



[MCollier@H-R\\_Enterprises.com](mailto:MCollier@H-R_Enterprises.com) 575-909-0326

## Site Assessment and Closure Report

Mescalero Ridge 21 Federal #001H  
Incident# nAPP2305851873  
Lea County, New Mexico

### Prepared For:

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

### Prepared By:

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

**May 1, 2023**

Mrs. Jennifer Nobui  
**NMOCD**  
1220 S. St. Francis Dr.  
Santa Fe, NM 87505

Subject: **Site Assessment and Closure Report**  
Mescalero Ridge 21 Federal #001H  
Lea County, NM

Dear Mrs. Nobui,

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

### **Site Information**

The Mescalero Ridge 21 Federal #001H is located approximately 26.7 miles West of Hobbs, New Mexico. The legal location for this release is Unit Letter B, Section 21, Township 19 South and Range 34 East in Lea County, New Mexico. More specifically the latitude and longitude for the release are 32.65075 North and -103.56441 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 Kermit soils and Dune Land, 0 to 12 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 123-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.

<b>Approximate Depth to Groundwater</b>	<b>123 Feet/BGS</b>
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<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

Due to groundwater data not being within 25-years or less, as well as outside the recommended 0.5-mile range, an exploratory water bore was drilled 0.13-miles away on the Mescalero Ridge 21 tank battery location to a depth of 105-feet BGS. See Exploratory Water Bore Map in [Appendix I](#). No groundwater was encountered the day of drilling nor 72-hours later when secondary gauging was performed. As this was an assessment being in an area with a depth to groundwater of more 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	2,500 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 February 26, 2023, the Baird back pressure valve had been cut out by frac sand, releasing 6 barrels (bbls) of crude oil and 16 bbls of produced water onto the well pad. A total of 22 bbls of fluid were released with 0 bbls being recovered. A surface scrape was performed to take away the stain left behind.

### Site Assessment Activities

H&R mobilized personnel to begin site assessment, and sampling activities of the location. Grab samples were obtained by way of hand auger to a depth of 4-feet. Initial site assessment sampling locations are illustrated on Site Assessment Map, [Appendix I](#). Samples collected were transported to Cardinal Laboratory for analysis. Results of that analysis are shown in Table 1 below. Photographs of the location are 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	10,000 mg/kg
S-1	3/15/2023	0-1'	ND	ND	ND	167	ND	167	144
		2'	ND	ND	ND	ND	ND	0	256
		3'	ND	ND	ND	ND	ND	0	80
		4'	ND	ND	ND	ND	ND	0	128
S-2	3/15/2023	0-1'	0.456	ND	ND	180	59.1	239.1	176
		2'	ND	ND	ND	ND	ND	0	32
		3'	ND	ND	ND	ND	ND	0	64
		4'	ND	ND	ND	ND	ND	0	32
S-3	3/15/2023	0-1'	0.394	ND	ND	ND	ND	0	64
		2'	0.367	ND	ND	ND	ND	0	48
		3'	ND	ND	ND	ND	ND	0	32
		4'	0.452	ND	ND	ND	ND	0	48
S-4	3/15/2023	0-1'	ND	ND	ND	ND	ND	0	288
		2'	ND	ND	ND	ND	ND	0	32
		3'	0.683	ND	ND	ND	ND	0	48
		4'	ND	ND	ND	ND	ND	0	48
S-5	3/15/2023	0-1'	ND	ND	ND	ND	ND	0	128
		2'	ND	ND	ND	ND	ND	0	48
		3'	ND	ND	ND	ND	ND	0	48
		4'	ND	ND	ND	ND	ND	0	32
S-6	3/15/2023	0-1'	0.634	ND	ND	56.1	ND	56.1	640
		2'	ND	ND	ND	ND	ND	0	336
		3'	ND	ND	ND	ND	ND	0	160
		4'	ND	ND	ND	ND	ND	0	176
H-1	3/15/2023	0-1'	ND	ND	ND	ND	ND	0	64
H-2	3/15/2023	0-1'	1.34	ND	ND	ND	ND	0	48
H-3	3/15/2023	0-1'	1.81	ND	ND	ND	ND	0	32
H-4	3/15/2023	0-1'	1.86	ND	ND	ND	ND	0	48

ND = Analyte Not Detected S = Vertical Sample H = Horizontal Sample

## Closure

Based on the site assessment sampling results completed for this project, on behalf of Cimarex Energy Co. 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*

Michael Collier  
Environmental Project Manager

### Attachments:

Appendix I Site Maps

Appendix II Soil Survey, Groundwater Data, FEMA Flood Zone, Soil Bore Log, Water Bore Map

Appendix III Initial and Final C-141

Appendix IV Photographic Documentation

Appendix V Laboratory Reports

# APPENDIX I

## SITE MAPS

## KARST MAP

## TOPOGRAPHIC MAP

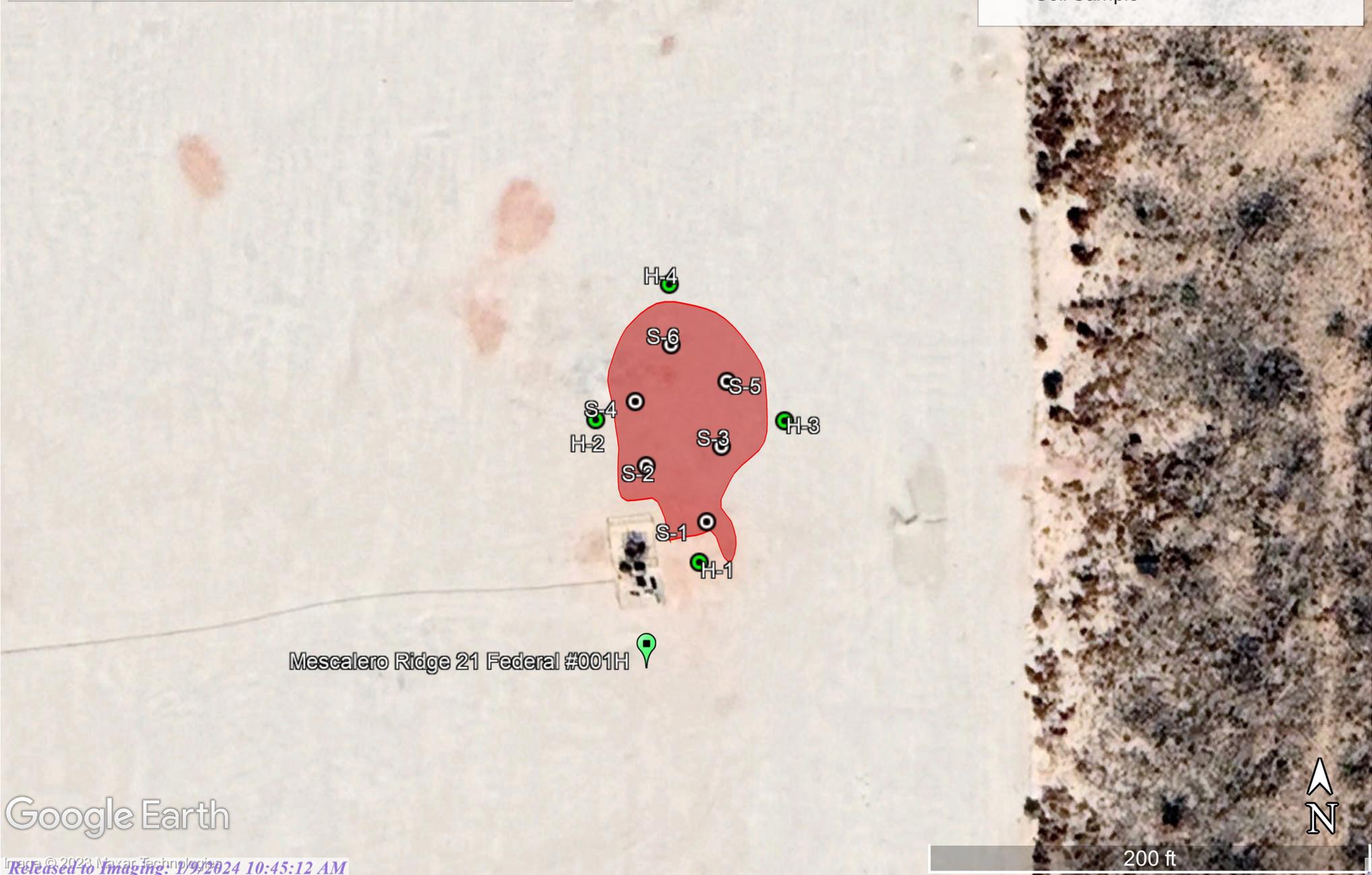
## LOCATOR MAP

# Mescalero Ridge 21 Federal #001H

Ciamrex Energy Co.  
Incident# nAPP2305851873  
Lea County, NM  
Site Assessment Map

## Legend

-  Horizontal Sample
-  Initial Release Boundary
-  Mescalero Ridge 21 Federal #001H
-  Soil Sample



Google Earth

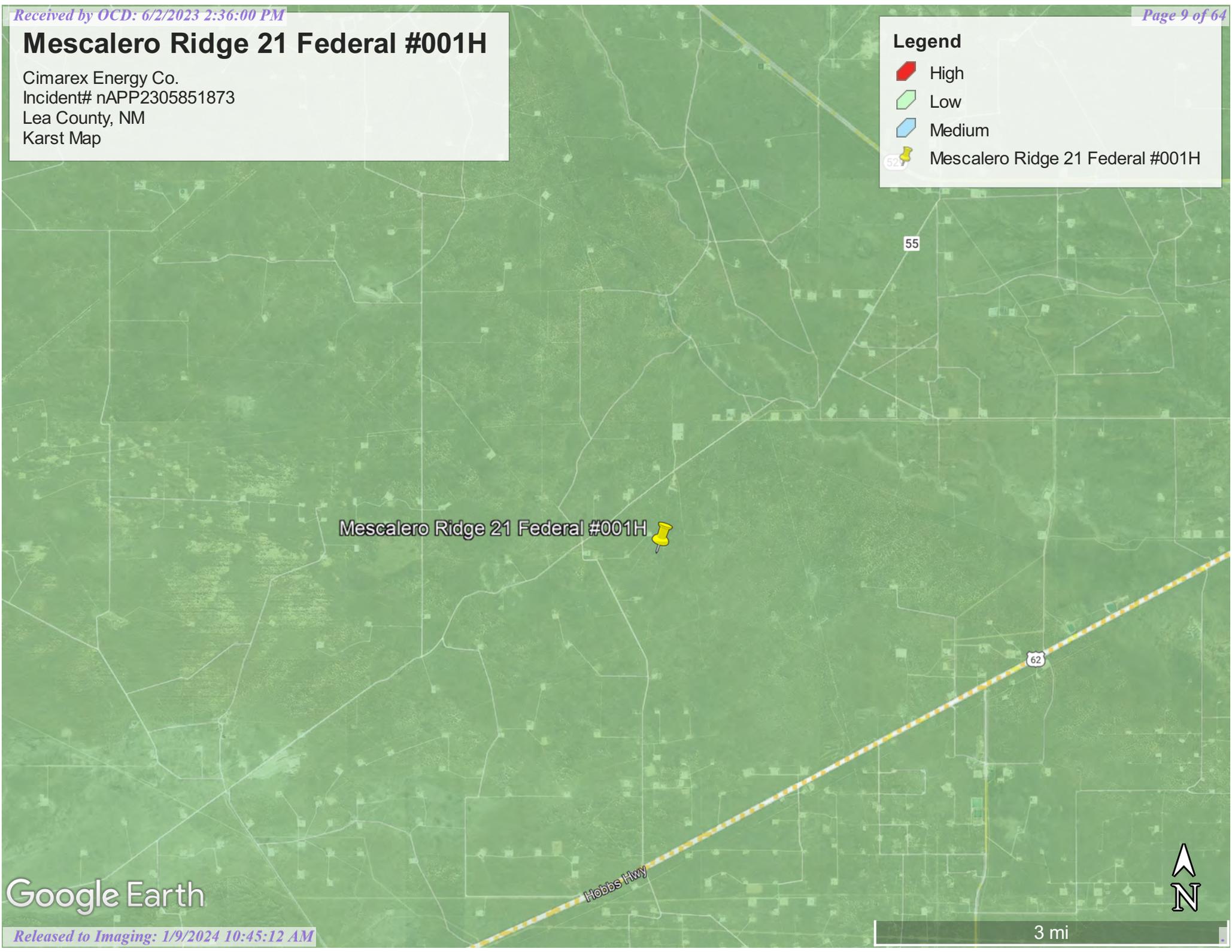
200 ft

# Mescalero Ridge 21 Federal #001H

Cimarex Energy Co.  
Incident# nAPP2305851873  
Lea County, NM  
Karst Map

## Legend

-  High
-  Low
-  Medium
-  Mescalero Ridge 21 Federal #001H



Google Earth

3 mi

# Mescalero Ridge 21 Federal #001H

Cimarex Energy Co.  
Incident# nAPP2305851873  
Lea County, NM  
Locator Map

## Legend

 Mescalero Ridge 21 Federal #001H

 Hobbs AAFB #4

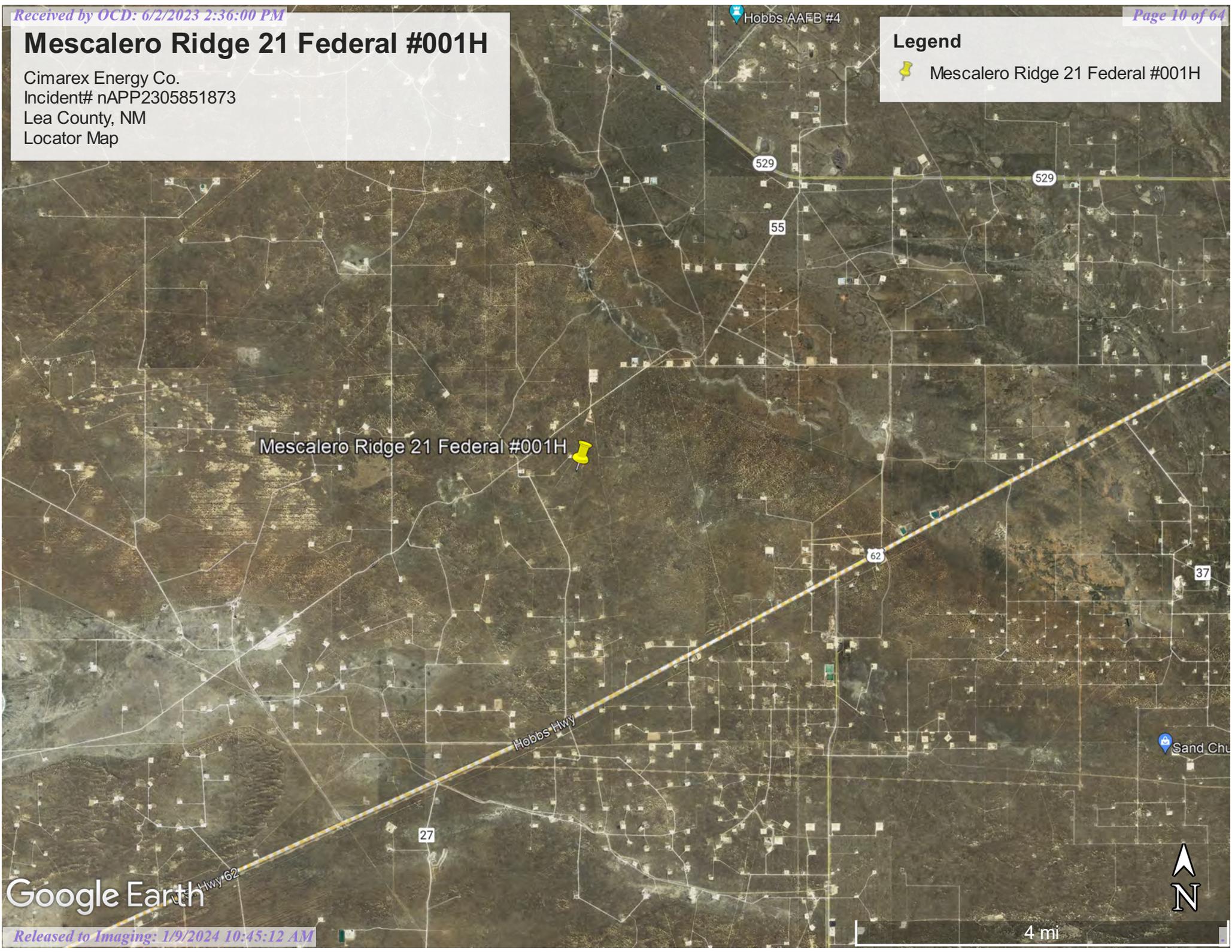
 Sand Chu

Mescalero Ridge 21 Federal #001H 

Hobbs Hwy

Google Earth

4 mi

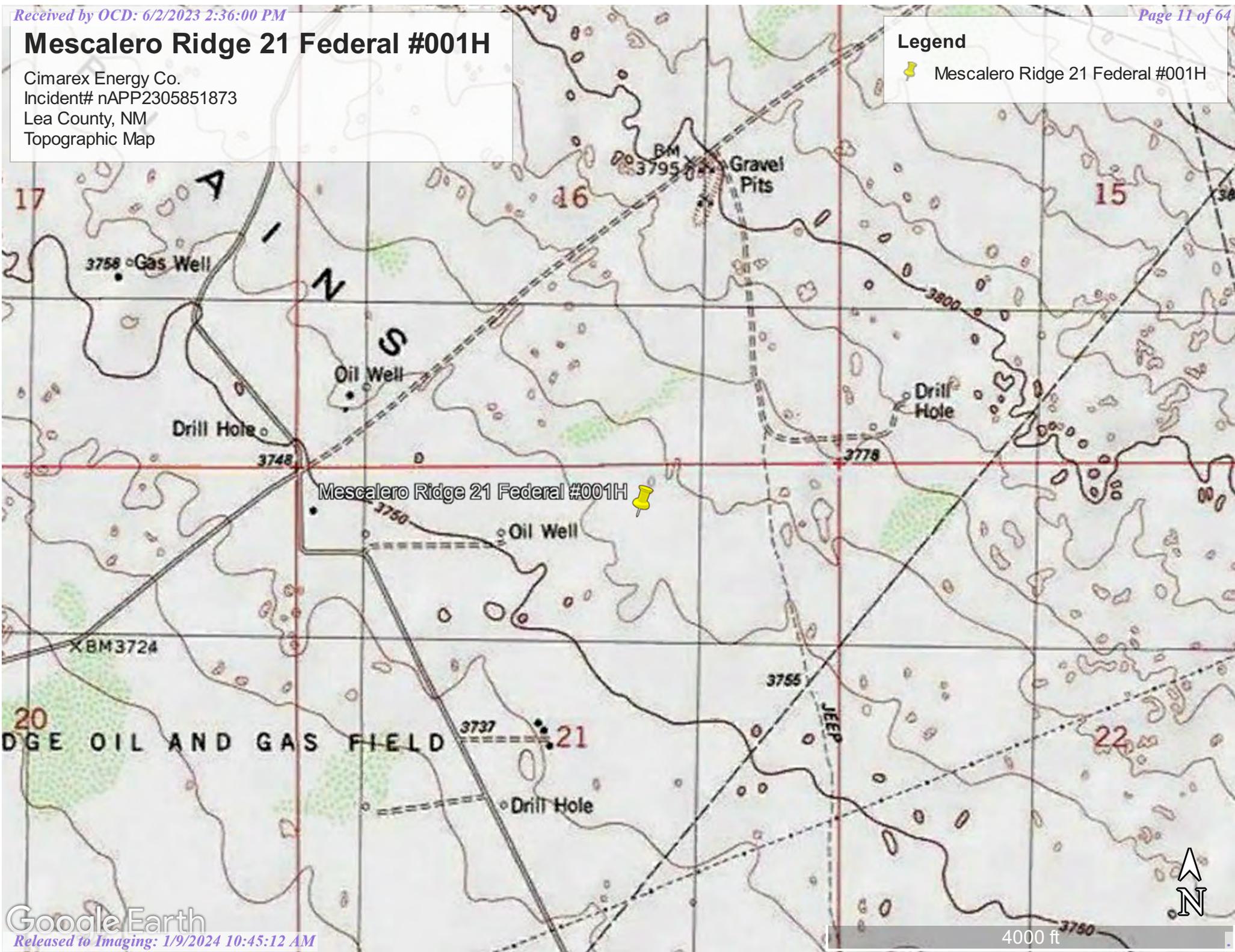


# Mescalero Ridge 21 Federal #001H

Cimarex Energy Co.  
Incident# nAPP2305851873  
Lea County, NM  
Topographic Map

## Legend

 Mescalero Ridge 21 Federal #001H



# APPENDIX II

## GROUNDWATER DATA

### SOIL SURVEY

### FEMA FLOOD ZONE

### WATER BORE MAP

### SOIL BORE LOG



# 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
<a href="#">CP 00811 POD1</a>		CP	LE	4	4	09	19S	34E	635132	3615542*	<input type="checkbox"/>	2010	50		
<a href="#">CP 00806 POD1</a>		CP	LE	4	4	04	19S	34E	635109	3617151*	<input type="checkbox"/>	3602	50		
<a href="#">L 04723</a>		L	LE	1	1	11	19S	34E	637026	3616880*	<input type="checkbox"/>	4011	145	123	22
<a href="#">CP 00875</a>		CP	LE	3	4	3 05	19S	34E	632592	3617013*	<input type="checkbox"/>	4077	200		
<a href="#">L 10347</a>		L	LE	2	3	03	19S	34E	635909	3617566*	<input type="checkbox"/>	4160	130		
<a href="#">L 12103 POD1</a>		L	LE	3	3	4 02	19S	34E	637920	3617173	<input type="checkbox"/>	4791	120		

Average Depth to Water: **123 feet**

Minimum Depth: **123 feet**

Maximum Depth: **123 feet**

**Record Count:** 6

**Basin/County Search:**

**County:** Lea

**UTMNAD83 Radius Search (in meters):**

**Easting (X):** 634767.87

**Northing (Y):** 3613564.85

**Radius:** 5000

\*UTM location was derived from PLSS - see Help

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

4/26/23 1:17 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

Map Unit Description: Kermit soils and Dune land, 0 to 12 percent slopes---Lea County, New Mexico

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## Lea County, New Mexico

### KM—Kermit soils and Dune land, 0 to 12 percent slopes

#### Map Unit Setting

*National map unit symbol:* dmpx  
*Elevation:* 3,000 to 4,400 feet  
*Mean annual precipitation:* 10 to 15 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

*Kermit and similar soils:* 46 percent  
*Dune land:* 44 percent  
*Minor components:* 10 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Kermit

##### Setting

*Landform:* Dunes  
*Landform position (two-dimensional):* Shoulder, backslope, footslope  
*Landform position (three-dimensional):* Side slope  
*Down-slope shape:* Convex, linear, concave  
*Across-slope shape:* Convex  
*Parent material:* Calcareous sandy eolian deposits derived from sedimentary rock

##### Typical profile

*A - 0 to 8 inches:* fine sand  
*C - 8 to 60 inches:* fine sand

##### Properties and qualities

*Slope:* 5 to 12 percent  
*Depth to restrictive feature:* More than 80 inches  
*Drainage class:* Excessively drained  
*Runoff class:* Very low  
*Capacity of the most limiting layer to transmit water (Ksat):* Very high (20.00 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 3 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 3.1 inches)

Map Unit Description: Kermit soils and Dune land, 0 to 12 percent slopes---Lea County, New Mexico

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### Interpretive groups

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated):* 7e

*Hydrologic Soil Group:* A

*Ecological site:* R070BC022NM - Sandhills

*Hydric soil rating:* No

### Description of Dune Land

#### Setting

*Landform:* Dunes

*Landform position (two-dimensional):* Shoulder, backslope, footslope

*Landform position (three-dimensional):* Side slope

*Down-slope shape:* Convex, linear, concave

*Across-slope shape:* Convex

*Parent material:* Sandy eolian deposits derived from sedimentary rock

#### Typical profile

*A - 0 to 6 inches:* fine sand

*C - 6 to 60 inches:* fine sand

### Interpretive groups

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated):* 8

*Hydrologic Soil Group:* A

*Hydric soil rating:* No

### Minor Components

#### Palomas

*Percent of map unit:* 3 percent

*Ecological site:* R070BD003NM - Loamy Sand

*Hydric soil rating:* No

#### Pyote

*Percent of map unit:* 3 percent

*Ecological site:* R070BD003NM - Loamy Sand

*Hydric soil rating:* No

#### Wink

*Percent of map unit:* 2 percent

*Ecological site:* R070BD003NM - Loamy Sand

*Hydric soil rating:* No

#### Maljamar

*Percent of map unit:* 2 percent

*Ecological site:* R070BD003NM - Loamy Sand

Map Unit Description: Kermit soils and Dune land, 0 to 12 percent slopes---Lea County, New Mexico

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*Hydric soil rating:* No

## Data Source Information

Soil Survey Area: Lea County, New Mexico  
Survey Area Data: Version 19, Sep 8, 2022

# National Flood Hazard Layer FIRMMette



103°34'6"W 32°39'22"N



## Legend

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

- |                                    |  |  |
|------------------------------------|--|--|
| <b>SPECIAL FLOOD HAZARD AREAS</b>  |  | Without Base Flood Elevation (BFE)<br><i>Zone A, V, A99</i>  |
|                                    |  | With BFE or Depth <i>Zone AE, AO, AH, VE, AR</i>   |
|                                    |  | Regulatory Floodway  |
| <b>OTHER AREAS OF FLOOD HAZARD</b> |  | 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 <i>Zone X</i> |
|                                    |  | Future Conditions 1% Annual Chance Flood Hazard <i>Zone X</i>  |
|                                    |  | Area with Reduced Flood Risk due to Levee. See Notes. <i>Zone X</i>  |
|                                    |  | Area with Flood Risk due to Levee <i>Zone D</i>  |
| <b>OTHER AREAS</b>                 |  | NO SCREEN Area of Minimal Flood Hazard <i>Zone X</i>   |
|                                    |  | Effective LOMRs  |
| <b>GENERAL STRUCTURES</b>          |  | Area of Undetermined Flood Hazard <i>Zone D</i>  |
|                                    |  | Channel, Culvert, or Storm Sewer   |
|                                    |  | Levee, Dike, or Floodwall  |
| <b>OTHER FEATURES</b>              |  | 20.2 Cross Sections with 1% Annual Chance Water Surface Elevation  |
|                                    |  | 17.5 Water Surface Elevation   |
|                                    |  | Coastal Transect   |
|                                    |  | Base Flood Elevation Line (BFE)  |
|                                    |  | Limit of Study   |
| <b>MAP PANELS</b>                  |  | Jurisdiction Boundary  |
|                                    |  | Coastal Transect Baseline  |
|                                    |  | Profile Baseline   |
|                                    |  | Hydrographic Feature   |
|                                    |  | 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.



0 250 500 1,000 1,500 2,000 Feet 1:6,000 103°33'29"W 32°38'52"N

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 4/26/2023 at 3:19 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

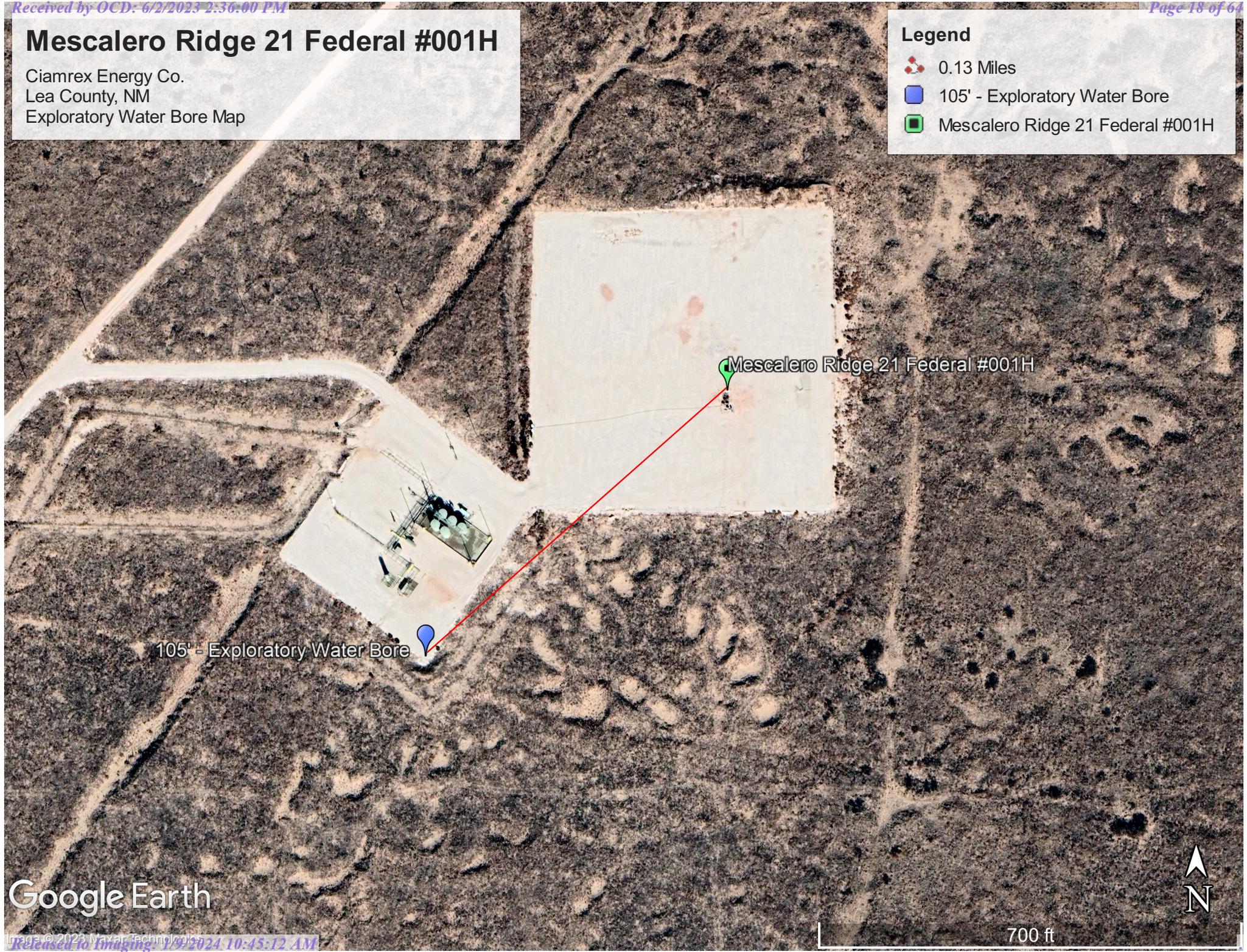
This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory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

# Mescalero Ridge 21 Federal #001H

Ciamrex Energy Co.  
Lea County, NM  
Exploratory Water Bore Map

## Legend

-  0.13 Miles
-  105' - Exploratory Water Bore
-  Mescalero Ridge 21 Federal #001H



Google Earth



700 ft



# APPENDIX III

## INITIAL C-141 AND 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

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

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

Incident ID	nAPP2305851873
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party: Cimarex Energy Co.	OGRID: 215099
Contact Name: Laci Luig	Contact Telephone: (432) 571-7800
Contact email: laci.luig@coterra.com	Incident # (assigned by OCD) nAPP2305851873
Contact mailing address: 600 N Marienfeld Street, Ste. 600 Midland, TX 79701	

### Location of Release Source

Latitude 32.65075 \_\_\_\_\_ Longitude -103.56441 \_\_\_\_\_  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Mescalero Ridge 21 Federal 1H	Site Type: Well Pad
Date Release Discovered: 2/26/2023	API# (if applicable) 30-025-45054

Unit Letter	Section	Township	Range	County
B	21	19S	34E	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 checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 6	Volume Recovered (bbls) 0
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 16	Volume Recovered (bbls) 0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" 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 type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: Equipment Failure

The Baird back pressure valve had been cut out by frac sand, releasing 22 barrels fluid onto the well pad. Flowback hands were nearby and immediately shut down the ESP and shut in the well. A flowback manifold will be installed on the well, along with a sand separator. Vac trucks were not able to be dispatched due to high winds in the area. A surface scrape is being performed on the impacted area and additional impact will be remediated in the coming weeks. Spilled: 22 barrels water (5.4 barrels oil + 16 barrels water on well pad), Recovered: 0 barrels.

ULSTR: B-21-19S-34E

County: Lea

Coordinates: 32.65075, -103.56441

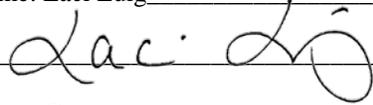
State of New Mexico  
Oil Conservation Division

Incident ID	nAPP2305851873
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?  <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? By: Laci Luig To: OCD Enviro, BLM By: Email	

### Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain why:
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
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:  _____ Date: 2/27/2023 _____ email: laci.luig@coterra.com _____ Telephone: (432) 208-3035 _____
<b><u>OCD Only</u></b> Received by: <u>Jocelyn Harimon</u> _____ Date: <u>06/05/2023</u> _____

Incident ID	nAPP2305851873
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>&gt;105</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 <b>not</b> 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.

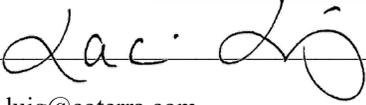
State of New Mexico  
Oil Conservation Division

Page 4

Incident ID	nAPP2305851873
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:  \_\_\_\_\_ Date: 5/15/2023 \_\_\_\_\_

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

**OCD Only**

Received by: Jocelyn Harimon \_\_\_\_\_ Date: 06/05/2023 \_\_\_\_\_

Incident ID	nAPP2305851873
District RP	
Facility ID	
Application ID	

## Closure

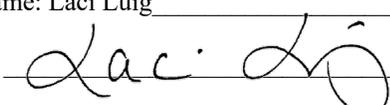
The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled 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:  Date: 5/15/2023

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

**OCD Only**

Received by: Jocelyn Harimon Date: 06/05/2023

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

Closure Approved by:  Date: 01/09/2024

Printed Name: Scott Rodgers Title: Environmental Specialist Adv.

# APPENDIX IV

# PHOTOGRAPHIC DOCUMENTATION

PHOTOGRAPHIC DOCUMENTATION

**INITIAL PHOTOGRAPHS**



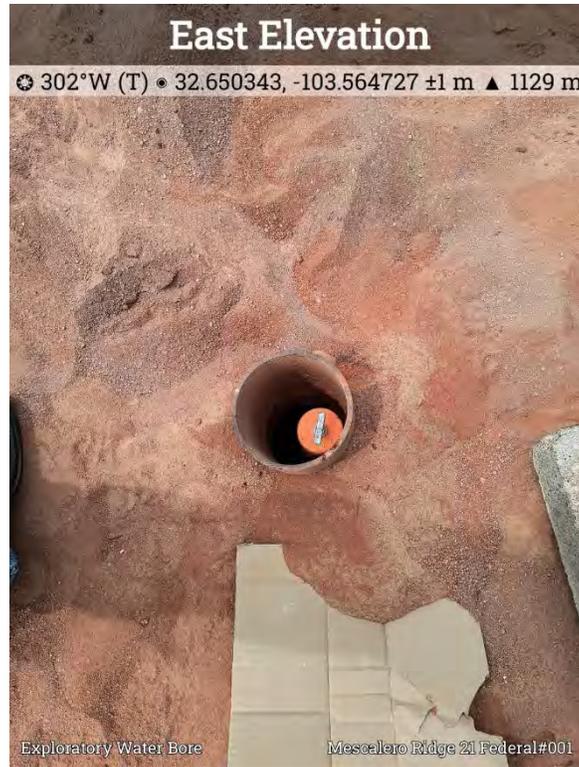
PHOTOGRAPHIC DOCUMENTATION

**INITIAL PHOTOGRAPHS**



PHOTOGRAPHIC DOCUMENTATION

**EXPLORATORY WATER BORE PHOTOGRAPHS**



# APPENDIX V

## LABORATORY REPORTS



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

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March 20, 2023

MICHAEL COLLIER  
H & R ENTERPRISES  
1010 GAMBLIN ROAD  
HOBBS, NM 88240

RE: MESCALERO RIDGE 21 FED #001

Enclosed are the results of analyses for samples received by the laboratory on 03/16/23 11:56.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, flowing "C" at the beginning.

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:	03/16/2023	Sampling Date:	03/15/2023
Reported:	03/20/2023	Sampling Type:	Soil
Project Name:	MESCALERO RIDGE 21 FED #001	Sampling Condition:	Cool & Intact
Project Number:	( MR )	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: S - 1 0-1' (H231202-01)**

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	03/16/2023	ND	2.03	101	2.00	2.01	
<b>Toluene*</b>	<b>0.275</b>	0.050	03/16/2023	ND	2.03	102	2.00	1.04	
Ethylbenzene*	<0.050	0.050	03/16/2023	ND	2.11	105	2.00	2.01	
Total Xylenes*	<0.150	0.150	03/16/2023	ND	6.56	109	6.00	0.561	
Total BTEX	<0.300	0.300	03/16/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>144</b>	16.0	03/17/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/16/2023	ND	168	83.8	200	2.28	
<b>DRO &gt;C10-C28*</b>	<b>167</b>	10.0	03/16/2023	ND	177	88.7	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	03/16/2023	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 137 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/16/2023	Sampling Date:	03/15/2023
Reported:	03/20/2023	Sampling Type:	Soil
Project Name:	MESCALERO RIDGE 21 FED #001	Sampling Condition:	Cool & Intact
Project Number:	( MR )	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: S - 1 2' (H231202-02)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/16/2023	ND	2.03	101	2.00	2.01		
<b>Toluene*</b>	<b>0.068</b>	0.050	03/16/2023	ND	2.03	102	2.00	1.04		
Ethylbenzene*	<0.050	0.050	03/16/2023	ND	2.11	105	2.00	2.01		
Total Xylenes*	<0.150	0.150	03/16/2023	ND	6.56	109	6.00	0.561		
Total BTEX	<0.300	0.300	03/16/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>256</b>	16.0	03/17/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/16/2023	ND	168	83.8	200	2.28		
DRO >C10-C28*	<10.0	10.0	03/16/2023	ND	177	88.7	200	2.47		
EXT DRO >C28-C36	<10.0	10.0	03/16/2023	ND						

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 136 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/16/2023	Sampling Date:	03/15/2023
Reported:	03/20/2023	Sampling Type:	Soil
Project Name:	MESCALERO RIDGE 21 FED #001	Sampling Condition:	Cool & Intact
Project Number:	( MR )	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: S - 1 3' (H231202-03)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/16/2023	ND	2.03	101	2.00	2.01	
<b>Toluene*</b>	<b>0.078</b>	0.050	03/16/2023	ND	2.03	102	2.00	1.04	
Ethylbenzene*	<0.050	0.050	03/16/2023	ND	2.11	105	2.00	2.01	
Total Xylenes*	<0.150	0.150	03/16/2023	ND	6.56	109	6.00	0.561	
Total BTEX	<0.300	0.300	03/16/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>80.0</b>	16.0	03/17/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/16/2023	ND	168	83.8	200	2.28	
DRO >C10-C28*	<10.0	10.0	03/16/2023	ND	177	88.7	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	03/16/2023	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 138 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/16/2023	Sampling Date:	03/15/2023
Reported:	03/20/2023	Sampling Type:	Soil
Project Name:	MESCALERO RIDGE 21 FED #001	Sampling Condition:	Cool & Intact
Project Number:	( MR )	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: S - 1 4' (H231202-04)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/16/2023	ND	2.03	101	2.00	2.01	
<b>Toluene*</b>	<b>0.182</b>	0.050	03/16/2023	ND	2.03	102	2.00	1.04	
Ethylbenzene*	<0.050	0.050	03/16/2023	ND	2.11	105	2.00	2.01	
Total Xylenes*	<0.150	0.150	03/16/2023	ND	6.56	109	6.00	0.561	
Total BTEX	<0.300	0.300	03/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>128</b>	16.0	03/17/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/16/2023	ND	168	83.8	200	2.28	
DRO >C10-C28*	<10.0	10.0	03/16/2023	ND	177	88.7	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	03/16/2023	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 140 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/16/2023	Sampling Date:	03/15/2023
Reported:	03/20/2023	Sampling Type:	Soil
Project Name:	MESCALERO RIDGE 21 FED #001	Sampling Condition:	Cool & Intact
Project Number:	( MR )	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: S - 2 0-1' (H231202-05)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/16/2023	ND	2.03	101	2.00	2.01	
<b>Toluene*</b>	<b>0.456</b>	0.050	03/16/2023	ND	2.03	102	2.00	1.04	
Ethylbenzene*	<0.050	0.050	03/16/2023	ND	2.11	105	2.00	2.01	
Total Xylenes*	<0.150	0.150	03/16/2023	ND	6.56	109	6.00	0.561	
<b>Total BTEX</b>	<b>0.456</b>	0.300	03/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>176</b>	16.0	03/17/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/16/2023	ND	168	83.8	200	2.28		
<b>DRO &gt;C10-C28*</b>	<b>180</b>	10.0	03/16/2023	ND	177	88.7	200	2.47		
<b>EXT DRO &gt;C28-C36</b>	<b>59.1</b>	10.0	03/16/2023	ND						

Surrogate: 1-Chlorooctane 122 % 48.2-134

Surrogate: 1-Chlorooctadecane 156 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/16/2023	Sampling Date:	03/15/2023
Reported:	03/20/2023	Sampling Type:	Soil
Project Name:	MESCALERO RIDGE 21 FED #001	Sampling Condition:	Cool & Intact
Project Number:	( MR )	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: S - 2 2' (H231202-06)**

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	03/16/2023	ND	2.03	101	2.00	2.01	
<b>Toluene*</b>	<b>0.235</b>	0.050	03/16/2023	ND	2.03	102	2.00	1.04	
Ethylbenzene*	<0.050	0.050	03/16/2023	ND	2.11	105	2.00	2.01	
Total Xylenes*	<0.150	0.150	03/16/2023	ND	6.56	109	6.00	0.561	
Total BTEX	<0.300	0.300	03/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	03/17/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/16/2023	ND	168	83.8	200	2.28	
DRO >C10-C28*	<10.0	10.0	03/16/2023	ND	177	88.7	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	03/16/2023	ND					

Surrogate: 1-Chlorooctane 123 % 48.2-134

Surrogate: 1-Chlorooctadecane 148 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/16/2023	Sampling Date:	03/15/2023
Reported:	03/20/2023	Sampling Type:	Soil
Project Name:	MESCALERO RIDGE 21 FED #001	Sampling Condition:	Cool & Intact
Project Number:	( MR )	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: S - 2 3' (H231202-07)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/16/2023	ND	2.03	101	2.00	2.01	
<b>Toluene*</b>	<b>0.201</b>	0.050	03/16/2023	ND	2.03	102	2.00	1.04	
Ethylbenzene*	<0.050	0.050	03/16/2023	ND	2.11	105	2.00	2.01	
Total Xylenes*	<0.150	0.150	03/16/2023	ND	6.56	109	6.00	0.561	
Total BTEX	<0.300	0.300	03/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>64.0</b>	16.0	03/17/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/16/2023	ND	168	83.8	200	2.28	
DRO >C10-C28*	<10.0	10.0	03/16/2023	ND	177	88.7	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	03/16/2023	ND					

Surrogate: 1-Chlorooctane 120 % 48.2-134

Surrogate: 1-Chlorooctadecane 144 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/16/2023	Sampling Date:	03/15/2023
Reported:	03/20/2023	Sampling Type:	Soil
Project Name:	MESCALERO RIDGE 21 FED #001	Sampling Condition:	Cool & Intact
Project Number:	( MR )	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: S - 2 4' (H231202-08)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/16/2023	ND	2.03	101	2.00	2.01	
<b>Toluene*</b>	<b>0.101</b>	0.050	03/16/2023	ND	2.03	102	2.00	1.04	
Ethylbenzene*	<0.050	0.050	03/16/2023	ND	2.11	105	2.00	2.01	
Total Xylenes*	<0.150	0.150	03/16/2023	ND	6.56	109	6.00	0.561	
Total BTEX	<0.300	0.300	03/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	03/17/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/16/2023	ND	168	83.8	200	2.28		
DRO >C10-C28*	<10.0	10.0	03/16/2023	ND	177	88.7	200	2.47		
EXT DRO >C28-C36	<10.0	10.0	03/16/2023	ND						

Surrogate: 1-Chlorooctane 126 % 48.2-134

Surrogate: 1-Chlorooctadecane 153 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/16/2023	Sampling Date:	03/15/2023
Reported:	03/20/2023	Sampling Type:	Soil
Project Name:	MESCALERO RIDGE 21 FED #001	Sampling Condition:	Cool & Intact
Project Number:	( MR )	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: S - 3 0-1' (H231202-09)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/16/2023	ND	2.03	101	2.00	2.01	
<b>Toluene*</b>	<b>0.394</b>	0.050	03/16/2023	ND	2.03	102	2.00	1.04	
Ethylbenzene*	<0.050	0.050	03/16/2023	ND	2.11	105	2.00	2.01	
Total Xylenes*	<0.150	0.150	03/16/2023	ND	6.56	109	6.00	0.561	
<b>Total BTEX</b>	<b>0.394</b>	0.300	03/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>64.0</b>	16.0	03/17/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/16/2023	ND	168	83.8	200	2.28	
DRO >C10-C28*	<10.0	10.0	03/16/2023	ND	177	88.7	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	03/16/2023	ND					

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 139 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/16/2023	Sampling Date:	03/15/2023
Reported:	03/20/2023	Sampling Type:	Soil
Project Name:	MESCALERO RIDGE 21 FED #001	Sampling Condition:	Cool & Intact
Project Number:	( MR )	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: S - 4 2' (H231202-10)**

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	03/16/2023	ND	2.03	101	2.00	2.01		
<b>Toluene*</b>	<b>0.077</b>	0.050	03/16/2023	ND	2.03	102	2.00	1.04		
Ethylbenzene*	<0.050	0.050	03/16/2023	ND	2.11	105	2.00	2.01		
Total Xylenes*	<0.150	0.150	03/16/2023	ND	6.56	109	6.00	0.561		
Total BTEX	<0.300	0.300	03/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>32.0</b>	16.0	03/17/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/16/2023	ND	168	83.8	200	2.28		
DRO >C10-C28*	<10.0	10.0	03/16/2023	ND	177	88.7	200	2.47		
EXT DRO >C28-C36	<10.0	10.0	03/16/2023	ND						

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 132 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/16/2023	Sampling Date:	03/15/2023
Reported:	03/20/2023	Sampling Type:	Soil
Project Name:	MESCALERO RIDGE 21 FED #001	Sampling Condition:	Cool & Intact
Project Number:	( MR )	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: S - 4 3' (H231202-11)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/16/2023	ND	2.03	101	2.00	2.01	
<b>Toluene*</b>	<b>0.683</b>	0.050	03/16/2023	ND	2.03	102	2.00	1.04	
Ethylbenzene*	<0.050	0.050	03/16/2023	ND	2.11	105	2.00	2.01	
Total Xylenes*	<0.150	0.150	03/16/2023	ND	6.56	109	6.00	0.561	
<b>Total BTEX</b>	<b>0.683</b>	0.300	03/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>48.0</b>	16.0	03/17/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/16/2023	ND	168	83.8	200	2.28	
DRO >C10-C28*	<10.0	10.0	03/16/2023	ND	177	88.7	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	03/16/2023	ND					

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 147 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/16/2023	Sampling Date:	03/15/2023
Reported:	03/20/2023	Sampling Type:	Soil
Project Name:	MESCALERO RIDGE 21 FED #001	Sampling Condition:	Cool & Intact
Project Number:	( MR )	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: S - 4 4' (H231202-12)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/16/2023	ND	2.03	101	2.00	2.01	
<b>Toluene*</b>	<b>0.157</b>	0.050	03/16/2023	ND	2.03	102	2.00	1.04	
Ethylbenzene*	<0.050	0.050	03/16/2023	ND	2.11	105	2.00	2.01	
Total Xylenes*	<0.150	0.150	03/16/2023	ND	6.56	109	6.00	0.561	
Total BTEX	<0.300	0.300	03/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>48.0</b>	16.0	03/17/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2023	ND	168	83.8	200	2.28	
DRO >C10-C28*	<10.0	10.0	03/17/2023	ND	177	88.7	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	03/17/2023	ND					

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 141 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/16/2023	Sampling Date:	03/15/2023
Reported:	03/20/2023	Sampling Type:	Soil
Project Name:	MESCALERO RIDGE 21 FED #001	Sampling Condition:	Cool & Intact
Project Number:	( MR )	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: S - 5 0-1' (H231202-13)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/16/2023	ND	2.03	101	2.00	2.01		
<b>Toluene*</b>	<b>0.235</b>	0.050	03/16/2023	ND	2.03	102	2.00	1.04		
Ethylbenzene*	<0.050	0.050	03/16/2023	ND	2.11	105	2.00	2.01		
Total Xylenes*	<0.150	0.150	03/16/2023	ND	6.56	109	6.00	0.561		
Total BTEX	<0.300	0.300	03/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>128</b>	16.0	03/17/2023	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/17/2023	ND	168	83.8	200	2.28		
DRO >C10-C28*	<10.0	10.0	03/17/2023	ND	177	88.7	200	2.47		
EXT DRO >C28-C36	<10.0	10.0	03/17/2023	ND						

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 137 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/16/2023	Sampling Date:	03/15/2023
Reported:	03/20/2023	Sampling Type:	Soil
Project Name:	MESCALERO RIDGE 21 FED #001	Sampling Condition:	Cool & Intact
Project Number:	( MR )	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: S - 5 2' (H231202-14)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/16/2023	ND	2.03	101	2.00	2.01		
Toluene*	<0.050	0.050	03/16/2023	ND	2.03	102	2.00	1.04		
Ethylbenzene*	<0.050	0.050	03/16/2023	ND	2.11	105	2.00	2.01		
Total Xylenes*	<0.150	0.150	03/16/2023	ND	6.56	109	6.00	0.561		
Total BTEX	<0.300	0.300	03/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

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	03/17/2023	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/17/2023	ND	168	83.8	200	2.28		
DRO >C10-C28*	<10.0	10.0	03/17/2023	ND	177	88.7	200	2.47		
EXT DRO >C28-C36	<10.0	10.0	03/17/2023	ND						

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 133 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/16/2023	Sampling Date:	03/15/2023
Reported:	03/20/2023	Sampling Type:	Soil
Project Name:	MESCALERO RIDGE 21 FED #001	Sampling Condition:	Cool & Intact
Project Number:	( MR )	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: S - 5 3' (H231202-15)**

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	03/16/2023	ND	1.93	96.3	2.00	4.28	
<b>Toluene*</b>	<b>0.093</b>	0.050	03/16/2023	ND	1.86	92.8	2.00	12.8	
Ethylbenzene*	<0.050	0.050	03/16/2023	ND	1.79	89.5	2.00	14.1	
Total Xylenes*	<0.150	0.150	03/16/2023	ND	5.42	90.4	6.00	13.4	
Total BTEX	<0.300	0.300	03/16/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>48.0</b>	16.0	03/17/2023	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/16/2023	ND	180	89.8	200	1.53	
DRO >C10-C28*	<10.0	10.0	03/16/2023	ND	168	84.2	200	4.33	
EXT DRO >C28-C36	<10.0	10.0	03/16/2023	ND					

Surrogate: 1-Chlorooctane 120 % 48.2-134

Surrogate: 1-Chlorooctadecane 141 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/16/2023	Sampling Date:	03/15/2023
Reported:	03/20/2023	Sampling Type:	Soil
Project Name:	MESCALERO RIDGE 21 FED #001	Sampling Condition:	Cool & Intact
Project Number:	( MR )	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: S - 5 4' (H231202-16)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/16/2023	ND	1.93	96.3	2.00	4.28	
<b>Toluene*</b>	<b>0.121</b>	0.050	03/16/2023	ND	1.86	92.8	2.00	12.8	
Ethylbenzene*	<0.050	0.050	03/16/2023	ND	1.79	89.5	2.00	14.1	
Total Xylenes*	<0.150	0.150	03/16/2023	ND	5.42	90.4	6.00	13.4	
Total BTEX	<0.300	0.300	03/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	03/17/2023	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/16/2023	ND	180	89.8	200	1.53	
DRO >C10-C28*	<10.0	10.0	03/16/2023	ND	168	84.2	200	4.33	
EXT DRO >C28-C36	<10.0	10.0	03/16/2023	ND					

Surrogate: 1-Chlorooctane 70.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.6 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/16/2023	Sampling Date:	03/15/2023
Reported:	03/20/2023	Sampling Type:	Soil
Project Name:	MESCALERO RIDGE 21 FED #001	Sampling Condition:	Cool & Intact
Project Number:	( MR )	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: S - 6 0-1' (H231202-17)**

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	03/16/2023	ND	1.93	96.3	2.00	4.28	
<b>Toluene*</b>	<b>0.634</b>	0.050	03/16/2023	ND	1.86	92.8	2.00	12.8	
Ethylbenzene*	<0.050	0.050	03/16/2023	ND	1.79	89.5	2.00	14.1	
Total Xylenes*	<0.150	0.150	03/16/2023	ND	5.42	90.4	6.00	13.4	
<b>Total BTEX</b>	<b>0.634</b>	0.300	03/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>640</b>	16.0	03/17/2023	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/16/2023	ND	180	89.8	200	1.53	
<b>DRO &gt;C10-C28*</b>	<b>56.1</b>	10.0	03/16/2023	ND	168	84.2	200	4.33	
EXT DRO >C28-C36	<10.0	10.0	03/16/2023	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 133 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/16/2023	Sampling Date:	03/15/2023
Reported:	03/20/2023	Sampling Type:	Soil
Project Name:	MESCALERO RIDGE 21 FED #001	Sampling Condition:	Cool & Intact
Project Number:	( MR )	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: S - 6 2' (H231202-18)**

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	03/16/2023	ND	1.93	96.3	2.00	4.28		
<b>Toluene*</b>	<b>0.051</b>	0.050	03/16/2023	ND	1.86	92.8	2.00	12.8		
Ethylbenzene*	<0.050	0.050	03/16/2023	ND	1.79	89.5	2.00	14.1		
Total Xylenes*	<0.150	0.150	03/16/2023	ND	5.42	90.4	6.00	13.4		
Total BTEX	<0.300	0.300	03/16/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>336</b>	16.0	03/17/2023	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/16/2023	ND	180	89.8	200	1.53		
DRO >C10-C28*	<10.0	10.0	03/16/2023	ND	168	84.2	200	4.33		
EXT DRO >C28-C36	<10.0	10.0	03/16/2023	ND						

Surrogate: 1-Chlorooctane 119 % 48.2-134

Surrogate: 1-Chlorooctadecane 139 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/16/2023	Sampling Date:	03/15/2023
Reported:	03/20/2023	Sampling Type:	Soil
Project Name:	MESCALERO RIDGE 21 FED #001	Sampling Condition:	Cool & Intact
Project Number:	( MR )	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: S - 6 3' (H231202-19)**

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	03/16/2023	ND	1.93	96.3	2.00	4.28	
<b>Toluene*</b>	<b>0.055</b>	0.050	03/16/2023	ND	1.86	92.8	2.00	12.8	
Ethylbenzene*	<0.050	0.050	03/16/2023	ND	1.79	89.5	2.00	14.1	
Total Xylenes*	<0.150	0.150	03/16/2023	ND	5.42	90.4	6.00	13.4	
Total BTEX	<0.300	0.300	03/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>160</b>	16.0	03/17/2023	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/16/2023	ND	180	89.8	200	1.53	
DRO >C10-C28*	<10.0	10.0	03/16/2023	ND	168	84.2	200	4.33	
EXT DRO >C28-C36	<10.0	10.0	03/16/2023	ND					

Surrogate: 1-Chlorooctane 120 % 48.2-134

Surrogate: 1-Chlorooctadecane 138 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/16/2023	Sampling Date:	03/15/2023
Reported:	03/20/2023	Sampling Type:	Soil
Project Name:	MESCALERO RIDGE 21 FED #001	Sampling Condition:	Cool & Intact
Project Number:	( MR )	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: S - 6 4' (H231202-20)**

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	03/16/2023	ND	1.93	96.3	2.00	4.28	
<b>Toluene*</b>	<b>0.286</b>	0.050	03/16/2023	ND	1.86	92.8	2.00	12.8	
Ethylbenzene*	<0.050	0.050	03/16/2023	ND	1.79	89.5	2.00	14.1	
Total Xylenes*	<0.150	0.150	03/16/2023	ND	5.42	90.4	6.00	13.4	
Total BTEX	<0.300	0.300	03/16/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>176</b>	16.0	03/17/2023	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/16/2023	ND	180	89.8	200	1.53	
DRO >C10-C28*	<10.0	10.0	03/16/2023	ND	168	84.2	200	4.33	
EXT DRO >C28-C36	<10.0	10.0	03/16/2023	ND					

Surrogate: 1-Chlorooctane 118 % 48.2-134

Surrogate: 1-Chlorooctadecane 135 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/16/2023	Sampling Date:	03/15/2023
Reported:	03/20/2023	Sampling Type:	Soil
Project Name:	MESCALERO RIDGE 21 FED #001	Sampling Condition:	Cool & Intact
Project Number:	( MR )	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: H - 1 0-1' (H231202-21)**

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	03/16/2023	ND	1.93	96.3	2.00	4.28	
<b>Toluene*</b>	<b>0.464</b>	0.050	03/16/2023	ND	1.86	92.8	2.00	12.8	
Ethylbenzene*	<0.050	0.050	03/16/2023	ND	1.79	89.5	2.00	14.1	
Total Xylenes*	<0.150	0.150	03/16/2023	ND	5.42	90.4	6.00	13.4	
Total BTEX	<0.300	0.300	03/16/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>64.0</b>	16.0	03/17/2023	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/16/2023	ND	180	89.8	200	1.53	
DRO >C10-C28*	<10.0	10.0	03/16/2023	ND	168	84.2	200	4.33	
EXT DRO >C28-C36	<10.0	10.0	03/16/2023	ND					

Surrogate: 1-Chlorooctane 118 % 48.2-134

Surrogate: 1-Chlorooctadecane 137 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/16/2023	Sampling Date:	03/15/2023
Reported:	03/20/2023	Sampling Type:	Soil
Project Name:	MESCALERO RIDGE 21 FED #001	Sampling Condition:	Cool & Intact
Project Number:	( MR )	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: H - 2 (H231202-22)**

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	03/16/2023	ND	1.93	96.3	2.00	4.28	
<b>Toluene*</b>	<b>1.34</b>	0.050	03/16/2023	ND	1.86	92.8	2.00	12.8	
Ethylbenzene*	<0.050	0.050	03/16/2023	ND	1.79	89.5	2.00	14.1	
Total Xylenes*	<0.150	0.150	03/16/2023	ND	5.42	90.4	6.00	13.4	
<b>Total BTEX</b>	<b>1.34</b>	0.300	03/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>48.0</b>	16.0	03/17/2023	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/16/2023	ND	180	89.8	200	1.53	
DRO >C10-C28*	<10.0	10.0	03/16/2023	ND	168	84.2	200	4.33	
EXT DRO >C28-C36	<10.0	10.0	03/16/2023	ND					

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 134 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/16/2023	Sampling Date:	03/15/2023
Reported:	03/20/2023	Sampling Type:	Soil
Project Name:	MESCALERO RIDGE 21 FED #001	Sampling Condition:	Cool & Intact
Project Number:	( MR )	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: H - 3 (H231202-23)**

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	03/16/2023	ND	1.93	96.3	2.00	4.28	
<b>Toluene*</b>	<b>1.81</b>	0.050	03/16/2023	ND	1.86	92.8	2.00	12.8	
Ethylbenzene*	<0.050	0.050	03/16/2023	ND	1.79	89.5	2.00	14.1	
Total Xylenes*	<0.150	0.150	03/16/2023	ND	5.42	90.4	6.00	13.4	
<b>Total BTEX</b>	<b>1.81</b>	0.300	03/16/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	03/17/2023	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/16/2023	ND	180	89.8	200	1.53	
DRO >C10-C28*	<10.0	10.0	03/16/2023	ND	168	84.2	200	4.33	
EXT DRO >C28-C36	<10.0	10.0	03/16/2023	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 132 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/16/2023	Sampling Date:	03/15/2023
Reported:	03/20/2023	Sampling Type:	Soil
Project Name:	MESCALERO RIDGE 21 FED #001	Sampling Condition:	Cool & Intact
Project Number:	( MR )	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: H - 4 (H231202-24)**

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	03/16/2023	ND	1.93	96.3	2.00	4.28	
<b>Toluene*</b>	<b>1.86</b>	0.050	03/16/2023	ND	1.86	92.8	2.00	12.8	
Ethylbenzene*	<0.050	0.050	03/16/2023	ND	1.79	89.5	2.00	14.1	
Total Xylenes*	<0.150	0.150	03/16/2023	ND	5.42	90.4	6.00	13.4	
<b>Total BTEX</b>	<b>1.86</b>	0.300	03/16/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>48.0</b>	16.0	03/17/2023	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/16/2023	ND	180	89.8	200	1.53	
DRO >C10-C28*	<10.0	10.0	03/16/2023	ND	168	84.2	200	4.33	
EXT DRO >C28-C36	<10.0	10.0	03/16/2023	ND					

Surrogate: 1-Chlorooctane 121 % 48.2-134

Surrogate: 1-Chlorooctadecane 142 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/16/2023	Sampling Date:	03/15/2023
Reported:	03/20/2023	Sampling Type:	Soil
Project Name:	MESCALERO RIDGE 21 FED #001	Sampling Condition:	Cool & Intact
Project Number:	( MR )	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: S - 3 2' (H231202-25)**

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	03/16/2023	ND	1.93	96.3	2.00	4.28	
<b>Toluene*</b>	<b>0.367</b>	0.050	03/16/2023	ND	1.86	92.8	2.00	12.8	
Ethylbenzene*	<0.050	0.050	03/16/2023	ND	1.79	89.5	2.00	14.1	
Total Xylenes*	<0.150	0.150	03/16/2023	ND	5.42	90.4	6.00	13.4	
<b>Total BTEX</b>	<b>0.367</b>	0.300	03/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>48.0</b>	16.0	03/17/2023	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/16/2023	ND	180	89.8	200	1.53	
DRO >C10-C28*	<10.0	10.0	03/16/2023	ND	168	84.2	200	4.33	
EXT DRO >C28-C36	<10.0	10.0	03/16/2023	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 128 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/16/2023	Sampling Date:	03/15/2023
Reported:	03/20/2023	Sampling Type:	Soil
Project Name:	MESCALERO RIDGE 21 FED #001	Sampling Condition:	Cool & Intact
Project Number:	( MR )	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: S - 3 3' (H231202-26)**

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	03/16/2023	ND	1.93	96.3	2.00	4.28	
<b>Toluene*</b>	<b>0.282</b>	0.050	03/16/2023	ND	1.86	92.8	2.00	12.8	
Ethylbenzene*	<0.050	0.050	03/16/2023	ND	1.79	89.5	2.00	14.1	
Total Xylenes*	<0.150	0.150	03/16/2023	ND	5.42	90.4	6.00	13.4	
Total BTEX	<0.300	0.300	03/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	03/17/2023	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/16/2023	ND	180	89.8	200	1.53	
DRO >C10-C28*	<10.0	10.0	03/16/2023	ND	168	84.2	200	4.33	
EXT DRO >C28-C36	<10.0	10.0	03/16/2023	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 134 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/16/2023	Sampling Date:	03/15/2023
Reported:	03/20/2023	Sampling Type:	Soil
Project Name:	MESCALERO RIDGE 21 FED #001	Sampling Condition:	Cool & Intact
Project Number:	( MR )	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: S - 3 4' (H231202-27)**

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	03/16/2023	ND	1.93	96.3	2.00	4.28	
<b>Toluene*</b>	<b>0.452</b>	0.050	03/16/2023	ND	1.86	92.8	2.00	12.8	
Ethylbenzene*	<0.050	0.050	03/16/2023	ND	1.79	89.5	2.00	14.1	
Total Xylenes*	<0.150	0.150	03/16/2023	ND	5.42	90.4	6.00	13.4	
<b>Total BTEX</b>	<b>0.452</b>	0.300	03/16/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>48.0</b>	16.0	03/17/2023	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/16/2023	ND	180	89.8	200	1.53	
DRO >C10-C28*	<10.0	10.0	03/16/2023	ND	168	84.2	200	4.33	
EXT DRO >C28-C36	<10.0	10.0	03/16/2023	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 131 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/16/2023	Sampling Date:	03/15/2023
Reported:	03/20/2023	Sampling Type:	Soil
Project Name:	MESCALERO RIDGE 21 FED #001	Sampling Condition:	Cool & Intact
Project Number:	( MR )	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: S - 4 0-1' (H231202-28)**

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	03/16/2023	ND	1.93	96.3	2.00	4.28	
<b>Toluene*</b>	<b>0.166</b>	0.050	03/16/2023	ND	1.86	92.8	2.00	12.8	
Ethylbenzene*	<0.050	0.050	03/16/2023	ND	1.79	89.5	2.00	14.1	
Total Xylenes*	<0.150	0.150	03/16/2023	ND	5.42	90.4	6.00	13.4	
Total BTEX	<0.300	0.300	03/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>288</b>	16.0	03/17/2023	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/16/2023	ND	180	89.8	200	1.53	
DRO >C10-C28*	<10.0	10.0	03/16/2023	ND	168	84.2	200	4.33	
EXT DRO >C28-C36	<10.0	10.0	03/16/2023	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 138 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: H&R Enterprises Project Manager: Michael Collier Address: City: State: Zip: Phone #: Fax #: Project #: Project Owner: Cimarex Project Name: Mesclero Ridge 21 Fed #001 (MR) Project Location: Eddy Sampler Name: R Bell Lab I.D.		P.O. #: Company: Cimarex Attn: Lael Luig Address: City: State: Zip: Phone #: Fax #: PRESERV. SAMPLING		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>	
Date: 3-16-23 Time: 11:56 Relinquished By: [Signature]		Received By: [Signature] Date: 3/15/23 Time:		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No All Results are emitted. Please provide Email address:		Add'l Phone #:	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C: 1.6 Corrected Temp. °C: 1.0		Sample Condition Cool Inlet: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cool Inlet: <input type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: (Initials) [Signature]	
Thermometer ID #113 Correction Factor -0.5°C		Standard <input type="checkbox"/> Observed Temp. °C Biocidal (only) Sample Condition		Add'l Phone #:		Corrected Temp. °C	
REMARKS: 3 Day pg 1 of 3		(G)RAB OR (C)OMP. # CONTAINERS MATRIX: GROUNDWATER, WASTEWATER, SOIL, OIL, SLUDGE, OTHER: ACID/BASE, ICE / COOL, OTHER: DATE: 3/15/23 TIME:					
1 S-1 0-1' X 2 S-1 2' X 3 S-1 3' X 4 S-1 4' X 5 S-2 0-1' X 6 S-2 2' X 7 S-2 3' X 8 S-2 4' X 9 S-3 0-1' X 10 S-4 2' X		BTEX X X X TPH X X X Chlorides X X X					

FORM-006 R 3 10/07/21

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**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

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

**BILL TO**

**ANALYSIS REQUEST**

Company Name: H&R Enterprises  
 Project Manager: Michael Collier  
 Address: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 City: \_\_\_\_\_  
 Phone #: \_\_\_\_\_ Fax #: \_\_\_\_\_  
 Project #: \_\_\_\_\_ Project Owner: Cimarex  
 Project Name: Mascadero Ridge 21 Fed #001 (MR)  
 Project Location: Eddy  
 Sampler Name: R Bell  
 P.O. #: \_\_\_\_\_  
 Company: Cimarex  
 Attn: Lael Lullig  
 Address: \_\_\_\_\_  
 City: \_\_\_\_\_  
 State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Phone #: \_\_\_\_\_  
 Fax #: \_\_\_\_\_

Lab I.D.	FOR USE ONLY	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	BTX	TPH	Chlorides
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
H231202			1			X				7/25/23				
11	S-4	3'									X	X	X	
12	S-4	4'									X	X	X	
13	S-5	0-1'									X	X	X	
14	S-5	2'									X	X	X	
15	S-5	3'									X	X	X	
16	S-5	4'									X	X	X	
17	S-6	0-1'									X	X	X	
18	S-6	2'									X	X	X	
19	S-6	3'									X	X	X	
20	S-6	4'									X	X	X	

REMARKS: 3 Day pg 2 of 3

Delivered By: (Circle One)  UPS - Bus - Other: \_\_\_\_\_  
 Observed Temp. °C: 1.0 Corrected Temp. °C: \_\_\_\_\_  
 Sample Condition:  Cool  Iced  Pres  No  No

Retainquished By: \_\_\_\_\_ Date: 7/15/23 Received By: \_\_\_\_\_  
 Reinspected By: \_\_\_\_\_ Date: \_\_\_\_\_

Thermometer ID #113 Correction Factor -0.9°C

Verbal Results:  Yes  No Add'l Phone #: \_\_\_\_\_  
 All Results are emailed. Please provide Email address: \_\_\_\_\_

FORM-006 R 2.2 10/07/21

† Cardinal cannot accept verbal changes. Please email changes to cdeley.keene@cardinalhsnm.com



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: H&R Enterprises  
 Project Manager: Michael Collier  
 Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Phone #: \_\_\_\_\_ Fax #: \_\_\_\_\_  
 Project #: \_\_\_\_\_ Project Owner: Cimarex  
 Project Name: Mesalero Ridge 21 Fed #001 (MR)  
 Project Location: Eddy  
 Sampler Name: R Bell  
 Lab I.D. \_\_\_\_\_  
 P.O. #: \_\_\_\_\_ Company: Cimarex  
 Attn: Lael Luig  
 Address: \_\_\_\_\_ City: \_\_\_\_\_  
 State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Phone #: \_\_\_\_\_ Fax #: \_\_\_\_\_

Lab I.D.	Date	Time	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	BTEX	TPH	Chlorides						
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER : ACID/BASE: ICE / COOL OTHER :						PRESERV.	SAMPLING				
H231202	21	H-1	0-1'	C	1																
	22	H-2																			
	23	H-3																			
	24	H-4																			
*	25	S-3	2'																		
*	26	S-3	3'																		
*	27	S-3	4'																		
*	28	S-4	0-1'																		

PLEASE NOTE: Quality and Compliance Control and safety measures should be taken to ensure that the samples are representative of the site. All claims including those for negligence and any other claims whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the analysis service. In no event shall Cardinal be liable for consequential or special damages, including without limitation, business interruptions, loss of use, or loss of profit incurred by client. The subcontractor, vendor or subcontractor is not responsible for the performance of services rendered by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: \_\_\_\_\_  
 Received By: \_\_\_\_\_  
 Date: 3-16-23  
 Time: 1:56  
 Observed Temp. °C: 1.8  
 Corrected Temp. °C: 1.8  
 Sample Condition:  Cool  Hot  
 Checked By: (Initials) V.P.  
 Remarks: 3 Day  
 Verbal Result:  Yes  No  
 Add'l Phone #: \_\_\_\_\_  
 Thermometer ID #113  
 Correction Factor -0.5°C  
 Corrected Temp. °C: \_\_\_\_\_

FORM-009 R 3.2 10/07/21

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

70-316/23  
pg 3 of 3  
\* Customer requested US to add the samples to the end of the

**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 223402

**CONDITIONS**

Operator: CIMAREX ENERGY CO. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 223402
	Action Type: [C-141] Release Corrective Action (C-141)

**CONDITIONS**

Created By	Condition	Condition Date
scott.rodgers	Remediation has met 19.15.29 NMAC requirements. Soil impacts exceeding the reclamation standards have been left in place and are required to meet 19.15.29.13D (1) NMAC once the site is no longer reasonably needed for production or subsequent drilling operations.	1/9/2024