



MCollier@H-R_Enterprises.com 575-909-0326

Remediation and Closure Report

Red Hills Unit #016H
API# 30-025-42324
Incident# nAPP2202655097
Lea County, New Mexico

Prepared For:

Cimarex Energy Co. of Colorado
600 Marienfeld St.
Midland, TX 79701

Prepared By:

H&R Enterprises, LLC
5120 W. Kansas St.
Hobbs, New Mexico 88242

February 14, 2022

Mr. Mike Bratcher
NMOCD District I
1625 N. French Dr.
Hobbs, NM 88240

Subject: **Remediation and Closure Report**
Red Hills Unit #016H
API# 30-025-42324
Incident# nAPP2202655097
Lea County, NM

Dear Mr. Bratcher,

Cimarex Energy Co. of Colorado has contracted H&R Enterprises (H&R) to perform site assessment and remediation services at the above-referenced location. The results of our site assessment and reclamation activities are contained herein.

Site Information

The Red Hills Unit #016H is located approximately 33.6 miles West of Jal, New Mexico. The legal location for this release is Unit Letter C, Section 33, Township 25 South and Range 33 East in Lea County, New Mexico. More specifically the latitude and longitude for the release are 32.0911154 North and -103.5808688 West. Site plans are presented in [Appendix I](#).

According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Service, the soil in this area is made up of Pyote and Maljamar fine sands, 0 to 3 percent slopes. The referenced soil data is attached in [Appendix II](#). Drainage courses in this area are typically dry. The project site is not located in a high Karst potential area (Karst Map, [Appendix I](#)).

Groundwater and Site Characterization

The New Mexico Office of the State Engineer web site indicates that the nearest reported depth to groundwater is 280-feet below ground surface (BGS). See [Appendix II](#) for the referenced groundwater data.

If a release occurs within the following areas, the responsible party must treat the release as if it occurred less than 50 feet to the groundwater in Table I, New Mexico Oil Conservation Division (NMOCD) Rule 19.15.29, NMAC.

| | |
|---|---------------------|
| Approximate Depth to Groundwater | 280 Feet/BGS |
|---|---------------------|

| | |
|---|---|
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Within 300 feet of any continuously flowing watercourse or any other significant watercourse |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Within 200 feet of any lakebed, sinkhole, or a playa lake |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Within 300 feet from an occupied permanent residence, school, hospital, institution, or church |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Within 500 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 | Within 1000 feet of any freshwater well or spring |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Within incorporated municipal boundaries or within a defined municipal freshwater well field covered under a municipal ordinance adopted pursuant to Section 3-2703 NMSA 1978 |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Within 300 feet of a wetland |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Within the area overlying a subsurface mine |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Within an unstable area |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Within a 100-year floodplain |

As this location is in an area with a depth to groundwater of greater than 100-feet BGS, the closure criteria for this site are as follows:

| Table I | | | |
|---|-------------------|----------------------------------|--------------|
| Closure Criteria for Soils Impacted by a Release | | | |
| Minimum depth below any point within the horizontal boundary of the release to ground water less than 10,000 mg/l TDS | Constituent | Method* | Limit** |
| >100 feet | Chloride ** | EPA 300.0 or SM4500 CIB | 20,000 mg/kg |
| | TPH (GRO+DRO+MRO) | EPA SW-846 Method 8015M | 2500 mg/kg |
| | GRO+DRO | EPA SW-846 Method 8015M | 1,000 mg/kg |
| | BTEX | EPA SW-846 Method 8021B or 8260B | 50 mg/kg |
| | Benzene | EPA SW-846 Method 8021B or 8260B | 10 mg/kg |

Incident Description

On January 25, 2022, Cimarex personnel discovered that illegal dumping of an unknown fluid had taken place on the Northeast corner of the location. According to spill calculation measurements, it is believed that 23 barrels (bbls) of fluid were dumped on the location. An initial C-141 was submitted on January 26, 2022 and is provided in [Appendix III](#). The incident number assigned to this release by NMOCD is nAPP2202655097.

Site Assessment

On January 26, 2022, H&R mobilized personnel to perform site assessment and sampling activities of the impacted area. Grab samples were obtained by way of hand trowel and transported to Cardinal Laboratories for testing. Analytical results from that assessment are presented in the following data table. Initial site assessment sample locations are illustrated on the Site Assessment Map, [Appendix I](#). Photo documentation of the spill area is attached in [Appendix IV](#). Complete laboratory reports can be found in [Appendix V](#).

Table 1: Initial Soil Samples Analysis

| Sample ID | Sample Date | Depth (BGS) | BTEX mg/kg | Benzene mg/kg | GRO mg/kg | DRO mg/kg | MRO mg/kg | Total TPH mg/kg | Cl mg/kg |
|--|-------------|-------------|------------|---------------|------------|-----------|------------|-----------------|----------|
| NMOCD Table 1 Closure Criteria 19.15.29 NMAC | | | 50 mg/kg | 10 mg/kg | 1000 mg/kg | | 2500 mg/kg | 2500 mg/kg | mg/kg |
| S-1 | 1/26/2022 | 0' | ND | ND | ND | 153 | ND | 153 | 64 |
| S-2 | 1/26/2022 | 0' | ND | ND | ND | 864 | 82.8 | 946.8 | 144 |
| S-3 | 1/26/2022 | 0' | ND | ND | ND | 50.7 | ND | 50.7 | 64 |
| BG | 1/26/2022 | 0' | ND | ND | ND | ND | ND | 0 | 16 |

ND = Analyte Not Detected BG = Background

Based on the results of our site assessment and upon client authorization, further excavation activities of the impacted area commenced on February 10, 2022. Confirmation samples were obtained from the bottom and sidewalls every 200sqft. to confirm that NMOCD closure criteria had been met, the results of which can be found in the following data table. Photo documentation of the excavation and completed backfill are attached in [Appendix IV](#). Confirmation sample locations and excavation dimensions can be found on the Confirmation Sample Map in [Appendix I](#). Complete laboratory reports are attached in [Appendix V](#).

Table 2: Confirmation Soil Sample Analysis

| Sample ID | Sample Date | Depth (BGS) | BTEX mg/kg | Benzene mg/kg | GRO mg/kg | DRO mg/kg | MRO mg/kg | Total TPH mg/kg | CI mg/kg |
|--|-------------|-------------|------------|---------------|-----------|-----------|-----------|-----------------|-----------|
| NMOCD Table 1 Closure Criteria 19.15.29 NMAC | | | 50 mg/kg | 10 mg/kg | 100 mg/kg | | | 100 mg/kg | 600 mg/kg |
| S-1 | 2/10/2022 | 1' | ND | ND | ND | ND | ND | 0 | 32 |
| S-2 | 2/10/2022 | 1' | ND | ND | ND | ND | ND | 0 | 32 |
| S-3 | 2/10/2022 | 1' | ND | ND | ND | ND | ND | 0 | 32 |
| S-4 | 2/10/2022 | 1' | ND | ND | ND | ND | ND | 0 | 48 |
| S-5 | 2/10/2022 | 1' | ND | ND | ND | ND | ND | 0 | 48 |
| S-6 | 2/10/2022 | 1' | ND | ND | ND | ND | ND | 0 | 64 |
| N.SW | 2/10/2022 | 1' | ND | ND | ND | ND | ND | 0 | 48 |
| S.SW | 2/10/2022 | 1' | ND | ND | ND | ND | ND | 0 | 48 |
| E.SW | 2/10/2022 | 1' | ND | ND | ND | ND | ND | 0 | 32 |
| W.SW | 2/10/2022 | 1' | ND | ND | ND | ND | ND | 0 | 48 |

ND = Analyte Not Detected SW = Sidewall

Remedial Actions

- The impacted areas in the vicinity of sample points S-1 and S-2 were excavated to a total depth of 1 feet BGS.
- Composite confirmation samples were obtained from the sidewalls and bottoms of the excavated areas to verify that all contaminants above closure criteria had been removed. The results are shown on Table 2 and the corresponding lab reports may be found in [Appendix V](#).
- All the excavated material (80yds) was hauled to Lea Land, a NMOCD approved solid waste disposal facility.
- The excavated areas on the well pad were backfilled with new caliche at depth and brought to grade, machine compacted and contoured to match the surrounding location.
- The Final C-141 formally documenting the remedial actions is attached in [Appendix III](#).

Closure

Based on the site assessment, remedial actions and confirmation sampling results completed for this project, on behalf of Cimarex Energy Co. of Colorado we request that no further actions be required, and that closure of this incident be granted.

Should you have any questions or if further information is required, please do not hesitate to contact our office at 575-909-0326.

Respectfully submitted,

H&R Enterprises, LLC



Michael Collier
Environmental Project Manager

Attachments:

- Appendix I Site Maps
- Appendix II Soil Survey, Groundwater Data, FEMA Flood Zone
- Appendix III Initial and Final C-141
- Appendix IV Photographic Documentation
- Appendix V Laboratory Data

APPENDIX I

SITE/SAMPLE MAPS

KARST MAP

TOPOGRAPHIC MAP

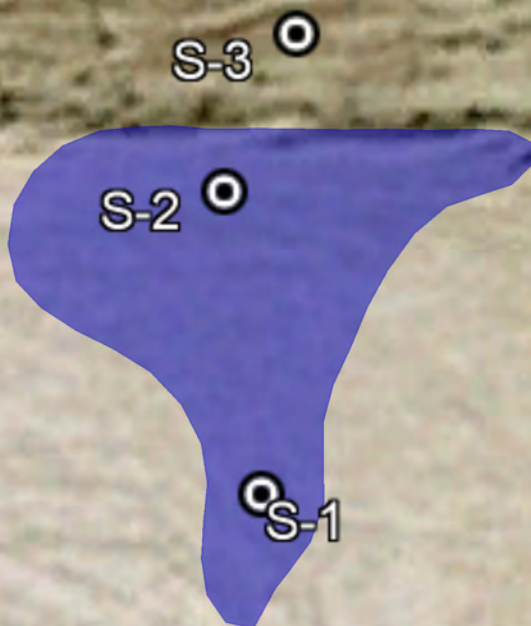
LOCATOR MAP

Red Hills Unit #016H

Cimarex Energy Co. of Colorado
API# 30-025-42324
Incident# nAPP2202655097
Lea County, NM
Site Assessment Map

Legend

- Sample Point
- Spill Area






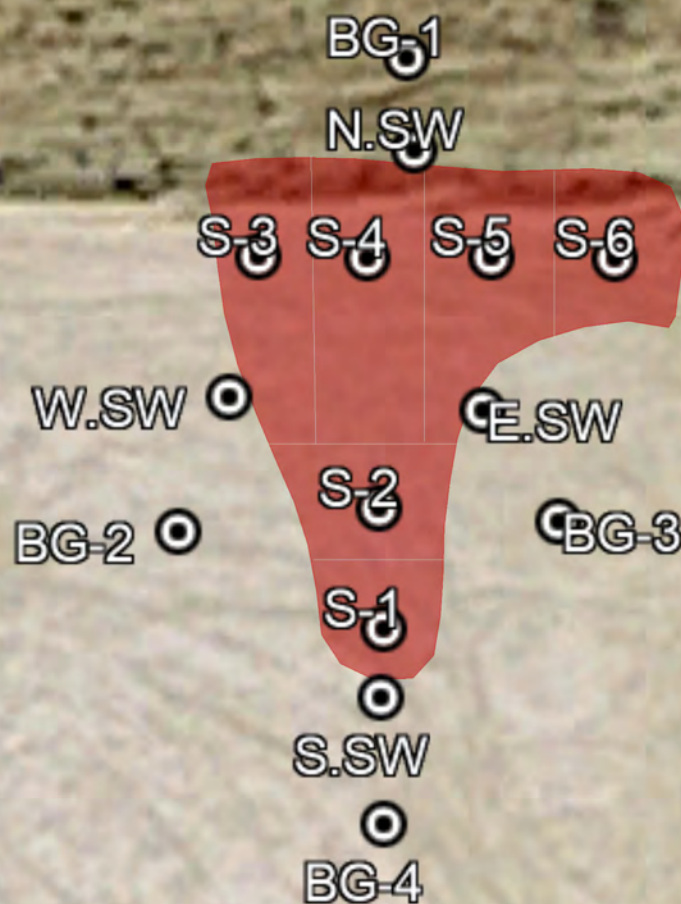
60 ft

Red Hills Unit #016H

Cimarex Energy Co. of Colorado
API# 30-025-42324
Incident# nAPP2202655097
Lea County, NM
Confirmation Sample Map

Legend





-  1ft. Excavation
-  Sample Point
-  Sample Zone




Red Hills Unit #016H

Cimarex Energy Co. of Colorado
API# 30-025-42324
Lea County, NM
Karst Map

Legend

-  High
-  Low
-  Medium
-  Red Hills Unit #016H

 Red Hills Unit #016H




3000 ft

Red Hills Unit #016H

Cimarex Energy Co. of Colorado
API# 30-025-42324
Lea County, NM
Topographic Map

Legend

 Red Hills Unit #016H

 Red Hills Unit #016H

3376 Drill Hole




N

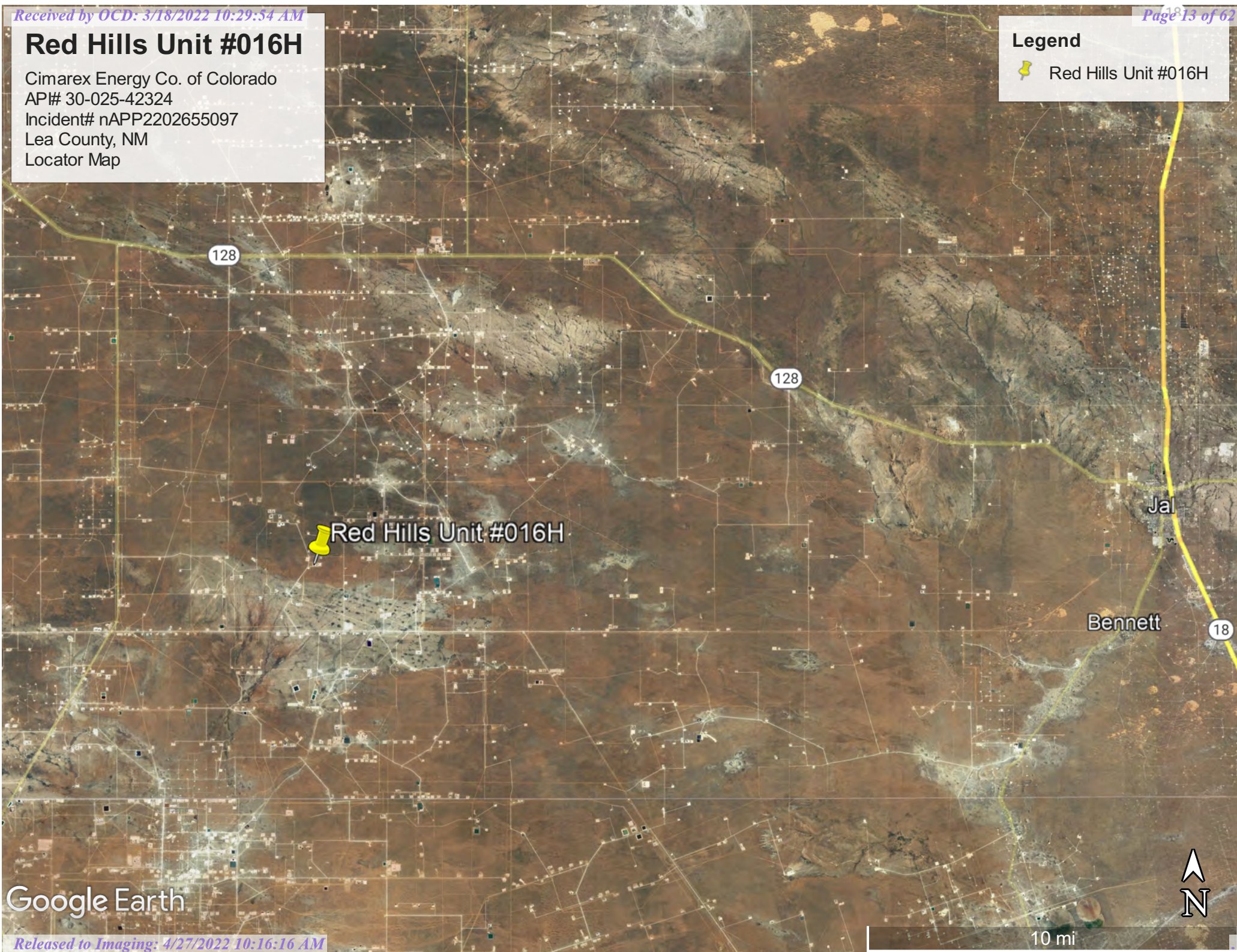
3000 ft

Red Hills Unit #016H

Cimarex Energy Co. of Colorado
API# 30-025-42324
Incident# nAPP2202655097
Lea County, NM
Locator Map

Legend

 Red Hills Unit #016H



Google Earth

10 mi

APPENDIX II

GROUNDWATER DATA

SOIL SURVEY

FEMA FLOOD ZONE



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 |
|------------------------------|------|---------------|--------|------|------|-----|-----|-----|-----|--------|---------|----------|-----------|------------|--------------|
| C 04537 POD1 | | C | LE | 4 | 4 | 4 | 31 | 25S | 33E | 631847 | 3550243 | 2378 | 500 | 280 | 220 |

Average Depth to Water: **280 feet**

Minimum Depth: **280 feet**

Maximum Depth: **280 feet**

Record Count: 1

Basin/County Search:

County: Lea

UTMNAD83 Radius Search (in meters):

Easting (X): 633910.66

Northing (Y): 3551424.91

Radius: 3000

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.

2/14/22 10:01 AM

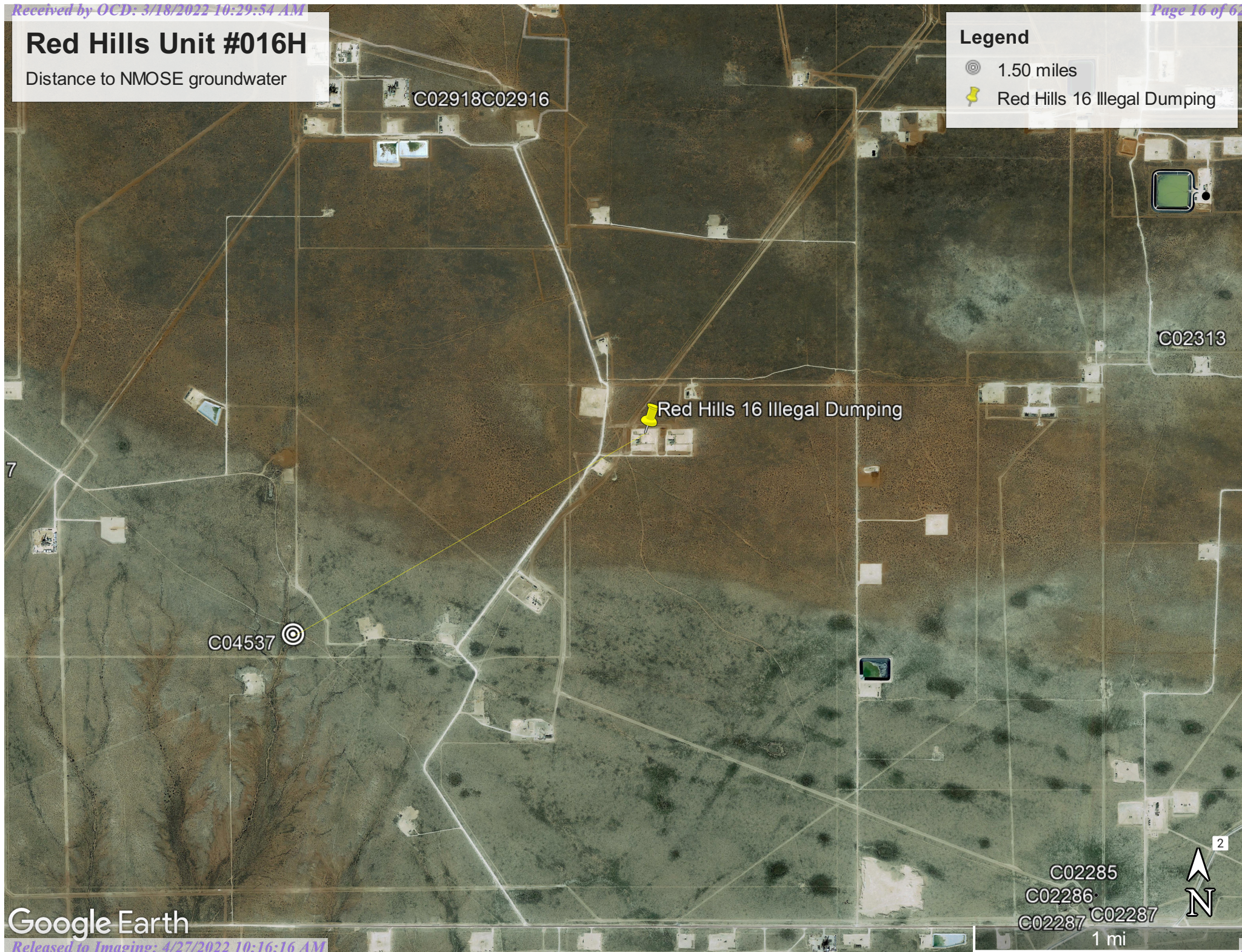
WATER COLUMN/ AVERAGE DEPTH TO
WATER

Red Hills Unit #016H

Distance to NMOSE groundwater

Legend

- 1.50 miles
- Red Hills 16 Illegal Dumping



Map Unit Description: Pyote and Maljamar fine sands---Lea County, New Mexico

Lea County, New Mexico

PU—Pyote and Maljamar fine sands

Map Unit Setting

National map unit symbol: dmqq

Elevation: 3,000 to 3,900 feet

Mean annual precipitation: 10 to 12 inches

Mean annual air temperature: 60 to 62 degrees F

Frost-free period: 190 to 205 days

Farmland classification: Not prime farmland

Map Unit Composition

Pyote and similar soils: 46 percent

Maljamar and similar soils: 44 percent

Minor components: 10 percent

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

Description of Pyote

Setting

Landform: Plains

Landform position (three-dimensional): Rise

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 30 inches: fine sand

Bt - 30 to 60 inches: fine sandy loam

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Negligible

Capacity of the most limiting layer to transmit water (Ksat): High
(2.00 to 6.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 5 percent

Gypsum, maximum content: 1 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 2.0

Available water supply, 0 to 60 inches: Low (about 5.1 inches)

Interpretive groups

Land capability classification (irrigated): 6e

Map Unit Description: Pyote and Maljamar fine sands---Lea County, New Mexico

Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: A
Ecological site: R042XC003NM - Loamy Sand
Hydric soil rating: No

Description of Maljamar

Setting

Landform: Plains
Landform position (three-dimensional): Rise
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 24 inches: fine sand
Bt - 24 to 50 inches: sandy clay loam
Bkm - 50 to 60 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 40 to 60 inches to petrocalcic
Drainage class: Well drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 5 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Low (about 5.6 inches)

Interpretive groups

Land capability classification (irrigated): 6e
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: B
Ecological site: R042XC003NM - Loamy Sand
Hydric soil rating: No

Minor Components

Kermit

Percent of map unit: 10 percent
Ecological site: R042XC022NM - Sandhills

Map Unit Description: Pyote and Maljamar fine sands---Lea County, New Mexico

Hydric soil rating: No

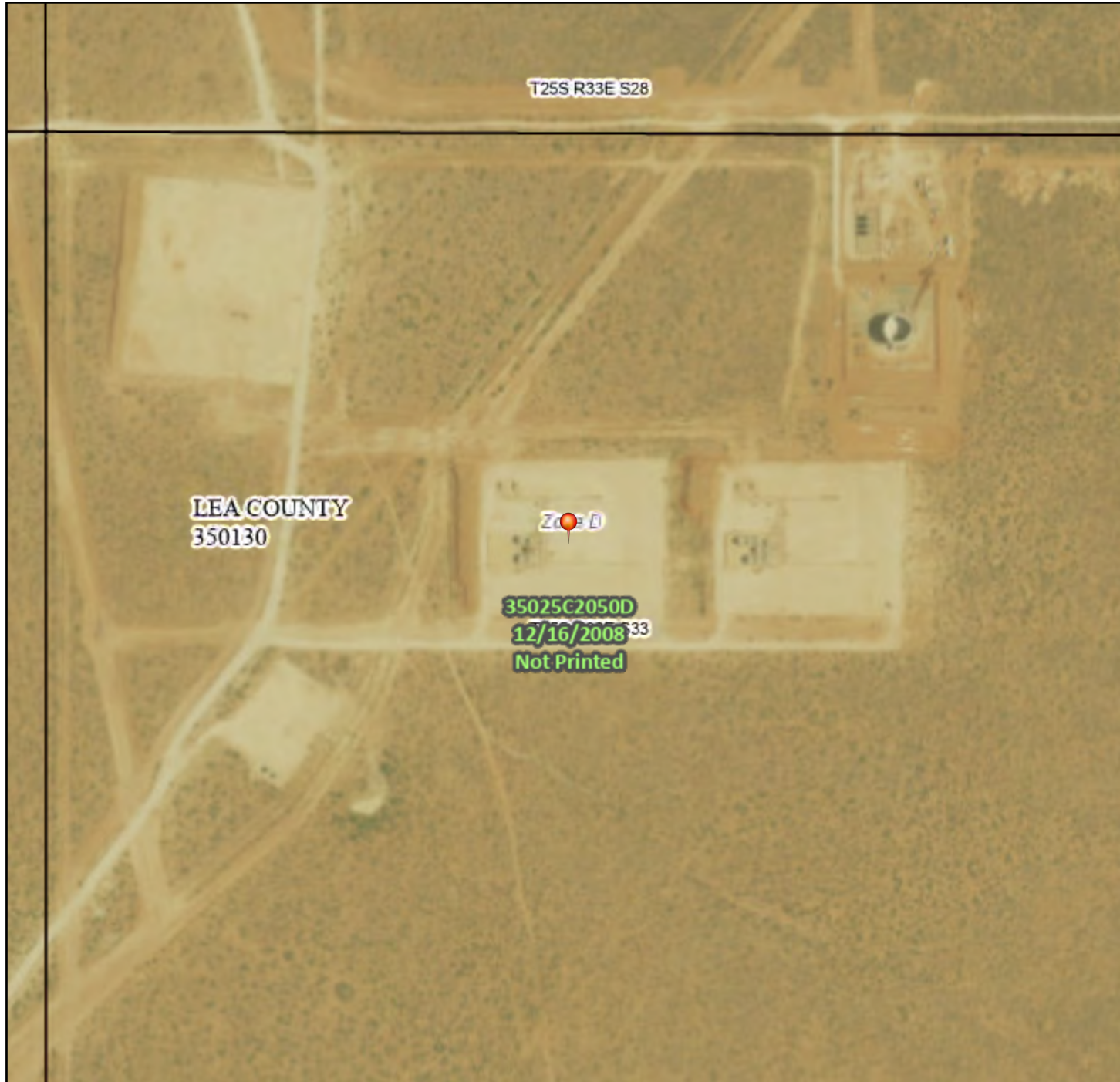
Data Source Information

Soil Survey Area: Lea County, New Mexico
Survey Area Data: Version 18, Sep 10, 2021

National Flood Hazard Layer FIRMette



103°35'10"W 32°5'43"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 |
| | | Profile Baseline |
| MAP PANELS | | Digital Data Available |
| | | No Digital Data Available |
| | | Unmapped |



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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **2/17/2022 at 10:25 AM** 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.

APPENDIX III

INITIAL C-141

FINAL C-141

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

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

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

| | |
|----------------|----------------|
| Incident ID | nAPP2202655097 |
| District RP | |
| Facility ID | |
| Application ID | |

Release Notification

Responsible Party

| | |
|---|---|
| Responsible Party: Cimarex Energy Co. of Colorado | OGRID: 162683 |
| Contact Name: Laci Luig | Contact Telephone: (432) 571-7800 |
| Contact email: laci.luig@coterra.com | Incident # (assigned by OCD) nAPP2202655097 |
| Contact mailing address: 600 N Marienfeld Street, Ste. 600 Midland, TX 79701 | |

Location of Release Source

Latitude 32.0911154 _____ Longitude -103.5808688 _____
(NAD 83 in decimal degrees to 5 decimal places)

| | |
|------------------------------------|----------------------|
| Site Name: Red Hills Unit 16H | Site Type: Battery |
| Date Release Discovered: 1/25/2022 | API# (if applicable) |

| Unit Letter | Section | Township | Range | County |
|-------------|---------|----------|-------|--------|
| C | 33 | 25S | 33E | Lea |

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (Name: _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

| | | |
|--|--|--|
| <input type="checkbox"/> Crude Oil | Volume Released (bbls) | Volume Recovered (bbls) |
| <input type="checkbox"/> Produced Water | Volume Released (bbls) | Volume Recovered (bbls) |
| | Is the concentration of dissolved chloride in the produced water >10,000 mg/l? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| <input type="checkbox"/> Condensate | Volume Released (bbls) | Volume Recovered (bbls) |
| <input type="checkbox"/> Natural Gas | Volume Released (Mcf) | Volume Recovered (Mcf) |
| <input checked="" type="checkbox"/> Other (describe) | Volume/Weight Released (provide units) 23 bbls | Volume/Weight Recovered (provide units) 0 bbls |

Cause of Release: Vandalism – Illegal Dumping

We found an illegal dumping at the Red Hills Unit 16H tank battery pad. According to spill measurement calculations, the release is ~23 barrels. Unsure at this time of what the product is, but the fluid is gray with a chemical odor. The fluid dumped did not leave a salt or hydrocarbon stain on the ground. An environmental company will be contacted and the release will be remediated.

Initial Response

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

Released to Imaging: 4/27/2022 10:16:16 AM

| | |
|----------------|----------------|
| Incident ID | nAPP2202655097 |
| 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>280</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 | nAPP2202655097 |
| 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: Laci Luig_____ Title: ESH Specialist_____

Signature: Laci Luig_____

Date: 1/3/2022_____

email: laci.luig@coterra.com_____

Telephone: (432) 208-3035_____

OCD Only

Received by: _____

Date: _____

| | |
|----------------|----------------|
| Incident ID | nAPP2202655097 |
| 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: Laci Luig _____ Title: ESH Specialist _____

Signature: *Laci Luig* _____ Date: 1/3/2022 _____

email: laci.luig@coterra.com _____ Telephone: (432) 208-3035 _____

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: *Jennifer Nobui* _____ Date: 04/27/2022 _____

Printed Name: Jennifer Nobui _____ Title: Environmental Specialist A _____

From: [Hensley, Chad, EMNRD](#)
To: [Laci Luig; BLM NM CFO Spill](#)
Subject: RE: [EXTERNAL] nAPP2202655097 - Red Hills 16H Battery sample notification
Date: Thursday, February 10, 2022 9:20:36 AM
Attachments: [image001.jpg](#)
[image002.jpg](#)
[0.jpg](#)

WARNING: This email originated from outside of Coterra Energy. Do not click links or open attachments unless you recognize the sender, are expecting the content and know it is safe.



Luci,

OCD has received you notice. Please ensure that all communications with the OCD is included in your reports.

Cheers,

Chad Hensley • Environmental Science & Specialist

Environmental Bureau

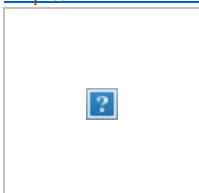
EMNRD - Oil Conservation Division

811 First St. | Artesia, NM 88210

Office: 575.748.1283 | Cell: 575-703-1723

chad.hensley@state.nm.us

<http://www.emnrd.state.nm.us/OCD/>



From: Laci Luig <Laci.Luig@coterra.com>

Sent: Wednesday, February 9, 2022 1:44 PM

To: Hensley, Chad, EMNRD <Chad.Hensley@state.nm.us>; BLM NM CFO Spill
<BLM_NM_CFO_Spill@blm.gov>

Subject: [EXTERNAL] nAPP2202655097 - Red Hills 16H Battery sample notification

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

Good afternoon,

This email serves as notification for excavation and confirmation sampling on the Red Hills Unit 16H Battery. Excavation and sampling is scheduled to begin February 10th, 2022. H&R Enterprises will be onsite for field and confirmation sampling.

Thank you,



Laci Luig | Environmental Safety & Health Specialist
T: 432.571.7810 | M: 432.208.3035 | laci.luig@coterra.com | www.coterra.com
Coterra Energy Inc. | 600 N. Marienfeld Street, Suite 600 | Midland, TX 79701

Coterra Energy Inc. is the result of the merger of Cimarex Energy Co. and Cabot Oil & Gas Corporation on October 1, 2021.

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APPENDIX IV

PHOTOGRAPHIC DOCUMENTATION

PHOTOGRAPHIC DOCUMENTATION



APPENDIX V

LABORATORY DATA



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

February 01, 2022

MICHAEL COLLIER

H & R ENTERPRISES

1010 GAMBLIN ROAD

HOBBS, NM 88240

RE: RED HILLS UNIT #16

Enclosed are the results of analyses for samples received by the laboratory on 01/26/22 14:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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/ga/lab_accred_certif.html.

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

| | |
|------------------|---|
| Method SM 9223-B | Total Coliform and E. coli (Colilert MMO-MUG) |
| Method EPA 524.2 | Regulated VOCs and Total Trihalomethanes (TTHM) |
| Method EPA 552.2 | Total Haloacetic Acids (HAA-5) |

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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 fluid and cursive, with the first letters of the first and last names being capitalized and prominent.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:H & R ENTERPRISES
1010 GAMBLIN ROAD
HOBBS NM, 88240Project: RED HILLS UNIT #16
Project Number: NONE GIVEN
Project Manager: MICHAEL COLLIER
Fax To: NONEReported:
01-Feb-22 14:24

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-----------|---------------|--------|-----------------|-----------------|
| S - 1 0' | H220307-01 | Soil | 26-Jan-22 12:50 | 26-Jan-22 14:45 |
| S - 2 0' | H220307-02 | Soil | 26-Jan-22 13:00 | 26-Jan-22 14:45 |
| S - 3 0' | H220307-03 | Soil | 26-Jan-22 13:10 | 26-Jan-22 14:45 |
| BG 0' | H220307-04 | Soil | 26-Jan-22 13:20 | 26-Jan-22 14:45 |

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



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

Analytical Results For:

H & R ENTERPRISES
1010 GAMBLIN ROAD
HOBBS NM, 88240

Project: RED HILLS UNIT #16
Project Number: NONE GIVEN
Project Manager: MICHAEL COLLIER
Fax To: NONE

Reported:
01-Feb-22 14:24

S - 1 0'
H220307-01 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories**Inorganic Compounds**

| | | | | | | | | | | |
|----------------|------|--|-------|----------|---|---------|----|-----------|-----------|--|
| Chloride | 64.0 | | 16.0 | mg/kg | 4 | 2012707 | AC | 27-Jan-22 | 4500-Cl-B | |
| pH* | 7.96 | | 0.100 | pH Units | 1 | 2012642 | GM | 26-Jan-22 | 9045 | |
| Temperature °C | 20.5 | | | pH Units | 1 | 2012642 | GM | 26-Jan-22 | 9045 | |

Volatile Organic Compounds by EPA Method 8021

| | | | | | | | | | | |
|----------------|--------|--|-------|-------|----|---------|-----|-----------|-------|--|
| Benzene* | <0.050 | | 0.050 | mg/kg | 50 | 2012612 | MS/ | 26-Jan-22 | 8021B | |
| Toluene* | <0.050 | | 0.050 | mg/kg | 50 | 2012612 | MS/ | 26-Jan-22 | 8021B | |
| Ethylbenzene* | <0.050 | | 0.050 | mg/kg | 50 | 2012612 | MS/ | 26-Jan-22 | 8021B | |
| Total Xylenes* | <0.150 | | 0.150 | mg/kg | 50 | 2012612 | MS/ | 26-Jan-22 | 8021B | |
| Total BTEX | <0.300 | | 0.300 | mg/kg | 50 | 2012612 | MS/ | 26-Jan-22 | 8021B | |

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140 2012612 MS/ 26-Jan-22 8021B

Petroleum Hydrocarbons by GC FID

| | | | | | | | | | | |
|------------------|-------|--|------|-------|---|---------|----|-----------|-------|--|
| GRO C6-C10* | <10.0 | | 10.0 | mg/kg | 1 | 2012630 | MS | 27-Jan-22 | 8015B | |
| DRO >C10-C28* | 153 | | 10.0 | mg/kg | 1 | 2012630 | MS | 27-Jan-22 | 8015B | |
| EXT DRO >C28-C36 | <10.0 | | 10.0 | mg/kg | 1 | 2012630 | MS | 27-Jan-22 | 8015B | |

Surrogate: 1-Chlorooctane 85.9 % 66.9-136 2012630 MS 27-Jan-22 8015B

Surrogate: 1-Chlorooctadecane 108 % 59.5-142 2012630 MS 27-Jan-22 8015B

Green Analytical Laboratories**Total Metals by ICP**

| | | | | | | | | | | |
|----------|--------|--|------|-----------|------|---------|-----|-----------|-------|--|
| Aluminum | 5170 | | 5.00 | mg/kg dry | 100 | B220285 | AES | 31-Jan-22 | 6010B | |
| Calcium | 122000 | | 1000 | mg/kg dry | 1000 | B220285 | AES | 31-Jan-22 | 6010B | |
| Iron | 3220 | | 10.0 | mg/kg dry | 100 | B220285 | AES | 31-Jan-22 | 6010B | |

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:

H & R ENTERPRISES
1010 GAMBLIN ROAD
HOBBS NM, 88240

Project: RED HILLS UNIT #16
Project Number: NONE GIVEN
Project Manager: MICHAEL COLLIER
Fax To: NONE

Reported:
01-Feb-22 14:24

S - 2 0'**H220307-02 (Soil)**

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories**Inorganic Compounds**

| | | | | | | | | | | |
|----------------|------|--|-------|----------|---|---------|----|-----------|-----------|--|
| Chloride | 144 | | 16.0 | mg/kg | 4 | 2012707 | AC | 27-Jan-22 | 4500-Cl-B | |
| pH* | 8.07 | | 0.100 | pH Units | 1 | 2012642 | GM | 26-Jan-22 | 9045 | |
| Temperature °C | 20.5 | | | pH Units | 1 | 2012642 | GM | 26-Jan-22 | 9045 | |

Volatile Organic Compounds by EPA Method 8021

| | | | | | | | | | | |
|----------------|--------|--|-------|-------|----|---------|-----|-----------|-------|--|
| Benzene* | <0.050 | | 0.050 | mg/kg | 50 | 2012612 | MS/ | 26-Jan-22 | 8021B | |
| Toluene* | <0.050 | | 0.050 | mg/kg | 50 | 2012612 | MS/ | 26-Jan-22 | 8021B | |
| Ethylbenzene* | <0.050 | | 0.050 | mg/kg | 50 | 2012612 | MS/ | 26-Jan-22 | 8021B | |
| Total Xylenes* | <0.150 | | 0.150 | mg/kg | 50 | 2012612 | MS/ | 26-Jan-22 | 8021B | |
| Total BTEX | <0.300 | | 0.300 | mg/kg | 50 | 2012612 | MS/ | 26-Jan-22 | 8021B | |

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140 2012612 MS/ 26-Jan-22 8021B

Petroleum Hydrocarbons by GC FID

| | | | | | | | | | | |
|------------------|-------|--|------|-------|---|---------|----|-----------|-------|--|
| GRO C6-C10* | <10.0 | | 10.0 | mg/kg | 1 | 2012630 | MS | 27-Jan-22 | 8015B | |
| DRO >C10-C28* | 864 | | 10.0 | mg/kg | 1 | 2012630 | MS | 27-Jan-22 | 8015B | |
| EXT DRO >C28-C36 | 82.8 | | 10.0 | mg/kg | 1 | 2012630 | MS | 27-Jan-22 | 8015B | |

Surrogate: 1-Chlorooctane 79.4 % 66.9-136 2012630 MS 27-Jan-22 8015B

Surrogate: 1-Chlorooctadecane 126 % 59.5-142 2012630 MS 27-Jan-22 8015B

Green Analytical Laboratories**Total Metals by ICP**

| | | | | | | | | | | |
|----------|-------|--|------|-----------|------|---------|-----|-----------|-------|--|
| Aluminum | 5890 | | 5.00 | mg/kg dry | 100 | B220285 | AES | 31-Jan-22 | 6010B | |
| Calcium | 95100 | | 1000 | mg/kg dry | 1000 | B220285 | AES | 31-Jan-22 | 6010B | |
| Iron | 3740 | | 10.0 | mg/kg dry | 100 | B220285 | AES | 31-Jan-22 | 6010B | |

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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:

H & R ENTERPRISES
1010 GAMBLIN ROAD
HOBBS NM, 88240

Project: RED HILLS UNIT #16
Project Number: NONE GIVEN
Project Manager: MICHAEL COLLIER
Fax To: NONE

Reported:
01-Feb-22 14:24

S - 3 0'**H220307-03 (Soil)**

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories**Inorganic Compounds**

| | | | | | | | | | | |
|----------------|------|--|-------|----------|---|---------|----|-----------|-----------|--|
| Chloride | 64.0 | | 16.0 | mg/kg | 4 | 2012707 | AC | 27-Jan-22 | 4500-Cl-B | |
| pH* | 8.26 | | 0.100 | pH Units | 1 | 2012642 | GM | 26-Jan-22 | 9045 | |
| Temperature °C | 20.5 | | | pH Units | 1 | 2012642 | GM | 26-Jan-22 | 9045 | |

Volatile Organic Compounds by EPA Method 8021

| | | | | | | | | | | |
|----------------|--------|--|-------|-------|----|---------|-----|-----------|-------|--|
| Benzene* | <0.050 | | 0.050 | mg/kg | 50 | 2012612 | MS/ | 26-Jan-22 | 8021B | |
| Toluene* | <0.050 | | 0.050 | mg/kg | 50 | 2012612 | MS/ | 26-Jan-22 | 8021B | |
| Ethylbenzene* | <0.050 | | 0.050 | mg/kg | 50 | 2012612 | MS/ | 26-Jan-22 | 8021B | |
| Total Xylenes* | <0.150 | | 0.150 | mg/kg | 50 | 2012612 | MS/ | 26-Jan-22 | 8021B | |
| Total BTEX | <0.300 | | 0.300 | mg/kg | 50 | 2012612 | MS/ | 26-Jan-22 | 8021B | |

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140 2012612 MS/ 26-Jan-22 8021B

Petroleum Hydrocarbons by GC FID

| | | | | | | | | | | |
|------------------|-------|--|------|-------|---|---------|----|-----------|-------|--|
| GRO C6-C10* | <10.0 | | 10.0 | mg/kg | 1 | 2012630 | MS | 27-Jan-22 | 8015B | |
| DRO >C10-C28* | 50.7 | | 10.0 | mg/kg | 1 | 2012630 | MS | 27-Jan-22 | 8015B | |
| EXT DRO >C28-C36 | <10.0 | | 10.0 | mg/kg | 1 | 2012630 | MS | 27-Jan-22 | 8015B | |

Surrogate: 1-Chlorooctane 73.8 % 66.9-136 2012630 MS 27-Jan-22 8015B

Surrogate: 1-Chlorooctadecane 77.2 % 59.5-142 2012630 MS 27-Jan-22 8015B

Green Analytical Laboratories**Total Metals by ICP**

| | | | | | | | | | | |
|----------|-------|--|------|-----------|-----|---------|-----|-----------|-------|--|
| Aluminum | 4610 | | 5.00 | mg/kg dry | 100 | B220285 | AES | 31-Jan-22 | 6010B | |
| Calcium | 22200 | | 100 | mg/kg dry | 100 | B220285 | AES | 31-Jan-22 | 6010B | |
| Iron | 3580 | | 10.0 | mg/kg dry | 100 | B220285 | AES | 31-Jan-22 | 6010B | |

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:

H & R ENTERPRISES
1010 GAMBLIN ROAD
HOBBS NM, 88240

Project: RED HILLS UNIT #16
Project Number: NONE GIVEN
Project Manager: MICHAEL COLLIER
Fax To: NONE

Reported:
01-Feb-22 14:24

BG 0'
H220307-04 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories**Inorganic Compounds**

| | | | | | | | | | | |
|----------------|------|--|-------|----------|---|---------|----|-----------|-----------|--|
| Chloride | 16.0 | | 16.0 | mg/kg | 4 | 2012707 | AC | 27-Jan-22 | 4500-Cl-B | |
| pH* | 8.34 | | 0.100 | pH Units | 1 | 2012642 | GM | 26-Jan-22 | 9045 | |
| Temperature °C | 20.5 | | | pH Units | 1 | 2012642 | GM | 26-Jan-22 | 9045 | |

Volatile Organic Compounds by EPA Method 8021

| | | | | | | | | | | |
|----------------|--------|--|-------|-------|----|---------|-----|-----------|-------|--|
| Benzene* | <0.050 | | 0.050 | mg/kg | 50 | 2012612 | MS/ | 26-Jan-22 | 8021B | |
| Toluene* | <0.050 | | 0.050 | mg/kg | 50 | 2012612 | MS/ | 26-Jan-22 | 8021B | |
| Ethylbenzene* | <0.050 | | 0.050 | mg/kg | 50 | 2012612 | MS/ | 26-Jan-22 | 8021B | |
| Total Xylenes* | <0.150 | | 0.150 | mg/kg | 50 | 2012612 | MS/ | 26-Jan-22 | 8021B | |
| Total BTEX | <0.300 | | 0.300 | mg/kg | 50 | 2012612 | MS/ | 26-Jan-22 | 8021B | |

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140 2012612 MS/ 26-Jan-22 8021B

Petroleum Hydrocarbons by GC FID

| | | | | | | | | | | |
|------------------|-------|--|------|-------|---|---------|----|-----------|-------|--|
| GRO C6-C10* | <10.0 | | 10.0 | mg/kg | 1 | 2012630 | MS | 27-Jan-22 | 8015B | |
| DRO >C10-C28* | <10.0 | | 10.0 | mg/kg | 1 | 2012630 | MS | 27-Jan-22 | 8015B | |
| EXT DRO >C28-C36 | <10.0 | | 10.0 | mg/kg | 1 | 2012630 | MS | 27-Jan-22 | 8015B | |

Surrogate: 1-Chlorooctane 80.1 % 66.9-136 2012630 MS 27-Jan-22 8015B

Surrogate: 1-Chlorooctadecane 78.7 % 59.5-142 2012630 MS 27-Jan-22 8015B

Green Analytical Laboratories**Total Metals by ICP**

| | | | | | | | | | | |
|----------|-------|--|------|-----------|-----|---------|-----|-----------|-------|--|
| Aluminum | 4500 | | 5.00 | mg/kg dry | 100 | B220285 | AES | 31-Jan-22 | 6010B | |
| Calcium | 12900 | | 100 | mg/kg dry | 100 | B220285 | AES | 31-Jan-22 | 6010B | |
| Iron | 3700 | | 10.0 | mg/kg dry | 100 | B220285 | AES | 31-Jan-22 | 6010B | |

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:

H & R ENTERPRISES
1010 GAMBLIN ROAD
HOBBS NM, 88240

Project: RED HILLS UNIT #16
Project Number: NONE GIVEN
Project Manager: MICHAEL COLLIER
Fax To: NONE

Reported:
01-Feb-22 14:24

Inorganic Compounds - Quality Control**Cardinal Laboratories**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|--------------------|-------|----------------|------------------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|----------------|-----|--------------|-------|

Batch 2012642 - General Prep - Wet Chem**LCS (2012642-BS1)**

Prepared & Analyzed: 26-Jan-22

| | | | | | | | | | |
|----|------|--|----------|------|--|-----|--------|--|--|
| pH | 7.04 | | pH Units | 7.00 | | 101 | 90-110 | | |
|----|------|--|----------|------|--|-----|--------|--|--|

Duplicate (2012642-DUP1)

Source: H220303-01

Prepared & Analyzed: 26-Jan-22

| | | | | | | | | | |
|----------------|------|-------|----------|------|--|-------|-----|--|--|
| pH | 8.05 | 0.100 | pH Units | 8.02 | | 0.373 | 20 | | |
| Temperature °C | 20.3 | | pH Units | 20.3 | | 0.00 | 200 | | |

Batch 2012707 - 1:4 DI Water**Blank (2012707-BLK1)**

Prepared & Analyzed: 27-Jan-22

| | | | | | | | | | |
|----------|----|------|-------|--|--|--|--|--|--|
| Chloride | ND | 16.0 | mg/kg | | | | | | |
|----------|----|------|-------|--|--|--|--|--|--|

LCS (2012707-BS1)

Prepared & Analyzed: 27-Jan-22

| | | | | | | | | | |
|----------|-----|------|-------|-----|--|-----|--------|--|--|
| Chloride | 416 | 16.0 | mg/kg | 400 | | 104 | 80-120 | | |
|----------|-----|------|-------|-----|--|-----|--------|--|--|

LCS Dup (2012707-BSD1)

Prepared & Analyzed: 27-Jan-22

| | | | | | | | | | |
|----------|-----|------|-------|-----|--|-----|--------|------|----|
| Chloride | 416 | 16.0 | mg/kg | 400 | | 104 | 80-120 | 0.00 | 20 |
|----------|-----|------|-------|-----|--|-----|--------|------|----|

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:

H & R ENTERPRISES
1010 GAMBLIN ROAD
HOBBS NM, 88240

Project: RED HILLS UNIT #16
Project Number: NONE GIVEN
Project Manager: MICHAEL COLLIER
Fax To: NONE

Reported:
01-Feb-22 14:24

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Batch 2012612 - Volatiles**Blank (2012612-BLK1)**

Prepared & Analyzed: 26-Jan-22

| | | | | | | | | | | |
|---------------------------------------|--------|-------|-------|--------|--|-----|----------|--|--|--|
| Benzene | ND | 0.050 | mg/kg | | | | | | | |
| Toluene | ND | 0.050 | mg/kg | | | | | | | |
| Ethylbenzene | ND | 0.050 | mg/kg | | | | | | | |
| Total Xylenes | ND | 0.150 | mg/kg | | | | | | | |
| Total BTEX | ND | 0.300 | mg/kg | | | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID) | 0.0504 | | mg/kg | 0.0500 | | 101 | 69.9-140 | | | |

LCS (2012612-BS1)

Prepared & Analyzed: 26-Jan-22

| | | | | | | | | | | |
|---------------------------------------|--------|-------|-------|--------|--|------|----------|--|--|--|
| Benzene | 2.10 | 0.050 | mg/kg | 2.00 | | 105 | 85.1-114 | | | |
| Toluene | 2.01 | 0.050 | mg/kg | 2.00 | | 100 | 88.6-116 | | | |
| Ethylbenzene | 2.02 | 0.050 | mg/kg | 2.00 | | 101 | 84.4-115 | | | |
| m,p-Xylene | 4.11 | 0.100 | mg/kg | 4.00 | | 103 | 85.5-116 | | | |
| o-Xylene | 2.00 | 0.050 | mg/kg | 2.00 | | 99.9 | 85.2-111 | | | |
| Total Xylenes | 6.11 | 0.150 | mg/kg | 6.00 | | 102 | 86.2-113 | | | |
| Surrogate: 4-Bromofluorobenzene (PID) | 0.0494 | | mg/kg | 0.0500 | | 98.8 | 69.9-140 | | | |

LCS Dup (2012612-BS1)

Prepared & Analyzed: 26-Jan-22

| | | | | | | | | | | |
|---------------------------------------|--------|-------|-------|--------|--|------|----------|------|------|--|
| Benzene | 2.17 | 0.050 | mg/kg | 2.00 | | 109 | 85.1-114 | 3.67 | 12.6 | |
| Toluene | 2.08 | 0.050 | mg/kg | 2.00 | | 104 | 88.6-116 | 3.55 | 13.3 | |
| Ethylbenzene | 2.11 | 0.050 | mg/kg | 2.00 | | 105 | 84.4-115 | 3.98 | 13.9 | |
| m,p-Xylene | 4.28 | 0.100 | mg/kg | 4.00 | | 107 | 85.5-116 | 4.02 | 13.6 | |
| o-Xylene | 2.08 | 0.050 | mg/kg | 2.00 | | 104 | 85.2-111 | 4.19 | 14.1 | |
| Total Xylenes | 6.36 | 0.150 | mg/kg | 6.00 | | 106 | 86.2-113 | 4.08 | 13.4 | |
| Surrogate: 4-Bromofluorobenzene (PID) | 0.0494 | | mg/kg | 0.0500 | | 98.8 | 69.9-140 | | | |

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

H & R ENTERPRISES
1010 GAMBLIN ROAD
HOBBS NM, 88240

Project: RED HILLS UNIT #16
Project Number: NONE GIVEN
Project Manager: MICHAEL COLLIER
Fax To: NONE

Reported:
01-Feb-22 14:24

Petroleum Hydrocarbons by GC FID - Quality Control**Cardinal Laboratories**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

Batch 2012630 - General Prep - Organics**Blank (2012630-BLK1)**

Prepared: 26-Jan-22 Analyzed: 27-Jan-22

| | | | | | | | | | | |
|-------------------------------|------|------|-------|------|--|------|----------|--|--|--|
| GRO C6-C10 | ND | 10.0 | mg/kg | | | | | | | |
| DRO >C10-C28 | ND | 10.0 | mg/kg | | | | | | | |
| EXT DRO >C28-C36 | ND | 10.0 | mg/kg | | | | | | | |
| Surrogate: 1-Chlorooctane | 41.7 | | mg/kg | 50.0 | | 83.4 | 66.9-136 | | | |
| Surrogate: 1-Chlorooctadecane | 40.8 | | mg/kg | 50.0 | | 81.5 | 59.5-142 | | | |

LCS (2012630-BS1)

Prepared: 26-Jan-22 Analyzed: 27-Jan-22

| | | | | | | | | | | |
|-------------------------------|------|------|-------|------|--|-----|----------|--|--|--|
| GRO C6-C10 | 214 | 10.0 | mg/kg | 200 | | 107 | 81.6-129 | | | |
| DRO >C10-C28 | 213 | 10.0 | mg/kg | 200 | | 106 | 83-129 | | | |
| Total TPH C6-C28 | 426 | 10.0 | mg/kg | 400 | | 107 | 84.5-127 | | | |
| Surrogate: 1-Chlorooctane | 50.1 | | mg/kg | 50.0 | | 100 | 66.9-136 | | | |
| Surrogate: 1-Chlorooctadecane | 55.6 | | mg/kg | 50.0 | | 111 | 59.5-142 | | | |

LCS Dup (2012630-BSD1)

Prepared: 26-Jan-22 Analyzed: 27-Jan-22

| | | | | | | | | | | |
|-------------------------------|------|------|-------|------|--|-----|----------|-------|------|--|
| GRO C6-C10 | 215 | 10.0 | mg/kg | 200 | | 108 | 81.6-129 | 0.671 | 21.4 | |
| DRO >C10-C28 | 202 | 10.0 | mg/kg | 200 | | 101 | 83-129 | 4.86 | 17.9 | |
| Total TPH C6-C28 | 418 | 10.0 | mg/kg | 400 | | 104 | 84.5-127 | 2.05 | 17.6 | |
| Surrogate: 1-Chlorooctane | 51.5 | | mg/kg | 50.0 | | 103 | 66.9-136 | | | |
| Surrogate: 1-Chlorooctadecane | 55.4 | | mg/kg | 50.0 | | 111 | 59.5-142 | | | |

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

H & R ENTERPRISES
1010 GAMBLIN ROAD
HOBBS NM, 88240

Project: RED HILLS UNIT #16
Project Number: NONE GIVEN
Project Manager: MICHAEL COLLIER
Fax To: NONE

Reported:
01-Feb-22 14:24

Total Metals by ICP - Quality Control**Green Analytical Laboratories**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

Batch B220285 - EPA 3050**Blank (B220285-BLK1)**

Prepared & Analyzed: 31-Jan-22

| | | | | | | | | | | |
|----------|----|------|-----------|--|--|--|--|--|--|--|
| Aluminum | ND | 5.00 | mg/kg dry | | | | | | | |
| Calcium | ND | 100 | mg/kg dry | | | | | | | |
| Iron | ND | 10.0 | mg/kg dry | | | | | | | |

LCS (B220285-BS1)

Prepared & Analyzed: 31-Jan-22

| | | | | | | | | | | |
|----------|-----|------|-----------|-----|--|------|--------|--|--|--|
| Aluminum | 370 | 5.00 | mg/kg dry | 400 | | 92.4 | 80-120 | | | |
| Calcium | 359 | 100 | mg/kg dry | 400 | | 89.7 | 80-120 | | | |
| Iron | 344 | 10.0 | mg/kg dry | 400 | | 86.1 | 80-120 | | | |

LCS Dup (B220285-BSD1)

Prepared & Analyzed: 31-Jan-22

| | | | | | | | | | | |
|----------|-----|------|-----------|-----|--|------|--------|-------|----|--|
| Iron | 347 | 10.0 | mg/kg dry | 400 | | 86.8 | 80-120 | 0.807 | 20 | |
| Aluminum | 380 | 5.00 | mg/kg dry | 400 | | 95.0 | 80-120 | 2.77 | 20 | |
| Calcium | 360 | 100 | mg/kg dry | 400 | | 90.0 | 80-120 | 0.365 | 20 | |

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

| | |
|-----|--|
| ND | Analyte NOT DETECTED at or above the reporting limit |
| RPD | Relative Percent Difference |
| ** | Samples not received at proper temperature of 6°C or below. |
| *** | Insufficient time to reach temperature. |
| - | Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report |

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

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: H&R Enterprises | | BILL TO | | ANALYSIS REQUEST | |
|-------------------------------|--|----------------|--|------------------|--|

| | | | | | |
|-------------------------------------|--|-------------------------------|--|------------------|--|
| Project Manager: Michael Collier | | P.O. #: | | Company: Cimarex | |
| Address: 5120 W. Kansas St. | | Attn: Lori Luig | | Address: | |
| City: Hobbs | | State: NM | | Zip: 88242 | |
| Phone #: 575.909.0326/ 575.605.3471 | | Fax #: | | City: | |
| Project #: | | Project Owner: Cimarex Energy | | State: | |
| Project Name: Red Hills Unit #16 | | City: | | Zip: | |
| Project Location: Lea County, NM | | Phone #: | | Fax #: | |
| Sampler Name: M. Collier | | FOR LAB USE ONLY | | | |

| Lab I.D. | Sample I.D. | (G)RAB OR (C)OMP. | # CONTAINERS | MATRIX | | | | | DATE | TIME | | | | | | | | | | |
|----------|-------------|-------------------|--------------|-------------|------------|------|-----|--------|---------|---------|------|--|--|--|--|--|--|--|--|--|
| | | | | GROUNDWATER | WASTEWATER | SOIL | OIL | SLUDGE | OTHER : | | | | | | | | | | | |
| H220357 | | | | | | | | | | | | | | | | | | | | |
| 1 | 5-1 0' | | 6 | | | | | | | 1-26-22 | 1250 | | | | | | | | | |
| 2 | 5-2 0' | | 2 | | | | | | | | 1:00 | | | | | | | | | |
| 3 | 5-3 0' | | | | | | | | | | 1:10 | | | | | | | | | |
| 4 | Bv 0' | | | | | | | | | | 1:20 | | | | | | | | | |

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| | | | |
|------------------------------------|---------------|-------------------------------------|--|
| Relinquished By: <i>M. Collier</i> | Date: 1-26-22 | Received By: <i>Michael Collier</i> | Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Add'l Phone #: |
| Relinquished By: <i>M. Collier</i> | Date: 1-26-22 | Received By: <i>Michael Collier</i> | All Results are emailed. Please provide Email address: |

| | | | | | |
|------------------------------|-------------------------|---|------------------------|---------------------------|---|
| Delivered By: (Circle One) | Observed Temp.: °C 21.1 | Sample Condition | CHECKED BY: (Initials) | Turnaround Time: Standard | Bacteria (only) Sample Condition |
| Sampler - UPS - Bus - Other: | Corrected Temp.: °C 1.6 | Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | <i>MC</i> | Thermometer ID #113 | Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| | | | | Corrected Temp.: -0.5°C | Observed Temp.: °C |

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



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

February 15, 2022

MICHAEL COLLIER

H & R ENTERPRISES

1010 GAMBLIN ROAD

HOBBS, NM 88240

RE: RED HILLS UNIT #16

Enclosed are the results of analyses for samples received by the laboratory on 02/11/22 12:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

H & R ENTERPRISES
 MICHAEL COLLIER
 1010 GAMBLIN ROAD
 HOBBS NM, 88240
 Fax To: NONE

Received: 02/11/2022
 Reported: 02/15/2022
 Project Name: RED HILLS UNIT #16
 Project Number: RHU #16
 Project Location: CIMAREX - LEA CO NM

Sampling Date: 02/10/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 1 1' (H220547-01)

| BTEX 8021B | | mg/kg | | Analyzed By: JH | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 02/12/2022 | ND | 2.11 | 105 | 2.00 | 2.41 | |
| Toluene* | <0.050 | 0.050 | 02/12/2022 | ND | 2.08 | 104 | 2.00 | 2.95 | |
| Ethylbenzene* | <0.050 | 0.050 | 02/12/2022 | ND | 2.08 | 104 | 2.00 | 2.87 | |
| Total Xylenes* | <0.150 | 0.150 | 02/12/2022 | ND | 6.50 | 108 | 6.00 | 2.74 | |
| Total BTEX | <0.300 | 0.300 | 02/12/2022 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: GM | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 32.0 | 16.0 | 02/14/2022 | ND | 416 | 104 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: CK | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 02/13/2022 | ND | 202 | 101 | 200 | 0.705 | |
| DRO >C10-C28* | <10.0 | 10.0 | 02/13/2022 | ND | 218 | 109 | 200 | 1.59 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 02/13/2022 | ND | | | | | |

Surrogate: 1-Chlorooctane 128 % 66.9-136

Surrogate: 1-Chlorooctadecane 139 % 59.5-142

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

H & R ENTERPRISES
 MICHAEL COLLIER
 1010 GAMBLIN ROAD
 HOBBS NM, 88240
 Fax To: NONE

Received: 02/11/2022
 Reported: 02/15/2022
 Project Name: RED HILLS UNIT #16
 Project Number: RHU #16
 Project Location: CIMAREX - LEA CO NM

Sampling Date: 02/10/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 2 1' (H220547-02)

| BTX 8021B | | mg/kg | | Analyzed By: JH | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 02/12/2022 | ND | 2.11 | 105 | 2.00 | 2.41 | |
| Toluene* | <0.050 | 0.050 | 02/12/2022 | ND | 2.08 | 104 | 2.00 | 2.95 | |
| Ethylbenzene* | <0.050 | 0.050 | 02/12/2022 | ND | 2.08 | 104 | 2.00 | 2.87 | |
| Total Xylenes* | <0.150 | 0.150 | 02/12/2022 | ND | 6.50 | 108 | 6.00 | 2.74 | |
| Total BTX | <0.300 | 0.300 | 02/12/2022 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: GM | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 32.0 | 16.0 | 02/14/2022 | ND | 416 | 104 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: CK | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 02/13/2022 | ND | 202 | 101 | 200 | 0.705 | |
| DRO >C10-C28* | <10.0 | 10.0 | 02/13/2022 | ND | 218 | 109 | 200 | 1.59 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 02/13/2022 | ND | | | | | |

Surrogate: 1-Chlorooctane 114 % 66.9-136

Surrogate: 1-Chlorooctadecane 123 % 59.5-142

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:

H & R ENTERPRISES
 MICHAEL COLLIER
 1010 GAMBLIN ROAD
 HOBBS NM, 88240
 Fax To: NONE

Received: 02/11/2022
 Reported: 02/15/2022
 Project Name: RED HILLS UNIT #16
 Project Number: RHU #16
 Project Location: CIMAREX - LEA CO NM

Sampling Date: 02/10/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 3 1' (H220547-03)

| BTX 8021B | | mg/kg | | Analyzed By: JH | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 02/12/2022 | ND | 2.11 | 105 | 2.00 | 2.41 | |
| Toluene* | <0.050 | 0.050 | 02/12/2022 | ND | 2.08 | 104 | 2.00 | 2.95 | |
| Ethylbenzene* | <0.050 | 0.050 | 02/12/2022 | ND | 2.08 | 104 | 2.00 | 2.87 | |
| Total Xylenes* | <0.150 | 0.150 | 02/12/2022 | ND | 6.50 | 108 | 6.00 | 2.74 | |
| Total BTX | <0.300 | 0.300 | 02/12/2022 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: GM | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 32.0 | 16.0 | 02/14/2022 | ND | 416 | 104 | 400 | 0.00 | | |

| TPH 8015M | | mg/kg | | Analyzed By: CK | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 02/13/2022 | ND | 202 | 101 | 200 | 0.705 | |
| DRO >C10-C28* | <10.0 | 10.0 | 02/13/2022 | ND | 218 | 109 | 200 | 1.59 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 02/13/2022 | ND | | | | | |

Surrogate: 1-Chlorooctane 119 % 66.9-136

Surrogate: 1-Chlorooctadecane 129 % 59.5-142

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:

H & R ENTERPRISES
 MICHAEL COLLIER
 1010 GAMBLIN ROAD
 HOBBS NM, 88240
 Fax To: NONE

Received: 02/11/2022
 Reported: 02/15/2022
 Project Name: RED HILLS UNIT #16
 Project Number: RHU #16
 Project Location: CIMAREX - LEA CO NM

Sampling Date: 02/10/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 4 1' (H220547-04)

| BTX 8021B | | mg/kg | | Analyzed By: JH | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 02/12/2022 | ND | 2.11 | 105 | 2.00 | 2.41 | |
| Toluene* | <0.050 | 0.050 | 02/12/2022 | ND | 2.08 | 104 | 2.00 | 2.95 | |
| Ethylbenzene* | <0.050 | 0.050 | 02/12/2022 | ND | 2.08 | 104 | 2.00 | 2.87 | |
| Total Xylenes* | <0.150 | 0.150 | 02/12/2022 | ND | 6.50 | 108 | 6.00 | 2.74 | |
| Total BTX | <0.300 | 0.300 | 02/12/2022 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: GM | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 48.0 | 16.0 | 02/14/2022 | ND | 416 | 104 | 400 | 0.00 | | |

| TPH 8015M | | mg/kg | | Analyzed By: CK | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 02/13/2022 | ND | 202 | 101 | 200 | 0.705 | |
| DRO >C10-C28* | <10.0 | 10.0 | 02/13/2022 | ND | 218 | 109 | 200 | 1.59 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 02/13/2022 | ND | | | | | |

Surrogate: 1-Chlorooctane 121 % 66.9-136

Surrogate: 1-Chlorooctadecane 132 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

H & R ENTERPRISES
 MICHAEL COLLIER
 1010 GAMBLIN ROAD
 HOBBS NM, 88240
 Fax To: NONE

Received: 02/11/2022
 Reported: 02/15/2022
 Project Name: RED HILLS UNIT #16
 Project Number: RHU #16
 Project Location: CIMAREX - LEA CO NM

Sampling Date: 02/10/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 5 1' (H220547-05)

| BTX 8021B | | mg/kg | | Analyzed By: JH | | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 02/12/2022 | ND | 2.11 | 105 | 2.00 | 2.41 | | |
| Toluene* | <0.050 | 0.050 | 02/12/2022 | ND | 2.08 | 104 | 2.00 | 2.95 | | |
| Ethylbenzene* | <0.050 | 0.050 | 02/12/2022 | ND | 2.08 | 104 | 2.00 | 2.87 | | |
| Total Xylenes* | <0.150 | 0.150 | 02/12/2022 | ND | 6.50 | 108 | 6.00 | 2.74 | | |
| Total BTX | <0.300 | 0.300 | 02/12/2022 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: GM | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 48.0 | 16.0 | 02/14/2022 | ND | 416 | 104 | 400 | 0.00 | | |

| TPH 8015M | | mg/kg | | Analyzed By: CK | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 02/13/2022 | ND | 202 | 101 | 200 | 0.705 | |
| DRO >C10-C28* | <10.0 | 10.0 | 02/13/2022 | ND | 218 | 109 | 200 | 1.59 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 02/13/2022 | ND | | | | | |

Surrogate: 1-Chlorooctane 119 % 66.9-136

Surrogate: 1-Chlorooctadecane 130 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

H & R ENTERPRISES
 MICHAEL COLLIER
 1010 GAMBLIN ROAD
 HOBBS NM, 88240
 Fax To: NONE

Received: 02/11/2022
 Reported: 02/15/2022
 Project Name: RED HILLS UNIT #16
 Project Number: RHU #16
 Project Location: CIMAREX - LEA CO NM

Sampling Date: 02/10/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 6 1' (H220547-06)

| BTEx 8021B | | mg/kg | | Analyzed By: JH | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 02/12/2022 | ND | 2.11 | 105 | 2.00 | 2.41 | |
| Toluene* | <0.050 | 0.050 | 02/12/2022 | ND | 2.08 | 104 | 2.00 | 2.95 | |
| Ethylbenzene* | <0.050 | 0.050 | 02/12/2022 | ND | 2.08 | 104 | 2.00 | 2.87 | |
| Total Xylenes* | <0.150 | 0.150 | 02/12/2022 | ND | 6.50 | 108 | 6.00 | 2.74 | |
| Total BTEx | <0.300 | 0.300 | 02/12/2022 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: GM | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 64.0 | 16.0 | 02/14/2022 | ND | 416 | 104 | 400 | 0.00 | | |

| TPH 8015M | | mg/kg | | Analyzed By: CK | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 02/13/2022 | ND | 202 | 101 | 200 | 0.705 | |
| DRO >C10-C28* | <10.0 | 10.0 | 02/13/2022 | ND | 218 | 109 | 200 | 1.59 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 02/13/2022 | ND | | | | | |

Surrogate: 1-Chlorooctane 119 % 66.9-136

Surrogate: 1-Chlorooctadecane 130 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

H & R ENTERPRISES
 MICHAEL COLLIER
 1010 GAMBLIN ROAD
 HOBBS NM, 88240
 Fax To: NONE

Received: 02/11/2022
 Reported: 02/15/2022
 Project Name: RED HILLS UNIT #16
 Project Number: RHU #16
 Project Location: CIMAREX - LEA CO NM

Sampling Date: 02/10/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: N. SW 1' (H220547-07)

| BTX 8021B | | mg/kg | | Analyzed By: JH | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 02/12/2022 | ND | 2.11 | 105 | 2.00 | 2.41 | |
| Toluene* | <0.050 | 0.050 | 02/12/2022 | ND | 2.08 | 104 | 2.00 | 2.95 | |
| Ethylbenzene* | <0.050 | 0.050 | 02/12/2022 | ND | 2.08 | 104 | 2.00 | 2.87 | |
| Total Xylenes* | <0.150 | 0.150 | 02/12/2022 | ND | 6.50 | 108 | 6.00 | 2.74 | |
| Total BTX | <0.300 | 0.300 | 02/12/2022 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.9-140

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: GM | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 48.0 | 16.0 | 02/14/2022 | ND | 416 | 104 | 400 | 0.00 | | |

| TPH 8015M | | mg/kg | | Analyzed By: CK | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 02/13/2022 | ND | 202 | 101 | 200 | 0.705 | |
| DRO >C10-C28* | <10.0 | 10.0 | 02/13/2022 | ND | 218 | 109 | 200 | 1.59 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 02/13/2022 | ND | | | | | |

Surrogate: 1-Chlorooctane 119 % 66.9-136

Surrogate: 1-Chlorooctadecane 130 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

H & R ENTERPRISES
 MICHAEL COLLIER
 1010 GAMBLIN ROAD
 HOBBS NM, 88240
 Fax To: NONE

Received: 02/11/2022
 Reported: 02/15/2022
 Project Name: RED HILLS UNIT #16
 Project Number: RHU #16
 Project Location: CIMAREX - LEA CO NM

Sampling Date: 02/10/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S. SW 1' (H220547-08)

| 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 | 02/13/2022 | ND | 1.84 | 91.8 | 2.00 | 7.05 | | |
| Toluene* | <0.050 | 0.050 | 02/13/2022 | ND | 1.86 | 93.0 | 2.00 | 6.57 | | |
| Ethylbenzene* | <0.050 | 0.050 | 02/13/2022 | ND | 1.81 | 90.6 | 2.00 | 6.06 | | |
| Total Xylenes* | <0.150 | 0.150 | 02/13/2022 | ND | 5.67 | 94.5 | 6.00 | 5.02 | | |
| Total BTEx | <0.300 | 0.300 | 02/13/2022 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: GM | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 48.0 | 16.0 | 02/14/2022 | ND | 416 | 104 | 400 | 0.00 | | |

| TPH 8015M | | mg/kg | | Analyzed By: CK | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 02/13/2022 | ND | 202 | 101 | 200 | 0.705 | |
| DRO >C10-C28* | <10.0 | 10.0 | 02/13/2022 | ND | 218 | 109 | 200 | 1.59 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 02/13/2022 | ND | | | | | |

Surrogate: 1-Chlorooctane 112 % 66.9-136

Surrogate: 1-Chlorooctadecane 122 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

H & R ENTERPRISES
 MICHAEL COLLIER
 1010 GAMBLIN ROAD
 HOBBS NM, 88240
 Fax To: NONE

Received: 02/11/2022
 Reported: 02/15/2022
 Project Name: RED HILLS UNIT #16
 Project Number: RHU #16
 Project Location: CIMAREX - LEA CO NM

Sampling Date: 02/10/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: E. SW 1' (H220547-09)

| BTX 8021B | | mg/kg | | Analyzed By: MS/ | | | | | |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 02/13/2022 | ND | 1.84 | 91.8 | 2.00 | 7.05 | |
| Toluene* | <0.050 | 0.050 | 02/13/2022 | ND | 1.86 | 93.0 | 2.00 | 6.57 | |
| Ethylbenzene* | <0.050 | 0.050 | 02/13/2022 | ND | 1.81 | 90.6 | 2.00 | 6.06 | |
| Total Xylenes* | <0.150 | 0.150 | 02/13/2022 | ND | 5.67 | 94.5 | 6.00 | 5.02 | |
| Total BTX | <0.300 | 0.300 | 02/13/2022 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: GM | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 32.0 | 16.0 | 02/14/2022 | ND | 416 | 104 | 400 | 0.00 | | |

| TPH 8015M | | mg/kg | | Analyzed By: CK | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 02/13/2022 | ND | 202 | 101 | 200 | 0.705 | |
| DRO >C10-C28* | <10.0 | 10.0 | 02/13/2022 | ND | 218 | 109 | 200 | 1.59 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 02/13/2022 | ND | | | | | |

Surrogate: 1-Chlorooctane 119 % 66.9-136

Surrogate: 1-Chlorooctadecane 130 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

H & R ENTERPRISES
 MICHAEL COLLIER
 1010 GAMBLIN ROAD
 HOBBS NM, 88240
 Fax To: NONE

Received: 02/11/2022
 Reported: 02/15/2022
 Project Name: RED HILLS UNIT #16
 Project Number: RHU #16
 Project Location: CIMAREX - LEA CO NM

Sampling Date: 02/10/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: W. SW 1' (H220547-10)

| BTX 8021B | | mg/kg | | Analyzed By: MS/ | | | | | |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 02/13/2022 | ND | 1.84 | 91.8 | 2.00 | 7.05 | |
| Toluene* | <0.050 | 0.050 | 02/13/2022 | ND | 1.86 | 93.0 | 2.00 | 6.57 | |
| Ethylbenzene* | <0.050 | 0.050 | 02/13/2022 | ND | 1.81 | 90.6 | 2.00 | 6.06 | |
| Total Xylenes* | <0.150 | 0.150 | 02/13/2022 | ND | 5.67 | 94.5 | 6.00 | 5.02 | |
| Total BTX | <0.300 | 0.300 | 02/13/2022 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: GM | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 48.0 | 16.0 | 02/14/2022 | ND | 416 | 104 | 400 | 0.00 | | |

| TPH 8015M | | mg/kg | | Analyzed By: CK | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 02/13/2022 | ND | 202 | 101 | 200 | 0.705 | |
| DRO >C10-C28* | <10.0 | 10.0 | 02/13/2022 | ND | 218 | 109 | 200 | 1.59 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 02/13/2022 | ND | | | | | |

Surrogate: 1-Chlorooctane 122 % 66.9-136

Surrogate: 1-Chlorooctadecane 131 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

H & R ENTERPRISES
 MICHAEL COLLIER
 1010 GAMBLIN ROAD
 HOBBS NM, 88240
 Fax To: NONE

Received: 02/11/2022
 Reported: 02/15/2022
 Project Name: RED HILLS UNIT #16
 Project Number: RHU #16
 Project Location: CIMAREX - LEA CO NM

Sampling Date: 02/10/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BG - 1 (H220547-11)

| 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 | 02/13/2022 | ND | 1.84 | 91.8 | 2.00 | 7.05 | |
| Toluene* | <0.050 | 0.050 | 02/13/2022 | ND | 1.86 | 93.0 | 2.00 | 6.57 | |
| Ethylbenzene* | <0.050 | 0.050 | 02/13/2022 | ND | 1.81 | 90.6 | 2.00 | 6.06 | |
| Total Xylenes* | <0.150 | 0.150 | 02/13/2022 | ND | 5.67 | 94.5 | 6.00 | 5.02 | |
| Total BTX | <0.300 | 0.300 | 02/13/2022 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

| 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 | 02/14/2022 | ND | 416 | 104 | 400 | 0.00 | | |

| TPH 8015M | | mg/kg | | Analyzed By: CK | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 02/13/2022 | ND | 202 | 101 | 200 | 0.705 | |
| DRO >C10-C28* | <10.0 | 10.0 | 02/13/2022 | ND | 218 | 109 | 200 | 1.59 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 02/13/2022 | ND | | | | | |

Surrogate: 1-Chlorooctane 127 % 66.9-136

Surrogate: 1-Chlorooctadecane 138 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

H & R ENTERPRISES
 MICHAEL COLLIER
 1010 GAMBLIN ROAD
 HOBBS NM, 88240
 Fax To: NONE

Received: 02/11/2022
 Reported: 02/15/2022
 Project Name: RED HILLS UNIT #16
 Project Number: RHU #16
 Project Location: CIMAREX - LEA CO NM

Sampling Date: 02/10/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BG - 2 (H220547-12)

| 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 | 02/13/2022 | ND | 1.84 | 91.8 | 2.00 | 7.05 | | |
| Toluene* | <0.050 | 0.050 | 02/13/2022 | ND | 1.86 | 93.0 | 2.00 | 6.57 | | |
| Ethylbenzene* | <0.050 | 0.050 | 02/13/2022 | ND | 1.81 | 90.6 | 2.00 | 6.06 | | |
| Total Xylenes* | <0.150 | 0.150 | 02/13/2022 | ND | 5.67 | 94.5 | 6.00 | 5.02 | | |
| Total BTX | <0.300 | 0.300 | 02/13/2022 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: GM | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 32.0 | 16.0 | 02/14/2022 | ND | 416 | 104 | 400 | 0.00 | | |

| TPH 8015M | | mg/kg | | Analyzed By: CK | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 02/13/2022 | ND | 202 | 101 | 200 | 0.705 | |
| DRO >C10-C28* | <10.0 | 10.0 | 02/13/2022 | ND | 218 | 109 | 200 | 1.59 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 02/13/2022 | ND | | | | | |

Surrogate: 1-Chlorooctane 125 % 66.9-136

Surrogate: 1-Chlorooctadecane 135 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

H & R ENTERPRISES
 MICHAEL COLLIER
 1010 GAMBLIN ROAD
 HOBBS NM, 88240
 Fax To: NONE

Received: 02/11/2022
 Reported: 02/15/2022
 Project Name: RED HILLS UNIT #16
 Project Number: RHU #16
 Project Location: CIMAREX - LEA CO NM

Sampling Date: 02/10/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BG - 3 (H220547-13)

| BTX 8021B | | mg/kg | | Analyzed By: MS/ | | | | | |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 02/13/2022 | ND | 1.84 | 91.8 | 2.00 | 7.05 | |
| Toluene* | <0.050 | 0.050 | 02/13/2022 | ND | 1.86 | 93.0 | 2.00 | 6.57 | |
| Ethylbenzene* | <0.050 | 0.050 | 02/13/2022 | ND | 1.81 | 90.6 | 2.00 | 6.06 | |
| Total Xylenes* | <0.150 | 0.150 | 02/13/2022 | ND | 5.67 | 94.5 | 6.00 | 5.02 | |
| Total BTX | <0.300 | 0.300 | 02/13/2022 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: GM | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 32.0 | 16.0 | 02/14/2022 | ND | 416 | 104 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: CK | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 02/13/2022 | ND | 202 | 101 | 200 | 0.705 | |
| DRO >C10-C28* | <10.0 | 10.0 | 02/13/2022 | ND | 218 | 109 | 200 | 1.59 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 02/13/2022 | ND | | | | | |

Surrogate: 1-Chlorooctane 126 % 66.9-136

Surrogate: 1-Chlorooctadecane 136 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

H & R ENTERPRISES
 MICHAEL COLLIER
 1010 GAMBLIN ROAD
 HOBBS NM, 88240
 Fax To: NONE

Received: 02/11/2022
 Reported: 02/15/2022
 Project Name: RED HILLS UNIT #16
 Project Number: RHU #16
 Project Location: CIMAREX - LEA CO NM

Sampling Date: 02/10/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BG - 4 (H220547-14)

| BTX 8021B | | mg/kg | | Analyzed By: MS/ | | | | | |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 02/13/2022 | ND | 1.84 | 91.8 | 2.00 | 7.05 | |
| Toluene* | <0.050 | 0.050 | 02/13/2022 | ND | 1.86 | 93.0 | 2.00 | 6.57 | |
| Ethylbenzene* | <0.050 | 0.050 | 02/13/2022 | ND | 1.81 | 90.6 | 2.00 | 6.06 | |
| Total Xylenes* | <0.150 | 0.150 | 02/13/2022 | ND | 5.67 | 94.5 | 6.00 | 5.02 | |
| Total BTX | <0.300 | 0.300 | 02/13/2022 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: GM | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 32.0 | 16.0 | 02/14/2022 | ND | 416 | 104 | 400 | 0.00 | | |

| TPH 8015M | | mg/kg | | Analyzed By: CK | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 02/13/2022 | ND | 231 | 116 | 200 | 2.45 | |
| DRO >C10-C28* | <10.0 | 10.0 | 02/13/2022 | ND | 206 | 103 | 200 | 3.66 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 02/13/2022 | ND | | | | | |

Surrogate: 1-Chlorooctane 103 % 66.9-136

Surrogate: 1-Chlorooctadecane 115 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

| | |
|-------|--|
| QM-07 | The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery. |
| ND | Analyte NOT DETECTED at or above the reporting limit |
| RPD | Relative Percent Difference |
| ** | Samples not received at proper temperature of 6°C or below. |
| *** | Insufficient time to reach temperature. |
| - | Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report |

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A handwritten signature in black ink, appearing to read "C. 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: H&R Enterprises | | BILL TO | | ANALYSIS REQUEST | |
| Project Manager: Michael Collier | | P.O. #: | | | |
| Address: 5120 W. Kansas St. | | Company: Cimarex Energy | | | |
| City: Hobbs | | Attn: Lori Luig | | | |
| State: NM Zip: 88242 | | Address: | | | |
| Phone #: 575.909.0326/ 575.605.3471 Fax #: | | City: | | | |
| Project #: | | State: | | | |
| Project Name: Red Hills Unit #16 (RHU #16) | | Zip: | | | |
| Project Location: Lea County, NM | | Phone #: | | | |
| Sampler Name: M. Collier | | Fax #: | | | |
| FOR LAB USE ONLY | | | | | |
| Lab I.D. | Sample I.D. | (G)RAB OR (C)OMP. | # CONTAINERS | MATRIX | PRESERV. |
| | | | | GROUNDWATER | SAMPLING |
| | | | | WASTEWATER | |
| | | | | SOIL | |
| | | | | OIL | |
| | | | | SLUDGE | |
| | | | | OTHER : | |
| | | | | ACID/BASE: | |
| | | | | ICE / COOL | |
| | | | | OTHER : | |
| | | | | DATE | TIME |
| H220547 | 1 5-1 1' | C | 1 | 2-10-22 | 1:30 |
| | 2 5-2 1' | | | | 1:33 |
| | 3 5-3 1' | | | | 1:34 |
| | 4 5-4 1' | | | | 1:39 |
| | 5 5-5 1' | | | | 1:42 |
| | 6 5-6 1' | | | | 1:45 |
| | 7 N.S.W 1' | | | | 1:48 |
| | 8 S.S.W 1' | | | | 1:51 |
| | 9 E.S.W 1' | | | | 1:54 |
| | 10 S.S.W 1' | | | | 1:57 |
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| Relinquished By: <i>Michael Collier</i> | | Date: 2-11-22 | | Received By: <i>Lawrence Delaney</i> | |
| Relinquished By: | | Date: 1205 | | Received By: | |
| Time: | | Time: | | REMARKS: | |
| Delivered By: (Circle One) | | Observed Temp. °C 22 | | Sample Condition | |
| Sampler - UPS - Bus - Other: | | Corrected Temp. °C 1.7 | | Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| | | | | CHECKED BY: <i>JD</i> | |
| | | | | Turnaround Time: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush | |
| | | | | Thermometer ID #113 <input type="checkbox"/> Bacteria (only) <input type="checkbox"/> Sample Condition | |
| | | | | Correction Factor -0.5°C <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Observed Temp. °C | |

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|
| Company Name: H&R Enterprises Project Manager: Michael Collier Address: 5120 W. Kansas St. City: Hobbs State: NM Zip: 88242 Phone #: 575.909.0326/575.605.3471 Fax #: Project #: Project Owner: Cimarex Energy Project Name: Red Hills Unit #16 (RHU #16) Project Location: Lea County, NM Sampler Name: M. Collier | | | | | | | | | | BILL TO P.O. #: Company: Cimarex Energy Attn: Laci Luig Address: City: State: Zip: Phone #: Fax #: | | | | | | | | | | ANALYSIS REQUEST | | | | | | | | | |
| FOR LAB USE ONLY | | | | | | | | | | Lab I.D. | | | | | | | | | | Sample I.D. | | | | | | | | | |
| H220547 11 B6-1 12 B6-2 13 B6-3 14 B6-4 | | | | | | | | | | (G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER : | | | | | | | | | | MATRIX PRESERV SAMPLING | | | | | | | | | |
| | | | | | | | | | | DATE TIME | | | | | | | | | | TPH BTEX CHLORIDES | | | | | | | | | |
| Delivered By: (Circle One) Sampler - UPS - Bus - Other: | | | | | | | | | | Observed Temp. °C Corrected Temp. °C Sample Condition Cool Intact Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Checked By: (Initials) | | | | | | | | | | Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Thermometer ID #113 Corrosion Factor -0.5°C Bacteria (only) Sample Condition Cool Intact Yes <input type="checkbox"/> No <input type="checkbox"/> Observed Temp. °C Corrected Temp. °C | | | | | | | | | |
| Relinquished By: | | | | | | | | | | Date: 2-11-23 Time: 9:05 Received By: | | | | | | | | | | Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: | | | | | | | | | |
| Relinquished By: | | | | | | | | | | Date: 2-11-23 Time: 9:05 Received By: | | | | | | | | | | All Results are emailed. Please provide Email address: | | | | | | | | | |
| Relinquished By: | | | | | | | | | | Date: 2-11-23 Time: 9:05 Received By: | | | | | | | | | | REMARKS: | | | | | | | | | |

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 91264

CONDITIONS

| | |
|--|---|
| Operator: CIMAREX ENERGY CO. OF COLORADO 600 N. Marienfeld Street Midland, TX 79701 | OGRID: 162683 |
| | Action Number: 91264 |
| | Action Type: [C-141] Release Corrective Action (C-141) |

CONDITIONS

| | | |
|------------|--------------------------|----------------|
| Created By | Condition | Condition Date |
| jnobui | Closure Report Approved. | 4/27/2022 |