

Incident ID	NAB1511038592
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>22</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: *Each of the following items must be included in the report.*

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico
Oil Conservation Division

Page 4

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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.

Printed Name: Dale Woodall Title: EHS Professional
Signature: Dale Woodall Date: 1/3/2023
email: dale.woodall@dvn.com Telephone: 575-748-1838

OCD Only

Received by: Jocelyn Harimon Date: 01/03/2023

Incident ID	NAB1511038592
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Application ID	

Closure

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

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

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

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

Printed Name: Dale Woodall Title: EHS Professional
Signature: Dale Woodall Date: 1/3/2023
email: dale.woodall@dvn.com Telephone: 575-748-1838

OCD Only

Received by: Jocelyn Harimon Date: 01/03/2023

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

Closure Approved by: Ashley Maxwell Date: 1/04/2023
Printed Name: Ashley Maxwell Title: Environmental Specialist



Pima Environmental Services
5614 N. Lovington Highway
Hobbs, NM 88240
575-964-7740

January 3, 2023

Bureau of Land Management
 620 East Green St
 Carlsbad, NM, 88220

NMOCD District 2
 811 S. First St
 Artesia, NM, 88210

RE: Site Assessment, Liner Inspection, and Closure Report
Rigel 20 Federal Com #003H
API No. 30-015-39725
GPS: Latitude 32.6435781 Longitude -103.8989164
ULSTR – "L", 20, 19S, 31E
NMOCD Reference No. NAB1511038592

Devon Energy Production Company (Devon) has contracted Pima Environmental Services, LLC (Pima) to perform a site assessment, liner inspection, and prepare this closure report for a crude oil/produced water mixed release that happened at the Rigel 20 Federal Com #003H (Rigel). An initial C-141 was submitted on April 20, 2015, and can be found in Appendix C. This incident was assigned Incident ID NAB1511038592, by the New Mexico Oil Conservation Division (NMOCD).

Site Information and Site Characterization

The Rigel is located approximately thirteen (13) miles South of Loco Hills, NM. This spill site is in Unit L, Section 20, Township 19S, Range 31E, Latitude 32.6435781 Longitude -103.8989164, Eddy County, NM. A Location Map can be found in Figure 1.

Per the New Mexico Bureau of Geology and Mineral Resources, the geology is made up of Eolian and piedmont deposits. Interlayered eolian sands and piedmont-slope deposits along the eastern flank of the Pecos River valley, primarily between Roswell and Carlsbad. Typically capped by thin eolian deposits. The soil in this area is made up of Kermit-Berino fine sands, 0 to 3 percent slopes according to the United States Department of Agriculture Natural Resources Conservation Service soil survey (Appendix B). The drainage courses in this area are excessively drained. There is a medium potential for karst geology to be present around the Rigel (Figure 3).

Based upon New Mexico Office of the State Engineer well water data, depth to the nearest groundwater in this area is 180 feet below-grade surface (BGS). According to the United States Geological Survey well water data, depth to the nearest groundwater in this area is 22 feet BGS. The closest waterway is Hackberry Lake approximately 1.91 miles to the west of this location. See Appendix A for referenced water surveys.

Table 1 NMAC and Closure Criteria 19.15.29

Depth to Groundwater (Appendix A)	Constituent & Limits				
	Chlorides	Total TPH	GRO+DRO	BTEX	Benzene
<50' (Lack of GW data)	600 mg/kg	100 mg/kg		50 mg/kg	10 mg/kg
51-100'	10,000 mg/kg	2,500 mg/kg	1,000 mg/kg	50 mg/kg	10 mg/kg
>100'	20,000 mg/kg	2,500 mg/kg	1,000 mg/kg	50 mg/kg	10 mg/kg

A Topographic Map can be found in Figure 2.

Release Information

NAB1511038592: On April 14, 2015, the Lease Operator arrived at the Rigel 20 Fed 3H and discovered the vent tank was overflowing. The DCP line psi had been high overnight, and this caused the 2-Phase Production Separator back psi valve to hang open and equalize the 2-Phase Separator and Heater Treater this would not allow the 2-Phase to dump into the Heater Treater and caused a release of 75 bbls of oil and produced water mixture into the lined containment and a ½-bbl oil and produced water mist into the pasture. The 75 bbls was in a lined containment and all 75 bbls were recovered by vac truck. The pasture area was a 20x150 area to the Southwest of the location with ½-bbl mist from the back psi valve on the 2-phase separator this will be raked up and pressure washed with Dawn soap. The liner was checked for holes and no holes were found.

Site Assessment and Liner Inspection

On July 27, 2020, Pima Environmental conducted a site assessment and obtained composite soil samples to verify that the liner had not been breached, and the integrity was still intact. Location and background samples were also obtained in the pasture to ensure that the fluids expelled into the pasture had not contaminated the soil. The laboratory results of this sampling event can be found in the following data table.

7-27-20 Soil Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')								
DEVON ENERGY - RIGEL 20 FED COM #3H								
Date: 7/27/20		NM Approved Laboratory Results						
Sample ID	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
S-1 N. Composite	0-6"	ND	ND	ND	ND	ND	0	1150
S-2 S. Composite	0-6"	ND	ND	ND	ND	ND	0	1700
S-3 E. Composite	0-6"	ND	ND	ND	ND	ND	0	96
S-4 W. Composite	0-6"	ND	ND	ND	646	164	810	9030
S-5	0-6"	ND	ND	ND	ND	ND	0	4480
	1'	ND	ND	ND	ND	ND	0	1480
	2'	ND	ND	ND	ND	ND	0	976
	3'	ND	ND	ND	ND	ND	0	864
S-6	0-6"	ND	ND	ND	ND	ND	0	224
	1'	ND	ND	ND	ND	ND	0	96
	2'	ND	ND	ND	ND	ND	0	128
	3'	ND	ND	ND	ND	ND	0	128
S-7	0-6"	ND	ND	ND	ND	ND	0	48
	1'	ND	ND	ND	ND	ND	0	32
	2'	ND	ND	ND	ND	ND	0	32
	3'	ND	ND	ND	ND	ND	0	16
BG-1	0-6"	ND	ND	ND	ND	ND	0	320
BG-2	0-6"	ND	ND	ND	ND	ND	0	ND
BG-3	0-6"	ND	ND	ND	ND	ND	0	ND
BG-4	0-6"	ND	ND	ND	ND	ND	0	ND
BG-5	0-6"	ND	ND	ND	ND	ND	0	ND
BG-6	0-6"	ND	ND	ND	ND	ND	0	32
BG-7	0-6"	ND	ND	ND	ND	ND	0	ND
BG-8	0-6"	ND	ND	ND	ND	ND	0	64

ND – Analyte Not Detected

Remediation Activities

On July 2, 2022, after sending the 48-hour notification email, Pima Environmental conducted a liner inspection at this location. We concluded that this liner and containment maintained its integrity and was able to retain the fluids. The liner inspection form and photographic documentation can be found in Appendix C.

On December 6, 2022, following the NMOCD's rejection of the previous closure report, Pima personnel returned to the site to collect new sample data from the overspray area. The laboratory results from this sampling event can be seen in the following data table.

12-6-2022 Soil Sampling Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')								
DEVON ENERGY - RIGEL 20 FED COM #3H								
Date: 12/6/22		NM Approved Laboratory Results						
Sample ID	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
BG-1	6"	ND	ND	ND	ND	ND	0	ND
SW-1	1'	ND	ND	ND	ND	ND	0	ND
SW-2	1'	ND	ND	ND	ND	ND	0	ND
SW-3	1'	ND	ND	ND	ND	ND	0	ND
S-1 1'	1'	ND	ND	ND	ND	ND	0	ND
S-1 2'	2'	ND	ND	ND	ND	ND	0	ND
S-2 1'	1'	ND	ND	ND	ND	ND	0	ND
S-2 2'	2'	ND	ND	ND	ND	ND	0	ND

ND – Analyte Not Detected

On December 13, 2022, Pima returned to the site to collect new sample data from around the secondary containment. The results of this sampling event can be found in the following data table.

12-13-2022

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')								
DEVON ENERGY - RIGEL 20 FED COM #3H								
Date: 12/13/2022		NM Approved Laboratory Results						
Sample ID	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
S1-N Comp	1'	ND	ND	ND	ND	ND	0	ND
S1-N Comp	2'	ND	ND	ND	ND	ND	0	ND
S2-S Comp	1'	ND	ND	ND	ND	ND	0	ND
S2-S Comp	2'	ND	ND	ND	ND	ND	0	ND
S3-E Comp	1'	ND	ND	ND	ND	ND	0	ND
S3-E Comp	2'	ND	ND	ND	ND	ND	0	ND
S4-W Comp	1'	ND	ND	ND	ND	ND	0	ND
S4-W Comp	2'	ND	ND	ND	ND	ND	0	ND
S5	6"	ND	ND	ND	ND	ND	0	ND
S5	2'	ND	ND	ND	ND	ND	0	ND
S5	4'	ND	ND	ND	ND	ND	0	ND

ND – Analyte Not Detected

Complete Laboratory Reports can be found in Appendix E.

Based on the new sample data collected, it is confirmed that contamination from this incident has been neutralized due to the combination of natural attenuation, several non-reportable spill clean-up efforts, and basic on-going site maintenance over the last 7 years.

Closure Request

After careful review, Pima requests that this incident, NAB1511038592 be closed. Devon has complied with the applicable closure requirements.

Should you have any questions or need additional information, please feel free to contact Tom Bynum at 575-964-7740 or tom@pimaoil.com.

Attachments

Figures:

- 1- Location Map
- 2- Topographic Map
- 3- Karst Map
- 4- Site Maps

Appendices:

- Appendix A- Referenced Water Surveys
- Appendix B- Soil Survey & Geological Data
- Appendix C- C-141 Form & 48-Hour Notification
- Appendix D- Liner Inspection Form & Photographic Documentation
- Appendix E- Laboratory Reports



Pima Environmental Services

Figures:

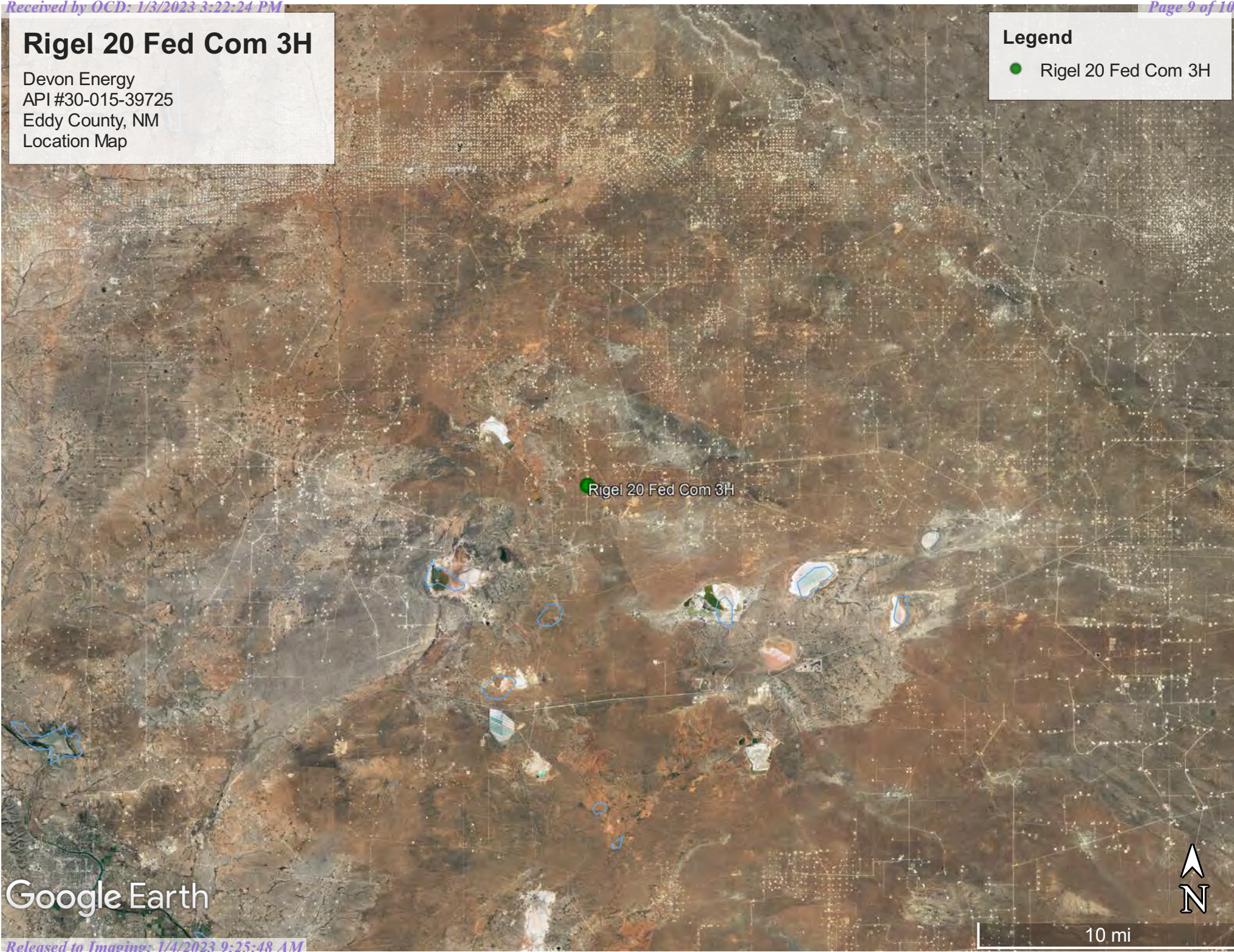
- 1 - Location Map
- 2 - Topographic Map
- 3 - Karst Map
- 4 - Site Maps

Rigel 20 Fed Com 3H

Devon Energy
API #30-015-39725
Eddy County, NM
Location Map

Legend

● Rigel 20 Fed Com 3H

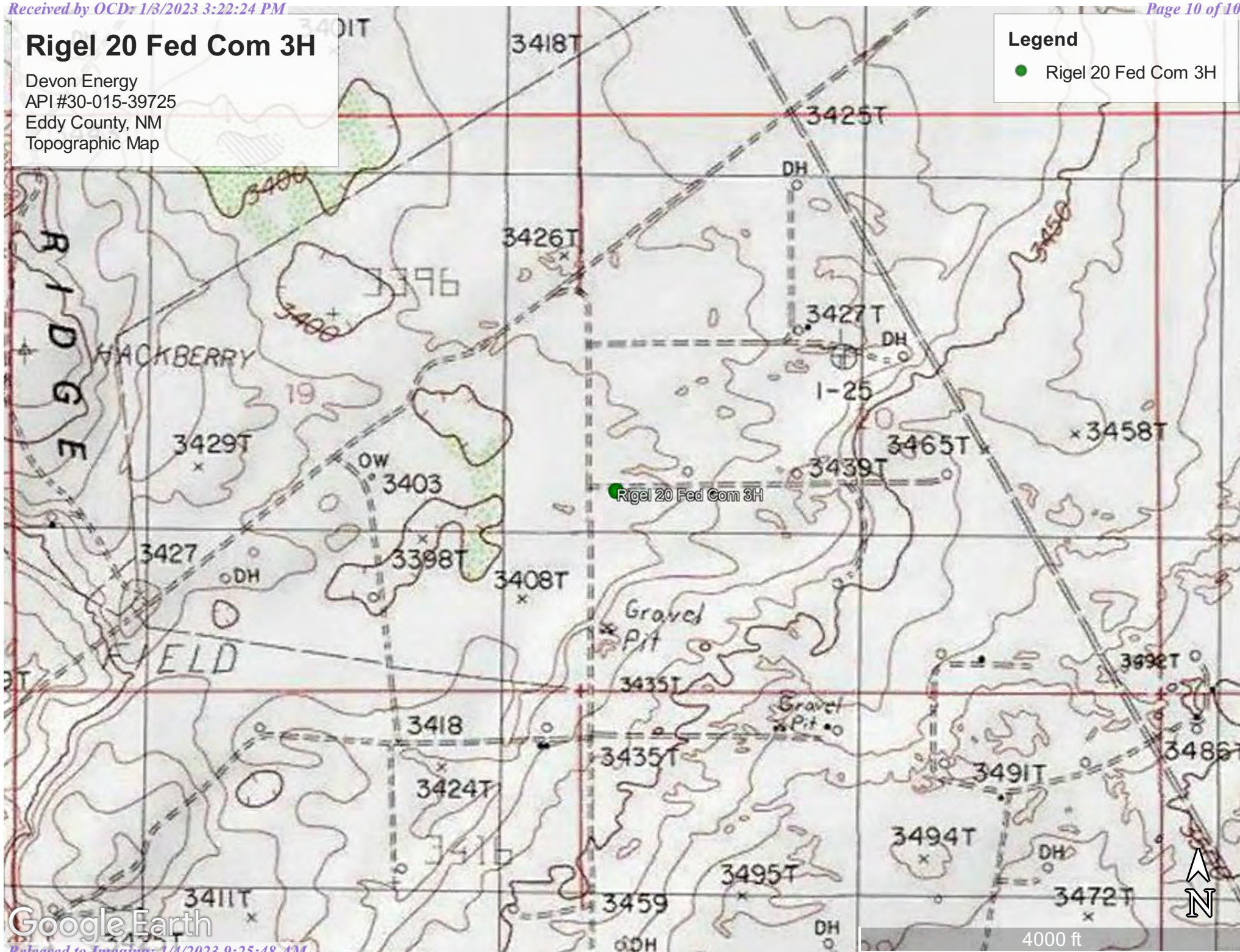


Google Earth

10 mi

Devon Energy
API #30-015-39725
Eddy County, NM
Topographic Map

- Rigel 20 Fed Com 3H



Rigel 20 Fed Com 3H

Devon Energy
API #30-015-39725
Eddy County, NM
Karst Map

- Legend**
- High Karst
 - Low Karst
 - Medium Karst

Rigel 20 Fed Com 3H

Google Earth



1 mi

Devon Energy

Rigel 20 Fed Com #3H
API 30-015-39725
Eddy County, NM
Site Map-Original

Legend

○ Samples



Google Earth

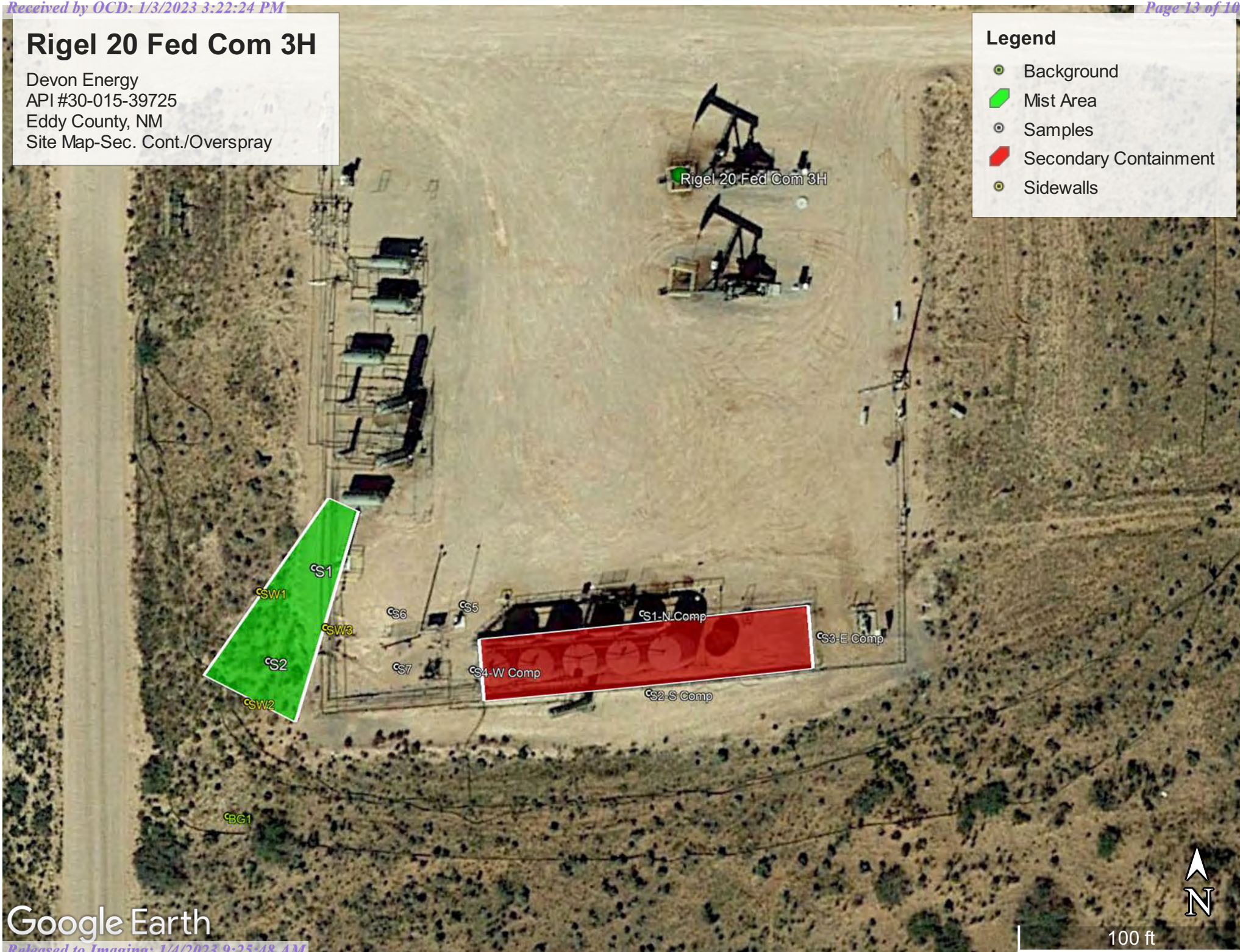
200 ft

Rigel 20 Fed Com 3H

Devon Energy
API #30-015-39725
Eddy County, NM
Site Map-Sec. Cont./Overspray

Legend

- Background
- Mist Area
- Samples
- Secondary Containment
- Sidewalls





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Appendix A

Water Surveys:

OSE

USGS

Surface Water Map



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Code	Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
CP 00873 POD1		CP	LE	1	1	19	19S	31E		601772	3613147*	1719	340	180	160
CP 00725 POD1		CP	ED	1	3	3	28	19S	31E	604906	3610473*	2457	231		
CP 00357 POD1		CP	ED	4	4	1	24	19S	30E	600667	3612631*	2626	630		
CP 00722 POD1		CP	LE	4	3	3	28	19S	31E	605106	3610273*	2739	200		
CP 00722 POD1	R	CP	LE	4	3	3	28	19S	31E	605106	3610273*	2739	200		
CP 00723 POD1		CP	ED	2	1	1	33	19S	31E	605111	3610071*	2896	139		
CP 00357 POD2		CP	ED	4	3	1	24	19S	30E	600265	3612627*	3025	630		
CP 00722 POD2		CP	ED	2	1	1	25	19S	30E	600276	3611620*	3076	350	65	285
CP 00829 POD1		CP	LE	2	4	16	19S	31E		606165	3614009*	3353	120		
CP 00722 POD3		CP	LE	2	4	1	33	19S	31E	605519	3609673*	3463	220	140	80

Average Depth to Water: **128 feet**

Minimum Depth: **65 feet**

Maximum Depth: **180 feet**

Record Count: 10

UTMNAD83 Radius Search (in meters):

Easting (X): 603273.76

Northing (Y): 3612309.82

Radius: 4000

*UTM location was derived from PLSS - see Help

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

6/30/22 3:23 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER



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National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater

Geographic Area:

United States

GO

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- Explore the *NEW* [USGS National Water Dashboard](#) interactive map to access real-time water data from over 13,500 stations nationwide.
- [Full News](#) 

Groundwater levels for the Nation

 Important: [Next Generation Monitoring Location Page](#)

Search Results -- 1 sites found

site_no list =

- 323810103554201

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 323810103554201 19S.30E.25.12133

Available data for this site

Groundwater: Field measurements

GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°38'10", Longitude 103°55'42" NAD27

Land-surface elevation 3,248 feet above NAVD88

The depth of the well is 42 feet below land surface.

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Rustler Formation (312RSLR) local aquifer.

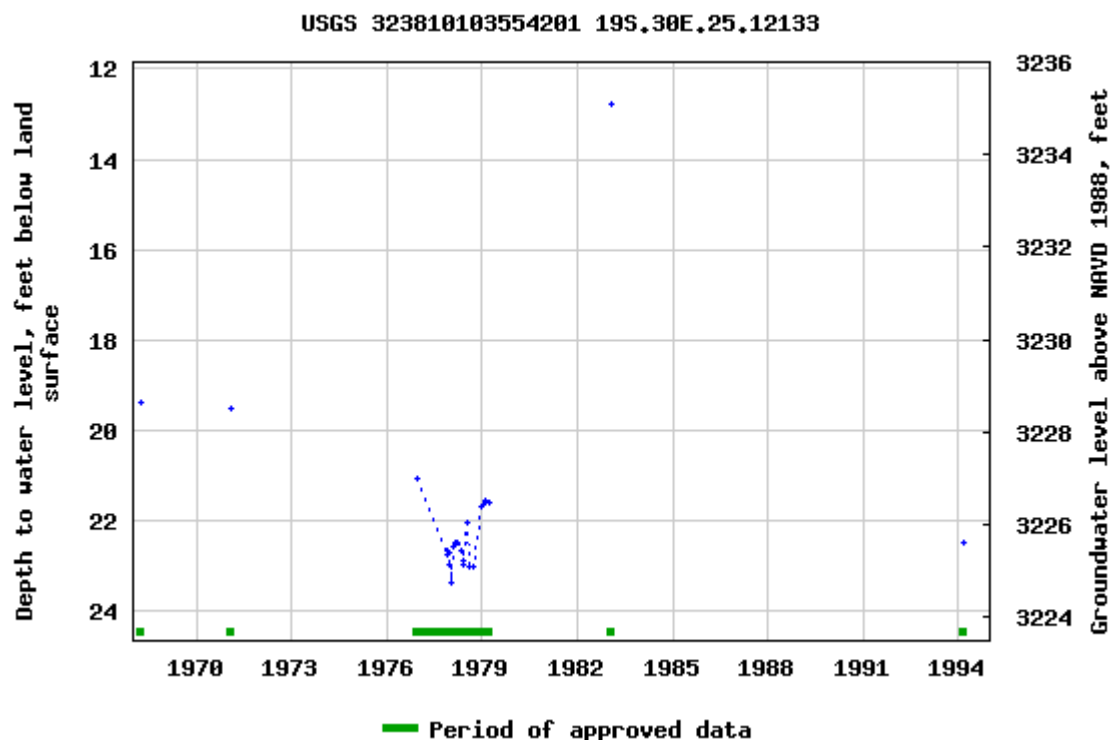
Output formats

[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)



Breaks in the plot represent a gap of at least one year between field measurements.

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Title: Groundwater for USA: Water Levels

URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>



Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2022-06-30 16:47:11 EDT

0.7 0.63 nadww01

Rigel 20 Fed Com 3H

Devon Energy
API #30-015-39725
Eddy County, NM
Surface Water Map

Legend

- 1.91 Miles
- Hackberry Lake



Google Earth



Pima Environmental Services

Appendix B

Soil Survey & Geological Data

FEMA Flood Map

Wetlands Map

Map Unit Description: Kermit-Berino fine sands, 0 to 3 percent slopes---Eddy Area, New Mexico

Eddy Area, New Mexico

KM—Kermit-Berino fine sands, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 1w4q

Elevation: 3,100 to 4,200 feet

Mean annual precipitation: 10 to 14 inches

Mean annual air temperature: 60 to 64 degrees F

Frost-free period: 190 to 230 days

Farmland classification: Not prime farmland

Map Unit Composition

Kermit and similar soils: 50 percent

Berino and similar soils: 35 percent

Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Kermit

Setting

Landform: Plains, alluvial fans

Landform position (three-dimensional): Talf, rise

Down-slope shape: Convex, linear

Across-slope shape: Linear

Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 7 inches: fine sand

H2 - 7 to 60 inches: fine sand

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Excessively drained

Runoff class: Negligible

Capacity of the most limiting layer to transmit water (Ksat): Very high (20.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Maximum salinity: Nonsaline (0.0 to 1.0 mmhos/cm)

Sodium adsorption ratio, maximum: 1.0

Available water supply, 0 to 60 inches: Low (about 3.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: A

Ecological site: R070BD005NM - Deep Sand

Hydric soil rating: No

Map Unit Description: Kermit-Berino fine sands, 0 to 3 percent slopes---Eddy Area, New Mexico

Description of Berino

Setting

Landform: Plains, fan piedmonts
Landform position (three-dimensional): Riser
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 17 inches: fine sand
H2 - 17 to 50 inches: fine sandy loam
H3 - 50 to 58 inches: loamy sand

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 40 percent
Maximum salinity: Very slightly saline to slightly saline (2.0 to 4.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Moderate (about 7.2 inches)

Interpretive groups

Land capability classification (irrigated): 4e
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: B
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Minor Components

Active dune land

Percent of map unit: 15 percent
Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico
Survey Area Data: Version 18, Sep 8, 2022

National Flood Hazard Layer FIRMMette



103°54'15"W 32°38'52"N



Legend

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

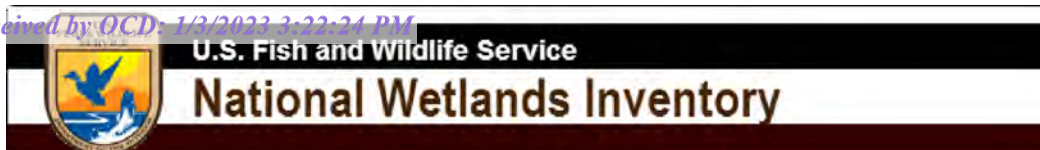
SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
		NO SCREEN Area of Minimal Flood Hazard Zone X
OTHER AREAS		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 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.

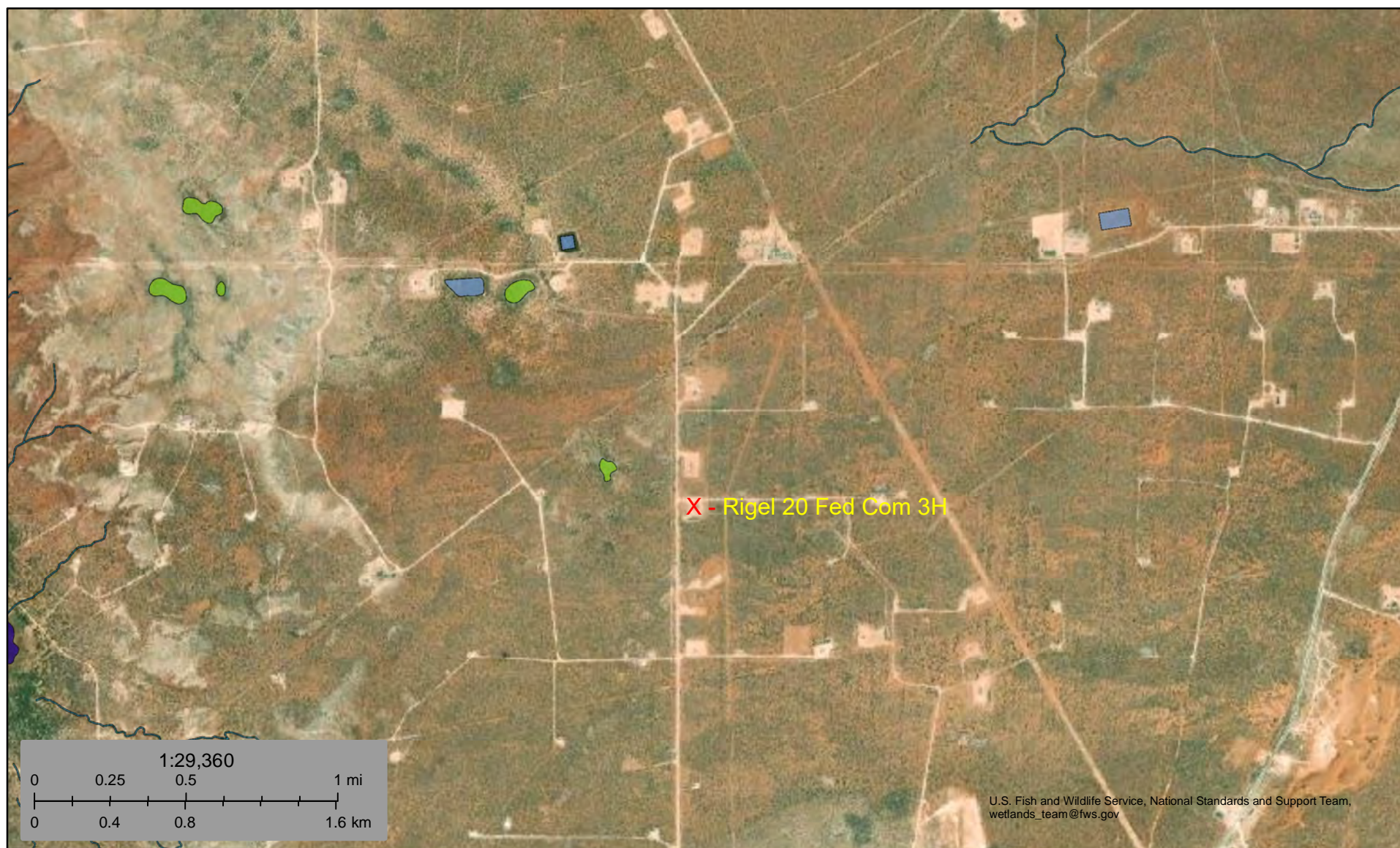
This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **12/13/2022 at 12:43 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.



Wetlands Map



December 13, 2022

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.



Pima Environmental Services

Appendix C

C-141 Form

48-Hour Notification

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

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

ARTESIA DISTRICT

APR 17 2015

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in
conformance with 19.15.29 NMAC.

RECEIVED

Release Notification and Corrective Action

NAB1511038592

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company Devon Energy Production	Contact Rudy Zuniga, Production Foreman
Address 6488 Seven Rivers Hwy Artesia, NM 88220	Telephone No. 575-390-5435
Facility Name Rigel 20 Fed 3H	Facility Type Oil

Surface Owner Federal	Mineral Owner Federal	API No. 30-015-39725
-----------------------	-----------------------	----------------------

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
L	20	19S	31E	1800	FSL	330	FWL	Eddy

Latitude: 32.6435781°N

Longitude: 103.8989164°W

NATURE OF RELEASE

Type of Release Spill of Oil/Produced Water	Volume of Release 75.5bbls	Volume Recovered 75bbls
Source of Release 2-Phase Separator	Date and Hour of Occurrence April 14, 2015 9:00AM	Date and Hour of Discovery April 14, 2015 9:00 AM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Jeff Robertson, BLM Mike Bratcher, OCD	
By Whom? Ray Carter, Asst. Production Foreman	Date and Hour Jeff Robertson, BLM April 14, 2015 10:30 AM Mike Bratcher, OCD April 14, 2015 11:00 AM	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse N/A	
If a Watercourse was Impacted, Describe Fully.* N/A		

Describe Cause of Problem and Remedial Action Taken.*

On April 14, 2105 9:00 AM the Lease Operator arrived at the Rigel 20 Fed 3H and discovered the vent tank was over flowing. The DCP line psi had been high overnight and this caused the 2-Phase Production Separator back psi valve to hang open and equalize the 2-Phase Separator and Heater Treator this would not allow the 2-Phase to dump into the Heater Treator and caused a release of 75bbls of oil and produced water mixture into the lined containment and a 1/2bbl oil and produced water mist into the pasture.

Describe Area Affected and Cleanup Action Taken.*

The 75bbls was in a lined containment and all 75bbls were recovered by vac truck. The pasture area was a 20x150 area to the Southwest of the location with 1/2bbl mist from the back psi valve on the 2-phase separator this will be raked up and pressure washed with Dawn soap. The liner was checked for holes and no holes were found.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature: Sheila Fisher	OIL CONSERVATION DIVISION	
Printed Name: Sheila Fisher	Signed By <i>Mike Bratcher</i>	
Title: Field Admin Support	Approved by Environmental Specialist:	
E-mail Address: Sheila.Fisher@dvn.com	Approval Date: 4/20/15	Expiration Date: N/A
Date: 4/17/15 Phone: 575.748.1829	Conditions of Approval: Remediation per O.C.D. Rules & Guidelines SUBMIT REMEDIATION PROPOSAL NO LATER THAN: 5/20/15	

Attached ☐

* Attach Additional Sheets If Necessary

2RP-2960

Incident ID	NAB1511038592
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>22</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: *Each of the following items must be included in the report.*

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	NAB1511038592
District RP	
Facility ID	
Application ID	

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.

Printed Name: Dale Woodall Title: EHS Professional
Signature: Dale Woodall Date: 1/3/2023
email: dale.woodall@dvn.com Telephone: 575-748-1838

OCD Only

Received by: _____ Date: _____

Incident ID	NAB1511038592
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

Printed Name: Dale Woodall Title: EHS Professional
Signature: Dale Woodall Date: 1/3/2023
email: dale.woodall@dvn.com Telephone: 575-748-1838

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____



Gio PimaOil <gio@pimaoil.com>

Rigel 20 federal #3 Liner Inspection

1 message

Gio PimaOil <gio@pimaoil.com>

Thu, Jun 30, 2022 at 9:36 AM

To: ocdonline@state.nm.us, Tom Pima Oil <tom@pimaoil.com>

Good Morning,

Pima Environmental would like to notify you that we will be conducting a liner Inspection at the Rigel 20 federal #3 for incident NAB1511038592. Pima personnel are scheduled to be on site for this Inspection event at approximately 9:00 a.m. On Saturday, July 2, 2022. If you have any questions or concerns, please let me know. Thank you.

--

Gio Gomez

Project Manager

cell-806-782-1151

Office- 575-964-7740

Pima Environmental Services, LLC.



Pima Environmental Services

Appendix D

Liner Inspection Form

Photographic Documentation



Pima Environmental Services, LLC

Liner Inspection FormCompany Name: Devon EnergySite: Rigel 20 Fed 3HLat/Long: 32.6435781, -103.8989164NMOCD Incident ID
& Incident Date: NAB1511038592 4/14/20152-Day Notification
Sent: via Email by Gio Gomez 6/30/2022Inspection Date: 7/2/2022

Liner Type: Earthen w/liner Earthen no liner Polystar

Steel w/poly liner Steel w/spray epoxy No Liner

Other: _____

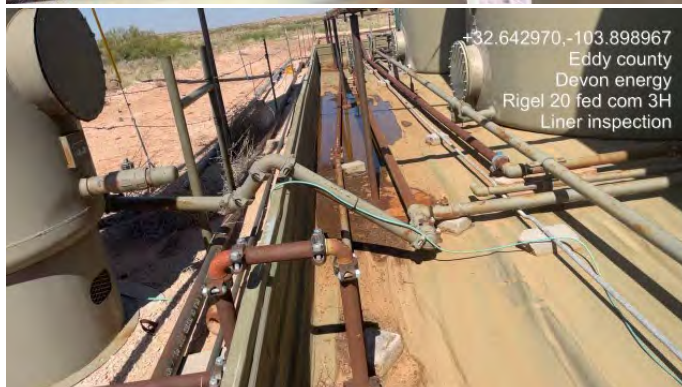
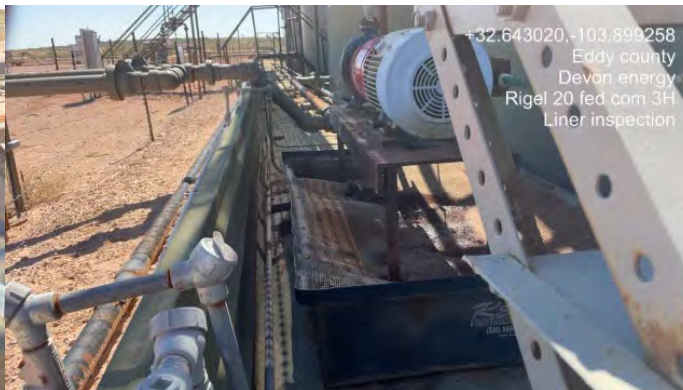
Visualization	Yes	No	Comments
Is there a tear in the liner?		X	
Are there holes in the liner?		X	
Is the liner retaining any fluids?	X		Rain Water
Does the liner have integrity to contain a leak?	X		

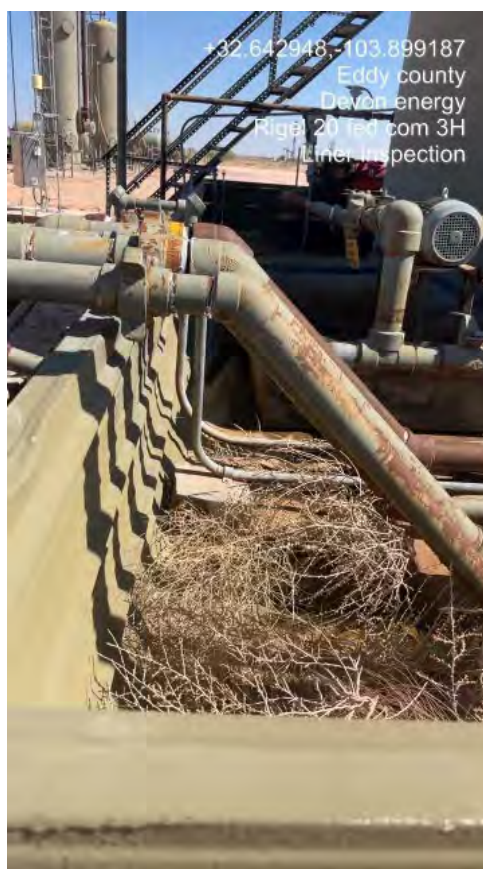
Comments: _____

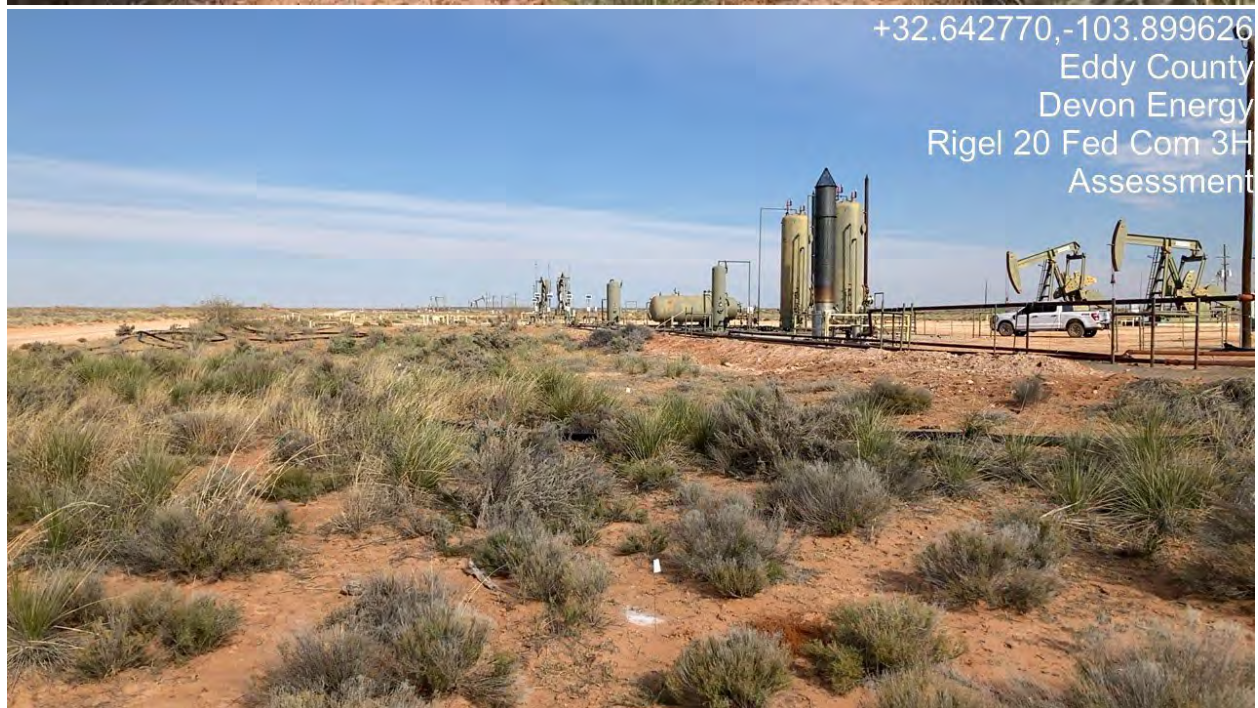
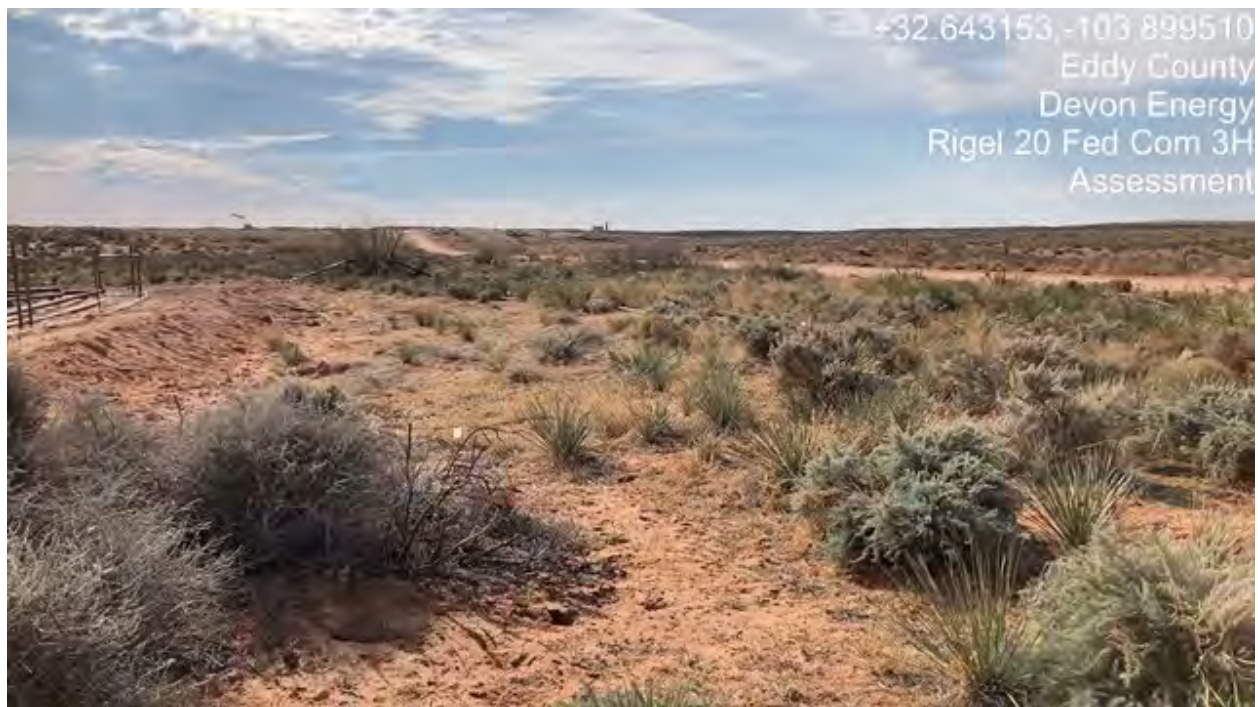
Inspector Name: Ned Rogers Inspector Signature: Ned Rogers



SITE PHOTOGRAPHS LINER INSPECTION











Pima Environmental Services

Appendix E

Laboratory Reports



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

July 30, 2020

CHRIS JONES

PIMA ENVIROMENTAL

1601 N TURNER STE. 500

HOBBS, NM 88240

RE: RIGEL 20 FED COM 3H

Enclosed are the results of analyses for samples received by the laboratory on 07/28/20 12:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. 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".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

PIMA ENVIROMENTAL
CHRIS JONES
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received:	07/28/2020	Sampling Date:	07/27/2020
Reported:	07/30/2020	Sampling Type:	Soil
Project Name:	RIGEL 20 FED COM 3H	Sampling Condition:	Cool & Intact
Project Number:	31	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY		

Sample ID: N - COMP (H001951-01)

BTX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/28/2020	ND	1.83	91.5	2.00	4.16	
Toluene*	<0.050	0.050	07/28/2020	ND	1.85	92.5	2.00	3.95	
Ethylbenzene*	<0.050	0.050	07/28/2020	ND	1.86	93.0	2.00	3.90	
Total Xylenes*	<0.150	0.150	07/28/2020	ND	5.33	88.9	6.00	3.97	
Total BTX	<0.300	0.300	07/28/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.2 % 73.3-129

Chloride, SM4500Cl-B			mg/kg		Analyzed By: GM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1150	16.0	07/29/2020	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	07/29/2020	ND	208	104	200	0.0970	
DRO >C10-C28*	<10.0	10.0	07/29/2020	ND	218	109	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	07/29/2020	ND					

Surrogate: 1-Chlorooctane 90.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 102 % 42.2-156

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:

PIMA ENVIROMENTAL
CHRIS JONES
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received:	07/28/2020	Sampling Date:	07/27/2020
Reported:	07/30/2020	Sampling Type:	Soil
Project Name:	RIGEL 20 FED COM 3H	Sampling Condition:	Cool & Intact
Project Number:	31	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY		

Sample ID: S - COMP (H001951-02)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/28/2020	ND	1.83	91.5	2.00	4.16	
Toluene*	<0.050	0.050	07/28/2020	ND	1.85	92.5	2.00	3.95	
Ethylbenzene*	<0.050	0.050	07/28/2020	ND	1.86	93.0	2.00	3.90	
Total Xylenes*	<0.150	0.150	07/28/2020	ND	5.33	88.9	6.00	3.97	
Total BTX	<0.300	0.300	07/28/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.2 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1700	16.0	07/29/2020	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	07/29/2020	ND	208	104	200	0.0970	
DRO >C10-C28*	<10.0	10.0	07/29/2020	ND	218	109	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	07/29/2020	ND					

Surrogate: 1-Chlorooctane 99.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 111 % 42.2-156

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:

PIMA ENVIRONMENTAL
CHRIS JONES
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 07/28/2020
Reported: 07/30/2020
Project Name: RIGEL 20 FED COM 3H
Project Number: 31
Project Location: DEVON - EDDY COUNTY

Sampling Date: 07/27/2020
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: E - COMP (H001951-03)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/28/2020	ND	1.83	91.5	2.00	4.16		
Toluene*	<0.050	0.050	07/28/2020	ND	1.85	92.5	2.00	3.95		
Ethylbenzene*	<0.050	0.050	07/28/2020	ND	1.86	93.0	2.00	3.90		
Total Xylenes*	<0.150	0.150	07/28/2020	ND	5.33	88.9	6.00	3.97		
Total BTX	<0.300	0.300	07/28/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	07/29/2020	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	07/29/2020	ND	208	104	200	0.0970	
DRO >C10-C28*	<10.0	10.0	07/29/2020	ND	218	109	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	07/29/2020	ND					

Surrogate: 1-Chlorooctane 104 % 44.3-144

Surrogate: 1-Chlorooctadecane 116 % 42.2-156

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:

PIMA ENVIROMENTAL
CHRIS JONES
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received:	07/28/2020	Sampling Date:	07/27/2020
Reported:	07/30/2020	Sampling Type:	Soil
Project Name:	RIGEL 20 FED COM 3H	Sampling Condition:	Cool & Intact
Project Number:	31	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY		

Sample ID: W - COMP (H001951-04)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/28/2020	ND	1.83	91.5	2.00	4.16	
Toluene*	<0.050	0.050	07/28/2020	ND	1.85	92.5	2.00	3.95	
Ethylbenzene*	<0.050	0.050	07/28/2020	ND	1.86	93.0	2.00	3.90	
Total Xylenes*	<0.150	0.150	07/28/2020	ND	5.33	88.9	6.00	3.97	
Total BTX	<0.300	0.300	07/28/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8930	16.0	07/29/2020	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	07/29/2020	ND	208	104	200	0.0970	
DRO >C10-C28*	646	10.0	07/29/2020	ND	218	109	200	12.3	
EXT DRO >C28-C36	164	10.0	07/29/2020	ND					

Surrogate: 1-Chlorooctane 103 % 44.3-144

Surrogate: 1-Chlorooctadecane 144 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PIMA ENVIROMENTAL
CHRIS JONES
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 07/28/2020
Reported: 07/30/2020
Project Name: RIGEL 20 FED COM 3H
Project Number: 31
Project Location: DEVON - EDDY COUNTY

Sampling Date: 07/27/2020
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: BG 1 (H001951-05)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/28/2020	ND	1.83	91.5	2.00	4.16	
Toluene*	<0.050	0.050	07/28/2020	ND	1.85	92.5	2.00	3.95	
Ethylbenzene*	<0.050	0.050	07/28/2020	ND	1.86	93.0	2.00	3.90	
Total Xylenes*	<0.150	0.150	07/28/2020	ND	5.33	88.9	6.00	3.97	
Total BTEX	<0.300	0.300	07/28/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.5 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	07/29/2020	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	07/29/2020	ND	208	104	200	0.0970	
DRO >C10-C28*	<10.0	10.0	07/29/2020	ND	218	109	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	07/29/2020	ND					

Surrogate: 1-Chlorooctane 99.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 110 % 42.2-156

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

Analytical Results For:

PIMA ENVIROMENTAL
CHRIS JONES
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 07/28/2020
Reported: 07/30/2020
Project Name: RIGEL 20 FED COM 3H
Project Number: 31
Project Location: DEVON - EDDY COUNTY

Sampling Date: 07/27/2020
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: BG 3 (H001951-06)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/28/2020	ND	1.83	91.5	2.00	4.16	
Toluene*	<0.050	0.050	07/28/2020	ND	1.85	92.5	2.00	3.95	
Ethylbenzene*	<0.050	0.050	07/28/2020	ND	1.86	93.0	2.00	3.90	
Total Xylenes*	<0.150	0.150	07/28/2020	ND	5.33	88.9	6.00	3.97	
Total BTX	<0.300	0.300	07/28/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/29/2020	ND	400	100	400	3.92		

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	07/29/2020	ND	208	104	200	0.0970	
DRO >C10-C28*	<10.0	10.0	07/29/2020	ND	218	109	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	07/29/2020	ND					

Surrogate: 1-Chlorooctane 101 % 44.3-144

Surrogate: 1-Chlorooctadecane 113 % 42.2-156

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

Analytical Results For:

PIMA ENVIROMENTAL
CHRIS JONES
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 07/28/2020
Reported: 07/30/2020
Project Name: RIGEL 20 FED COM 3H
Project Number: 31
Project Location: DEVON - EDDY COUNTY

Sampling Date: 07/27/2020
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: BG 4 (H001951-07)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/28/2020	ND	1.83	91.5	2.00	4.16		
Toluene*	<0.050	0.050	07/28/2020	ND	1.85	92.5	2.00	3.95		
Ethylbenzene*	<0.050	0.050	07/28/2020	ND	1.86	93.0	2.00	3.90		
Total Xylenes*	<0.150	0.150	07/28/2020	ND	5.33	88.9	6.00	3.97		
Total BTX	<0.300	0.300	07/28/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/29/2020	ND	400	100	400	3.92		

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	07/29/2020	ND	208	104	200	0.0970	
DRO >C10-C28*	<10.0	10.0	07/29/2020	ND	218	109	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	07/29/2020	ND					

Surrogate: 1-Chlorooctane 106 % 44.3-144

Surrogate: 1-Chlorooctadecane 117 % 42.2-156

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Analytical Results For:

PIMA ENVIROMENTAL
CHRIS JONES
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 07/28/2020
Reported: 07/30/2020
Project Name: RIGEL 20 FED COM 3H
Project Number: 31
Project Location: DEVON - EDDY COUNTY

Sampling Date: 07/27/2020
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: BG 5 (H001951-08)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/28/2020	ND	1.83	91.5	2.00	4.16	
Toluene*	<0.050	0.050	07/28/2020	ND	1.85	92.5	2.00	3.95	
Ethylbenzene*	<0.050	0.050	07/28/2020	ND	1.86	93.0	2.00	3.90	
Total Xylenes*	<0.150	0.150	07/28/2020	ND	5.33	88.9	6.00	3.97	
Total BTX	<0.300	0.300	07/28/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/29/2020	ND	400	100	400	3.92		

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	07/29/2020	ND	208	104	200	0.0970	
DRO >C10-C28*	<10.0	10.0	07/29/2020	ND	218	109	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	07/29/2020	ND					

Surrogate: 1-Chlorooctane 102 % 44.3-144

Surrogate: 1-Chlorooctadecane 112 % 42.2-156

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Analytical Results For:

PIMA ENVIROMENTAL
CHRIS JONES
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 07/28/2020
Reported: 07/30/2020
Project Name: RIGEL 20 FED COM 3H
Project Number: 31
Project Location: DEVON - EDDY COUNTY

Sampling Date: 07/27/2020
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: BG 6 (H001951-09)

BTX 8021B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/28/2020	ND	1.83	91.5	2.00	4.16		
Toluene*	<0.050	0.050	07/28/2020	ND	1.85	92.5	2.00	3.95		
Ethylbenzene*	<0.050	0.050	07/28/2020	ND	1.86	93.0	2.00	3.90		
Total Xylenes*	<0.150	0.150	07/28/2020	ND	5.33	88.9	6.00	3.97		
Total BTX	<0.300	0.300	07/28/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.5 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/29/2020	ND	400	100	400	3.92	

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	07/29/2020	ND	208	104	200	0.0970	
DRO >C10-C28*	<10.0	10.0	07/29/2020	ND	218	109	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	07/29/2020	ND					

Surrogate: 1-Chlorooctane 106 % 44.3-144

Surrogate: 1-Chlorooctadecane 120 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PIMA ENVIRONMENTAL
CHRIS JONES
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 07/28/2020
Reported: 07/30/2020
Project Name: RIGEL 20 FED COM 3H
Project Number: 31
Project Location: DEVON - EDDY COUNTY

Sampling Date: 07/27/2020
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: BG 7 (H001951-10)

BTX 8021B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/28/2020	ND	1.83	91.5	2.00	4.16		
Toluene*	<0.050	0.050	07/28/2020	ND	1.85	92.5	2.00	3.95		
Ethylbenzene*	<0.050	0.050	07/28/2020	ND	1.86	93.0	2.00	3.90		
Total Xylenes*	<0.150	0.150	07/28/2020	ND	5.33	88.9	6.00	3.97		
Total BTX	<0.300	0.300	07/28/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.5 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/29/2020	ND	400	100	400	3.92		

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	07/29/2020	ND	208	104	200	0.0970	
DRO >C10-C28*	<10.0	10.0	07/29/2020	ND	218	109	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	07/29/2020	ND					

Surrogate: 1-Chlorooctane 102 % 44.3-144

Surrogate: 1-Chlorooctadecane 114 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PIMA ENVIROMENTAL
CHRIS JONES
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 07/28/2020
Reported: 07/30/2020
Project Name: RIGEL 20 FED COM 3H
Project Number: 31
Project Location: DEVON - EDDY COUNTY

Sampling Date: 07/27/2020
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: BG 8 (H001951-11)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/28/2020	ND	1.83	91.5	2.00	4.16		
Toluene*	<0.050	0.050	07/28/2020	ND	1.85	92.5	2.00	3.95		
Ethylbenzene*	<0.050	0.050	07/28/2020	ND	1.86	93.0	2.00	3.90		
Total Xylenes*	<0.150	0.150	07/28/2020	ND	5.33	88.9	6.00	3.97		
Total BTEx	<0.300	0.300	07/28/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.8 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	07/29/2020	ND	400	100	400	3.92		

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	07/29/2020	ND	208	104	200	0.0970	
DRO >C10-C28*	<10.0	10.0	07/29/2020	ND	218	109	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	07/29/2020	ND					

Surrogate: 1-Chlorooctane 97.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 107 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PIMA ENVIROMENTAL
CHRIS JONES
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 07/28/2020
Reported: 07/30/2020
Project Name: RIGEL 20 FED COM 3H
Project Number: 31
Project Location: DEVON - EDDY COUNTY

Sampling Date: 07/27/2020
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S5 - 0-6" (H001951-12)

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/28/2020	ND	1.93	96.3	2.00	2.91	
Toluene*	<0.050	0.050	07/28/2020	ND	1.95	97.4	2.00	3.15	
Ethylbenzene*	<0.050	0.050	07/28/2020	ND	1.96	98.0	2.00	2.97	
Total Xylenes*	<0.150	0.150	07/28/2020	ND	5.65	94.1	6.00	2.88	
Total BTEX	<0.300	0.300	07/28/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.2 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4480	16.0	07/29/2020	ND	400	100	400	3.92	

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	07/29/2020	ND	208	104	200	0.0970	
DRO >C10-C28*	<10.0	10.0	07/29/2020	ND	218	109	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	07/29/2020	ND					

Surrogate: 1-Chlorooctane 99.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 111 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PIMA ENVIROMENTAL
CHRIS JONES
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 07/28/2020
Reported: 07/30/2020
Project Name: RIGEL 20 FED COM 3H
Project Number: 31
Project Location: DEVON - EDDY COUNTY

Sampling Date: 07/27/2020
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S5 - 1' (H001951-13)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/28/2020	ND	1.93	96.3	2.00	2.91	
Toluene*	<0.050	0.050	07/28/2020	ND	1.95	97.4	2.00	3.15	
Ethylbenzene*	<0.050	0.050	07/28/2020	ND	1.96	98.0	2.00	2.97	
Total Xylenes*	<0.150	0.150	07/28/2020	ND	5.65	94.1	6.00	2.88	
Total BTX	<0.300	0.300	07/28/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.8 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1480	16.0	07/29/2020	ND	400	100	400	3.92	

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	07/29/2020	ND	208	104	200	0.0970	
DRO >C10-C28*	<10.0	10.0	07/29/2020	ND	218	109	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	07/29/2020	ND					

Surrogate: 1-Chlorooctane 104 % 44.3-144

Surrogate: 1-Chlorooctadecane 116 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PIMA ENVIROMENTAL
CHRIS JONES
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 07/28/2020
Reported: 07/30/2020
Project Name: RIGEL 20 FED COM 3H
Project Number: 31
Project Location: DEVON - EDDY COUNTY

Sampling Date: 07/27/2020
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S5 - 2' (H001951-14)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/28/2020	ND	1.93	96.3	2.00	2.91	
Toluene*	<0.050	0.050	07/28/2020	ND	1.95	97.4	2.00	3.15	
Ethylbenzene*	<0.050	0.050	07/28/2020	ND	1.96	98.0	2.00	2.97	
Total Xylenes*	<0.150	0.150	07/28/2020	ND	5.65	94.1	6.00	2.88	
Total BTX	<0.300	0.300	07/28/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	976	16.0	07/29/2020	ND	400	100	400	3.92	

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	07/29/2020	ND	208	104	200	0.0970	
DRO >C10-C28*	<10.0	10.0	07/29/2020	ND	218	109	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	07/29/2020	ND					

Surrogate: 1-Chlorooctane 104 % 44.3-144

Surrogate: 1-Chlorooctadecane 115 % 42.2-156

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Analytical Results For:

PIMA ENVIROMENTAL
CHRIS JONES
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 07/28/2020
Reported: 07/30/2020
Project Name: RIGEL 20 FED COM 3H
Project Number: 31
Project Location: DEVON - EDDY COUNTY

Sampling Date: 07/27/2020
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S5 - 3' (H001951-15)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/28/2020	ND	1.93	96.3	2.00	2.91		
Toluene*	<0.050	0.050	07/28/2020	ND	1.95	97.4	2.00	3.15		
Ethylbenzene*	<0.050	0.050	07/28/2020	ND	1.96	98.0	2.00	2.97		
Total Xylenes*	<0.150	0.150	07/28/2020	ND	5.65	94.1	6.00	2.88		
Total BTEx	<0.300	0.300	07/28/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.7 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	864	16.0	07/29/2020	ND	400	100	400	3.92	

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	07/28/2020	ND	200	99.9	200	5.97	
DRO >C10-C28*	<10.0	10.0	07/28/2020	ND	213	107	200	4.65	
EXT DRO >C28-C36	<10.0	10.0	07/28/2020	ND					

Surrogate: 1-Chlorooctane 114 % 44.3-144

Surrogate: 1-Chlorooctadecane 126 % 42.2-156

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

Analytical Results For:

PIMA ENVIROMENTAL
CHRIS JONES
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 07/28/2020
Reported: 07/30/2020
Project Name: RIGEL 20 FED COM 3H
Project Number: 31
Project Location: DEVON - EDDY COUNTY

Sampling Date: 07/27/2020
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S6 - 0-6" (H001951-16)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/28/2020	ND	1.93	96.3	2.00	2.91		
Toluene*	<0.050	0.050	07/28/2020	ND	1.95	97.4	2.00	3.15		
Ethylbenzene*	<0.050	0.050	07/28/2020	ND	1.96	98.0	2.00	2.97		
Total Xylenes*	<0.150	0.150	07/28/2020	ND	5.65	94.1	6.00	2.88		
Total BTEx	<0.300	0.300	07/28/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.2 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	07/29/2020	ND	400	100	400	3.92	

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	07/28/2020	ND	200	99.9	200	5.97	
DRO >C10-C28*	<10.0	10.0	07/28/2020	ND	213	107	200	4.65	
EXT DRO >C28-C36	<10.0	10.0	07/28/2020	ND					

Surrogate: 1-Chlorooctane 113 % 44.3-144

Surrogate: 1-Chlorooctadecane 125 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PIMA ENVIROMENTAL
CHRIS JONES
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 07/28/2020
Reported: 07/30/2020
Project Name: RIGEL 20 FED COM 3H
Project Number: 31
Project Location: DEVON - EDDY COUNTY

Sampling Date: 07/27/2020
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S6 - 1' (H001951-17)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/28/2020	ND	1.93	96.3	2.00	2.91		
Toluene*	<0.050	0.050	07/28/2020	ND	1.95	97.4	2.00	3.15		
Ethylbenzene*	<0.050	0.050	07/28/2020	ND	1.96	98.0	2.00	2.97		
Total Xylenes*	<0.150	0.150	07/28/2020	ND	5.65	94.1	6.00	2.88		
Total BTX	<0.300	0.300	07/28/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.0 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	07/29/2020	ND	400	100	400	3.92	

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	07/28/2020	ND	200	99.9	200	5.97	
DRO >C10-C28*	<10.0	10.0	07/28/2020	ND	213	107	200	4.65	
EXT DRO >C28-C36	<10.0	10.0	07/28/2020	ND					

Surrogate: 1-Chlorooctane 110 % 44.3-144

Surrogate: 1-Chlorooctadecane 123 % 42.2-156

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Analytical Results For:

PIMA ENVIROMENTAL
CHRIS JONES
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 07/28/2020
Reported: 07/30/2020
Project Name: RIGEL 20 FED COM 3H
Project Number: 31
Project Location: DEVON - EDDY COUNTY

Sampling Date: 07/27/2020
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S6 - 2' (H001951-18)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/28/2020	ND	1.93	96.3	2.00	2.91		
Toluene*	<0.050	0.050	07/28/2020	ND	1.95	97.4	2.00	3.15		
Ethylbenzene*	<0.050	0.050	07/28/2020	ND	1.96	98.0	2.00	2.97		
Total Xylenes*	<0.150	0.150	07/28/2020	ND	5.65	94.1	6.00	2.88		
Total BTEx	<0.300	0.300	07/28/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.6 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	07/29/2020	ND	400	100	400	3.92	

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	07/28/2020	ND	200	99.9	200	5.97	
DRO >C10-C28*	<10.0	10.0	07/28/2020	ND	213	107	200	4.65	
EXT DRO >C28-C36	<10.0	10.0	07/28/2020	ND					

Surrogate: 1-Chlorooctane 115 % 44.3-144

Surrogate: 1-Chlorooctadecane 129 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PIMA ENVIROMENTAL
CHRIS JONES
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 07/28/2020
Reported: 07/30/2020
Project Name: RIGEL 20 FED COM 3H
Project Number: 31
Project Location: DEVON - EDDY COUNTY

Sampling Date: 07/27/2020
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S6 - 3' (H001951-19)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/29/2020	ND	1.93	96.3	2.00	2.91		
Toluene*	<0.050	0.050	07/29/2020	ND	1.95	97.4	2.00	3.15		
Ethylbenzene*	<0.050	0.050	07/29/2020	ND	1.96	98.0	2.00	2.97		
Total Xylenes*	<0.150	0.150	07/29/2020	ND	5.65	94.1	6.00	2.88		
Total BTEx	<0.300	0.300	07/29/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	07/29/2020	ND	400	100	400	3.92	

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	07/28/2020	ND	200	99.9	200	5.97	
DRO >C10-C28*	<10.0	10.0	07/28/2020	ND	213	107	200	4.65	
EXT DRO >C28-C36	<10.0	10.0	07/28/2020	ND					

Surrogate: 1-Chlorooctane 112 % 44.3-144

Surrogate: 1-Chlorooctadecane 124 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PIMA ENVIROMENTAL
CHRIS JONES
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 07/28/2020
Reported: 07/30/2020
Project Name: RIGEL 20 FED COM 3H
Project Number: 31
Project Location: DEVON - EDDY COUNTY

Sampling Date: 07/27/2020
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S7 - 0-6" (H001951-20)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/29/2020	ND	1.93	96.3	2.00	2.91	
Toluene*	<0.050	0.050	07/29/2020	ND	1.95	97.4	2.00	3.15	
Ethylbenzene*	<0.050	0.050	07/29/2020	ND	1.96	98.0	2.00	2.97	
Total Xylenes*	<0.150	0.150	07/29/2020	ND	5.65	94.1	6.00	2.88	
Total BTX	<0.300	0.300	07/29/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.7 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/29/2020	ND	400	100	400	3.92	

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	07/28/2020	ND	200	99.9	200	5.97	
DRO >C10-C28*	<10.0	10.0	07/28/2020	ND	213	107	200	4.65	
EXT DRO >C28-C36	<10.0	10.0	07/28/2020	ND					

Surrogate: 1-Chlorooctane 110 % 44.3-144

Surrogate: 1-Chlorooctadecane 120 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PIMA ENVIROMENTAL
CHRIS JONES
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 07/28/2020
Reported: 07/30/2020
Project Name: RIGEL 20 FED COM 3H
Project Number: 31
Project Location: DEVON - EDDY COUNTY

Sampling Date: 07/27/2020
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S7 - 1' (H001951-21)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/29/2020	ND	1.93	96.3	2.00	2.91	
Toluene*	<0.050	0.050	07/29/2020	ND	1.95	97.4	2.00	3.15	
Ethylbenzene*	<0.050	0.050	07/29/2020	ND	1.96	98.0	2.00	2.97	
Total Xylenes*	<0.150	0.150	07/29/2020	ND	5.65	94.1	6.00	2.88	
Total BTEX	<0.300	0.300	07/29/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.8 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/29/2020	ND	400	100	400	3.92	

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	07/28/2020	ND	200	99.9	200	5.97	
DRO >C10-C28*	<10.0	10.0	07/28/2020	ND	213	107	200	4.65	
EXT DRO >C28-C36	<10.0	10.0	07/28/2020	ND					

Surrogate: 1-Chlorooctane 112 % 44.3-144

Surrogate: 1-Chlorooctadecane 122 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PIMA ENVIROMENTAL
CHRIS JONES
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 07/28/2020
Reported: 07/30/2020
Project Name: RIGEL 20 FED COM 3H
Project Number: 31
Project Location: DEVON - EDDY COUNTY

Sampling Date: 07/27/2020
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S7 - 2' (H001951-22)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/29/2020	ND	1.93	96.3	2.00	2.91		
Toluene*	<0.050	0.050	07/29/2020	ND	1.95	97.4	2.00	3.15		
Ethylbenzene*	<0.050	0.050	07/29/2020	ND	1.96	98.0	2.00	2.97		
Total Xylenes*	<0.150	0.150	07/29/2020	ND	5.65	94.1	6.00	2.88		
Total BTEx	<0.300	0.300	07/29/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.7 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/29/2020	ND	400	100	400	3.92	

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	07/28/2020	ND	200	99.9	200	5.97	
DRO >C10-C28*	<10.0	10.0	07/28/2020	ND	213	107	200	4.65	
EXT DRO >C28-C36	<10.0	10.0	07/28/2020	ND					

Surrogate: 1-Chlorooctane 111 % 44.3-144

Surrogate: 1-Chlorooctadecane 121 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PIMA ENVIROMENTAL
CHRIS JONES
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 07/28/2020
Reported: 07/30/2020
Project Name: RIGEL 20 FED COM 3H
Project Number: 31
Project Location: DEVON - EDDY COUNTY

Sampling Date: 07/27/2020
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S7 - 3' (H001951-23)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/29/2020	ND	1.93	96.3	2.00	2.91		
Toluene*	<0.050	0.050	07/29/2020	ND	1.95	97.4	2.00	3.15		
Ethylbenzene*	<0.050	0.050	07/29/2020	ND	1.96	98.0	2.00	2.97		
Total Xylenes*	<0.150	0.150	07/29/2020	ND	5.65	94.1	6.00	2.88		
Total BTEx	<0.300	0.300	07/29/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.7 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/29/2020	ND	400	100	400	3.92	

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	07/28/2020	ND	200	99.9	200	5.97	
DRO >C10-C28*	<10.0	10.0	07/28/2020	ND	213	107	200	4.65	
EXT DRO >C28-C36	<10.0	10.0	07/28/2020	ND					

Surrogate: 1-Chlorooctane 110 % 44.3-144

Surrogate: 1-Chlorooctadecane 123 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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.
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



CARDINAL Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Piny Environmental</u>		BILL TO		ANALYSIS REQUEST																									
Project Manager: <u>Chris Jones</u>		P.O. #: <u>20754990</u>		<div style="display: flex; flex-direction: column; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">EXT</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Chloride</div> </div>																									
Address: <u>1601 N. Turner Ste 500</u>		Company: <u>DEVON</u>																											
City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88240</u>		Attn: <u>Tom Bynum</u>																											
Phone #: <u>575-631-6977</u> Fax #:		Address:																											
Project #: <u>31</u> Project Owner:		City:																											
Project Name: <u>Rigel 20 Fed Com 3H</u>		State: Zip:																											
Project Location: <u>EDDY COUNTY</u>		Phone #:																											
Sampler Name: <u>Mark Newcomb</u>		Fax #:																											
FOR LAB USE ONLY																													
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	
<u>H001951</u>				<u>C</u>																									
<u>1 N-Comp</u>																										<u>7/28/20</u>		<u>11:40</u>	
<u>2 S-Comp</u>																										<u>27</u>		<u>11:45</u>	
<u>3 E-Comp</u>																										<u>7/28/20</u>		<u>11:50</u>	
<u>4 W-Comp</u>																										<u>7/28/20</u>		<u>11:55</u>	
<u>5 BG1</u>																												<u>12:00</u>	
<u>6 BG3</u>																												<u>12:05</u>	
<u>7 BG4</u>																												<u>12:10</u>	
<u>8 BG5</u>																												<u>12:15</u>	
<u>9 BG6</u>																												<u>12:20</u>	
<u>10 BG7</u>																												<u>12:25</u>	

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Relinquished By:		Date: <u>7-28-20</u>	Received By: <u>Amara Dada</u>		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
		Time: <u>12:30</u>			All Results are emailed. Please provide Email address:	
Relinquished By:		Date:	Received By:		REMARKS: <u>Bill to Devon</u>	
		Time:				
Delivered By: (Circle One)		Observed Temp. °C <u>5.9</u>	Sample Condition		CHECKED BY: (Initials) <u>TO</u>	
Sampler - UPS - Bus - Other:		Corrected Temp. °C	Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	
			Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Thermometer ID #113 Correction Factor None	
			Bacteria (only) Sample Condition		Cool Intact Observed Temp. °C	
			<input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No	
			Corrected Temp. °C			

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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FORM-000 R 5.1 06/04/20

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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FORM-006 R 5.1 00/04/20

Released to Imaging: 1/4/2023 9:25:48 AM

Report to:
Tom Bynum



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pima Environmental Services-Carlsbad

Project Name: Rigel 20 Fed 3H

Work Order: E212049

Job Number: 01058-0007

Received: 12/8/2022

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
12/12/22

5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
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Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.
Envirotech Inc. holds the NM SDWA certification for data reported. (Lab #NM00979)

Date Reported: 12/12/22

Tom Bynum
PO Box 247
Plains, TX 79355-0247



Project Name: Rigel 20 Fed 3H
Workorder: E212049
Date Received: 12/8/2022 11:15:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/8/2022 11:15:00AM, under the Project Name: Rigel 20 Fed 3H.

The analytical test results summarized in this report with the Project Name: Rigel 20 Fed 3H apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
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Alexa Michaels
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labadmin@envirotech-inc.com

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Rayny Hagan
Technical Representative
Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Rigel 20 Fed 3H	Reported: 12/12/22 16:50
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BG-1	E212049-01A	Soil	12/06/22	12/08/22	Glass Jar, 4 oz.
SW-1	E212049-02A	Soil	12/06/22	12/08/22	Glass Jar, 4 oz.
SW-2	E212049-03A	Soil	12/06/22	12/08/22	Glass Jar, 4 oz.
SW-3	E212049-04A	Soil	12/06/22	12/08/22	Glass Jar, 4 oz.
S-1 1'	E212049-05A	Soil	12/06/22	12/08/22	Glass Jar, 4 oz.
S-1 2'	E212049-06A	Soil	12/06/22	12/08/22	Glass Jar, 4 oz.
S-2 1'	E212049-07A	Soil	12/06/22	12/08/22	Glass Jar, 4 oz.
S-2 2'	E212049-08A	Soil	12/06/22	12/08/22	Glass Jar, 4 oz.



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Rigel 20 Fed 3H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
12/12/2022 4:50:38PM

BG-1

E212049-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2250067
Benzene	ND	0.0250	1	12/08/22	12/09/22	
Ethylbenzene	ND	0.0250	1	12/08/22	12/09/22	
Toluene	ND	0.0250	1	12/08/22	12/09/22	
o-Xylene	ND	0.0250	1	12/08/22	12/09/22	
p,m-Xylene	ND	0.0500	1	12/08/22	12/09/22	
Total Xylenes	ND	0.0250	1	12/08/22	12/09/22	
Surrogate: 4-Bromochlorobenzene-PID	97.4 %	70-130		12/08/22	12/09/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2250067
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/08/22	12/09/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.4 %	70-130		12/08/22	12/09/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2250070
Diesel Range Organics (C10-C28)	ND	25.0	1	12/08/22	12/08/22	
Oil Range Organics (C28-C36)	ND	50.0	1	12/08/22	12/08/22	
Surrogate: n-Nonane	100 %	50-200		12/08/22	12/08/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2250075
Chloride	ND	20.0	1	12/08/22	12/08/22	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Rigel 20 Fed 3H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
12/12/2022 4:50:38PM

SW-1

E212049-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2250067
Benzene	ND	0.0250	1	12/08/22	12/09/22	
Ethylbenzene	ND	0.0250	1	12/08/22	12/09/22	
Toluene	ND	0.0250	1	12/08/22	12/09/22	
o-Xylene	ND	0.0250	1	12/08/22	12/09/22	
p,m-Xylene	ND	0.0500	1	12/08/22	12/09/22	
Total Xylenes	ND	0.0250	1	12/08/22	12/09/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.7 %	70-130		12/08/22	12/09/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2250067
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/08/22	12/09/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.2 %	70-130		12/08/22	12/09/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2250070
Diesel Range Organics (C10-C28)	ND	25.0	1	12/08/22	12/08/22	
Oil Range Organics (C28-C36)	ND	50.0	1	12/08/22	12/08/22	
<i>Surrogate: n-Nonane</i>						
	100 %	50-200		12/08/22	12/08/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2250075
Chloride	ND	20.0	1	12/08/22	12/08/22	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Rigel 20 Fed 3H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
12/12/2022 4:50:38PM

SW-2

E212049-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2250067	
Benzene	ND	0.0250	1	12/08/22	12/09/22	
Ethylbenzene	ND	0.0250	1	12/08/22	12/09/22	
Toluene	ND	0.0250	1	12/08/22	12/09/22	
o-Xylene	ND	0.0250	1	12/08/22	12/09/22	
p,m-Xylene	ND	0.0500	1	12/08/22	12/09/22	
Total Xylenes	ND	0.0250	1	12/08/22	12/09/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.3 %	70-130		12/08/22	12/09/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2250067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/08/22	12/09/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	97.2 %	70-130		12/08/22	12/09/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2250070	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/08/22	12/08/22	
Oil Range Organics (C28-C36)	ND	50.0	1	12/08/22	12/08/22	
<i>Surrogate: n-Nonane</i>						
	102 %	50-200		12/08/22	12/08/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: KL		Batch: 2250075	
Chloride	ND	20.0	1	12/08/22	12/08/22	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Rigel 20 Fed 3H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
12/12/2022 4:50:38PM

SW-3

E212049-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2250067	
Benzene	ND	0.0250	1	12/08/22	12/10/22	
Ethylbenzene	ND	0.0250	1	12/08/22	12/10/22	
Toluene	ND	0.0250	1	12/08/22	12/10/22	
o-Xylene	ND	0.0250	1	12/08/22	12/10/22	
p,m-Xylene	ND	0.0500	1	12/08/22	12/10/22	
Total Xylenes	ND	0.0250	1	12/08/22	12/10/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.7 %	70-130		12/08/22	12/10/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2250067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/08/22	12/10/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.5 %	70-130		12/08/22	12/10/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2250070	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/08/22	12/08/22	
Oil Range Organics (C28-C36)	ND	50.0	1	12/08/22	12/08/22	
<i>Surrogate: n-Nonane</i>						
	104 %	50-200		12/08/22	12/08/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: KL		Batch: 2250075	
Chloride	ND	20.0	1	12/08/22	12/08/22	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Rigel 20 Fed 3H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
12/12/2022 4:50:38PM

S-1 1'

E212049-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2250067
Benzene	ND	0.0250	1	12/08/22	12/10/22	
Ethylbenzene	ND	0.0250	1	12/08/22	12/10/22	
Toluene	ND	0.0250	1	12/08/22	12/10/22	
o-Xylene	ND	0.0250	1	12/08/22	12/10/22	
p,m-Xylene	ND	0.0500	1	12/08/22	12/10/22	
Total Xylenes	ND	0.0250	1	12/08/22	12/10/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.2 %	70-130		12/08/22	12/10/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2250067
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/08/22	12/10/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.5 %	70-130		12/08/22	12/10/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2250070
Diesel Range Organics (C10-C28)	ND	25.0	1	12/08/22	12/08/22	
Oil Range Organics (C28-C36)	ND	50.0	1	12/08/22	12/08/22	
<i>Surrogate: n-Nonane</i>						
	104 %	50-200		12/08/22	12/08/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2250075
Chloride	ND	20.0	1	12/08/22	12/08/22	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Rigel 20 Fed 3H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
12/12/2022 4:50:38PM

S-1 2'

E212049-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2250067
Benzene	ND	0.0250	1	12/08/22	12/10/22	
Ethylbenzene	ND	0.0250	1	12/08/22	12/10/22	
Toluene	ND	0.0250	1	12/08/22	12/10/22	
o-Xylene	ND	0.0250	1	12/08/22	12/10/22	
p,m-Xylene	ND	0.0500	1	12/08/22	12/10/22	
Total Xylenes	ND	0.0250	1	12/08/22	12/10/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.4 %	70-130		12/08/22	12/10/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2250067
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/08/22	12/10/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	97.2 %	70-130		12/08/22	12/10/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2250070
Diesel Range Organics (C10-C28)	ND	25.0	1	12/08/22	12/08/22	
Oil Range Organics (C28-C36)	ND	50.0	1	12/08/22	12/08/22	
<i>Surrogate: n-Nonane</i>						
	101 %	50-200		12/08/22	12/08/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2250075
Chloride	ND	20.0	1	12/08/22	12/08/22	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Rigel 20 Fed 3H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
12/12/2022 4:50:38PM

S-2 1'

E212049-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2250067
Benzene	ND	0.0250	1	12/08/22	12/10/22	
Ethylbenzene	ND	0.0250	1	12/08/22	12/10/22	
Toluene	ND	0.0250	1	12/08/22	12/10/22	
o-Xylene	ND	0.0250	1	12/08/22	12/10/22	
p,m-Xylene	ND	0.0500	1	12/08/22	12/10/22	
Total Xylenes	ND	0.0250	1	12/08/22	12/10/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.0 %	70-130		12/08/22	12/10/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2250067
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/08/22	12/10/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	97.8 %	70-130		12/08/22	12/10/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2250070
Diesel Range Organics (C10-C28)	ND	25.0	1	12/08/22	12/08/22	
Oil Range Organics (C28-C36)	ND	50.0	1	12/08/22	12/08/22	
<i>Surrogate: n-Nonane</i>						
	99.4 %	50-200		12/08/22	12/08/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2250075
Chloride	ND	20.0	1	12/08/22	12/08/22	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Rigel 20 Fed 3H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
12/12/2022 4:50:38PM

S-2 2'

E212049-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2250067
Benzene	ND	0.0250	1	12/08/22	12/10/22	
Ethylbenzene	ND	0.0250	1	12/08/22	12/10/22	
Toluene	ND	0.0250	1	12/08/22	12/10/22	
o-Xylene	ND	0.0250	1	12/08/22	12/10/22	
p,m-Xylene	ND	0.0500	1	12/08/22	12/10/22	
Total Xylenes	ND	0.0250	1	12/08/22	12/10/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.2 %	70-130		12/08/22	12/10/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2250067
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/08/22	12/10/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.8 %	70-130		12/08/22	12/10/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2250070
Diesel Range Organics (C10-C28)	ND	25.0	1	12/08/22	12/08/22	
Oil Range Organics (C28-C36)	ND	50.0	1	12/08/22	12/08/22	
<i>Surrogate: n-Nonane</i>						
	102 %	50-200		12/08/22	12/08/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2250075
Chloride	ND	20.0	1	12/08/22	12/08/22	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Rigel 20 Fed 3H	Reported: 12/12/2022 4:50:38PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2250067-BLK1)

Prepared: 12/08/22 Analyzed: 12/09/22

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.89		8.00		98.7	70-130			

LCS (2250067-BS1)

Prepared: 12/08/22 Analyzed: 12/09/22

Benzene	4.26	0.0250	5.00		85.3	70-130			
Ethylbenzene	4.35	0.0250	5.00		87.0	70-130			
Toluene	4.46	0.0250	5.00		89.2	70-130			
o-Xylene	4.50	0.0250	5.00		90.0	70-130			
p,m-Xylene	8.80	0.0500	10.0		88.0	70-130			
Total Xylenes	13.3	0.0250	15.0		88.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.83		8.00		97.9	70-130			

Matrix Spike (2250067-MS1)

Source: E212049-02

Prepared: 12/08/22 Analyzed: 12/09/22

Benzene	4.37	0.0250	5.00	ND	87.4	54-133			
Ethylbenzene	4.46	0.0250	5.00	ND	89.3	61-133			
Toluene	4.58	0.0250	5.00	ND	91.5	61-130			
o-Xylene	4.61	0.0250	5.00	ND	92.3	63-131			
p,m-Xylene	9.03	0.0500	10.0	ND	90.3	63-131			
Total Xylenes	13.6	0.0250	15.0	ND	90.9	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.77		8.00		97.1	70-130			

Matrix Spike Dup (2250067-MSD1)

Source: E212049-02

Prepared: 12/08/22 Analyzed: 12/09/22

Benzene	4.74	0.0250	5.00	ND	94.8	54-133	8.11	20	
Ethylbenzene	4.83	0.0250	5.00	ND	96.5	61-133	7.85	20	
Toluene	4.95	0.0250	5.00	ND	99.1	61-130	7.90	20	
o-Xylene	5.00	0.0250	5.00	ND	100	63-131	7.99	20	
p,m-Xylene	9.73	0.0500	10.0	ND	97.3	63-131	7.48	20	
Total Xylenes	14.7	0.0250	15.0	ND	98.2	63-131	7.65	20	
Surrogate: 4-Bromochlorobenzene-PID	7.70		8.00		96.3	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Rigel 20 Fed 3H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	12/12/2022 4:50:38PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2250067-BLK1)

Prepared: 12/08/22 Analyzed: 12/09/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.67		8.00		95.8	70-130			

LCS (2250067-BS2)

Prepared: 12/08/22 Analyzed: 12/09/22

Gasoline Range Organics (C6-C10)	46.2	20.0	50.0		92.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.59		8.00		94.8	70-130			

Matrix Spike (2250067-MS2)

Source: E212049-02

Prepared: 12/08/22 Analyzed: 12/09/22

Gasoline Range Organics (C6-C10)	44.9	20.0	50.0	ND	89.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.83		8.00		97.8	70-130			

Matrix Spike Dup (2250067-MSD2)

Source: E212049-02

Prepared: 12/08/22 Analyzed: 12/09/22

Gasoline Range Organics (C6-C10)	46.4	20.0	50.0	ND	92.8	70-130	3.20	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.45		8.00		93.2	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Rigel 20 Fed 3H	Reported: 12/12/2022 4:50:38PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2250070-BLK1)					Prepared: 12/08/22 Analyzed: 12/08/22				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	53.8		50.0		108	50-200			

LCS (2250070-BS1)					Prepared: 12/08/22 Analyzed: 12/08/22				
Diesel Range Organics (C10-C28)	239	25.0	250		95.5	38-132			
Surrogate: n-Nonane	50.0		50.0		100	50-200			

Matrix Spike (2250070-MS1)					Source: E212049-08		Prepared: 12/08/22 Analyzed: 12/08/22		
Diesel Range Organics (C10-C28)	229	25.0	250	ND	91.7	38-132			
Surrogate: n-Nonane	49.6		50.0		99.2	50-200			

Matrix Spike Dup (2250070-MSD1)					Source: E212049-08		Prepared: 12/08/22 Analyzed: 12/08/22		
Diesel Range Organics (C10-C28)	236	25.0	250	ND	94.2	38-132	2.66	20	
Surrogate: n-Nonane	51.0		50.0		102	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Rigel 20 Fed 3H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	12/12/2022 4:50:38PM

Anions by EPA 300.0/9056A

Analyst: KL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2250075-BLK1)					Prepared: 12/08/22 Analyzed: 12/08/22				
Chloride	ND	20.0							
LCS (2250075-BS1)					Prepared: 12/08/22 Analyzed: 12/08/22				
Chloride	261	20.0	250		104	90-110			
Matrix Spike (2250075-MS1)					Source: E212049-01		Prepared: 12/08/22 Analyzed: 12/08/22		
Chloride	265	20.0	250	ND	106	80-120			
Matrix Spike Dup (2250075-MSD1)					Source: E212049-01		Prepared: 12/08/22 Analyzed: 12/08/22		
Chloride	266	20.0	250	ND	106	80-120	0.306	20	

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures.
Therefore, hand calculated values may differ slightly.



Definitions and Notes

Pima Environmental Services-Carlsbad	Project Name:	Rigel 20 Fed 3H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	12/12/22 16:50

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Project Information

Chain of Custody

Page 1 of 1

Client: Pima Environmental Services Project: <u>Rigel 20 Fed 3H</u> Project Manager: Tom Bynum Address: 5614 N. Lovington Hwy. City, State, Zip: Hobbs, NM, 88240 Phone: 580-748-1613 Email: tom@pimaoil.com Report due by:					Bill To Attention: <u>Devon Energy</u> Address: City, State, Zip: Phone: Email: Pima Project # <u>1-166</u>					Lab Use Only Lab WO# <u>E212049</u> Job Number <u>01057-0007</u> Analysis and Method					TAT 1D 2D 3D Standard				EPA Program CWA SDWA RCRA	
										State NM CO UT AZ TX				Remarks						
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX							
8:00	12/6/22	S	1	BG-1	1							X								
8:05				SW-1	2															
8:10				SW-2	3															
8:15				SW-3	4															
8:20				S-1 1'	5															
8:25				S-1 2'	6															
8:30				S-2 1'	7															
8:35				S-2 2'	8															
Additional Instructions: <u>Bill To Devon Energy: # 20868758</u>																				
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																				
Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.																				
Relinquished by: (Signature) <u>Ned Rogers</u> Date <u>12-7-22</u> Time <u>2:00 P</u>					Received by: (Signature) <u>Michelle Guala</u> Date <u>12-7-22</u> Time <u>1400</u>					Received on ice: <u>Y</u> / N										
Relinquished by: (Signature) <u>Michelle Guala</u> Date <u>12-7-22</u> Time <u>1545</u>					Received by: (Signature) <u>Arthur Chute</u> Date <u>12/8/22</u> Time <u>11:15</u>					T1 T2 T3										
Relinquished by: (Signature) _____ Date _____ Time _____					Received by: (Signature) _____ Date _____ Time _____					AVG Temp °C <u>4</u>										
Sample Matrix: <u>S</u> - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																				
Container Type: <u>g - glass</u> p - poly/plastic, ag - amber glass, v - VOA																				
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																				

Envirotech Analytical Laboratory

Printed: 12/8/2022 12:40:05PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.**If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.**

Client:	Pima Environmental Services-Carlsbad	Date Received:	12/08/22 11:15	Work Order ID:	E212049
Phone:	(575) 631-6977	Date Logged In:	12/08/22 08:40	Logged In By:	Caitlin Christian
Email:	tom@pimaoil.com	Due Date:	12/14/22 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: UPS**Comments/Resolution****Sample Turn Around Time (TAT)**

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
 - Sample ID? Yes
 - Date/Time Collected? Yes
 - Collectors name? No

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: na

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Tom Bynum



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pima Environmental Services-Carlsbad

Project Name: Rigel 20 Fed Com 3H

Work Order: E212077

Job Number: 01058-0007

Received: 12/14/2022

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
12/20/22

5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
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Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.
Envirotech Inc. holds the NM SDWA certification for data reported. (Lab #NM00979)

Date Reported: 12/20/22

Tom Bynum
PO Box 247
Plains, TX 79355-0247



Project Name: Rigel 20 Fed Com 3H
Workorder: E212077
Date Received: 12/14/2022 10:45:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/14/2022 10:45:00AM, under the Project Name: Rigel 20 Fed Com 3H.

The analytical test results summarized in this report with the Project Name: Rigel 20 Fed Com 3H apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

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Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Rigel 20 Fed Com 3H	Reported: 12/20/22 08:57
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S1 - N Comp 1'	E212077-01A	Soil	12/13/22	12/14/22	Glass Jar, 2 oz.
S1 - N Comp 2'	E212077-02A	Soil	12/13/22	12/14/22	Glass Jar, 2 oz.
S2 - S Comp 1'	E212077-03A	Soil	12/13/22	12/14/22	Glass Jar, 2 oz.
S2 - S Comp 2'	E212077-04A	Soil	12/13/22	12/14/22	Glass Jar, 2 oz.
S3 - E Comp 1'	E212077-05A	Soil	12/13/22	12/14/22	Glass Jar, 2 oz.
S3 - E Comp 2'	E212077-06A	Soil	12/13/22	12/14/22	Glass Jar, 2 oz.
S4 - W Comp 1'	E212077-07A	Soil	12/13/22	12/14/22	Glass Jar, 2 oz.
S4 - W Somp 2'	E212077-08A	Soil	12/13/22	12/14/22	Glass Jar, 2 oz.
S5 6"	E212077-09A	Soil	12/13/22	12/14/22	Glass Jar, 2 oz.
S5 2'	E212077-10A	Soil	12/13/22	12/14/22	Glass Jar, 2 oz.
S5 4'	E212077-11A	Soil	12/13/22	12/14/22	Glass Jar, 2 oz.



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Rigel 20 Fed Com 3H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	12/20/2022 8:57:47AM

S1 - N Comp 1'

E212077-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2251051
Benzene	ND	0.0250	1	12/14/22	12/16/22	
Ethylbenzene	ND	0.0250	1	12/14/22	12/16/22	
Toluene	ND	0.0250	1	12/14/22	12/16/22	
o-Xylene	ND	0.0250	1	12/14/22	12/16/22	
p,m-Xylene	ND	0.0500	1	12/14/22	12/16/22	
Total Xylenes	ND	0.0250	1	12/14/22	12/16/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		100 %	70-130	12/14/22	12/16/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2251051
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/14/22	12/16/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		97.1 %	70-130	12/14/22	12/16/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2251066
Diesel Range Organics (C10-C28)	ND	25.0	1	12/15/22	12/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	12/15/22	12/15/22	
<i>Surrogate: n-Nonane</i>		103 %	50-200	12/15/22	12/15/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: KL			Batch: 2251050
Chloride	ND	20.0	1	12/14/22	12/15/22	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Rigel 20 Fed Com 3H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
12/20/2022 8:57:47AM

S1 - N Comp 2'

E212077-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2251051
Benzene	ND	0.0250	1	12/14/22	12/16/22	
Ethylbenzene	ND	0.0250	1	12/14/22	12/16/22	
Toluene	ND	0.0250	1	12/14/22	12/16/22	
o-Xylene	ND	0.0250	1	12/14/22	12/16/22	
p,m-Xylene	ND	0.0500	1	12/14/22	12/16/22	
Total Xylenes	ND	0.0250	1	12/14/22	12/16/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		100 %	70-130	12/14/22	12/16/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2251051
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/14/22	12/16/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		98.8 %	70-130	12/14/22	12/16/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2251066
Diesel Range Organics (C10-C28)	ND	25.0	1	12/15/22	12/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	12/15/22	12/15/22	
<i>Surrogate: n-Nonane</i>						
		104 %	50-200	12/15/22	12/15/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2251050
Chloride	ND	20.0	1	12/14/22	12/15/22	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Rigel 20 Fed Com 3H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
12/20/2022 8:57:47AM

S2 - S Comp 1'

E212077-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2251051
Benzene	ND	0.0250	1	12/14/22	12/16/22	
Ethylbenzene	ND	0.0250	1	12/14/22	12/16/22	
Toluene	ND	0.0250	1	12/14/22	12/16/22	
o-Xylene	ND	0.0250	1	12/14/22	12/16/22	
p,m-Xylene	ND	0.0500	1	12/14/22	12/16/22	
Total Xylenes	ND	0.0250	1	12/14/22	12/16/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	12/14/22	12/16/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2251051
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/14/22	12/16/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		98.3 %	70-130	12/14/22	12/16/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2251066
Diesel Range Organics (C10-C28)	ND	25.0	1	12/15/22	12/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	12/15/22	12/15/22	
<i>Surrogate: n-Nonane</i>						
		105 %	50-200	12/15/22	12/15/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2251050
Chloride	ND	20.0	1	12/14/22	12/15/22	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Rigel 20 Fed Com 3H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
12/20/2022 8:57:47AM

S2 - S Comp 2'

E212077-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2251051
Benzene	ND	0.0250	1	12/14/22	12/16/22	
Ethylbenzene	ND	0.0250	1	12/14/22	12/16/22	
Toluene	ND	0.0250	1	12/14/22	12/16/22	
o-Xylene	ND	0.0250	1	12/14/22	12/16/22	
p,m-Xylene	ND	0.0500	1	12/14/22	12/16/22	
Total Xylenes	ND	0.0250	1	12/14/22	12/16/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	12/14/22	12/16/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2251051
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/14/22	12/16/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		98.3 %	70-130	12/14/22	12/16/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2251066
Diesel Range Organics (C10-C28)	ND	25.0	1	12/15/22	12/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	12/15/22	12/15/22	
<i>Surrogate: n-Nonane</i>						
		103 %	50-200	12/15/22	12/15/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2251050
Chloride	ND	20.0	1	12/14/22	12/15/22	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Rigel 20 Fed Com 3H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
12/20/2022 8:57:47AM

S3 - E Comp 1'

E212077-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2251051
Benzene	ND	0.0250	1	12/14/22	12/16/22	
Ethylbenzene	ND	0.0250	1	12/14/22	12/16/22	
Toluene	ND	0.0250	1	12/14/22	12/16/22	
o-Xylene	ND	0.0250	1	12/14/22	12/16/22	
p,m-Xylene	ND	0.0500	1	12/14/22	12/16/22	
Total Xylenes	ND	0.0250	1	12/14/22	12/16/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		100 %	70-130	12/14/22	12/16/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2251051
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/14/22	12/16/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		98.8 %	70-130	12/14/22	12/16/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2251066
Diesel Range Organics (C10-C28)	ND	25.0	1	12/15/22	12/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	12/15/22	12/15/22	
<i>Surrogate: n-Nonane</i>						
		107 %	50-200	12/15/22	12/15/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2251050
Chloride	ND	20.0	1	12/14/22	12/15/22	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Rigel 20 Fed Com 3H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
12/20/2022 8:57:47AM

S3 - E Comp 2'

E212077-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2251051
Benzene	ND	0.0250	1	12/14/22	12/16/22	
Ethylbenzene	ND	0.0250	1	12/14/22	12/16/22	
Toluene	ND	0.0250	1	12/14/22	12/16/22	
o-Xylene	ND	0.0250	1	12/14/22	12/16/22	
p,m-Xylene	ND	0.0500	1	12/14/22	12/16/22	
Total Xylenes	ND	0.0250	1	12/14/22	12/16/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	12/14/22	12/16/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2251051
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/14/22	12/16/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		98.4 %	70-130	12/14/22	12/16/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2251066
Diesel Range Organics (C10-C28)	ND	25.0	1	12/15/22	12/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	12/15/22	12/15/22	
<i>Surrogate: n-Nonane</i>						
		107 %	50-200	12/15/22	12/15/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2251050
Chloride	ND	20.0	1	12/14/22	12/15/22	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Rigel 20 Fed Com 3H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
12/20/2022 8:57:47AM

S4 - W Comp 1'

E212077-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2251051
Benzene	ND	0.0250	1	12/14/22	12/16/22	
Ethylbenzene	ND	0.0250	1	12/14/22	12/16/22	
Toluene	ND	0.0250	1	12/14/22	12/16/22	
o-Xylene	ND	0.0250	1	12/14/22	12/16/22	
p,m-Xylene	ND	0.0500	1	12/14/22	12/16/22	
Total Xylenes	ND	0.0250	1	12/14/22	12/16/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	12/14/22	12/16/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2251051
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/14/22	12/16/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		97.8 %	70-130	12/14/22	12/16/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2251066
Diesel Range Organics (C10-C28)	ND	25.0	1	12/15/22	12/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	12/15/22	12/15/22	
<i>Surrogate: n-Nonane</i>						
		106 %	50-200	12/15/22	12/15/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2251050
Chloride	ND	20.0	1	12/14/22	12/15/22	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Rigel 20 Fed Com 3H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
12/20/2022 8:57:47AM

S4 - W Somp 2'

E212077-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2251051
Benzene	ND	0.0250	1	12/14/22	12/16/22	
Ethylbenzene	ND	0.0250	1	12/14/22	12/16/22	
Toluene	ND	0.0250	1	12/14/22	12/16/22	
o-Xylene	ND	0.0250	1	12/14/22	12/16/22	
p,m-Xylene	ND	0.0500	1	12/14/22	12/16/22	
Total Xylenes	ND	0.0250	1	12/14/22	12/16/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	12/14/22	12/16/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2251051
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/14/22	12/16/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		98.2 %	70-130	12/14/22	12/16/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2251066
Diesel Range Organics (C10-C28)	ND	25.0	1	12/15/22	12/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	12/15/22	12/15/22	
<i>Surrogate: n-Nonane</i>						
		103 %	50-200	12/15/22	12/15/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2251050
Chloride	ND	20.0	1	12/14/22	12/15/22	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Rigel 20 Fed Com 3H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
12/20/2022 8:57:47AM

S5 6"

E212077-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2251051
Benzene	ND	0.0250	1	12/14/22	12/16/22	
Ethylbenzene	ND	0.0250	1	12/14/22	12/16/22	
Toluene	ND	0.0250	1	12/14/22	12/16/22	
o-Xylene	ND	0.0250	1	12/14/22	12/16/22	
p,m-Xylene	ND	0.0500	1	12/14/22	12/16/22	
Total Xylenes	ND	0.0250	1	12/14/22	12/16/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	12/14/22	12/16/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2251051
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/14/22	12/16/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		98.3 %	70-130	12/14/22	12/16/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2251066
Diesel Range Organics (C10-C28)	ND	25.0	1	12/15/22	12/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	12/15/22	12/15/22	
<i>Surrogate: n-Nonane</i>						
		105 %	50-200	12/15/22	12/15/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2251050
Chloride	ND	20.0	1	12/14/22	12/15/22	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Rigel 20 Fed Com 3H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
12/20/2022 8:57:47AM

S5 2'

E212077-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2251051
Benzene	ND	0.0250	1	12/14/22	12/16/22	
Ethylbenzene	ND	0.0250	1	12/14/22	12/16/22	
Toluene	ND	0.0250	1	12/14/22	12/16/22	
o-Xylene	ND	0.0250	1	12/14/22	12/16/22	
p,m-Xylene	ND	0.0500	1	12/14/22	12/16/22	
Total Xylenes	ND	0.0250	1	12/14/22	12/16/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	12/14/22	12/16/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2251051
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/14/22	12/16/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		98.4 %	70-130	12/14/22	12/16/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2251066
Diesel Range Organics (C10-C28)	ND	25.0	1	12/15/22	12/16/22	
Oil Range Organics (C28-C36)	ND	50.0	1	12/15/22	12/16/22	
<i>Surrogate: n-Nonane</i>						
		108 %	50-200	12/15/22	12/16/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2251050
Chloride	ND	20.0	1	12/14/22	12/15/22	



Sample Data

Pima Environmental Services-Carlsbad
PO Box 247
Plains TX, 79355-0247

Project Name: Rigel 20 Fed Com 3H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
12/20/2022 8:57:47AM

S5 4'

E212077-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2251051
Benzene	ND	0.0250	1	12/14/22	12/16/22	
Ethylbenzene	ND	0.0250	1	12/14/22	12/16/22	
Toluene	ND	0.0250	1	12/14/22	12/16/22	
o-Xylene	ND	0.0250	1	12/14/22	12/16/22	
p,m-Xylene	ND	0.0500	1	12/14/22	12/16/22	
Total Xylenes	ND	0.0250	1	12/14/22	12/16/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	12/14/22	12/16/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2251051
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/14/22	12/16/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		98.0 %	70-130	12/14/22	12/16/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2251066
Diesel Range Organics (C10-C28)	ND	25.0	1	12/15/22	12/16/22	
Oil Range Organics (C28-C36)	ND	50.0	1	12/15/22	12/16/22	
<i>Surrogate: n-Nonane</i>						
		108 %	50-200	12/15/22	12/16/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2251050
Chloride	ND	20.0	1	12/14/22	12/15/22	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Rigel 20 Fed Com 3H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	12/20/2022 8:57:47AM

Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2251051-BLK1)

Prepared: 12/14/22 Analyzed: 12/16/22

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	8.14		8.00		102		70-130		

LCS (2251051-BS1)

Prepared: 12/14/22 Analyzed: 12/16/22

Benzene	4.76	0.0250	5.00		95.3		70-130		
Ethylbenzene	4.92	0.0250	5.00		98.4		70-130		
Toluene	5.00	0.0250	5.00		99.9		70-130		
o-Xylene	5.06	0.0250	5.00		101		70-130		
p,m-Xylene	9.98	0.0500	10.0		99.8		70-130		
Total Xylenes	15.0	0.0250	15.0		100		70-130		
Surrogate: 4-Bromochlorobenzene-PID	8.08		8.00		101		70-130		

Matrix Spike (2251051-MS1)

Source: E212076-02

Prepared: 12/14/22 Analyzed: 12/16/22

Benzene	4.97	0.0250	5.00	ND	99.3		54-133		
Ethylbenzene	5.12	0.0250	5.00	ND	102		61-133		
Toluene	5.21	0.0250	5.00	ND	104		61-130		
o-Xylene	5.26	0.0250	5.00	ND	105		63-131		
p,m-Xylene	10.4	0.0500	10.0	ND	104		63-131		
Total Xylenes	15.6	0.0250	15.0	ND	104		63-131		
Surrogate: 4-Bromochlorobenzene-PID	8.08		8.00		101		70-130		

Matrix Spike Dup (2251051-MSD1)

Source: E212076-02

Prepared: 12/14/22 Analyzed: 12/16/22

Benzene	5.11	0.0250	5.00	ND	102	54-133	2.85	20	
Ethylbenzene	5.26	0.0250	5.00	ND	105	61-133	2.63	20	
Toluene	5.35	0.0250	5.00	ND	107	61-130	2.75	20	
o-Xylene	5.39	0.0250	5.00	ND	108	63-131	2.51	20	
p,m-Xylene	10.6	0.0500	10.0	ND	106	63-131	2.57	20	
Total Xylenes	16.0	0.0250	15.0	ND	107	63-131	2.55	20	
Surrogate: 4-Bromochlorobenzene-PID	8.00		8.00		100	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Rigel 20 Fed Com 3H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	12/20/2022 8:57:47AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2251051-BLK1)

Prepared: 12/14/22 Analyzed: 12/16/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.95		8.00		99.3	70-130			

LCS (2251051-BS2)

Prepared: 12/14/22 Analyzed: 12/16/22

Gasoline Range Organics (C6-C10)	52.7	20.0	50.0		105	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.03		8.00		100	70-130			

Matrix Spike (2251051-MS2)

Source: E212076-02

Prepared: 12/14/22 Analyzed: 12/16/22

Gasoline Range Organics (C6-C10)	54.7	20.0	50.0	ND	109	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.02		8.00		100	70-130			

Matrix Spike Dup (2251051-MSD2)

Source: E212076-02

Prepared: 12/14/22 Analyzed: 12/16/22

Gasoline Range Organics (C6-C10)	48.5	20.0	50.0	ND	96.9	70-130	12.2	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.00		8.00		100	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Rigel 20 Fed Com 3H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	12/20/2022 8:57:47AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2251066-BLK1)

Prepared: 12/15/22 Analyzed: 12/15/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	54.3		50.0		109	50-200			

LCS (2251066-BS1)

Prepared: 12/15/22 Analyzed: 12/15/22

Diesel Range Organics (C10-C28)	247	25.0	250		98.6	38-132			
Surrogate: n-Nonane	51.2		50.0		102	50-200			

Matrix Spike (2251066-MS1)

Source: E212077-08

Prepared: 12/15/22 Analyzed: 12/15/22

Diesel Range Organics (C10-C28)	250	25.0	250	ND	100	38-132			
Surrogate: n-Nonane	52.4		50.0		105	50-200			

Matrix Spike Dup (2251066-MSD1)

Source: E212077-08

Prepared: 12/15/22 Analyzed: 12/15/22

Diesel Range Organics (C10-C28)	246	25.0	250	ND	98.4	38-132	1.65	20	
Surrogate: n-Nonane	51.1		50.0		102	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Rigel 20 Fed Com 3H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	12/20/2022 8:57:47AM

Anions by EPA 300.0/9056A

Analyst: KL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2251050-BLK1)					Prepared: 12/14/22 Analyzed: 12/15/22				
Chloride	ND	20.0							
LCS (2251050-BS1)					Prepared: 12/14/22 Analyzed: 12/15/22				
Chloride	256	20.0	250		102	90-110			
Matrix Spike (2251050-MS1)					Source: E212077-01		Prepared: 12/14/22 Analyzed: 12/15/22		
Chloride	258	20.0	250	ND	103	80-120			
Matrix Spike Dup (2251050-MSD1)					Source: E212077-01		Prepared: 12/14/22 Analyzed: 12/15/22		
Chloride	257	20.0	250	ND	103	80-120	0.351	20	

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures.
Therefore, hand calculated values may differ slightly.



Definitions and Notes

Pima Environmental Services-Carlsbad	Project Name:	Rigel 20 Fed Com 3H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	12/20/22 08:57

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Project Information

Chain of Custody

Page 1 of 2

Client: Pima Environmental Services					Bill To					Lab Use Only					TAT				EPA Program					
Project: <u>Rigel 20 Fed Com 3H</u>					Attention: <u>Devon Energy</u>					Lab WO# <u>E212077</u>					Job Number <u>01058-0007</u>				1D	2D	3D	Standard	CWA	SDWA
Project Manager: Tom Bynum					Address:					Analysis and Method									RCRA					
Address: 1601 N Turner St., Suite 500					City, State, Zip																			
City, State, Zip <u>Hobbs, NM, 88240</u>					Phone:														State					
Phone: 580-748-1613					Email:																			
Email: tom@pimaoil.com					Pima Project # <u>1-166</u>																			
Report due by:																								

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
8:00	12/13/22	S	1	S1-N Comp 1'	1							X		
8:05				S1-N Comp 2'	2									
8:10				S2-S Comp 1'	3									
8:15				S2-S Comp 2'	4									
8:20				S3-E Comp 1'	5									
8:25				S3-E Comp 2'	6									
8:30				S4-W Comp 1'	7									
8:35				S4-W Comp 2'	8									
8:40				S5 6"	9									
8:45				S5 2'	10									

Additional Instructions: Bill To Devon Energy: # 20868758

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Ned Rogers

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only Received on ice: <u>(Y) / N</u> T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
<u>Ned Rogers</u>	12-13-22	2:00	<u>Michelle Cuyals</u>	12-13-22	2:40	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
<u>Michelle Cuyals</u>	12-13-22	1600	<u>Carla Chet</u>	12/14/22	10:45	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	

Sample Matrix: S - Solid, Sg - Sludge, A - Aqueous, O - Other

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Chain of Custody

Project Information

Client: Pima Environmental Services					Bill To					Lab Use Only					TAT				EPA Program					
Project: <u>Rigel 20 Fed Com 3H</u>					Attention: <u>Daron Energy</u>					Lab WO#		Job Number			1D	2D	3D	Standard	CWA	SDWA				
Project Manager: Tom Bynum					Address:					E <u>212077</u>		01058-0007						X						
Address: 1601 N Turner St., Suite 500					City, State, Zip					Analysis and Method														RCRA
City, State, Zip Hobbs, NM, 88240					Phone:															State				
Phone: 580-748-1613					Email:															NM	CO	UT	AZ	TX
Email: tom@pimaoil.com					Pima Project # <u>1-166</u>															Remarks				
Report due by:																								
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0				BGDOC NM	BGDOC TX								
8:50	12/13/22	S	1	55 4'	11										X									
Additional Instructions: <u>B.T. To Daron Energy: #20868758</u>																								
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.										Samples requiring thermal preservation must be received on ice the day they are sampled or received and packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.														
Relinquished by: (Signature) <u>Med Rogers</u>					Date <u>12-13-22</u>		Time <u>2:00</u>		Received by: (Signature) <u>Michelle Cuyah</u>					Date <u>12-13-22</u>		Time <u>1400</u>		Lab Use Only						
Relinquished by: (Signature) <u>Michelle Cuyah</u>					Date <u>12-13-22</u>		Time <u>1600</u>		Received by: (Signature) <u>Cathy Chrt</u>					Date <u>12/14/22</u>		Time <u>10:45</u>		Received on ice: <u>(Y)</u> N						
Relinquished by: (Signature)					Date		Time		Received by: (Signature)					Date		Time		T1 T2 T3						
Sample Matrix: <u>(S) - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other</u>										Container Type: <u>(G) - glass, p - poly/plastic, ag - amber glass, v - VOA</u>														
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																								

Envirotech Analytical Laboratory

Printed: 12/14/2022 11:59:40AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Pima Environmental Services-Carlsbad	Date Received:	12/14/22 10:45	Work Order ID:	E212077
Phone:	(575) 631-6977	Date Logged In:	12/14/22 09:25	Logged In By:	Caitlin Christian
Email:	tom@pimaoil.com	Due Date:	12/20/22 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: UPSComments/ResolutionSample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
 - Sample ID? Yes
 - Date/Time Collected? Yes
 - Collectors name? No

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: na

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

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

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

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

CONDITIONS

Action 171952

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 171952
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	None	1/4/2023