

| | |
|----------------|---------------|
| Incident ID | NJMW131934923 |
| 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>180</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 | NJMW131934923 |
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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: 5/19/2023

email: dale.woodall@dn.com Telephone: 575-748-1838

OCD Only

Received by: _____ Date: _____

| | |
|----------------|---------------|
| Incident ID | NJMW131934923 |
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| 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: 5/19/2023

email: dale.woodall@dvn.com Telephone: 575-748-1838

OCD Only

Received by: OCD Date: 5/19/2023

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: 5/24/2023

Printed Name: Ashley Maxwell Title: Environmental Specialist



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

January 26, 2023

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

Bureau of Land Management
 Mr. Jim Amos
 620 East Green Street
 Carlsbad, NM 88220

Re: Site Assessment, Remediation, and Closure Report
Rigel 20 Fed Com #1H
API No. 30-015-39393
GPS: Latitude 32.6519922 Longitude -103.8990173
UL -- D, Sec. 20, T19S, R31E
Eddy County, NM
NMOCD Ref. No. NJMW1319349423

Pima Environmental Services, LLC. (Pima) has been contracted by Devon Energy Production Company, LP (Devon) to perform a spill assessment, remediation activities, and submit this closure report for a crude oil release that occurred at the Rigel 20 Fed Com #1H (Rigel). The initial C-141 was submitted on July 5th, 2022 (Appendix C). This incident was assigned Incident ID NJMW1319349423 by the New Mexico Oil Conservation Division (NMOCD).

Site Characterization

The Rigel is located approximately twenty-five (25) miles northeast of Carlsbad, NM. This spill site is in Unit D, Section 20, Township 19S, Range 31E, Latitude 32.6519922 Longitude -103.8990173, Eddy County, NM. Figure 1 references a Location Map.

Per the New Mexico Bureau of Geology and Mineral Resources, the geology is in the Quaternary Formation- Eolian and piedmont deposits (Holocene to middle Pleistocene)-interlayered eolian sands and piedmont-slope deposits (QEP). The soil in this area is made up of Berino loamy fine sand, 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 well-drained. There is a low potential for karst geology to be present in the area of the Rigel (Figure 3).

According to the New Mexico Office of the State Engineer, depth to the nearest groundwater in this area is 180 feet below grade surface (BGS). According to the United States Geological Survey (USGS), the nearest groundwater is greater than 100 feet BGS. The closest waterway and is the Hackberry Lake, located approximately 2.1 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 |

Reference Figure 2 for a Topographic Map.

Release Information

NJMW1319349423: On June 21, 2013, an oil hauler truck over filled causing a 46 barrel (bbl) oil spill. On 6-21-13 at approximately 3 am, the night watchman was checking the battery and noticed the truck driver lying on the ground and oil running out of the transport truck. Actions were taken to stop the spill and a vac truck was dispatched and was able to recover 10 bbls of oil.

Remediation Activities, Site Assessment, and Soil Sampling Results

On July 27, 2020, Pima Environmental mobilized personnel to the site to assess the impacted area. Pima sampled areas around the containment in order to determine if contamination was released. An initial site map can be found in Figure 4.

7-27-20 Soil Sample Results

| NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is >100') | | | | | | | | |
|--|----------------|--------------------------------|------------------|--------------|--------------|--------------|--------------------|-------------|
| Sample 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 |
| N. Composite | 0 | ND | ND | ND | ND | ND | ND | 544 |
| S. Composite | 0 | ND | ND | ND | 1370 | 363 | 1370 | 1970 |
| E. Composite | 0 | ND | ND | ND | 1860 | 702 | 2562 | 1870 |
| W. Composite | 0 | ND | ND | ND | 188 | 96 | 284 | 1500 |
| BG-1 | 0 | ND | ND | ND | ND | ND | ND | 288 |
| BG-2 | 0 | ND | ND | ND | ND | ND | ND | 288 |
| BG-3 | 0 | ND | ND | ND | ND | ND | ND | ND |
| BG-4 | 0 | ND | ND | ND | ND | ND | ND | ND |

ND- Analyte Not Detected

Initial Remediation Activities: On August 25, 2020, Pima mobilized personnel and equipment to conduct remedial activities. The areas in the vicinity on the east and south sides of the containment were excavated to a depth of 1 foot deep. 5-point bottom and sidewall composite samples were obtained to ensure that the vertical and horizontal extents of the contamination had been removed. Each composite sample was representative of no more than 200 square feet. The laboratory results of this sampling event can be found in the following data table.

8-25-2020 Soil Sample Results

| NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is >100') | | | | | |
|--|----------------|--------------|--------------|--------------|--------------------|
| Sample Date 8-25-20 | | | | | |
| Sample ID | Depth (BGS) | GRO mg/kg | DRO mg/kg | MRO mg/kg | Total TPH mg/kg |
| S. Composite | 0 | ND | 44 | 170 | 214 |
| E. Composite | 0 | ND | ND | ND | ND |

ND- Analyte Not Detected

Complete laboratory reports can be found in Appendix E.

Countermeasures due to Rejection:

On January 16, 2023, Pima personnel returned to location and samples the area in front and adjacent to the LACT unit. Pima believes this region provides an accurate representation of the impacted area. A total of fifteen (15) samples were collected around the point of release. Laboratory results of this sampling event can be found in the following data table. The previous rejected closure report can be found in Appendix F.

1-16-2023 Soil Sample Results

| NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50') | | | | | | | | |
|---|----------------|--------------------------------|------------------|--------------|--------------|--------------|--------------------|-------------|
| DEVON ENERGY - RIGEL 20 FED COM 1H | | | | | | | | |
| Sample Date: 1/16/2023 | | 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 | CI mg/kg |
| S-1 | 1' | ND | ND | ND | ND | ND | 0 | 65.9 |
| | 2' | ND | ND | ND | ND | ND | 0 | ND |
| S-2 | 1' | ND | ND | ND | ND | ND | 0 | 567 |
| | 2' | ND | ND | ND | ND | ND | 0 | ND |
| S-3 | 1' | ND | ND | ND | ND | ND | 0 | 62.3 |
| | 2' | ND | ND | ND | ND | ND | 0 | ND |
| S-4 | 1' | ND | ND | ND | 25.6 | 53.9 | 79.5 | 186 |
| | 2' | ND | ND | ND | ND | ND | 0 | ND |
| S-5 | 1' | ND | ND | ND | ND | ND | 0 | 58.3 |
| | 2' | ND | ND | ND | ND | ND | 0 | ND |
| SW-1 | 6" | ND | ND | ND | ND | ND | 0 | ND |
| SW-2 | 6" | ND | ND | ND | ND | ND | 0 | ND |
| SW-3 | 6" | ND | ND | ND | ND | ND | 0 | ND |
| BG 1 | 6" | ND | ND | ND | ND | ND | 0 | ND |
| BG 2 | 6" | ND | ND | ND | ND | ND | 0 | ND |

ND- Analyte Not Detected

Complete laboratory reports can be found in Appendix E.

Pima Environmental believes groundwater levels have been adequately characterized to be less than 50' bgs. Also, horizontal and vertical delineation has been successfully determined. A revised site map can be found in Figure 5.

Based on the sample results, the bottoms and sidewalls were below NMOCD Closure Criteria 19.15.29 NMAC. In combination with the previous excavation of the eastern and southern portion of the release along with natural attenuation, we believe the impacted area has been adequately remediated. See Appendix D for Photographic Documentation.

Closure Request

Due to analytical levels falling below NMOCD closure criteria, no further action is required.

After careful review, Pima requests that this incident, NJMW1319349423 be closed. Devon has complied with the applicable closure requirements set forth in rule 19.15.19.12 NMAC.

Should you have any questions or need additional information, please feel free to contact Sebastian Orozco at 619-721-4813 or Sebastian@pimaoil.com.

Respectfully,

Sebastian Orozco

Sebastian Orozco
Environmental Professional
Pima Environment Services, LLC

Attachments

Figures:

- 1- Location Map
- 2- Topographic Map
- 3- Karst Map
- 4- Initial Site Map
- 5- Confirmation Site Map
- 6- Revised Site Map

Appendices:

- Appendix A – Referenced Water Surveys
- Appendix B – Soil Survey and Geological Data
- Appendix C – C-141 Form and Correspondence
- Appendix D – Photographic Documentation
- Appendix E – Laboratory Reports
- Appendix F – Rejected Closure Report



Pima Environmental Services

Figures:

1-Location Map

2- Topographic Map

3- Karst Map


4-Initial Site Map

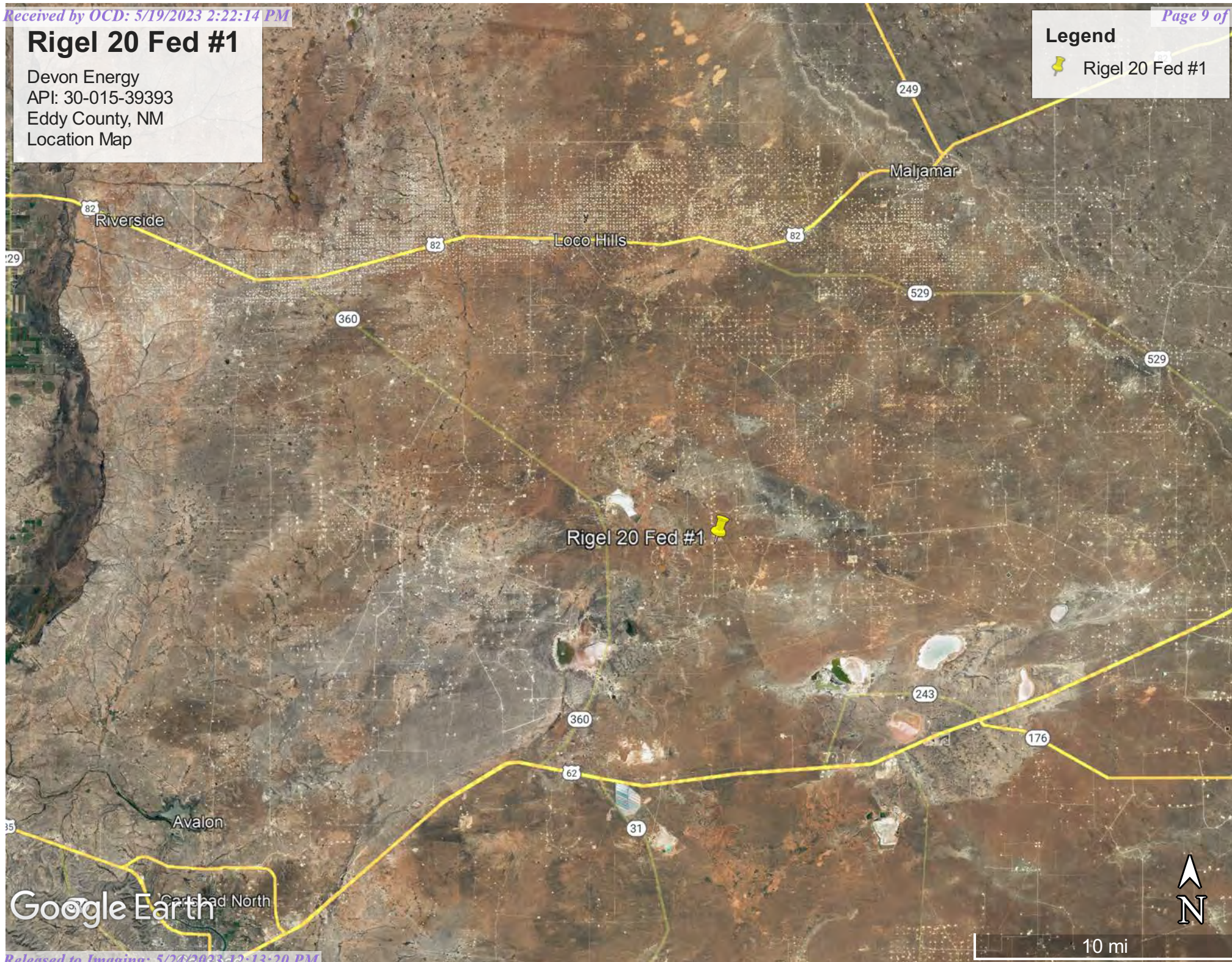
5-Revised Site Map

Rigel 20 Fed #1

Devon Energy
API: 30-015-39393
Eddy County, NM
Location Map

Legend

 Rigel 20 Fed #1




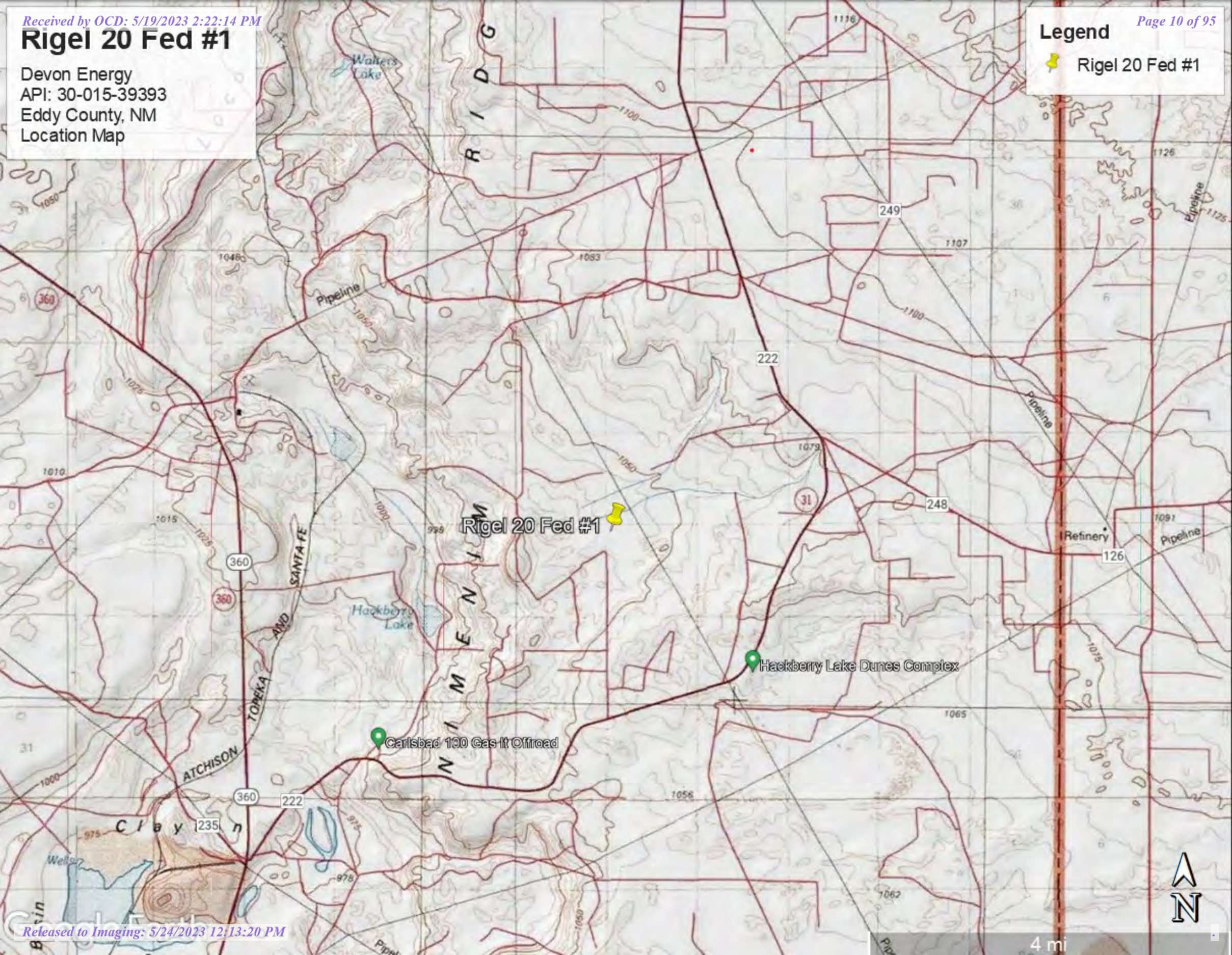
Google Earth

Rigel 20 Fed #1

Devon Energy
API: 30-015-39393
Eddy County, NM
Location Map

Legend

 Rigel 20 Fed #1



Rigel 20 Fed #1

Devon Energy
API: 30-015-39393
Eddy County, NM
Karst Map

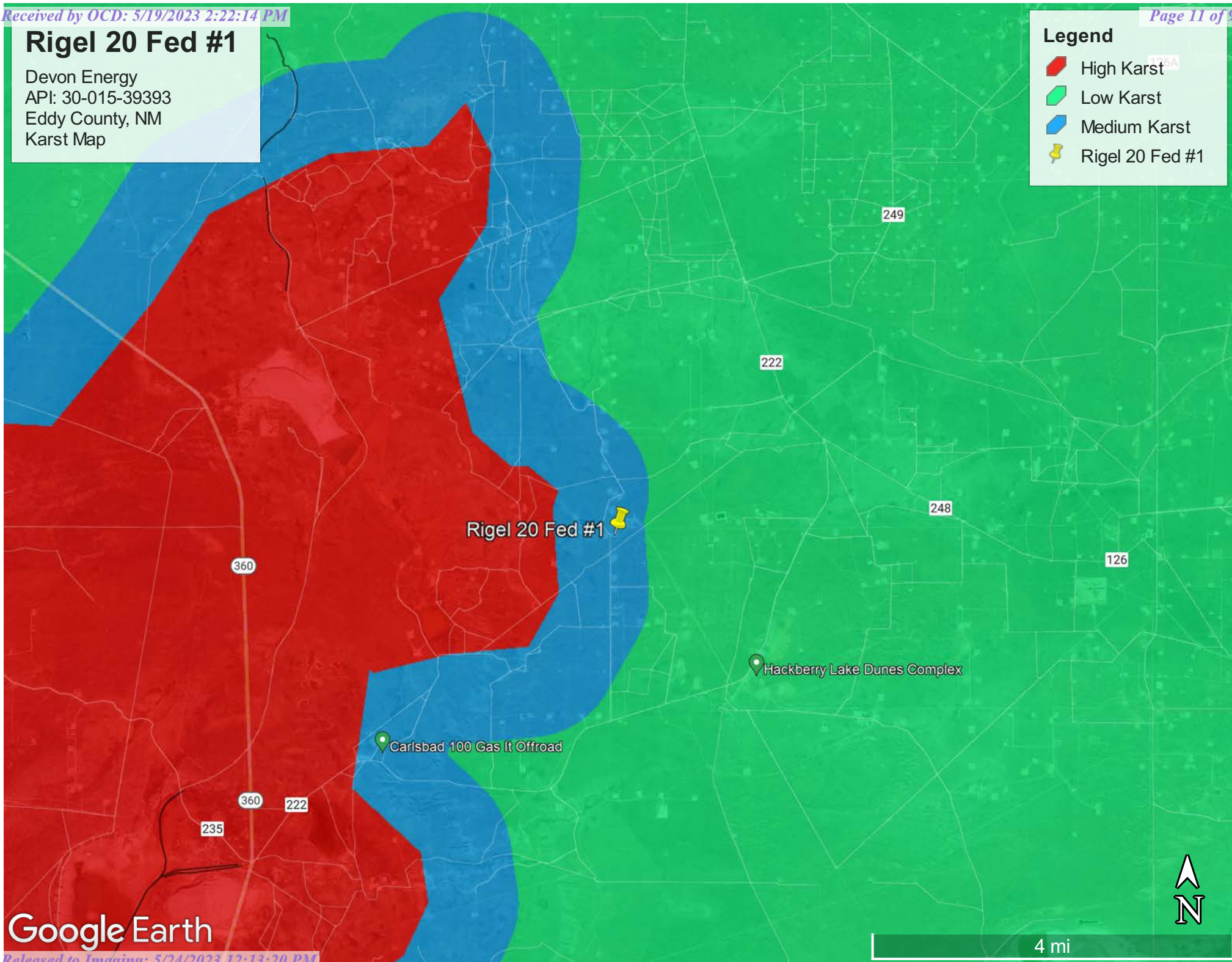
Legend

High Karst

Low Karst

Medium Karst

Rigel 20 Fed #1



Devon Energy

Rigel 20 Fed Com #1H
API 30-015-39393
Eddy County, NM
Initial Site Map

Legend

- Feature 1
- Spill Area

BG-4
S-3 North Comp
S-4 West Comp
S-1 South Comp
BG-1
BG-3
S-2 East Comp
BG-2

Rigel 20 Fed Com 1H

Google Earth





200 ft

Rigel 20 Fed Com #1H

Devon Energy
API: 30-015-39393
Eddy County, NM
Revised Site Map

Legend

-  Impacted Area
-  Soil Sample





Pima Environmental Services

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 | Code | POD 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* | 1485 | 340 | 180 | 160 |
| CP 01907 POD1 | | CP | ED | 4 | 2 | 2 | 18 | 19S | 31E | 603017 | 3614737 | 1513 | | | |
| CP 00357 POD1 | | CP | ED | 4 | 4 | 1 | 24 | 19S | 30E | 600667 | 3612631* | 2658 | 630 | | |
| CP 00829 POD1 | | CP | LE | 2 | 4 | 16 | 19S | 31E | | 606165 | 3614009* | 3009 | 120 | | |
| CP 00357 POD2 | | CP | ED | 4 | 3 | 1 | 24 | 19S | 30E | 600265 | 3612627* | 3052 | 630 | | |
| CP 00725 POD1 | | CP | ED | 1 | 3 | 3 | 28 | 19S | 31E | 604906 | 3610473* | 3224 | 231 | | |
| CP 00722 POD2 | | CP | ED | 2 | 1 | 1 | 25 | 19S | 30E | 600276 | 3611620* | 3391 | 350 | 65 | 285 |
| CP 00722 POD1 | | CP | LE | 4 | 3 | 3 | 28 | 19S | 31E | 605106 | 3610273* | 3499 | 200 | | |
| CP 00722 POD1 | R | CP | LE | 4 | 3 | 3 | 28 | 19S | 31E | 605106 | 3610273* | 3499 | 200 | | |
| CP 00723 POD1 | | CP | ED | 2 | 1 | 1 | 33 | 19S | 31E | 605111 | 3610071* | 3674 | 139 | | |
| CP 01554 POD2 | | CP | LE | 2 | 2 | 1 | 22 | 19S | 31E | 607165 | 3613322 | 3911 | 400 | | |
| CP 01554 POD1 | | CP | LE | 2 | 2 | 1 | 22 | 19S | 31E | 607166 | 3613354 | 3912 | 400 | | |
| CP 00722 POD3 | | CP | LE | 2 | 4 | 1 | 33 | 19S | 31E | 605519 | 3609673* | 4227 | 220 | 140 | 80 |

Average Depth to Water: **128 feet**

Minimum Depth: **65 feet**

Maximum Depth: **180 feet**

Record Count: 13

UTM NAD83 Radius Search (in meters):

Easting (X): 603254.63

Northing (Y): 3613242.53

Radius: 5000

*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.

1/18/23 12:09 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER



[USGS Home](#)
[Contact USGS](#)
[Search USGS](#)

National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater

Geographic Area:

United States

GO

Click to hide News Bulletins

- See the [Water Data for the Nation Blog](#) for the latest news and updates.

Groundwater levels for the Nation



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

Search Results -- 1 sites found

site_no list =

- 323734103523901

Minimum number of levels = 1

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

USGS 323734103523901 19S.31E.28.33124

Available data for this site

Groundwater: Field measurements

GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°37'34", Longitude 103°52'39" NAD27

Land-surface elevation 3,473 feet above NAVD88

The depth of the well is 230 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.

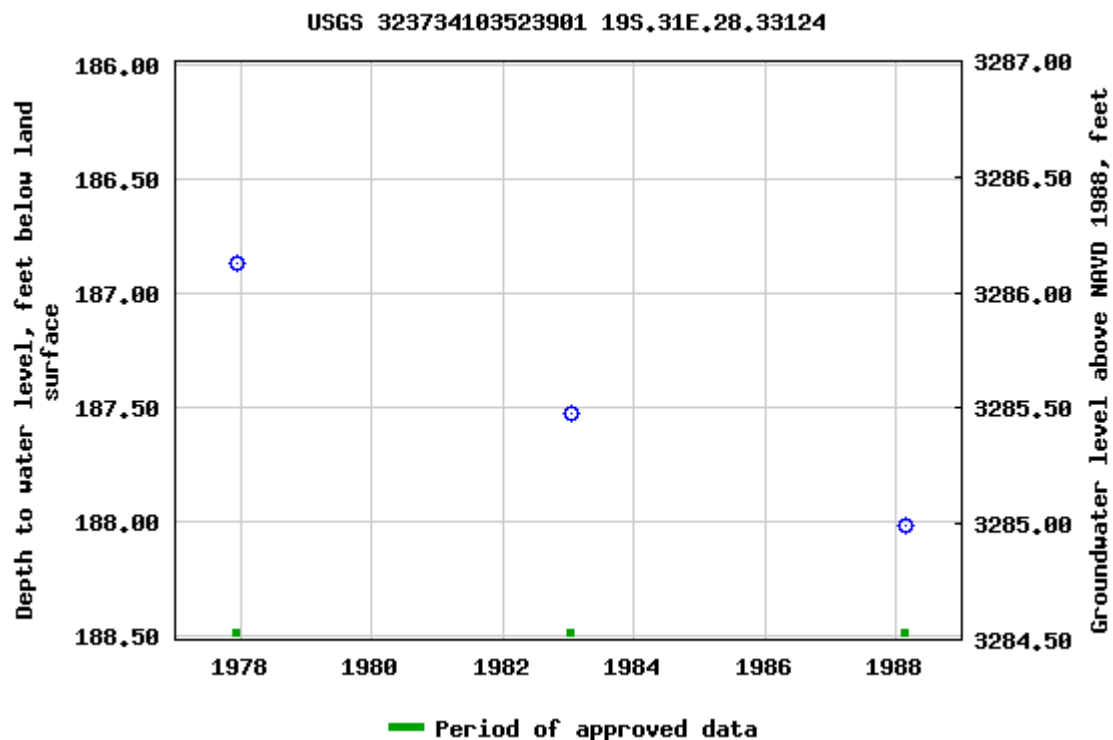
Output formats

[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: 2023-01-18 12:45:33 EST

0.6 0.51 nadww02



ADDENDUM

Location name: RIGEL 20 FEDERAL COM #001H

OCD Spill Number: nJMW1319349423

Spill date: 7/12/2013

From: Dale Woodall, Devon Energy

Date: 5/19/2023

Since the PIMA report for the above referenced spill was written, there has been an update in the status of the PODs for the location.

A review of New Mexico Office of the State Engineers (OSE) online water well database (New Mexico Office of the State Engineer (NMOSE) online water well database https://gis.ose.state.nm.us/gisapps/ose_pod_locations/).

One pod location is within 0.5 miles of the location and is less than 25 years old.

CP-01943 POD 1 (installed 4/6/2023) did not encounter groundwater at 55 feet and is 0.1 miles south of the location

The spill was remediated to criteria for DTW of greater than 51 feet bgs.

Boring log of the well CP-01943 POD1 is attached.



NORTH



C-01943- POD1 (51 feet) = 0.2 miles from location (4/6/2023)

| FIGURE 1: NM OSE POD LOCATIONS | |
|--------------------------------|---------------|
| RIGEL 20 FEDERAL COM 001H | |
| 32.6519922, -103.8990173 | |
| drawn by: RDW | Date: 05/2023 |

SOURCE: OSE NM POD LOCATON GIS MAP



2904 W 2nd St.
Roswell, NM 88201
voice: 575.624.2420
fax: 575.624.2421
www.atkinseng.com

April 27, 2023

DII-NMOSE
1900 W 2nd Street
Roswell, NM 88201

Hand Delivered to the DII Office of the State Engineer

Re: Well Record CP-1943 Pod-1

To whom it may concern:

Attached please find a well log & record and a plugging record, in duplicate, for a one (1) soil borings, CP-1943 Pod-1.

If you have any questions, please contact me at 575.499.9244 or lucas@atkinseng.com.

Sincerely,

A handwritten signature in black ink, appearing to read "Lucas Middleton".

Lucas Middleton

Enclosures: as noted above

• • • • •

CP-1943 Pod-1



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

05/19/2023 2:22:14 PM

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

FOR OSE INTERNAL USE

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

| | | |
|----------|-----------------|-------------|
| FILE NO. | POD NO. | TRN NO. |
| LOCATION | WELL TAG ID NO. | PAGE 1 OF 2 |

| 4. HYDROGEOLOGIC LOG OF WELL | DEPTH (feet bgl) | | THICKNESS (feet) | COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units) | WATER BEARING? (YES / NO) | ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm) |
|---|---|---|---------------------|--|---|--|
| | FROM | TO | | | | |
| | 0 | 4 | 4 | Sand, fine-grained, poorly graded, unconsolidated Brown | Y ✓ N | |
| | 4 | 25 | 21 | Caliche, with very fine- grained sand, Tan off white | Y ✓ N | |
| | 25 | 50 | 25 | Sand, fine-grained, poorly graded, consolidated, Brown | Y ✓ N | |
| | 50 | 55 | 5 | Sand, fine-grained, poorly graded, unconsolidated, Tan | Y ✓ N | |
| | | | | | Y N | |
| | | | | | Y N | |
| | | | | | Y N | |
| | | | | | Y N | |
| | | | | | Y N | |
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| | | | | | Y N | |
| | | | | | Y N | |
| | | | | | Y N | |
| | | | | | Y N | |
| | | | | | Y N | |
| METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY: | | | | | TOTAL ESTIMATED WELL YIELD (gpm): 0.00 | |
| 5. TEST; RIG SUPERVISION | WELL TEST | TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD. | | | | |
| | MISCELLANEOUS INFORMATION: Temporary well material removed and soil boring backfilled using drill cuttings from total depth to ten feet below ground surface(bgs), then hydrated bentonite chips ten feet bgs to surface. 5 Rigel 20 Fed Com 2H | | | | | |
| PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Shane Eldridge, Cameron Pruitt | | | | | | |
| 6. SIGNATURE | THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:  Jackie D. Atkins 4/26/23 _____ SIGNATURE OF DRILLER / PRINT SIGNEE NAME DATE | | | | | |

FOR USE INTERNAL USE

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

| | | |
|----------|---------|-----------------|
| FILE NO. | POD NO. | TRN NO. |
| LOCATION | | WELL TAG ID NO. |
| | | PAGE 2 OF 2 |



PLUGGING RECORD



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

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: CP-1943 POD-1
 Well owner: Devon Energy Phone No.: 575-748-1838
 Mailing address: 6488 7 Rivers Hwy
 City: Artesia State: New Mexico Zip code: 88210

II. WELL PLUGGING INFORMATION:

- 1) Name of well drilling company that plugged well: Jackie D. Atkins (Atkins Engineering Associates Inc.)
- 2) New Mexico Well Driller License No.: 1249 Expiration Date: 04/30/25
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s):
Shane Eldridge, Cameron Pruitt
- 4) Date well plugging began: 4/18/2023 Date well plugging concluded: 4/18/2023
- 5) GPS Well Location: Latitude: 32 deg, 38 min, 55.52 sec
 Longitude: 103 deg, 53 min, 58 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 55 ft below ground level (bgl),
 by the following manner: weighted tape
- 7) Static water level measured at initiation of plugging: n/a ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 1/11/2023
- 9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

- 10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

| <u>Depth</u> (ft bgl) | <u>Plugging Material Used</u> (include any additives used) | <u>Volume of Material Placed</u> (gallons) | <u>Theoretical Volume of Borehole/ Casing</u> (gallons) | <u>Placement Method</u> (tremie pipe, other) | <u>Comments</u> ("casing perforated first", "open annular space also plugged", etc.) |
|--------------------------|---|---|--|---|---|
| 0-10' | Hydrated Bentonite | Approx. 15 gallons | 15 gallons | Augers | |
| 10'-55' | Drill Cuttings | Approx. 71 gallons | 71 gallons | Boring | |

| | | |
|----------------------|----|------------|
| MULTIPLY | BY | AND OBTAIN |
| cubic feet x 7.4805 | = | gallons |
| cubic yards x 201.97 | = | gallons |

QCC 07 APR 27 2023 PM 1:45

III. SIGNATURE:

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

Jack Atkins

Signature of Well Driller

4/26/2023

Date






5-CP-1943-WR-20 Well Record and Log-forsign

Final Audit Report

2023-04-26

| | |
|-----------------|---|
| Created: | 2023-04-26 |
| By: | Lucas Middleton (lucas@atkinseng.com) |
| Status: | Signed |
| Transaction ID: | CBJCHBCAABAA3M6xOlg-t6yNQI8viEbQUdHXqVs7Hgo |

"5-CP-1943-WR-20 Well Record and Log-forsign" History

-  Document created by Lucas Middleton (lucas@atkinseng.com)
2023-04-26 - 8:18:33 PM GMT- IP address: 64.17.82.146
-  Document emailed to Jack Atkins (jack@atkinseng.com) for signature
2023-04-26 - 8:19:07 PM GMT
-  Email viewed by Jack Atkins (jack@atkinseng.com)
2023-04-26 - 8:23:05 PM GMT- IP address: 64.90.153.232
-  Document e-signed by Jack Atkins (jack@atkinseng.com)
Signature Date: 2023-04-26 - 8:23:43 PM GMT - Time Source: server- IP address: 64.90.153.232
-  Agreement completed.
2023-04-26 - 8:23:43 PM GMT

QSE DT APR 27 2023 PM 1:43





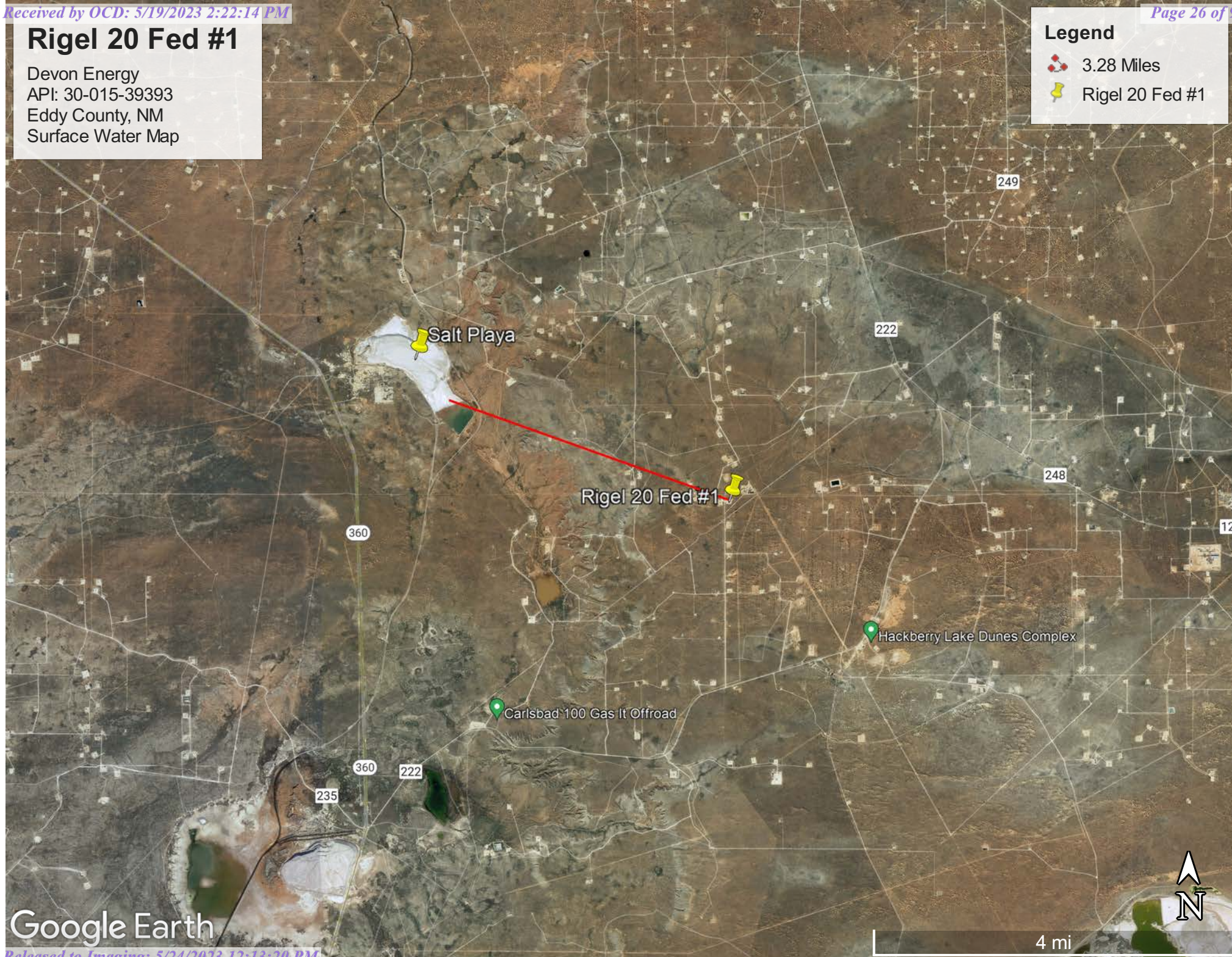
Adobe Acrobat Sign

Rigel 20 Fed #1

Devon Energy
API: 30-015-39393
Eddy County, NM
Surface Water Map

Legend

-  3.28 Miles
-  Rigel 20 Fed #1



Google Earth



Pima Environmental Services

Appendix B

Soil Survey & Geological Data

FEMA Flood Map

Wetlands Map

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

Eddy Area, New Mexico

BA—Berino loamy fine sand, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 1w42

Elevation: 2,000 to 5,700 feet

Mean annual precipitation: 6 to 14 inches

Mean annual air temperature: 57 to 70 degrees F

Frost-free period: 180 to 260 days

Farmland classification: Not prime farmland

Map Unit Composition

Berino and similar soils: 99 percent

Minor components: 1 percent

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

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 12 inches: loamy fine sand

H2 - 12 to 58 inches: sandy clay loam

H3 - 58 to 60 inches: clay loam

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 8.4 inches)

Interpretive groups

Land capability classification (irrigated): 3e

Land capability classification (nonirrigated): 7e

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

Hydrologic Soil Group: B
Ecological site: R070BC007NM - Loamy
Hydric soil rating: No

Minor Components

Pajarito

Percent of map unit: 1 percent
Ecological site: R070BD003NM - Loamy Sand
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°39'22"N



Legend

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

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

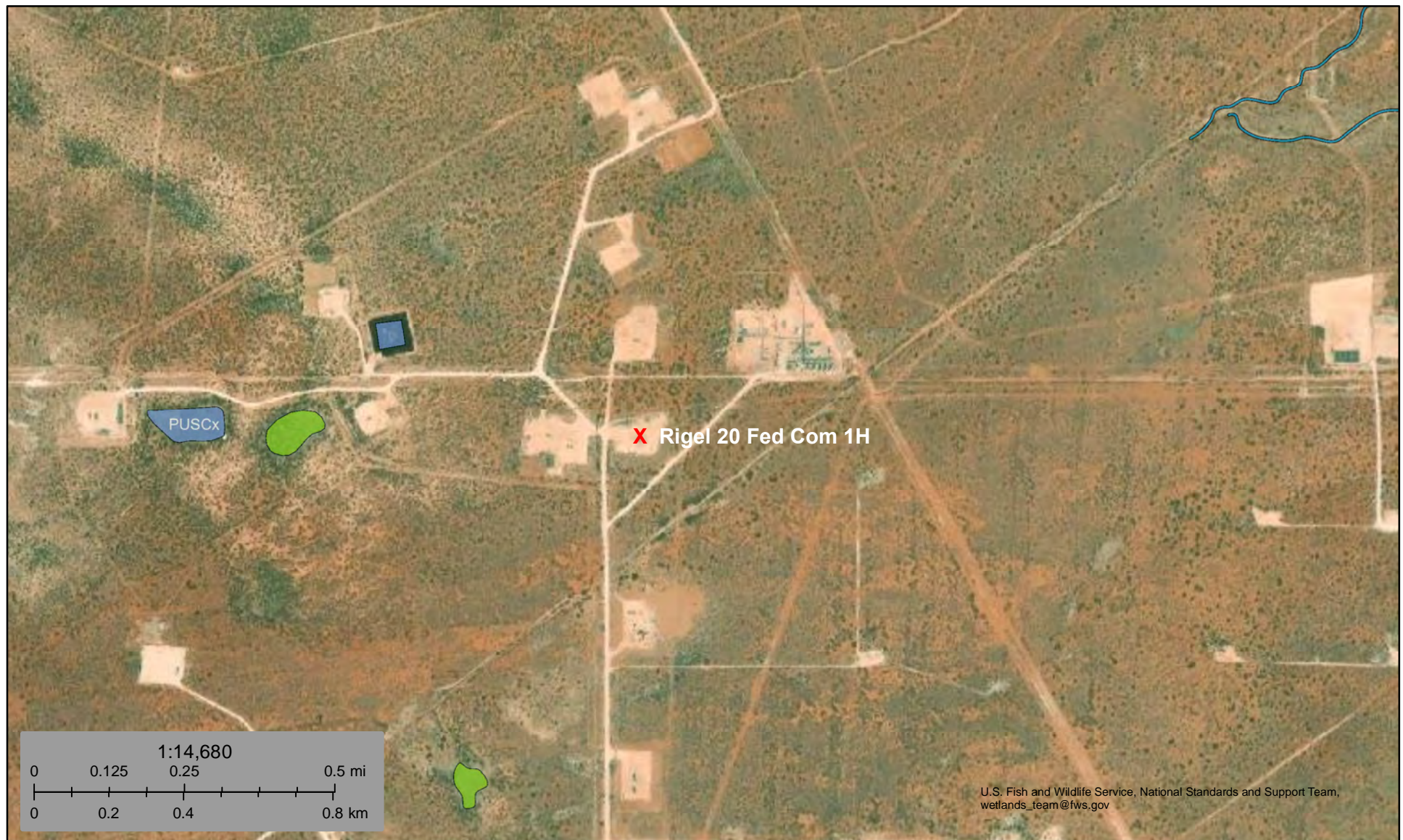
This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 1/18/2023 at 1:55 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



January 18, 2023

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

Correspondence

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised March 17, 1999

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

nJMW 1319349423

OPERATOR

☒ Initial Report ☐ Final Report

| | |
|--|---|
| Name of Company Devon Energy 6137 | Contact Mike McMahan, Assistant Foreman |
| Address P. O. Box 250 Artesia, NM 88211 | Telephone No. 575-706-4165 |
| Facility Name Rigel 20 Fed #1 | Facility Type Oil Well |

| | | |
|---------------|---------------|-----------|
| Surface Owner | Mineral Owner | Lease No. |
|---------------|---------------|-----------|

LOCATION OF RELEASE

API# 30-015-39393

| | | | | | | | | |
|------------------|---------------|-----------------|--------------|----------------------|---------------------------|----------------------|------------------------|-----------------------|
| Unit Letter D | Section 20 | Township 19S | Range 31E | Feet from the 425 | North/South Line North | Feet from the 330 | East/West Line West | County Eddy County |
|------------------|---------------|-----------------|--------------|----------------------|---------------------------|----------------------|------------------------|-----------------------|

NATURE OF RELEASE

| | | |
|--|---|---|
| Type of Release Oil Spill | Volume of Release 46 bbls | Volume Recovered 10bbls |
| Source of Release Overflow | Date and Hour of Occurrence 6/21/13, 3:00AM | Date and Hour of Discovery 6/21/13, 3:00AM |
| Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required | If YES, To Whom? BLM (general voicemail) OCD/ Laura Tulk | |
| By Whom? Mike McMahan, Assistant Foreman | Date and Hour 06/24/13, BLM 2:00PM, OCD 2:10PM | |
| Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If YES, Volume Impacting the Watercourse. | |

If a Watercourse was Impacted, Describe Fully.*

N/A

Describe Cause of Problem and Remedial Action Taken.*

Class II NO SIF - At the Rigel 20-1 battery, oil hauler truck over filled causing a 46bbls oil spill.

Describe Area Affected and Cleanup Action Taken.* On 6-21-2013 @ approx 3:00 AM night watchmen was checking battery and location and noticed oil hauler lying on the ground and oil running out of the transport truck. Immediately the drivers condition was evaluated and actions to stop spill was taken. All foremen and lease operators were contacted and spill investigation was conducted. According to transport driver operator was loading oil, after truck was loaded (driver) went over the dike stairs to shut valve on oil tank and clear load line tripped and fell twisting and spraining his leg. After injury driver tried to crawl to truck to call for help, during the injury/Accident oil began to flow out of the vent on the transport trailer spilling approximately 46bbls of produced oil.

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: Graciela C. Bustamante | | OIL CONSERVATION DIVISION | |
| Printed Name: Graciela C. Bustamante | | Approved by District Supervisor: | Signed By <i>Mike McMahan</i> |
| Title: Field Admin. Support | | Approval Date: JUL 12 2013 | Expiration Date: |
| Date: 07/01/2013 Phone: (575) 746-5561 | | Conditions of Approval: Remediation per OCD Rule & Guidelines, & like approval by BLM. SUBMIT REMEDIATION PROPOSAL NO LATER THAN: <i>August 12, 2013</i> | |

* Attach Additional Sheets If Necessary

Attached ☐

2RP-1717

| | |
|----------------|---------------|
| Incident ID | NJMW131934923 |
| 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>180</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 | NJMW131934923 |
| 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 ProfessionalSignature: Dale Woodall Date: 5/19/2023email: dale.woodall@dn.com Telephone: 575-748-1838**OCD Only**

Received by: _____ Date: _____

| | |
|----------------|---------------|
| Incident ID | NJMW131934923 |
| 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: 5/19/2023

email: dale.woodall@dvn.com Telephone: 575-748-1838

OCD Only

Received by: OCD Date: 5/19/2024

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: 5/24/2023

Printed Name: Ashley Maxwell Title: Environmental Specialist

Spill nJMW1319349423

The nearest pod is 1 mile away with DTW at 180 feet (1/4/1998)

Dale Woodall

Environmental Professional

Hobbs, NM

Office: 575-748-1838

Mobile: 405-318-4697

Dale.Woodall@dvn.com

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>

Sent: Thursday, January 12, 2023 8:10 AM

To: Woodall, Dale <Dale.Woodall@dvn.com>

Subject: [EXTERNAL] The Oil Conservation Division (OCD) has rejected the application, Application ID: 10208

To whom it may concern (c/o Dale Woodall for Pima Environmental Services, LLC),

The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nJMW1319349423, for the following reasons:

- The depth to groundwater has not been adequately determined. When nearby wells are used to determine depth to groundwater, the wells should be no further than ½ mile away from the site, and data should be no more than 25 years old, and well construction information should be provided in the submission. The responsible party may choose to remediate to the most stringent levels listed in Table 1 of 19.15.29 NMAC in lieu of drilling to determine the depth to groundwater.
- Horizontal and vertical delineation submitted was incomplete and did not meet the requirements of 19.15.29.11 NMAC. The values for determination of horizontal impact are derived by either approved “background” values or Table I Closure Criteria for releases where groundwater is at a depth of 50 feet or less. This is especially important for “on-pad” releases to ensure the release did not extend to the “off-pad”/pasture area. A visual footprint on the surface is not sufficient to assess the horizontal extent of the release. Laboratory data must be provided as evidence of delineation efforts. Any sample exceeding approved “background” values or Table I Closure Criteria for releases where groundwater is at a depth of 50 feet or less requires additional samples for horizontal delineation.
- Submit a work plan via the OCD permitting portal by 04/14/2023.

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 10208. Please review and make the required correction(s) prior to resubmitting.

If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional C-141.

Thank you,
Ashley Maxwell
Projects Environmental Specialist - A
505-635-5000
Ashley.Maxwell@emnrd.nm.gov

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

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--
Gio Gomez
Project Manager
cell-806-782-1151
Office- 575-964-7740
Pima Environmental Services, LLC.



Pima Environmental Services

Appendix D

Photographic Documentation

Photographs



Completed







SITE PHOTOGRAPHS
PIMA ENVIRONMENTAL
Rigel 20 Federal Com #1H





Pima Environmental Services

Appendix E

Laboratory Reports



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

July 29, 2020

CHRIS JONES

PIMA ENVIROMENTAL

1601 N TURNER STE. 500

HOBBS, NM 88240

RE: RIGEL 20 FED COM 1H

Enclosed are the results of analyses for samples received by the laboratory on 07/28/20 9:05.

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". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 07/28/2020
Reported: 07/29/2020
Project Name: RIGEL 20 FED COM 1H
Project Number: 20754990
Project Location: DEVON - EDDY CO., NM

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

Sample ID: N. COMP (H001949-01)

| 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) 96.0 % 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 | 544 | 16.0 | 07/28/2020 | 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 | 07/28/2020 | ND | 208 | 104 | 200 | 0.448 | |
| DRO >C10-C28* | <10.0 | 10.0 | 07/28/2020 | ND | 200 | 99.8 | 200 | 1.20 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 07/28/2020 | ND | | | | | |

Surrogate: 1-Chlorooctane 99.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 109 % 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
Reported: 07/29/2020
Project Name: RIGEL 20 FED COM 1H
Project Number: 20754990
Project Location: DEVON - EDDY CO., NM

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

Sample ID: S. COMP (H001949-02)

| 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) 95.6 % 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 | 1970 | 16.0 | 07/28/2020 | ND | 432 | 108 | 400 | 3.77 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | S-04 | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 07/28/2020 | ND | 208 | 104 | 200 | 0.448 | |
| DRO >C10-C28* | 1370 | 10.0 | 07/28/2020 | ND | 200 | 99.8 | 200 | 1.20 | |
| EXT DRO >C28-C36 | 363 | 10.0 | 07/28/2020 | ND | | | | | |

Surrogate: 1-Chlorooctane 101 % 44.3-144

Surrogate: 1-Chlorooctadecane 166 % 42.2-156

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 07/28/2020
Reported: 07/29/2020
Project Name: RIGEL 20 FED COM 1H
Project Number: 20754990
Project Location: DEVON - EDDY CO., NM

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

Sample ID: E. COMP (H001949-03)

| 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, SM4500CI-B | | mg/kg | | Analyzed By: GM | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 1870 | 16.0 | 07/28/2020 | ND | 432 | 108 | 400 | 3.77 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | S-04 | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|--------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 07/28/2020 | ND | 208 | 104 | 200 | 0.0970 | |
| DRO >C10-C28* | 1860 | 10.0 | 07/28/2020 | ND | 218 | 109 | 200 | 12.3 | QM-07 |
| EXT DRO >C28-C36 | 702 | 10.0 | 07/28/2020 | ND | | | | | |

Surrogate: 1-Chlorooctane 105 % 44.3-144

Surrogate: 1-Chlorooctadecane 192 % 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: 07/29/2020
Project Name: RIGEL 20 FED COM 1H
Project Number: 20754990
Project Location: DEVON - EDDY CO., NM

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

Sample ID: W. COMP (H001949-04)

| 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, SM4500CI-B | | mg/kg | | Analyzed By: GM | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 1500 | 16.0 | 07/28/2020 | 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 | 07/28/2020 | ND | 208 | 104 | 200 | 0.0970 | |
| DRO >C10-C28* | 188 | 10.0 | 07/28/2020 | ND | 218 | 109 | 200 | 12.3 | |
| EXT DRO >C28-C36 | 98.0 | 10.0 | 07/28/2020 | ND | | | | | |

Surrogate: 1-Chlorooctane 95.0 % 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: 07/29/2020
Project Name: RIGEL 20 FED COM 1H
Project Number: 20754990
Project Location: DEVON - EDDY CO., NM

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

Sample ID: BG 1 (H001949-05)

| 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) 95.6 % 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 | 288 | 16.0 | 07/28/2020 | 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 | 07/28/2020 | ND | 208 | 104 | 200 | 0.0970 | |
| DRO >C10-C28* | <10.0 | 10.0 | 07/28/2020 | ND | 218 | 109 | 200 | 12.3 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 07/28/2020 | ND | | | | | |

Surrogate: 1-Chlorooctane 101 % 44.3-144

Surrogate: 1-Chlorooctadecane 112 % 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: 07/29/2020
Project Name: RIGEL 20 FED COM 1H
Project Number: 20754990
Project Location: DEVON - EDDY CO., NM

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

Sample ID: BG 2 (H001949-06)

| 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) 95.7 % 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 | 288 | 16.0 | 07/28/2020 | 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 102 % 44.3-144

Surrogate: 1-Chlorooctadecane 112 % 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
Reported: 07/29/2020
Project Name: RIGEL 20 FED COM 1H
Project Number: 20754990
Project Location: DEVON - EDDY CO., NM

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

Sample ID: BG 3 (H001949-07)

| 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) 95.9 % 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 | <16.0 | 16.0 | 07/28/2020 | 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 102 % 44.3-144

Surrogate: 1-Chlorooctadecane 113 % 42.2-156

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 07/28/2020
Reported: 07/29/2020
Project Name: RIGEL 20 FED COM 1H
Project Number: 20754990
Project Location: DEVON - EDDY CO., NM

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

Sample ID: BG 4 (H001949-08)

| 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) 96.1 % 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 | 07/28/2020 | 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 101 % 44.3-144

Surrogate: 1-Chlorooctadecane 113 % 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

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 |

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

| | | | | | |
|--|--|-------------------------|--|------------------|--|
| Company Name: Pima Environmental | | P.O. #: 20754990 | | ANALYSIS REQUEST | |
| Project Manager: Chris Jones | | Company: Devon | | | |
| Address: 1601 N. Turner Ste 500 | | Attn: Tom Brown | | | |
| City: Hobbs | | Address: | | | |
| State: NM Zip: 88240 | | City: | | | |
| Phone #: 575-631-6977 Fax #: | | State: | | | |
| Project #: 20754990 Project Owner: | | Zip: | | | |
| Project Name: Rigel 20 Fed Court 1H | | Phone #: | | | |
| Project Location: EDDY NW | | Fax #: | | | |
| Sampler Name: Ward Newcomb | | | | | |

| Lab I.D. | Sample I.D. | (G)RAB OR (C)OMP. | # CONTAINERS | MATRIX | | | | | | | | | | DATE | TIME | REMARKS |
|----------|-------------|-------------------|--------------|-------------|------------|------|-----|--------|---------|------------|----------|---------|---------|------|----------|---------|
| | | | | GROUNDWATER | WASTEWATER | SOIL | OIL | SLUDGE | OTHER : | ACID/BASE: | ICE/COOL | OTHER : | | | | |
| 4001949 | 1 N. Comp | | | | | | | | | | | | 7/27/20 | 810 | BTEX | |
| | 2 S. Comp | | | | | | | | | | | | | 815 | TPH EXT | |
| | 3 E. Comp | | | | | | | | | | | | | 820 | chloride | |
| | 4 W. Comp | | | | | | | | | | | | | 825 | | |
| | 5 Bt 1 | | | | | | | | | | | | | 830 | | |
| | 6 Bt 2 | | | | | | | | | | | | | 835 | | |
| | 7 Bt 3 | | | | | | | | | | | | | 840 | | |
| | 8 Bt 4 | | | | | | | | | | | | | 845 | | |

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Relinquished By: **Devon** Date: **7-28-20** Received By: **Chris Jones** Date: **7-28-20**

Relinquished By: **Devon** Date: **7-28-20** Received By: **Chris Jones** Date: **7-28-20**

Delivered By: (Circle One) Observed Temp: **60.4** Sample Condition: **Intact** CHECKED BY: **Chris Jones** (Initials)

Sampler - UPS - Bus - Other: Corrected Temp. °C **70** Thermometer ID #113 Bacteria (only) ☒ Standard ☐ Rush ☐ Bacteria (only) ☐ Sample Condition: **Intact** Observed Temp. °C **70** Corrected Temp. °C **70**

REMARKS: **Bill to Devon**

Verbal Result: ☐ Yes ☐ No ☐ Add'l Phone #:

All Results are emailed. Please provide Email address:

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



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

September 15, 2020

Chris Jones

Pima Environmental Services LLC

1601 N. Turner Ste 500

Hobbs, NM 88240

TEL: (575) 631-6977

FAX:

RE: Rigel 20 Fed 1H

OrderNo.: 2009397

Dear Chris Jones:

Hall Environmental Analysis Laboratory received 2 sample(s) on 9/5/2020 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2009397

Date Reported: 9/15/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S.Comp

Project: Rigel 20 Fed 1H

Collection Date: 8/25/2020 10:00:00 AM

Lab ID: 2009397-001

Matrix: SOIL

Received Date: 9/5/2020 7:45:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|----------------------|---------------------|
| EPA METHOD 8015D MOD: GASOLINE RANGE | | | | | | | Analyst: DJF |
| Gasoline Range Organics (GRO) | ND | 4.9 | H | mg/Kg | 1 | 9/10/2020 7:48:37 PM | 55024 |
| Surr: BFB | 102 | 70-130 | H | %Rec | 1 | 9/10/2020 7:48:37 PM | 55024 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BRM |
| Diesel Range Organics (DRO) | 44 | 9.4 | H | mg/Kg | 1 | 9/11/2020 9:29:18 PM | 55054 |
| Motor Oil Range Organics (MRO) | 170 | 47 | H | mg/Kg | 1 | 9/11/2020 9:29:18 PM | 55054 |
| Surr: DNOP | 82.0 | 30.4-154 | H | %Rec | 1 | 9/11/2020 9:29:18 PM | 55054 |

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

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

Page 1 of 4

Analytical Report

Lab Order 2009397

Date Reported: 9/15/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: E-Comp

Project: Rigel 20 Fed 1H

Collection Date: 8/25/2020 10:05:00 AM

Lab ID: 2009397-002

Matrix: SOIL

Received Date: 9/5/2020 7:45:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|---------------------|
| EPA METHOD 8015D MOD: GASOLINE RANGE | | | | | | | Analyst: DJF |
| Gasoline Range Organics (GRO) | ND | 4.8 | H | mg/Kg | 1 | 9/10/2020 8:17:11 PM | 55024 |
| Surr: BFB | 103 | 70-130 | H | %Rec | 1 | 9/10/2020 8:17:11 PM | 55024 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BRM |
| Diesel Range Organics (DRO) | ND | 9.2 | H | mg/Kg | 1 | 9/10/2020 10:36:12 PM | 55054 |
| Motor Oil Range Organics (MRO) | ND | 46 | H | mg/Kg | 1 | 9/10/2020 10:36:12 PM | 55054 |
| Surr: DNOP | 99.1 | 30.4-154 | H | %Rec | 1 | 9/10/2020 10:36:12 PM | 55054 |

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

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

Page 2 of 4

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

WO#: 2009397

15-Sep-20

Client: Pima Environmental Services LLC**Project:** Rigel 20 Fed 1H

| Sample ID: MB-55054 | SampType: MBLK | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|--------------------------------|---------------------------------|--|-----------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 55054 | RunNo: 71762 | | | | | | | | |
| Prep Date: 9/9/2020 | Analysis Date: 9/10/2020 | SeqNo: 2510693 | | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | ND | 10 | | | | | | | | |
| Motor Oil Range Organics (MRO) | ND | 50 | | | | | | | | |
| Surr: DNOP | 9.6 | | 10.00 | | 96.2 | 30.4 | 154 | | | |

| Sample ID: LCS-55054 | SampType: LCS | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|-----------------------------|---------------------------------|--|-----------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 55054 | RunNo: 71762 | | | | | | | | |
| Prep Date: 9/9/2020 | Analysis Date: 9/10/2020 | SeqNo: 2510719 | | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 44 | 10 | 50.00 | 0 | 88.5 | 70 | 130 | | | |
| Surr: DNOP | 4.5 | | 5.000 | | 89.2 | 30.4 | 154 | | | |

| Sample ID: LCS-55091 | SampType: LCS | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|-----------------------------|---------------------------------|--|-----------|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 55091 | RunNo: 71809 | | | | | | | | |
| Prep Date: 9/10/2020 | Analysis Date: 9/11/2020 | SeqNo: 2512603 | | | Units: %Rec | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP | 5.3 | | 5.000 | | 105 | 30.4 | 154 | | | |

| Sample ID: MB-55091 | SampType: MBLK | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|-----------------------------|---------------------------------|--|-----------|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 55091 | RunNo: 71809 | | | | | | | | |
| Prep Date: 9/10/2020 | Analysis Date: 9/11/2020 | SeqNo: 2512604 | | | Units: %Rec | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP | 9.8 | | 10.00 | | 97.7 | 30.4 | 154 | | | |

Qualifiers:

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

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

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

WO#: 2009397

15-Sep-20

Client: Pima Environmental Services LLC**Project:** Rigel 20 Fed 1H

| Sample ID: mb-55024 | SampType: MBLK | TestCode: EPA Method 8015D Mod: Gasoline Range | | | | | | | | |
|-------------------------------|---------------------------------|---|-----------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 55024 | RunNo: 71767 | | | | | | | | |
| Prep Date: 9/8/2020 | Analysis Date: 9/10/2020 | SeqNo: 2511217 | | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND | 5.0 | | | | | | | | |
| Surr: BFB | 510 | | 500.0 | | 102 | 70 | 130 | | | |

| Sample ID: lcs-55024 | SampType: LCS | TestCode: EPA Method 8015D Mod: Gasoline Range | | | | | | | | |
|-------------------------------|---------------------------------|---|-----------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 55024 | RunNo: 71767 | | | | | | | | |
| Prep Date: 9/8/2020 | Analysis Date: 9/10/2020 | SeqNo: 2511218 | | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 22 | 5.0 | 25.00 | 0 | 87.6 | 70 | 130 | | | |
| Surr: BFB | 510 | | 500.0 | | 102 | 70 | 130 | | | |

| Sample ID: mb-55088 | SampType: MBLK | TestCode: EPA Method 8015D Mod: Gasoline Range | | | | | | | | |
|-----------------------------|---------------------------------|---|-----------|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 55088 | RunNo: 71789 | | | | | | | | |
| Prep Date: 9/10/2020 | Analysis Date: 9/11/2020 | SeqNo: 2511770 | | | Units: %Rec | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: BFB | 510 | | 500.0 | | 101 | 70 | 130 | | | |

| Sample ID: lcs-55088 | SampType: LCS | TestCode: EPA Method 8015D Mod: Gasoline Range | | | | | | | | |
|-----------------------------|---------------------------------|---|-----------|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 55088 | RunNo: 71789 | | | | | | | | |
| Prep Date: 9/10/2020 | Analysis Date: 9/11/2020 | SeqNo: 2511771 | | | Units: %Rec | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: BFB | 520 | | 500.0 | | 105 | 70 | 130 | | | |

Qualifiers:

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

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



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

Sample Log-In Check List

Client Name: Pima Environmental Services LLC

Work Order Number: 2009397

RcptNo: 1

Received By: Juan Rojas

9/5/2020 7:45:00 AM

Completed By: Juan Rojas

9/5/2020 9:02:23 AM

Reviewed By:

SR 9/5/20

Chain of Custody

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

Log In

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

of preserved bottles checked for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: SPA 9.5.20

Special Handling (if applicable)

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

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks: _____

17. Cooler Information

| Cooler No | Temp $^{\circ}\text{C}$ | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|-------------------------|-----------|-------------|---------|-----------|-----------|
| 1 | 1.4 | Good | | | | |
| 2 | 1.3 | Good | | | | |

Report to:
Tom Bynum



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pima Environmental Services-Carlsbad

Project Name: Rigel 20 Fed Com 1H

Work Order: E301093

Job Number: 01058-0007

Received: 1/18/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
1/23/23

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.
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.
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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: 1/23/23

Tom Bynum
PO Box 247
Plains, TX 79355-0247



Project Name: Rigel 20 Fed Com 1H
Workorder: E301093
Date Received: 1/18/2023 9:30:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/18/2023 9:30:00AM, under the Project Name: Rigel 20 Fed Com 1H.

The analytical test results summarized in this report with the Project Name: Rigel 20 Fed Com 1H 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
rainaschwanz@envirotech-inc.com

Alexa Michaels
Sample Custody Officer
Office: 505-632-1881
labadmin@envirotech-inc.com

Field Offices:

Southern New Mexico Area
Lynn Jarboe
Technical Representative/Client Services
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

West Texas Midland/Odessa Area
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 Com 1H | Reported: |
| PO Box 247 | Project Number: | 01058-0007 | |
| Plains TX, 79355-0247 | Project Manager: | Tom Bynum | 01/23/23 08:47 |

| Client Sample ID | Lab Sample ID | Matrix | Sampled | Received | Container |
|------------------|---------------|--------|----------|----------|------------------|
| S1 - 1' | E301093-01A | Soil | 01/16/23 | 01/18/23 | Glass Jar, 2 oz. |
| S1 - 2' | E301093-02A | Soil | 01/16/23 | 01/18/23 | Glass Jar, 2 oz. |
| S2 - 1' | E301093-03A | Soil | 01/16/23 | 01/18/23 | Glass Jar, 2 oz. |
| S2 - 2' | E301093-04A | Soil | 01/16/23 | 01/18/23 | Glass Jar, 2 oz. |
| S3 - 1' | E301093-05A | Soil | 01/16/23 | 01/18/23 | Glass Jar, 2 oz. |
| S3 - 2' | E301093-06A | Soil | 01/16/23 | 01/18/23 | Glass Jar, 2 oz. |
| S4 - 1' | E301093-07A | Soil | 01/16/23 | 01/18/23 | Glass Jar, 2 oz. |
| S4 - 2' | E301093-08A | Soil | 01/16/23 | 01/18/23 | Glass Jar, 2 oz. |
| S5 - 1' | E301093-09A | Soil | 01/16/23 | 01/18/23 | Glass Jar, 2 oz. |
| S5 - 2' | E301093-10A | Soil | 01/16/23 | 01/18/23 | Glass Jar, 2 oz. |
| SW1 | E301093-11A | Soil | 01/16/23 | 01/18/23 | Glass Jar, 2 oz. |
| SW2 | E301093-12A | Soil | 01/16/23 | 01/18/23 | Glass Jar, 2 oz. |
| SW3 | E301093-13A | Soil | 01/16/23 | 01/18/23 | Glass Jar, 2 oz. |
| BG1 | E301093-14A | Soil | 01/16/23 | 01/18/23 | Glass Jar, 2 oz. |
| BG2 | E301093-15A | Soil | 01/16/23 | 01/18/23 | Glass Jar, 2 oz. |



Sample Data

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

Project Name: Rigel 20 Fed Com 1H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
1/23/2023 8:47:29AM

S1 - 1'

E301093-01

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | | | | | | |
| | mg/kg | mg/kg | Analyst: SL | | Batch: 2303039 | |
| Benzene | ND | 0.0250 | 1 | 01/17/23 | 01/19/23 | |
| Ethylbenzene | ND | 0.0250 | 1 | 01/17/23 | 01/19/23 | |
| Toluene | ND | 0.0250 | 1 | 01/17/23 | 01/19/23 | |
| o-Xylene | ND | 0.0250 | 1 | 01/17/23 | 01/19/23 | |
| p,m-Xylene | ND | 0.0500 | 1 | 01/17/23 | 01/19/23 | |
| Total Xylenes | ND | 0.0250 | 1 | 01/17/23 | 01/19/23 | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | | | | | |
| | | 101 % | 70-130 | 01/17/23 | 01/19/23 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | Analyst: SL | | Batch: 2303039 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 01/17/23 | 01/19/23 | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | | | | | |
| | | 91.3 % | 70-130 | 01/17/23 | 01/19/23 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | Analyst: KM | | Batch: 2303050 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 01/18/23 | 01/19/23 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 01/18/23 | 01/19/23 | |
| <i>Surrogate: n-Nonane</i> | | | | | | |
| | | 106 % | 50-200 | 01/18/23 | 01/19/23 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | Analyst: KL | | Batch: 2303053 | |
| Chloride | 65.9 | 20.0 | 1 | 01/18/23 | 01/19/23 | |



Sample Data

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

Project Name: Rigel 20 Fed Com 1H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
1/23/2023 8:47:29AM

S1 - 2'

E301093-02

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|----------|-------------|----------|----------------|
| Volatile Organics by EPA 8021B | | | | | | |
| | mg/kg | mg/kg | | Analyst: SL | | Batch: 2303039 |
| Benzene | ND | 0.0250 | 1 | 01/17/23 | 01/19/23 | |
| Ethylbenzene | ND | 0.0250 | 1 | 01/17/23 | 01/19/23 | |
| Toluene | ND | 0.0250 | 1 | 01/17/23 | 01/19/23 | |
| o-Xylene | ND | 0.0250 | 1 | 01/17/23 | 01/19/23 | |
| p,m-Xylene | ND | 0.0500 | 1 | 01/17/23 | 01/19/23 | |
| Total Xylenes | ND | 0.0250 | 1 | 01/17/23 | 01/19/23 | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | | | | | |
| | | 102 % | 70-130 | 01/17/23 | 01/19/23 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | | Analyst: SL | | Batch: 2303039 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 01/17/23 | 01/19/23 | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | | | | | |
| | | 88.3 % | 70-130 | 01/17/23 | 01/19/23 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | | Analyst: KM | | Batch: 2303050 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 01/18/23 | 01/19/23 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 01/18/23 | 01/19/23 | |
| <i>Surrogate: n-Nonane</i> | | | | | | |
| | | 109 % | 50-200 | 01/18/23 | 01/19/23 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | | Analyst: KL | | Batch: 2303053 |
| Chloride | ND | 20.0 | 1 | 01/18/23 | 01/19/23 | |



Sample Data

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

Project Name: Rigel 20 Fed Com 1H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
1/23/2023 8:47:29AM

S2 - 1'

E301093-03

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|----------|-------------|----------|----------------|
| Volatile Organics by EPA 8021B | | | | | | |
| | mg/kg | mg/kg | | Analyst: SL | | Batch: 2303039 |
| Benzene | ND | 0.0250 | 1 | 01/17/23 | 01/19/23 | |
| Ethylbenzene | ND | 0.0250 | 1 | 01/17/23 | 01/19/23 | |
| Toluene | ND | 0.0250 | 1 | 01/17/23 | 01/19/23 | |
| o-Xylene | ND | 0.0250 | 1 | 01/17/23 | 01/19/23 | |
| p,m-Xylene | ND | 0.0500 | 1 | 01/17/23 | 01/19/23 | |
| Total Xylenes | ND | 0.0250 | 1 | 01/17/23 | 01/19/23 | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | | | | | |
| | 99.9 % | 70-130 | | 01/17/23 | 01/19/23 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | | Analyst: SL | | Batch: 2303039 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 01/17/23 | 01/19/23 | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | | | | | |
| | 91.4 % | 70-130 | | 01/17/23 | 01/19/23 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | | Analyst: KM | | Batch: 2303050 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 01/18/23 | 01/19/23 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 01/18/23 | 01/19/23 | |
| <i>Surrogate: n-Nonane</i> | | | | | | |
| | 107 % | 50-200 | | 01/18/23 | 01/19/23 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | | Analyst: KL | | Batch: 2303053 |
| Chloride | 567 | 20.0 | 1 | 01/18/23 | 01/19/23 | |



Sample Data

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

Project Name: Rigel 20 Fed Com 1H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
1/23/2023 8:47:29AM

S2 - 2'

E301093-04

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|----------|-------------|----------|----------------|
| Volatile Organics by EPA 8021B | | | | | | |
| | mg/kg | mg/kg | | Analyst: SL | | Batch: 2303039 |
| Benzene | ND | 0.0250 | 1 | 01/17/23 | 01/19/23 | |
| Ethylbenzene | ND | 0.0250 | 1 | 01/17/23 | 01/19/23 | |
| Toluene | ND | 0.0250 | 1 | 01/17/23 | 01/19/23 | |
| o-Xylene | ND | 0.0250 | 1 | 01/17/23 | 01/19/23 | |
| p,m-Xylene | ND | 0.0500 | 1 | 01/17/23 | 01/19/23 | |
| Total Xylenes | ND | 0.0250 | 1 | 01/17/23 | 01/19/23 | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | | | | | |
| | | 104 % | 70-130 | 01/17/23 | 01/19/23 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | | Analyst: SL | | Batch: 2303039 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 01/17/23 | 01/19/23 | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | | | | | |
| | | 87.1 % | 70-130 | 01/17/23 | 01/19/23 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | | Analyst: KM | | Batch: 2303050 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 01/18/23 | 01/19/23 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 01/18/23 | 01/19/23 | |
| <i>Surrogate: n-Nonane</i> | | | | | | |
| | | 105 % | 50-200 | 01/18/23 | 01/19/23 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | | Analyst: KL | | Batch: 2303053 |
| Chloride | ND | 20.0 | 1 | 01/18/23 | 01/19/23 | |



Sample Data

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

Project Name: Rigel 20 Fed Com 1H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
1/23/2023 8:47:29AM

S3 - 1'

E301093-05

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|----------|-------------|----------|----------------|
| Volatile Organics by EPA 8021B | | | | | | |
| | mg/kg | mg/kg | | Analyst: SL | | Batch: 2303039 |
| Benzene | ND | 0.0250 | 1 | 01/17/23 | 01/19/23 | |
| Ethylbenzene | ND | 0.0250 | 1 | 01/17/23 | 01/19/23 | |
| Toluene | ND | 0.0250 | 1 | 01/17/23 | 01/19/23 | |
| o-Xylene | ND | 0.0250 | 1 | 01/17/23 | 01/19/23 | |
| p,m-Xylene | ND | 0.0500 | 1 | 01/17/23 | 01/19/23 | |
| Total Xylenes | ND | 0.0250 | 1 | 01/17/23 | 01/19/23 | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | | | | | |
| | 99.6 % | 70-130 | | 01/17/23 | 01/19/23 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | | Analyst: SL | | Batch: 2303039 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 01/17/23 | 01/19/23 | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | | | | | |
| | 92.7 % | 70-130 | | 01/17/23 | 01/19/23 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | | Analyst: KM | | Batch: 2303050 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 01/18/23 | 01/19/23 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 01/18/23 | 01/19/23 | |
| <i>Surrogate: n-Nonane</i> | | | | | | |
| | 107 % | 50-200 | | 01/18/23 | 01/19/23 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | | Analyst: KL | | Batch: 2303053 |
| Chloride | 62.3 | 20.0 | 1 | 01/18/23 | 01/19/23 | |



Sample Data

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

Project Name: Rigel 20 Fed Com 1H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
1/23/2023 8:47:29AM

S3 - 2'

E301093-06

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|----------|-------------|----------|----------------|
| Volatile Organics by EPA 8021B | | | | | | |
| | mg/kg | mg/kg | | Analyst: SL | | Batch: 2303039 |
| Benzene | ND | 0.0250 | 1 | 01/17/23 | 01/19/23 | |
| Ethylbenzene | ND | 0.0250 | 1 | 01/17/23 | 01/19/23 | |
| Toluene | ND | 0.0250 | 1 | 01/17/23 | 01/19/23 | |
| o-Xylene | ND | 0.0250 | 1 | 01/17/23 | 01/19/23 | |
| p,m-Xylene | ND | 0.0500 | 1 | 01/17/23 | 01/19/23 | |
| Total Xylenes | ND | 0.0250 | 1 | 01/17/23 | 01/19/23 | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | | | | | |
| | | 106 % | 70-130 | 01/17/23 | 01/19/23 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | | Analyst: SL | | Batch: 2303039 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 01/17/23 | 01/19/23 | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | | | | | |
| | | 90.1 % | 70-130 | 01/17/23 | 01/19/23 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | | Analyst: KM | | Batch: 2303050 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 01/18/23 | 01/19/23 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 01/18/23 | 01/19/23 | |
| <i>Surrogate: n-Nonane</i> | | | | | | |
| | | 107 % | 50-200 | 01/18/23 | 01/19/23 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | | Analyst: KL | | Batch: 2303053 |
| Chloride | ND | 20.0 | 1 | 01/18/23 | 01/19/23 | |



Sample Data

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

Project Name: Rigel 20 Fed Com 1H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
1/23/2023 8:47:29AM

S4 - 1'

E301093-07

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|----------|-------------|----------|----------------|
| Volatile Organics by EPA 8021B | | | | | | |
| | mg/kg | mg/kg | | Analyst: SL | | Batch: 2303039 |
| Benzene | ND | 0.0250 | 1 | 01/17/23 | 01/19/23 | |
| Ethylbenzene | ND | 0.0250 | 1 | 01/17/23 | 01/19/23 | |
| Toluene | ND | 0.0250 | 1 | 01/17/23 | 01/19/23 | |
| o-Xylene | ND | 0.0250 | 1 | 01/17/23 | 01/19/23 | |
| p,m-Xylene | ND | 0.0500 | 1 | 01/17/23 | 01/19/23 | |
| Total Xylenes | ND | 0.0250 | 1 | 01/17/23 | 01/19/23 | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | | | | | |
| | | 102 % | 70-130 | 01/17/23 | 01/19/23 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | | Analyst: SL | | Batch: 2303039 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 01/17/23 | 01/19/23 | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | | | | | |
| | | 88.8 % | 70-130 | 01/17/23 | 01/19/23 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | | Analyst: KM | | Batch: 2303050 |
| Diesel Range Organics (C10-C28) | 25.6 | 25.0 | 1 | 01/18/23 | 01/19/23 | |
| Oil Range Organics (C28-C36) | 53.9 | 50.0 | 1 | 01/18/23 | 01/19/23 | |
| <i>Surrogate: n-Nonane</i> | | | | | | |
| | | 107 % | 50-200 | 01/18/23 | 01/19/23 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | | Analyst: KL | | Batch: 2303053 |
| Chloride | 186 | 20.0 | 1 | 01/18/23 | 01/19/23 | |



Sample Data

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

Project Name: Rigel 20 Fed Com 1H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
1/23/2023 8:47:29AM

S4 - 2'

E301093-08

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|----------|-------------|----------|----------------|
| Volatile Organics by EPA 8021B | | | | | | |
| | mg/kg | mg/kg | | Analyst: SL | | Batch: 2303039 |
| Benzene | ND | 0.0250 | 1 | 01/17/23 | 01/19/23 | |
| Ethylbenzene | ND | 0.0250 | 1 | 01/17/23 | 01/19/23 | |
| Toluene | ND | 0.0250 | 1 | 01/17/23 | 01/19/23 | |
| o-Xylene | ND | 0.0250 | 1 | 01/17/23 | 01/19/23 | |
| p,m-Xylene | ND | 0.0500 | 1 | 01/17/23 | 01/19/23 | |
| Total Xylenes | ND | 0.0250 | 1 | 01/17/23 | 01/19/23 | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | | | | | |
| | | 103 % | 70-130 | 01/17/23 | 01/19/23 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | | Analyst: SL | | Batch: 2303039 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 01/17/23 | 01/19/23 | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | | | | | |
| | | 90.0 % | 70-130 | 01/17/23 | 01/19/23 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | | Analyst: KM | | Batch: 2303050 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 01/18/23 | 01/19/23 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 01/18/23 | 01/19/23 | |
| <i>Surrogate: n-Nonane</i> | | | | | | |
| | | 105 % | 50-200 | 01/18/23 | 01/19/23 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | | Analyst: KL | | Batch: 2303053 |
| Chloride | ND | 20.0 | 1 | 01/18/23 | 01/19/23 | |



Sample Data

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

Project Name: Rigel 20 Fed Com 1H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
1/23/2023 8:47:29AM

S5 - 1'

E301093-09

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|----------|-------------|----------|----------------|
| Volatile Organics by EPA 8021B | | | | | | |
| | mg/kg | mg/kg | | Analyst: SL | | Batch: 2303039 |
| Benzene | ND | 0.0250 | 1 | 01/17/23 | 01/19/23 | |
| Ethylbenzene | ND | 0.0250 | 1 | 01/17/23 | 01/19/23 | |
| Toluene | ND | 0.0250 | 1 | 01/17/23 | 01/19/23 | |
| o-Xylene | ND | 0.0250 | 1 | 01/17/23 | 01/19/23 | |
| p,m-Xylene | ND | 0.0500 | 1 | 01/17/23 | 01/19/23 | |
| Total Xylenes | ND | 0.0250 | 1 | 01/17/23 | 01/19/23 | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | | | | | |
| | | 100 % | 70-130 | 01/17/23 | 01/19/23 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | | Analyst: SL | | Batch: 2303039 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 01/17/23 | 01/19/23 | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | | | | | |
| | | 90.5 % | 70-130 | 01/17/23 | 01/19/23 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | | Analyst: KM | | Batch: 2303050 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 01/18/23 | 01/19/23 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 01/18/23 | 01/19/23 | |
| <i>Surrogate: n-Nonane</i> | | | | | | |
| | | 105 % | 50-200 | 01/18/23 | 01/19/23 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | | Analyst: KL | | Batch: 2303053 |
| Chloride | 58.3 | 20.0 | 1 | 01/18/23 | 01/19/23 | |



Sample Data

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

Project Name: Rigel 20 Fed Com 1H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
1/23/2023 8:47:29AM

S5 - 2'

E301093-10

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|----------|-------------|----------|----------------|
| Volatile Organics by EPA 8021B | | | | | | |
| | mg/kg | mg/kg | | Analyst: SL | | Batch: 2303039 |
| Benzene | ND | 0.0250 | 1 | 01/17/23 | 01/19/23 | |
| Ethylbenzene | ND | 0.0250 | 1 | 01/17/23 | 01/19/23 | |
| Toluene | ND | 0.0250 | 1 | 01/17/23 | 01/19/23 | |
| o-Xylene | ND | 0.0250 | 1 | 01/17/23 | 01/19/23 | |
| p,m-Xylene | ND | 0.0500 | 1 | 01/17/23 | 01/19/23 | |
| Total Xylenes | ND | 0.0250 | 1 | 01/17/23 | 01/19/23 | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | | | | | |
| | | 105 % | 70-130 | 01/17/23 | 01/19/23 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | | Analyst: SL | | Batch: 2303039 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 01/17/23 | 01/19/23 | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | | | | | |
| | | 86.7 % | 70-130 | 01/17/23 | 01/19/23 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | | Analyst: KM | | Batch: 2303050 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 01/18/23 | 01/19/23 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 01/18/23 | 01/19/23 | |
| <i>Surrogate: n-Nonane</i> | | | | | | |
| | | 106 % | 50-200 | 01/18/23 | 01/19/23 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | | Analyst: KL | | Batch: 2303053 |
| Chloride | ND | 20.0 | 1 | 01/18/23 | 01/19/23 | |



Sample Data

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

Project Name: Rigel 20 Fed Com 1H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
1/23/2023 8:47:29AM

SW1

E301093-11

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|----------|-------------|----------|----------------|
| Volatile Organics by EPA 8021B | | | | | | |
| | mg/kg | mg/kg | | Analyst: SL | | Batch: 2303039 |
| Benzene | ND | 0.0250 | 1 | 01/17/23 | 01/19/23 | |
| Ethylbenzene | ND | 0.0250 | 1 | 01/17/23 | 01/19/23 | |
| Toluene | ND | 0.0250 | 1 | 01/17/23 | 01/19/23 | |
| o-Xylene | ND | 0.0250 | 1 | 01/17/23 | 01/19/23 | |
| p,m-Xylene | ND | 0.0500 | 1 | 01/17/23 | 01/19/23 | |
| Total Xylenes | ND | 0.0250 | 1 | 01/17/23 | 01/19/23 | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | | | | | |
| | | 101 % | 70-130 | 01/17/23 | 01/19/23 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | | Analyst: SL | | Batch: 2303039 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 01/17/23 | 01/19/23 | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | | | | | |
| | | 89.2 % | 70-130 | 01/17/23 | 01/19/23 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | | Analyst: KM | | Batch: 2303050 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 01/18/23 | 01/19/23 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 01/18/23 | 01/19/23 | |
| <i>Surrogate: n-Nonane</i> | | | | | | |
| | | 106 % | 50-200 | 01/18/23 | 01/19/23 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | | Analyst: KL | | Batch: 2303053 |
| Chloride | ND | 20.0 | 1 | 01/18/23 | 01/19/23 | |



Sample Data

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

Project Name: Rigel 20 Fed Com 1H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
1/23/2023 8:47:29AM

SW2

E301093-12

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|----------|-------------|----------|----------------|
| Volatile Organics by EPA 8021B | | | | | | |
| | mg/kg | mg/kg | | Analyst: SL | | Batch: 2303039 |
| Benzene | ND | 0.0250 | 1 | 01/17/23 | 01/19/23 | |
| Ethylbenzene | ND | 0.0250 | 1 | 01/17/23 | 01/19/23 | |
| Toluene | ND | 0.0250 | 1 | 01/17/23 | 01/19/23 | |
| o-Xylene | ND | 0.0250 | 1 | 01/17/23 | 01/19/23 | |
| p,m-Xylene | ND | 0.0500 | 1 | 01/17/23 | 01/19/23 | |
| Total Xylenes | ND | 0.0250 | 1 | 01/17/23 | 01/19/23 | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | | | | | |
| | 99.1 % | 70-130 | | 01/17/23 | 01/19/23 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | | Analyst: SL | | Batch: 2303039 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 01/17/23 | 01/19/23 | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | | | | | |
| | 91.0 % | 70-130 | | 01/17/23 | 01/19/23 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | | Analyst: KM | | Batch: 2303050 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 01/18/23 | 01/19/23 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 01/18/23 | 01/19/23 | |
| <i>Surrogate: n-Nonane</i> | | | | | | |
| | 97.4 % | 50-200 | | 01/18/23 | 01/19/23 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | | Analyst: KL | | Batch: 2303053 |
| Chloride | ND | 20.0 | 1 | 01/18/23 | 01/19/23 | |



Sample Data

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

Project Name: Rigel 20 Fed Com 1H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
1/23/2023 8:47:29AM

SW3

E301093-13

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|----------|-------------|----------|----------------|
| Volatile Organics by EPA 8021B | | | | | | |
| | mg/kg | mg/kg | | Analyst: SL | | Batch: 2303039 |
| Benzene | ND | 0.0250 | 1 | 01/17/23 | 01/19/23 | |
| Ethylbenzene | ND | 0.0250 | 1 | 01/17/23 | 01/19/23 | |
| Toluene | ND | 0.0250 | 1 | 01/17/23 | 01/19/23 | |
| o-Xylene | ND | 0.0250 | 1 | 01/17/23 | 01/19/23 | |
| p,m-Xylene | ND | 0.0500 | 1 | 01/17/23 | 01/19/23 | |
| Total Xylenes | ND | 0.0250 | 1 | 01/17/23 | 01/19/23 | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | | | | | |
| | | 106 % | 70-130 | 01/17/23 | 01/19/23 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | | Analyst: SL | | Batch: 2303039 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 01/17/23 | 01/19/23 | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | | | | | |
| | | 92.9 % | 70-130 | 01/17/23 | 01/19/23 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | | Analyst: KM | | Batch: 2303050 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 01/18/23 | 01/19/23 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 01/18/23 | 01/19/23 | |
| <i>Surrogate: n-Nonane</i> | | | | | | |
| | | 103 % | 50-200 | 01/18/23 | 01/19/23 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | | Analyst: KL | | Batch: 2303053 |
| Chloride | ND | 20.0 | 1 | 01/18/23 | 01/19/23 | |



Sample Data

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

Project Name: Rigel 20 Fed Com 1H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
1/23/2023 8:47:29AM

BG1

E301093-14

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|----------|-------------|----------|----------------|
| Volatile Organics by EPA 8021B | | | | | | |
| | mg/kg | mg/kg | | Analyst: SL | | Batch: 2303039 |
| Benzene | ND | 0.0250 | 1 | 01/17/23 | 01/19/23 | |
| Ethylbenzene | ND | 0.0250 | 1 | 01/17/23 | 01/19/23 | |
| Toluene | ND | 0.0250 | 1 | 01/17/23 | 01/19/23 | |
| o-Xylene | ND | 0.0250 | 1 | 01/17/23 | 01/19/23 | |
| p,m-Xylene | ND | 0.0500 | 1 | 01/17/23 | 01/19/23 | |
| Total Xylenes | ND | 0.0250 | 1 | 01/17/23 | 01/19/23 | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | | | | | |
| | | 102 % | 70-130 | 01/17/23 | 01/19/23 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | | Analyst: SL | | Batch: 2303039 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 01/17/23 | 01/19/23 | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | | | | | |
| | | 89.4 % | 70-130 | 01/17/23 | 01/19/23 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | | Analyst: KM | | Batch: 2303050 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 01/18/23 | 01/19/23 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 01/18/23 | 01/19/23 | |
| <i>Surrogate: n-Nonane</i> | | | | | | |
| | | 108 % | 50-200 | 01/18/23 | 01/19/23 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | | Analyst: KL | | Batch: 2303053 |
| Chloride | ND | 20.0 | 1 | 01/18/23 | 01/19/23 | |



Sample Data

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

Project Name: Rigel 20 Fed Com 1H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
1/23/2023 8:47:29AM

BG2

E301093-15

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|----------|-------------|----------|----------------|
| Volatile Organics by EPA 8021B | | | | | | |
| | mg/kg | mg/kg | | Analyst: SL | | Batch: 2303039 |
| Benzene | ND | 0.0250 | 1 | 01/17/23 | 01/19/23 | |
| Ethylbenzene | ND | 0.0250 | 1 | 01/17/23 | 01/19/23 | |
| Toluene | ND | 0.0250 | 1 | 01/17/23 | 01/19/23 | |
| o-Xylene | ND | 0.0250 | 1 | 01/17/23 | 01/19/23 | |
| p,m-Xylene | ND | 0.0500 | 1 | 01/17/23 | 01/19/23 | |
| Total Xylenes | ND | 0.0250 | 1 | 01/17/23 | 01/19/23 | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | | | | | |
| | 99.4 % | 70-130 | | 01/17/23 | 01/19/23 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | | Analyst: SL | | Batch: 2303039 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 01/17/23 | 01/19/23 | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | | | | | |
| | 92.4 % | 70-130 | | 01/17/23 | 01/19/23 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | | Analyst: KM | | Batch: 2303050 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 01/18/23 | 01/19/23 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 01/18/23 | 01/19/23 | |
| <i>Surrogate: n-Nonane</i> | | | | | | |
| | 107 % | 50-200 | | 01/18/23 | 01/19/23 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | | Analyst: KL | | Batch: 2303053 |
| Chloride | ND | 20.0 | 1 | 01/18/23 | 01/19/23 | |



QC Summary Data

| | | | |
|--------------------------------------|------------------|---------------------|---------------------|
| Pima Environmental Services-Carlsbad | Project Name: | Rigel 20 Fed Com 1H | Reported: |
| PO Box 247 | Project Number: | 01058-0007 | |
| Plains TX, 79355-0247 | Project Manager: | Tom Bynum | 1/23/2023 8:47:29AM |

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 |
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|

Blank (2303039-BLK1)

Prepared: 01/17/23 Analyzed: 01/19/23

| | | | | | | | | | |
|-------------------------------------|------|--------|------|--|------|--------|--|--|--|
| 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 | 7.58 | | 8.00 | | 94.8 | 70-130 | | | |

LCS (2303039-BS1)

Prepared: 01/17/23 Analyzed: 01/19/23

| | | | | | | | | | |
|-------------------------------------|------|--------|------|--|------|--------|--|--|--|
| Benzene | 4.66 | 0.0250 | 5.00 | | 93.2 | 70-130 | | | |
| Ethylbenzene | 5.03 | 0.0250 | 5.00 | | 101 | 70-130 | | | |
| Toluene | 5.07 | 0.0250 | 5.00 | | 101 | 70-130 | | | |
| o-Xylene | 5.17 | 0.0250 | 5.00 | | 103 | 70-130 | | | |
| p,m-Xylene | 10.2 | 0.0500 | 10.0 | | 102 | 70-130 | | | |
| Total Xylenes | 15.4 | 0.0250 | 15.0 | | 102 | 70-130 | | | |
| Surrogate: 4-Bromochlorobenzene-PID | 7.72 | | 8.00 | | 96.5 | 70-130 | | | |

LCS Dup (2303039-BSD1)

Prepared: 01/17/23 Analyzed: 01/19/23

| | | | | | | | | | |
|-------------------------------------|------|--------|------|--|------|--------|------|----|--|
| Benzene | 4.82 | 0.0250 | 5.00 | | 96.5 | 70-130 | 3.46 | 20 | |
| Ethylbenzene | 5.24 | 0.0250 | 5.00 | | 105 | 70-130 | 4.14 | 20 | |
| Toluene | 5.26 | 0.0250 | 5.00 | | 105 | 70-130 | 3.78 | 20 | |
| o-Xylene | 5.38 | 0.0250 | 5.00 | | 108 | 70-130 | 4.01 | 20 | |
| p,m-Xylene | 10.6 | 0.0500 | 10.0 | | 106 | 70-130 | 4.14 | 20 | |
| Total Xylenes | 16.0 | 0.0250 | 15.0 | | 107 | 70-130 | 4.10 | 20 | |
| Surrogate: 4-Bromochlorobenzene-PID | 7.74 | | 8.00 | | 96.7 | 70-130 | | | |



QC Summary Data

| | | | |
|--------------------------------------|------------------|---------------------|--------------------------------------|
| Pima Environmental Services-Carlsbad | Project Name: | Rigel 20 Fed Com 1H | Reported: 1/23/2023 8:47:29AM |
| PO Box 247 | Project Number: | 01058-0007 | |
| Plains TX, 79355-0247 | Project Manager: | Tom Bynum | |

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 |
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|

Blank (2303039-BLK1) Prepared: 01/17/23 Analyzed: 01/19/23

| | | | | | | | | | |
|---|------|------|------|--|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | | | | | | | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.59 | | 8.00 | | 94.9 | 70-130 | | | |

LCS (2303039-BS2) Prepared: 01/17/23 Analyzed: 01/19/23

| | | | | | | | | | |
|---|------|------|------|--|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | 54.1 | 20.0 | 50.0 | | 108 | 70-130 | | | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.25 | | 8.00 | | 90.6 | 70-130 | | | |

LCS Dup (2303039-BSD2) Prepared: 01/17/23 Analyzed: 01/20/23

| | | | | | | | | | |
|---|------|------|------|--|------|--------|------|----|--|
| Gasoline Range Organics (C6-C10) | 46.3 | 20.0 | 50.0 | | 92.6 | 70-130 | 15.5 | 20 | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.70 | | 8.00 | | 96.2 | 70-130 | | | |



QC Summary Data

| | | | |
|--------------------------------------|------------------|---------------------|--------------------------------------|
| Pima Environmental Services-Carlsbad | Project Name: | Rigel 20 Fed Com 1H | Reported: 1/23/2023 8:47:29AM |
| PO Box 247 | Project Number: | 01058-0007 | |
| Plains TX, 79355-0247 | Project Manager: | Tom Bynum | |

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

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

| | | | | | | | | | |
|---------------------------------|------|------|------|--|---------------------------------------|--------|--|--|--|
| Blank (2303050-BLK1) | | | | | Prepared: 01/18/23 Analyzed: 01/19/23 | | | | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | | | | | | | |
| Oil Range Organics (C28-C36) | ND | 50.0 | | | | | | | |
| Surrogate: n-Nonane | 55.7 | | 50.0 | | 111 | 50-200 | | | |

| | | | | | | | | | |
|---------------------------------|------|------|------|--|---------------------------------------|--------|--|--|--|
| LCS (2303050-BS1) | | | | | Prepared: 01/18/23 Analyzed: 01/19/23 | | | | |
| Diesel Range Organics (C10-C28) | 264 | 25.0 | 250 | | 105 | 38-132 | | | |
| Surrogate: n-Nonane | 53.1 | | 50.0 | | 106 | 50-200 | | | |

| | | | | | | | | | |
|---------------------------------|------|------|------|----|--------------------|--------|---------------------------------------|--|--|
| Matrix Spike (2303050-MS1) | | | | | Source: E301093-02 | | Prepared: 01/18/23 Analyzed: 01/19/23 | | |
| Diesel Range Organics (C10-C28) | 276 | 25.0 | 250 | ND | 111 | 38-132 | | | |
| Surrogate: n-Nonane | 51.4 | | 50.0 | | 103 | 50-200 | | | |

| | | | | | | | | | |
|---------------------------------|------|------|------|----|--------------------|--------|---------------------------------------|----|--|
| Matrix Spike Dup (2303050-MSD1) | | | | | Source: E301093-02 | | Prepared: 01/18/23 Analyzed: 01/19/23 | | |
| Diesel Range Organics (C10-C28) | 276 | 25.0 | 250 | ND | 110 | 38-132 | 0.175 | 20 | |
| Surrogate: n-Nonane | 53.2 | | 50.0 | | 106 | 50-200 | | | |



QC Summary Data

| | | | |
|--------------------------------------|------------------|---------------------|---------------------|
| Pima Environmental Services-Carlsbad | Project Name: | Rigel 20 Fed Com 1H | Reported: |
| PO Box 247 | Project Number: | 01058-0007 | |
| Plains TX, 79355-0247 | Project Manager: | Tom Bynum | 1/23/2023 8:47:29AM |

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 (2303053-BLK1) | | | | | Prepared: 01/18/23 Analyzed: 01/19/23 | | | | |
| Chloride | ND | 20.0 | | | | | | | |
| LCS (2303053-BS1) | | | | | Prepared: 01/18/23 Analyzed: 01/19/23 | | | | |
| Chloride | 250 | 20.0 | 250 | | 100 | 90-110 | | | |
| Matrix Spike (2303053-MS1) | | | | | Source: E301093-01 | | Prepared: 01/18/23 Analyzed: 01/19/23 | | |
| Chloride | 308 | 20.0 | 250 | 65.9 | 97.0 | 80-120 | | | |
| Matrix Spike Dup (2303053-MSD1) | | | | | Source: E301093-01 | | Prepared: 01/18/23 Analyzed: 01/19/23 | | |
| Chloride | 311 | 20.0 | 250 | 65.9 | 98.1 | 80-120 | 0.905 | 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 1H | |
| PO Box 247 | Project Number: | 01058-0007 | Reported: |
| Plains TX, 79355-0247 | Project Manager: | Tom Bynum | 01/23/23 08:47 |

- 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>Pigel 20 Fed com 1 H</u> | | | | | Attention: <u>Devon</u> | | Lab WO# <u>E301093</u> | | Job Number <u>01058-0007</u> | | 1D | 2D | 3D | Standard | CWA | SDWA |
| Project Manager: Tom Bynum | | | | | Address: | | Analysis and Method | | | | | | | | RCRA | |
| Address: 5614 N. Lovington Hwy. | | | | | City, State, Zip | | | | | | | | | | | |
| City, State, Zip Hobbs, NM, 88240 | | | | | Phone: | | State | | | | | | | | NM | |
| Phone: 580-748-1613 | | | | | Email: | | | | | | | | | | | |
| Email: tom@pimaoil.com | | | | | Pima Project # <u>1-30-2</u> | | Remarks | | | | | | | | CO | |
| Report due by: | | | | | | | | | | | | | | | | |
| Time Sampled | Date Sampled | Matrix | No. of Containers | Sample ID | Lab Number | DRO/DRO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | BGDOC NM | BGDOC TX | | | |
| 9:45 | 1/10/23 | S | 1 | S1-1' | 1 | | | | | | | X | | | | |
| 9:50 | | | | S1-2' | 2 | | | | | | | | | | | |
| 9:55 | | | | S2-1' | 3 | | | | | | | | | | | |
| 10:00 | | | | S2-2' | 4 | | | | | | | | | | | |
| 10:05 | | | | S3-1' | 5 | | | | | | | | | | | |
| 10:10 | | | | S3-2' | 6 | | | | | | | | | | | |
| 10:15 | | | | S4-1' | 7 | | | | | | | | | | | |
| 10:20 | | | | S4-2' | 8 | | | | | | | | | | | |
| 10:25 | | | | S5-1' | 9 | | | | | | | | | | | |
| 10:30 | | | | S5-2' | 10 | | | | | | | | | | | |
| Additional Instructions: <u>Bill to Devon</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 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 | | | | | | | | |
| <u>[Signature]</u> | | 1-17-23 | 2:00 | <u>Michelle Gumpel</u> | | 1-17-23 | 1400 | Received on ice: <u>(Y)</u> N | | | | | | | | |
| Relinquished by: (Signature) | | Date | Time | Received by: (Signature) | | Date | Time | T1 T2 T3 | | | | | | | | |
| <u>Michelle Gumpel</u> | | 1-17-23 | 1700 | <u>Lorenzofen</u> | | 1-17-23 | 1715 | | | | | | | | | |
| Relinquished by: (Signature) | | Date | Time | Received by: (Signature) | | Date | Time | AVG Temp °C <u>4</u> | | | | | | | | |
| <u>Lorenzofen</u> | | 1-17-23 | 2345 | <u>Caitlin Chate</u> | | 1/18/23 | 9:30 | | | | | | | | | |
| Sample Matrix: <u>S</u> - Soil, <u>Sd</u> - Solid, <u>Sg</u> - Sludge, <u>A</u> - Aqueous, <u>O</u> - Other | | | | | | | | | | Container Type: <u>g</u> - glass, <u>p</u> - poly/plastic, <u>ag</u> - amber glass, <u>v</u> - 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: 1/18/2023 11:58:23AM

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: | 01/18/23 09:30 | Work Order ID: | E301093 |
| Phone: | (575) 631-6977 | Date Logged In: | 01/17/23 14:44 | Logged In By: | Caitlin Christian |
| Email: | tom@pimaoil.com | Due Date: | 01/24/23 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: CourierComments/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.



Pima Environmental Services

Appendix F

Rejected Closure Report



Pima Environmental Services, LLC
1601 N. Turner Ste 500
Hobbs, NM 88240
575-964-7740

September 15, 2020

NMOCD District 2
Mr. Mike Bratcher
811 S. First Street
Artesia, NM 88210

Bureau of Land Management
Mr. Jim Amos
620 East Green Street
Carlsbad, NM 88220

Re: Site Remediation and Closure Report
Rigel 20 Fed Com #1H
API No. 30-015-39393
GPS: Latitude 32.6519922 Longitude -103.8990173
UL "D", Sec. 20, T19S, R31E
Eddy County, NM
NMOCD Ref. No. 2RP-1717

Dear Mr. Bratcher and Mr. Amos,

Pima Environmental Services, LLC (Pima) has been contracted by Devon Energy Production Company (Devon) to perform a spill assessment and to perform remediation activities for an oil release that occurred at the Rigel 20 Fed Com #1H (Rigel). The initial C-141 was submitted on (Appendix C). This incident was assigned 2RP-1717, Incident ID NJMW1319349423, by the New Mexico Oil Conservation Division (NMOCD).

Site Characterization

The Rigel is located approximately twenty-five (25) miles northeast of Carlsbad, NM. This spill site is in Unit D, Section 20, Township 19S, Range 31E, Latitude 32.6519922, Longitude -103.8990173, Eddy County, NM. Figure 1 references a location map.

Per the New Mexico Bureau of Geology and Mineral Resources, the geology is in the Quaternary Formation- Eolian and piedmont deposits (Holocene to middle Pleistocene)-interlayered eolian sands and piedmont-slope deposits (QEP). The soil in this area is made up of Berino loamy fine sand, 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 well-drained. There is a low potential for karst geology to be present in the area of the Rigel (Figure 3).

According to the New Mexico Office of the State Engineer, depth to the nearest groundwater in this area is 180 feet below grade surface (BGS). According to the United States Geological Survey (USGS), the nearest groundwater is greater than 100 feet BGS. The closest waterway and is the Hackberry lake, located approximately 2.1 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 B) | Constituent & Limits | | | | |
| | Chlorides | Total TPH | GRO+DRO | BTEX | Benzene |
| 180' | 20,000 mg/kg | 2,500 mg/kg | 1,000 mg/kg | 50 mg/kg | 10 mg/kg |
| If the release occurred within any of the following areas, the responsible party would treat the release as if the groundwater was less than 50 feet per Rule 19.15.29 | | | | | |
| Water Issues | | | | Yes | No |
| Within 300 feet of any continuously flowing watercourse or any other significant watercourse | | | | | x |
| Within 200 feet of any lakebed, sinkhole, or playa lake (measures from the ordinary high-water mark) | | | | | x |
| Within 300 feet from an occupied permanent residence, school, hospital, institution, or church | | | | | x |
| Within 500 feet of a spring or a private, domestic freshwater well used by less than five households for domestic or stock water purposes | | | | | x |
| Within 1000 feet of any freshwater well or spring | | | | | x |
| Within incorporated municipal boundaries or within a defined municipal freshwater well field | | | | | x |
| Within 300 feet of a wetlands | | | | | x |
| Within the area overlying a subsurface mine | | | | | x |
| Within an unstable area (Karst) | | | | | x |
| Within a 100-year floodplain | | | | | x |

Reference Figure 2 for a TOPO Map.

Release Information

2RP-1717: On June 21, 2013, an oil hauler truck over filled causing a 46 barrel (bbl) oi spill. On 6-21-13 at approximately 3 am, the night watchman was checking the battery and noticed the truck driver lying on the ground and oil running out of the transport truck. Actions were taken to stop the spill and a vac truck was dispatched and was able to recover 10 bbls of oil.

Site Assessment and Soil Sampling Results

On July 27, 2020, Pima Environmental conducted a site assessment and obtained soil samples to get a more in-depth picture of the horizontal extent of the contamination. 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 >100') | | | | | | | | |
|--|-------------|--------------------------------|---------------|-----------|-----------|-----------|-----------------|----------|
| Sample Date 7-27-20 | | NM Approved Laboratory Results | | | | | | |
| Sample ID | Depth (BG5) | BTEX mg/kg | Benzene mg/kg | GRO mg/kg | DRO mg/kg | MRO mg/kg | Total TPH mg/kg | Cl mg/kg |
| N. Composite | 0 | ND | ND | ND | ND | ND | ND | 544 |
| S. Composite | 0 | ND | ND | ND | 1370 | 363 | 1370 | 1970 |
| E. Composite | 0 | ND | ND | ND | 1860 | 702 | 2562 | 1870 |
| W. Composite | 0 | ND | ND | ND | 188 | 96 | 284 | 1500 |
| BG-1 | 0 | ND | ND | ND | ND | ND | ND | 288 |
| BG-2 | 0 | ND | ND | ND | ND | ND | ND | 288 |
| BG-3 | 0 | ND | ND | ND | ND | ND | ND | ND |
| BG-4 | 0 | ND | ND | ND | ND | ND | ND | ND |

ND- Analyte Not Detected

Remediation Activities

On August 25, 2020, Pima mobilized personnel and equipment to conduct remedial activities. The areas in the vicinity on the east and south sides of the containment was excavated to a depth of 1 foot deep. 5-point bottom and sidewall composite samples were obtained to ensure that the vertical and horizontal extents of the contamination had been removed. Each composite sample was representative of no more than 200 square feet. The laboratory results of this sampling event can be found in the following data table.

8-25-20 Soil Sample Results

| NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is >100') | | | | | |
|--|-------------|-----------|-----------|-----------|-----------------|
| Sample Date 8-25-20 | | | | | |
| Sample ID | Depth (BGS) | GRO mg/kg | DRO mg/kg | MRO mg/kg | Total TPH mg/kg |
| S. Composite | 0 | ND | 44 | 170 | 214 |
| E. Composite | 0 | ND | ND | ND | ND |

ND- Analyte Not Detected

Complete Laboratory Reports are attached in Appendix C.

Based on the sample results, the bottom and sidewall composite samples were below NMOCD Closure Criteria 19.15.29 NMAC.

The contaminated material was transported to Lea Land, an NMOCD approved disposal site. The excavation was then backfilled with clean like material, machine compacted and contoured to match the surrounding terrain.

Closure Request

After careful review, Pima requests that this incident, NJMW1319349423, be closed. Devon has complied with the applicable closure requirements.

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

Respectfully,



Chris Jones
Environmental Professional
Pima Environmental Services, LLC

Attachments

Figures:

- 1- Location Map
- 2- TOPO Map
- 3- Karst Map
- 4- Site Map

Appendices:

- Appendix A- Referenced Water Surveys
- Appendix B- Soil Survey and Geological Data
- Appendix C- C-141's
- Appendix D- Photographic Documentation
- Appendix E- Laboratory Reports

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 218647

CONDITIONS

| | |
|---|---|
| Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102 | OGRID: 6137 |
| | Action Number: 218647 |
| | Action Type: [C-141] Release Corrective Action (C-141) |

CONDITIONS

| | | |
|------------|-----------|----------------|
| Created By | Condition | Condition Date |
| amaxwell | None | 5/24/2023 |