------	--------	----------------	-------

Project Name: Kigel 20 Fed 3H Battery

Project Location: Yeddy CO. NP

Sampler Name: Jill Smith / Feeding Plan

P.O. # 65627246

Company: DEVDN

Attn: Paul Morrison

Address: _____

City:

State: Zip:

Phone #:

ANALYSIS REQUEST

[illegible]

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Relinquished By:

Date: 8/26/2015

Received By:

Relinquished By:

Date:

Received By:

Delivered By: (Circle One)

Observed Temp. °C 2.3

Sample Condition	Coil	Intact
------------------	------	--------

CHECKED BY:
(Initials)

Turnaround Time:

Standard
Rush

☒ ☐

Bacteria (only)
Cool Intact

Observed Temp. °C

Sampler - UPS - Bus - Other:

Corrected Temp. °C 2.72

<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	Yes
<input type="checkbox"/>	No	<input type="checkbox"/>	No

Correction Factor -0.6°

48 hrs.

☐ No ☐ No

Corrected Temp. °C

† Cardinal cannot accept verbal changes. Please email changes to celeey.keene@cardinallabsnm.com

(575) 393-2326 FAX (575) 393-2476

BILL TO

ANALYSIS REQUEST

Page 15 of 15



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

October 14, 2024

ETHAN SESSUMS

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: RIGEL 20 FED 3

Enclosed are the results of analyses for samples received by the laboratory on 10/10/24 12:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 10/10/2024
 Reported: 10/14/2024
 Project Name: RIGEL 20 FED 3
 Project Number: 248823
 Project Location: DEVON - EDDY CO, NM

Sampling Date: 10/10/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 3 (H246173-01)

BTX 8021B		mg/L		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/10/2024	ND	2.05	103	2.00	4.21	
Toluene*	<0.050	0.050	10/10/2024	ND	2.00	99.8	2.00	3.75	
Ethylbenzene*	<0.050	0.050	10/10/2024	ND	2.02	101	2.00	3.65	
Total Xylenes*	<0.150	0.150	10/10/2024	ND	6.03	101	6.00	3.46	
Total BTX	<0.300	0.300	10/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 77.5-125

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	10/11/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/11/2024	ND	226	113	200	4.93	
DRO >C10-C28*	<10.0	10.0	10/11/2024	ND	222	111	200	10.2	
EXT DRO >C28-C36	<10.0	10.0	10/11/2024	ND					

Surrogate: 1-Chlorooctane 96.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.0 % 49.1-148

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 10/10/2024
 Reported: 10/14/2024
 Project Name: RIGEL 20 FED 3
 Project Number: 248823
 Project Location: DEVON - EDDY CO, NM

Sampling Date: 10/10/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 4 (H246173-02)

BTX 8021B		mg/L		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/10/2024	ND	2.05	103	2.00	4.21	
Toluene*	<0.050	0.050	10/10/2024	ND	2.00	99.8	2.00	3.75	
Ethylbenzene*	<0.050	0.050	10/10/2024	ND	2.02	101	2.00	3.65	
Total Xylenes*	<0.150	0.150	10/10/2024	ND	6.03	101	6.00	3.46	
Total BTX	<0.300	0.300	10/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 77.5-125

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/11/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/11/2024	ND	226	113	200	4.93	
DRO >C10-C28*	<10.0	10.0	10/11/2024	ND	222	111	200	10.2	
EXT DRO >C28-C36	<10.0	10.0	10/11/2024	ND					

Surrogate: 1-Chlorooctane 74.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 10/10/2024
 Reported: 10/14/2024
 Project Name: RIGEL 20 FED 3
 Project Number: 248823
 Project Location: DEVON - EDDY CO, NM

Sampling Date: 10/10/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 5 (H246173-03)

BTEx 8021B		mg/L		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/10/2024	ND	2.05	103	2.00	4.21		
Toluene*	<0.050	0.050	10/10/2024	ND	2.00	99.8	2.00	3.75		
Ethylbenzene*	<0.050	0.050	10/10/2024	ND	2.02	101	2.00	3.65		
Total Xylenes*	<0.150	0.150	10/10/2024	ND	6.03	101	6.00	3.46		
Total BTEX	<0.300	0.300	10/10/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 77.5-125

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	10/11/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/11/2024	ND	226	113	200	4.93	
DRO >C10-C28*	<10.0	10.0	10/11/2024	ND	222	111	200	10.2	
EXT DRO >C28-C36	<10.0	10.0	10/11/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 10/10/2024
 Reported: 10/14/2024
 Project Name: RIGEL 20 FED 3
 Project Number: 248823
 Project Location: DEVON - EDDY CO, NM

Sampling Date: 10/10/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 6 (H246173-04)

BTEx 8021B		mg/L		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/10/2024	ND	2.05	103	2.00	4.21		
Toluene*	<0.050	0.050	10/10/2024	ND	2.00	99.8	2.00	3.75		
Ethylbenzene*	<0.050	0.050	10/10/2024	ND	2.02	101	2.00	3.65		
Total Xylenes*	<0.150	0.150	10/10/2024	ND	6.03	101	6.00	3.46		
Total BTEX	<0.300	0.300	10/10/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 77.5-125

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/11/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/10/2024	ND	193	96.7	200	3.34	
DRO >C10-C28*	<10.0	10.0	10/10/2024	ND	195	97.5	200	1.93	
EXT DRO >C28-C36	<10.0	10.0	10/10/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 10/10/2024
 Reported: 10/14/2024
 Project Name: RIGEL 20 FED 3
 Project Number: 248823
 Project Location: DEVON - EDDY CO, NM

Sampling Date: 10/10/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 7 (H246173-05)

BTEx 8021B		mg/L		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/10/2024	ND	2.05	103	2.00	4.21	
Toluene*	<0.050	0.050	10/10/2024	ND	2.00	99.8	2.00	3.75	
Ethylbenzene*	<0.050	0.050	10/10/2024	ND	2.02	101	2.00	3.65	
Total Xylenes*	<0.150	0.150	10/10/2024	ND	6.03	101	6.00	3.46	
Total BTEX	<0.300	0.300	10/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 77.5-125

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/11/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/10/2024	ND	193	96.7	200	3.34	
DRO >C10-C28*	<10.0	10.0	10/10/2024	ND	195	97.5	200	1.93	
EXT DRO >C28-C36	<10.0	10.0	10/10/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>NTGE</u>		BILL TO		ANALYSIS REQUEST																							
Project Manager: <u>Ethan Sessions</u>		P.O. #: <u>21357562</u>																									
Address: <u>209 W. McKay St</u>		Company: <u>Beun</u>																									
City: <u>Corkland NM</u>		Attn: <u>Dale Woodall</u>																									
State: <u>NM</u> Zip: <u>88220</u>		Address:																									
Phone #: <u>254-266-5456</u> Fax #: <u></u>		City:																									
Project #: <u>248823</u> Project Owner: <u>Beun</u>		State:																									
Project Name: <u>Rigel 20 Fed 3</u>		Zip:																									
Project Location: <u>Eddy Co, NM</u>		Phone #:																									
Sampler Name: <u>Kenny Keene</u>		Fax #:																									
FOR LAB USE ONLY																											
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		MATRIX		PRESERV.		SAMPLING											
<u>H244173</u>																											
<u>1 SW-3</u>				<u>C</u>		<u>1</u>																					
<u>2 SW-4</u>				<u>1</u>		<u>1</u>																					
<u>3 SW-5</u>				<u>1</u>		<u>1</u>																					
<u>4 SW-6</u>				<u>1</u>		<u>1</u>																					
<u>5 SW-7</u>				<u>1</u>		<u>1</u>																					
PLEASE NOTE: Liability and Damages: Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.																											
Relinquished By: <u>[Signature]</u>		Date: <u>6/10</u>		Received By: <u>[Signature]</u>		Date: <u>6/10</u>																					
Relinquished By: <u>[Signature]</u>		Date: <u>6/10</u>		Received By: <u>[Signature]</u>		Date: <u>6/10</u>																					
Delivered By: (Circle One)		Observed Temp. °C		Sample Condition		CHECKED BY: (Initials)		Turnaround Time:		Standard		Bacteria (only)		Sample Condition													
Sampler - UPS - Bus - Other:		<u>3.8</u>		<u>Intact</u>		<u>[Signature]</u>		<u>140</u>		<u>Rush</u>		<input checked="" type="checkbox"/>		<u>Observed Temp. °C</u>													
		<u>3.2</u>		<u>No</u>								<input type="checkbox"/>		<u>Corrected Temp. °C</u>													
REMARKS:																											
Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:																											
All Results are emailed. Please provide Email address:																											



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

October 16, 2024

ETHAN SESSUMS

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: RIGEL 20 FED 3

Enclosed are the results of analyses for samples received by the laboratory on 10/10/24 12:23.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 10/10/2024
 Reported: 10/16/2024
 Project Name: RIGEL 20 FED 3
 Project Number: 248823
 Project Location: DEVON - EDDY CO, NM

Sampling Date: 10/10/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DS - 1 1' (H246174-01)

BTEx 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	10/10/2024	ND	2.05	103	2.00	4.21	
Toluene*	19.0	1.00	10/10/2024	ND	2.00	99.8	2.00	3.75	
Ethylbenzene*	26.7	1.00	10/10/2024	ND	2.02	101	2.00	3.65	
Total Xylenes*	73.1	3.00	10/10/2024	ND	6.03	101	6.00	3.46	
Total BTEX	119	6.00	10/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 142 % 77.5-125

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/11/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg	Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	2060	50.0	10/10/2024	ND	193	96.7	200	3.34	
DRO >C10-C28*	32700	50.0	10/10/2024	ND	195	97.5	200	1.93	
EXT DRO >C28-C36	6040	50.0	10/10/2024	ND					

Surrogate: 1-Chlorooctane 469 % 48.2-134

Surrogate: 1-Chlorooctadecane 800 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 10/10/2024
 Reported: 10/16/2024
 Project Name: RIGEL 20 FED 3
 Project Number: 248823
 Project Location: DEVON - EDDY CO, NM

Sampling Date: 10/10/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DS - 1 2' (H246174-02)

BTEx 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	62.5	2.00	10/11/2024	ND	2.05	103	2.00	4.21	
Toluene*	329	2.00	10/11/2024	ND	2.00	99.8	2.00	3.75	
Ethylbenzene*	162	2.00	10/11/2024	ND	2.02	101	2.00	3.65	
Total Xylenes*	336	6.00	10/11/2024	ND	6.03	101	6.00	3.46	
Total BTEX	889	12.0	10/11/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 139 % 77.5-125

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/11/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg	Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	7680	50.0	10/10/2024	ND	193	96.7	200	3.34	
DRO >C10-C28*	19500	50.0	10/10/2024	ND	195	97.5	200	1.93	
EXT DRO >C28-C36	3240	50.0	10/10/2024	ND					

Surrogate: 1-Chlorooctane 600 % 48.2-134

Surrogate: 1-Chlorooctadecane 316 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 10/10/2024
 Reported: 10/16/2024
 Project Name: RIGEL 20 FED 3
 Project Number: 248823
 Project Location: DEVON - EDDY CO, NM

Sampling Date: 10/10/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DS - 1 3' (H246174-03)

BTEX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	14.2	0.500	10/11/2024	ND	2.05	103	2.00	4.21	
Toluene*	56.5	0.500	10/11/2024	ND	2.00	99.8	2.00	3.75	
Ethylbenzene*	25.5	0.500	10/11/2024	ND	2.02	101	2.00	3.65	
Total Xylenes*	48.8	1.50	10/11/2024	ND	6.03	101	6.00	3.46	
Total BTEX	145	3.00	10/11/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 128 % 77.5-125

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/11/2024	ND	432	108	400	3.77	

TPH 8015M	mg/kg		Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	813	10.0	10/10/2024	ND	193	96.7	200	3.34	
DRO >C10-C28*	1660	10.0	10/10/2024	ND	195	97.5	200	1.93	
EXT DRO >C28-C36	254	10.0	10/10/2024	ND					

Surrogate: 1-Chlorooctane 143 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 10/10/2024
 Reported: 10/16/2024
 Project Name: RIGEL 20 FED 3
 Project Number: 248823
 Project Location: DEVON - EDDY CO, NM

Sampling Date: 10/10/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DS - 1 4' (H246174-04)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	18.7	1.00	10/14/2024	ND	2.06	103	2.00	3.05	QM-07
Toluene*	117	1.00	10/14/2024	ND	2.18	109	2.00	1.56	QM-07
Ethylbenzene*	59.8	1.00	10/14/2024	ND	2.34	117	2.00	4.77	QM-07
Total Xylenes*	113	3.00	10/14/2024	ND	7.05	118	6.00	6.13	QM-07
Total BTEX	308	6.00	10/14/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/11/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	3600	50.0	10/10/2024	ND	193	96.7	200	3.34		
DRO >C10-C28*	9470	50.0	10/10/2024	ND	195	97.5	200	1.93		
EXT DRO >C28-C36	1620	50.0	10/10/2024	ND						

Surrogate: 1-Chlorooctane 262 % 48.2-134

Surrogate: 1-Chlorooctadecane 161 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 10/10/2024
 Reported: 10/16/2024
 Project Name: RIGEL 20 FED 3
 Project Number: 248823
 Project Location: DEVON - EDDY CO, NM

Sampling Date: 10/10/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DS - 1 5' (H246174-05)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	40.7	2.00	10/14/2024	ND	2.06	103	2.00	3.05	
Toluene*	215	2.00	10/14/2024	ND	2.18	109	2.00	1.56	
Ethylbenzene*	96.2	2.00	10/14/2024	ND	2.34	117	2.00	4.77	
Total Xylenes*	183	6.00	10/14/2024	ND	7.05	118	6.00	6.13	
Total BTEX	535	12.0	10/14/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/11/2024	ND	432	108	400	3.77	

TPH 8015M	mg/kg		Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	5730	50.0	10/10/2024	ND	193	96.7	200	3.34	
DRO >C10-C28*	12200	50.0	10/10/2024	ND	195	97.5	200	1.93	
EXT DRO >C28-C36	2020	50.0	10/10/2024	ND					

Surrogate: 1-Chlorooctane 385 % 48.2-134

Surrogate: 1-Chlorooctadecane 198 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 10/10/2024
 Reported: 10/16/2024
 Project Name: RIGEL 20 FED 3
 Project Number: 248823
 Project Location: DEVON - EDDY CO, NM

Sampling Date: 10/10/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DS - 1 6' (H246174-06)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	54.8	2.00	10/14/2024	ND	2.06	103	2.00	3.05	
Toluene*	259	2.00	10/14/2024	ND	2.18	109	2.00	1.56	
Ethylbenzene*	114	2.00	10/14/2024	ND	2.34	117	2.00	4.77	
Total Xylenes*	202	6.00	10/14/2024	ND	7.05	118	6.00	6.13	
Total BTEX	630	12.0	10/14/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/11/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	6410	50.0	10/10/2024	ND	193	96.7	200	3.34	
DRO >C10-C28*	12600	50.0	10/10/2024	ND	195	97.5	200	1.93	
EXT DRO >C28-C36	1910	50.0	10/10/2024	ND					

Surrogate: 1-Chlorooctane 397 % 48.2-134

Surrogate: 1-Chlorooctadecane 200 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 10/10/2024
 Reported: 10/16/2024
 Project Name: RIGEL 20 FED 3
 Project Number: 248823
 Project Location: DEVON - EDDY CO, NM

Sampling Date: 10/10/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DS - 1 7' (H246174-07)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	46.6	2.00	10/14/2024	ND	2.06	103	2.00	3.05	
Toluene*	233	2.00	10/14/2024	ND	2.18	109	2.00	1.56	
Ethylbenzene*	106	2.00	10/14/2024	ND	2.34	117	2.00	4.77	
Total Xylenes*	188	6.00	10/14/2024	ND	7.05	118	6.00	6.13	
Total BTEX	573	12.0	10/14/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/11/2024	ND	432	108	400	3.77	

TPH 8015M	mg/kg		Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	6920	50.0	10/10/2024	ND	193	96.7	200	3.34	
DRO >C10-C28*	13200	50.0	10/10/2024	ND	195	97.5	200	1.93	
EXT DRO >C28-C36	2180	50.0	10/10/2024	ND					

Surrogate: 1-Chlorooctane 420 % 48.2-134

Surrogate: 1-Chlorooctadecane 212 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 10/10/2024
 Reported: 10/16/2024
 Project Name: RIGEL 20 FED 3
 Project Number: 248823
 Project Location: DEVON - EDDY CO, NM

Sampling Date: 10/10/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DS - 1 8' (H246174-08)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	41.4	2.00	10/14/2024	ND	2.06	103	2.00	3.05	
Toluene*	217	2.00	10/14/2024	ND	2.18	109	2.00	1.56	
Ethylbenzene*	100	2.00	10/14/2024	ND	2.34	117	2.00	4.77	
Total Xylenes*	180	6.00	10/14/2024	ND	7.05	118	6.00	6.13	
Total BTEX	538	12.0	10/14/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	10/11/2024	ND	432	108	400	3.77		

TPH 8015M	mg/kg		Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	5490	50.0	10/10/2024	ND	193	96.7	200	3.34	
DRO >C10-C28*	10400	50.0	10/10/2024	ND	195	97.5	200	1.93	
EXT DRO >C28-C36	1550	50.0	10/10/2024	ND					

Surrogate: 1-Chlorooctane 331 % 48.2-134

Surrogate: 1-Chlorooctadecane 169 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 10/10/2024
 Reported: 10/16/2024
 Project Name: RIGEL 20 FED 3
 Project Number: 248823
 Project Location: DEVON - EDDY CO, NM

Sampling Date: 10/10/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DS - 1 9' (H246174-09)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	37.8	2.00	10/14/2024	ND	2.06	103	2.00	3.05	
Toluene*	211	2.00	10/14/2024	ND	2.18	109	2.00	1.56	
Ethylbenzene*	101	2.00	10/14/2024	ND	2.34	117	2.00	4.77	
Total Xylenes*	182	6.00	10/14/2024	ND	7.05	118	6.00	6.13	
Total BTEX	533	12.0	10/14/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/11/2024	ND	432	108	400	3.77	

TPH 8015M	mg/kg		Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	5750	50.0	10/10/2024	ND	193	96.7	200	3.34	
DRO >C10-C28*	11400	50.0	10/10/2024	ND	195	97.5	200	1.93	
EXT DRO >C28-C36	1710	50.0	10/10/2024	ND					

Surrogate: 1-Chlorooctane 353 % 48.2-134

Surrogate: 1-Chlorooctadecane 182 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 10/10/2024
 Reported: 10/16/2024
 Project Name: RIGEL 20 FED 3
 Project Number: 248823
 Project Location: DEVON - EDDY CO, NM

Sampling Date: 10/10/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DS - 1 10' (H246174-10)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	4.57	0.200	10/14/2024	ND	2.06	103	2.00	3.05	
Toluene*	29.2	0.200	10/14/2024	ND	2.18	109	2.00	1.56	
Ethylbenzene*	9.09	0.200	10/14/2024	ND	2.34	117	2.00	4.77	
Total Xylenes*	13.8	0.600	10/14/2024	ND	7.05	118	6.00	6.13	
Total BTEX	56.7	1.20	10/14/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/11/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	161	10.0	10/10/2024	ND	193	96.7	200	3.34	
DRO >C10-C28*	72.6	10.0	10/10/2024	ND	195	97.5	200	1.93	
EXT DRO >C28-C36	<10.0	10.0	10/10/2024	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 10/10/2024
 Reported: 10/16/2024
 Project Name: RIGEL 20 FED 3
 Project Number: 248823
 Project Location: DEVON - EDDY CO, NM

Sampling Date: 10/10/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DS - 1 11' (H246174-11)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/14/2024	ND	2.06	103	2.00	3.05		
Toluene*	<0.050	0.050	10/14/2024	ND	2.18	109	2.00	1.56		
Ethylbenzene*	<0.050	0.050	10/14/2024	ND	2.34	117	2.00	4.77		
Total Xylenes*	<0.150	0.150	10/14/2024	ND	7.05	118	6.00	6.13		
Total BTX	<0.300	0.300	10/14/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/11/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/10/2024	ND	193	96.7	200	3.34	
DRO >C10-C28*	<10.0	10.0	10/10/2024	ND	195	97.5	200	1.93	
EXT DRO >C28-C36	<10.0	10.0	10/10/2024	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: NTGE		BILL TO		ANALYSIS REQUEST																									
Project Manager: Ethan Sessums		P.O. #: 21357562																											
Address: 209 West McClellan St		Company: Devon																											
City: Carlsbad		Attn:																											
State: NM zip: 88220		Address:																											
Phone #:		City:																											
Project #: 248823		Project Owner: Devon																											
Project Name: Rigel 20 CTB 3		State:																											
Project Location: Eddy County		Zip:																											
Sampler Name: Kenny H, Clayport		Phone #:																											
Fax #:		Fax #:																											
FOR LAB USE ONLY		MATRIX		PRESERV		SAMPLING																							
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME	
H246174		03-1		1'		6-1		X																		10/10			
1		03-1		2'																									
2		03-1		3'																									
3		03-1		4'																									
4		03-1		5'																									
5		03-1		6'																									
6		03-1		7'																									
7		03-1		8'																									
8		03-1		9'																									
9		03-1		10'																									
10		03-1																											
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Relinquished By: [Signature]		Date: 10/10		Received By: Jessica Delaney		Date: 10/10		Time: 12:23		Time: 12:23		Time: 12:23		Time: 12:23		Time: 12:23		Time: 12:23		Time: 12:23		Time: 12:23		Time: 12:23		Time: 12:23		Time: 12:23	
Delivered By: (Circle One)		Observed Temp. °C		Corrected Temp. °C		Sample Condition		CHECKED BY: (Initials)		Turnaround Time:		Standard		Bacteria (only)		Sample Condition		Observed Temp. °C		Corrected Temp. °C		Cool		Intact		Yes		No	
Sampler - UPS - Bus - Other:		3.8		3.2		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		JO		140		Rush		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Observed		Temp. °C		Corrected		<input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No			
† Cardinal cannot accept verbal changes. Please email changes to cefey.keene@cardinallabsnm.com																													



NTGE

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

QUESTIONS

Action 404548

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 404548
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2416525018
Incident Name	NAPP2416525018 RIGEL 20 FED 3H BATTERY @ 0
Incident Type	Oil Release
Incident Status	Deferral Request Received
Incident Facility	[fAPP2130625022] RIGEL 20 FED 3H BATTERY

Location of Release Source	
Please answer all the questions in this group.	
Site Name	RIGEL 20 FED 3H BATTERY
Date Release Discovered	06/12/2024
Surface Owner	Federal

Incident Details	
Please answer all the questions in this group.	
Incident Type	Oil Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Equipment Failure Flow Line - Production Crude Oil Released: 14 BBL Recovered: 2 BBL Lost: 12 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Lease Operator saw an active oil leak on an oil line connected to the VRT. All production was shut in to stop the leak. Truck called to recovered oil on pad. 2 bbls recovered.

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QUESTIONS, Page 2

Action 404548

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 404548
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	A vacuum truck was dispatched to recover oil on pad. Two bbls recovered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dv.com Date: 11/19/2024
--	---

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QUESTIONS, Page 3

Action 404548

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 404548
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Site Characterization	
<i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 75 and 100 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Between 1 and 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	592
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	27890
GRO+DRO (EPA SW-846 Method 8015M)	22990
BTEX (EPA SW-846 Method 8021B or 8260B)	97.5
Benzene (EPA SW-846 Method 8021B or 8260B)	0.6
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	08/26/2024
On what date will (or did) the final sampling or liner inspection occur	09/26/2024
On what date will (or was) the remediation complete(d)	10/01/2024
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	414
What is the estimated volume (in cubic yards) that will be remediated	70
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 4

Action 404548

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 404548
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	LEA LAND LANDFILL [fEEM0112342028]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	No
OR is the off-site disposal site, to be used, an NMED facility	No
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dmn.com Date: 07/17/2024
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS, Page 5

Action 404548

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 404548
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Deferral Requests Only	
<i>Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction	Yes
Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction	Major facility piping and would cause the facility to be shutdown.
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	344
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	140
<i>Per Paragraph (2) of Subsection C of 19.15.29.12 NMAC if contamination is located in areas immediately under or around production equipment such as production tanks, wellheads and pipelines where remediation could cause a major facility deconstruction, the remediation, restoration and reclamation may be deferred with division written approval until the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first.</i>	
Enter the facility ID (f#) on which this deferral should be granted	RIGEL 20 FED 3H BATTERY [fAPP2130625022]
Enter the well API (30-) on which this deferral should be granted	Not answered.
Contamination does not cause an imminent risk to human health, the environment, or groundwater	True
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dv.com Date: 11/19/2024

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QUESTIONS, Page 6

Action 404548

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 404548
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	390663
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/10/2024
What was the (estimated) number of samples that were to be gathered	15
What was the sampling surface area in square feet	1200

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	No
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CONDITIONS

Action 404548

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 404548
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

CONDITIONS

Created By	Condition	Condition Date
nvez	Deferral is approved. Remediation Due date will be left open until the site has been plugged and abandoned or a major facility deconstruction takes place	3/6/2025