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## Site Assessment, Remediation, and Closure Report

Federal 13 Com #002  
Incident# nAB1719137473  
Eddy County, New Mexico

### Prepared For:

Cimarex Energy Co. of Colorado  
6001 Deauville Blvd. Suite 300N  
Midland, TX 79706

### Prepared By:

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

**March 20, 2024**

Mr. Mike Bratcher  
**NMOCD**  
1220 S. St. Francis Dr.  
Santa Fe, NM 87505

Subject: **Site Assessment, Remediation and Closure Report**  
Federal 13 Com #002  
Eddy 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 remediation activities are contained herein.

### Site Information

The Federal 13 Com #002 is located approximately 18.1 miles South of Hobbs, New Mexico. The legal location for this release is Unit Letter K, Section 13, Township 25 South and Range 26 East in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.1269608 North and -104.2504272 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 Reeves-Gypsum land complex, 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 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 44-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** **44 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 is an assessment in a high karst as well as being in an area with a depth to groundwater of less than 50-feet BGS, the closure criteria for this site is 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**
≤ 50 feet	Chloride **	EPA 300.0 or SM4500 CIB	600 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	100 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 June 28, 2017, A check valve on a 4-inch poly water transfer line was leaking which caused the line to overpressure and rupture.

### Site Assessment and Remediation Activities

H&R mobilized personnel to begin site assessment, sampling, and reclamation activities of the location. Grab samples were obtained by way of air rotary drill, transported to Cardinal Laboratory for analysis and the results of that analysis are presented in Table 1 below. Initial site assessment sampling locations are illustrated on Site Assessment Map, [Appendix I](#). Photographic documentation of the location is attached in [Appendix IV](#). Complete laboratory reports can be found in [Appendix V](#).

Table 1: Initial Soil Samples Analysis Results

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	100 mg/kg			100 mg/kg	600 mg/kg
BH-1	8/7/2023	0-1'	ND	ND	ND	ND	ND	0	112
		2'	ND	ND	ND	ND	ND	0	448
		3'	ND	ND	ND	ND	47.5	47.5	448
		4'	ND	ND	ND	ND	15.9	15.9	416
		5'	ND	ND	ND	ND	ND	0	48
BH-2	8/7/2023	0-1'	ND	ND	ND	ND	ND	0	320
		2'	ND	ND	ND	ND	ND	0	384
		3'	ND	ND	ND	ND	ND	0	496
		4'	ND	ND	ND	ND	ND	0	496
		5'	ND	ND	ND	ND	ND	0	48
BH-3	8/7/2023	0-1'	ND	ND	ND	ND	ND	0	688
		2'	ND	ND	ND	ND	ND	0	560
		3'	ND	ND	ND	ND	ND	0	528
		4'	ND	ND	ND	ND	ND	0	496
		5'	ND	ND	ND	ND	ND	0	48
BH-4	8/7/2023	0-1'	ND	ND	ND	ND	ND	0	416
		2'	ND	ND	ND	ND	ND	0	704
		3'	ND	ND	ND	ND	ND	0	592
		4'	ND	ND	ND	ND	ND	0	416
		5'	ND	ND	ND	ND	ND	0	400
BH-5	8/7/2023	0-1'	ND	ND	ND	ND	ND	0	160
		2'	ND	ND	ND	ND	ND	0	320
		3'	ND	ND	ND	ND	ND	0	144
		4'	ND	ND	ND	ND	ND	0	192
		5'	ND	ND	ND	ND	ND	0	224
BH-6	8/7/2023	0-1'	ND	ND	ND	ND	ND	0	352
		2'	ND	ND	ND	ND	ND	0	1650
		3'	ND	ND	ND	ND	ND	0	2480
		4'	ND	ND	ND	ND	ND	0	256
		5'	ND	ND	ND	ND	ND	0	368

ND = Analyte Not Detected BH = Borehole Sample

Table 1: Initial Soil Samples Analysis Results

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	100 mg/kg			100 mg/kg	600 mg/kg
BH-7	8/7/2023	0-1'	ND	ND	ND	ND	ND	0	336
		2'	ND	ND	ND	ND	ND	0	256
		3'	ND	ND	ND	ND	ND	0	288
		4'	ND	ND	ND	ND	ND	0	288
		5'	ND	ND	ND	ND	ND	0	288
BH-8	8/7/2023	0-1'	ND	ND	ND	ND	ND	0	352
		2'	ND	ND	ND	ND	ND	0	352
		3'	ND	ND	ND	ND	ND	0	416
		4'	ND	ND	ND	ND	ND	0	448
		5'	ND	ND	ND	ND	ND	0	368
BH-9	8/7/2023	0-1'	ND	ND	ND	ND	ND	0	496
		2'	ND	ND	ND	ND	ND	0	848
		3'	ND	ND	ND	ND	ND	0	848
		4'	ND	ND	ND	ND	ND	0	272
		5'	ND	ND	ND	ND	ND	0	48
H-1	8/7/2023	0-1'	ND	ND	ND	ND	ND	0	80
H-2	8/7/2023	0-1'	ND	ND	ND	ND	ND	0	48
H-3	8/7/2023	0-1'	ND	ND	ND	ND	ND	0	64
H-4	8/7/2023	0-1'	ND	ND	ND	ND	ND	0	64

ND = Analyte Not Detected BH = Borehole Sample H = Horizontal Sample

Based on the results of our site assessment, remediation activities began. Once remedial activities were completed, composite confirmation samples were collected every 200-square foot from the bottom and sidewalls of the excavated areas and transported to Cardinal Laboratory for analysis. The results of that analysis are presented in the Table 2 below. Confirmation sample locations and excavation dimensions can be found on the Confirmation Sample Map in [Appendix I](#). Complete laboratory results can be found in [Appendix V](#).

Table 2: Confirmation Soil Sample Analysis Results

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	100 mg/kg			100 mg/kg	600 mg/kg
S-1	3/4/2024	4'	ND	ND	ND	ND	ND	0	224
S-2	3/4/2024	2'	ND	ND	ND	ND	ND	0	240
S-3	3/4/2024	2'	ND	ND	ND	ND	ND	0	208
S-4	3/4/2024	2'	ND	ND	ND	ND	ND	0	176
S-5	3/4/2024	3'	ND	ND	ND	ND	ND	0	192
S-6	3/4/2024	3'	ND	ND	ND	ND	ND	0	224
S-7	3/4/2024	3'	ND	ND	ND	ND	ND	0	192
S-8	3/4/2024	3'	ND	ND	ND	ND	ND	0	224
S-9	3/4/2024	4'	ND	ND	ND	ND	ND	0	224
S-10	3/4/2024	4'	ND	ND	ND	ND	ND	0	224
SW-1	3/4/2024	4'	ND	ND	ND	ND	ND	0	80
SW-2	3/4/2024	4'	ND	ND	ND	ND	ND	0	64
SW-3	3/4/2024	4'	ND	ND	ND	ND	ND	0	64
SW-4	3/4/2024	4'	ND	ND	ND	ND	ND	0	64
SW-5	3/4/2024	2'	ND	ND	ND	ND	ND	0	208
SW-6	3/4/2024	2'	ND	ND	ND	ND	ND	0	208
SW-7	3/4/2024	2'	ND	ND	ND	ND	ND	0	208
SW-8	3/4/2024	3'	ND	ND	ND	ND	ND	0	128
SW-9	3/4/2024	3'	ND	ND	ND	ND	ND	0	96
SW-10	3/4/2024	3'	ND	ND	ND	ND	ND	0	160
SW-11	3/4/2024	3'	ND	ND	ND	ND	ND	0	160
SW-12	3/4/2024	4'	ND	ND	ND	ND	ND	0	128
SW-13	3/4/2024	4'	ND	ND	ND	ND	ND	0	112
SW-14	3/4/2024	4'	ND	ND	ND	ND	ND	0	112
SW-15	3/4/2024	4'	ND	ND	ND	ND	ND	0	96

ND = Analyte Not Detected S = Bottom Composite Sample SW = Sidewall Composite Sample

### Remediation Activities

- The impacted area near BH-3 was excavated to a total depth of 2-feet BGS.
- The impacted area near BH-4 was excavated to a total depth of 3-feet BGS.
- The impacted areas near BH-6 and BH-9 were excavated to a total depth of 4-feet BGS.
- Composite confirmation samples were collected every 200-square foot from the bottom and the sidewalls of each excavated area.
- All excavated material (approximately 177 cu.yds.) was hauled to Lea Land, an NMOCD approved solid waste disposal facility.
- All excavated areas were backfilled with clean topsoil and machine compacted.

### Reclamation Activities

- This site was re-ripped and contoured to match the surrounding area due to a previous historical release being remediated.
- This site was re-ripped and contoured to match the surrounding area due to a previous historical release being remediated.
- This site will be seeded with a certified BLM #1 seed mixture during the monsoon season to ensure proper seed germination and vegetation growth.
- This site will be inspected bi-annually for proper vegetation growth and any noxious/invasive plant growth. Reseeding will take place as necessary as well as any noxious/invasive plant growth removed, and proper steps taken to prevent any future growth.

## Closure

Based on the site assessment, remediation, sampling results and reclamation activities 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*

Michael Collier  
Environmental Project Manager

### Attachments:

- Appendix I Site Maps
- Appendix II Soil Survey, Groundwater Data, FEMA Flood Zone
- Appendix III NMOCD Correspondence
- Appendix IV Photographic Documentation
- Appendix V Laboratory Reports

# APPENDIX I

## SITE MAPS

## KARST MAP

## TOPOGRAPHIC MAP

## LOCATOR MAP

# Federal 13 Com #002

Cimarex Energy Co. of Colorado  
Incident# nAB1719137473  
Eddy County, NM  
Site Assessment Map

**Legend**

- Horizontal Sample Point
- ▣ Vertical Bore Hole Sample Point



# Federal 13 Com #002

Cimarex Energy Co. of Colorado  
Incident# nAB1719137473  
Eddy County, NM  
Confirmation Sample Map

## Legend

-  2ft. Excavation
-  3ft. Excavation
-  4ft. Excavation
-  Composite Confirmation Sample



Google Earth



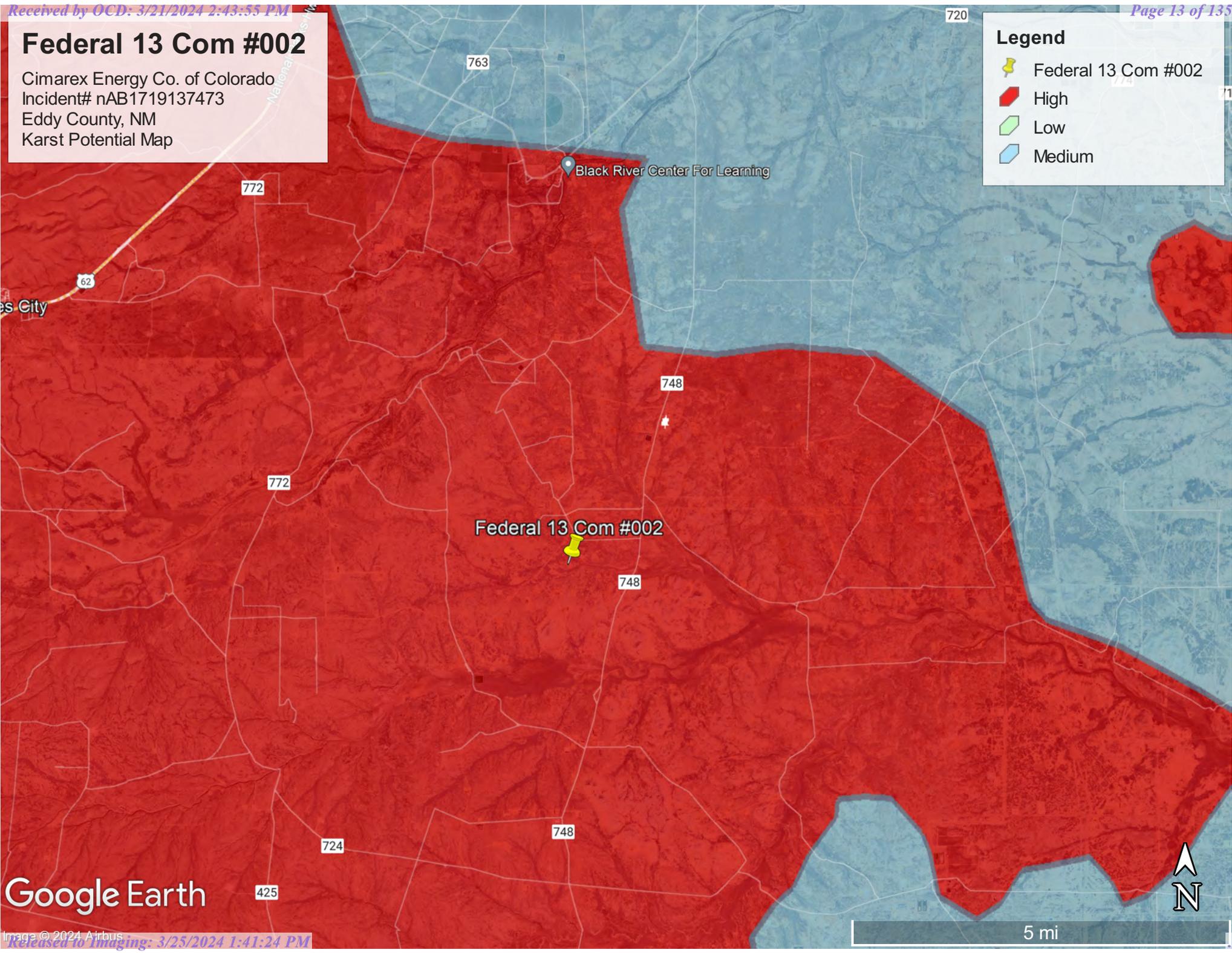
70 ft

# Federal 13 Com #002

Cimarex Energy Co. of Colorado  
Incident# nAB1719137473  
Eddy County, NM  
Karst Potential Map

**Legend**

-  Federal 13 Com #002
-  High
-  Low
-  Medium



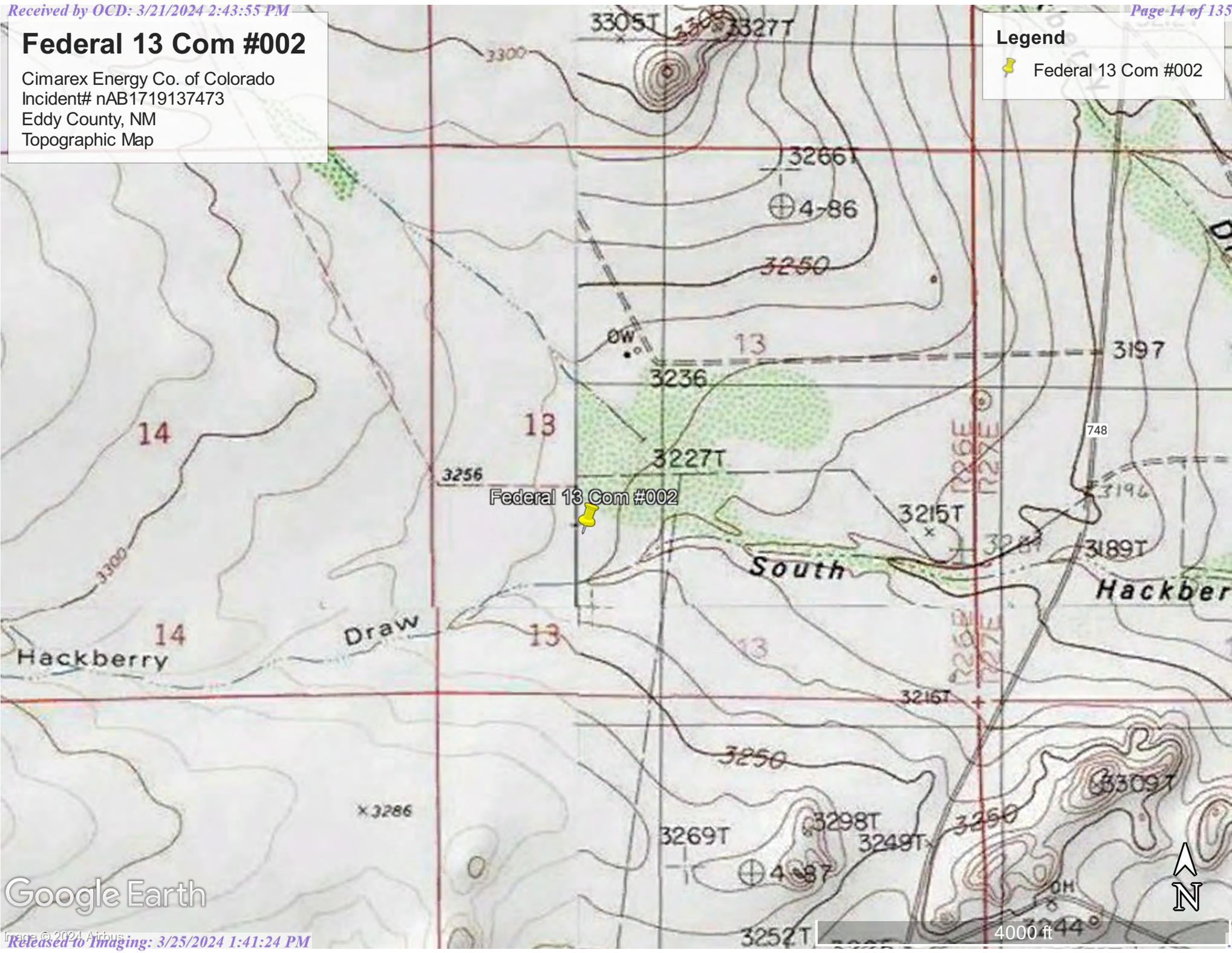
Google Earth

# Federal 13 Com #002

Cimarex Energy Co. of Colorado  
Incident# nAB1719137473  
Eddy County, NM  
Topographic Map

**Legend**

-  Federal 13 Com #002



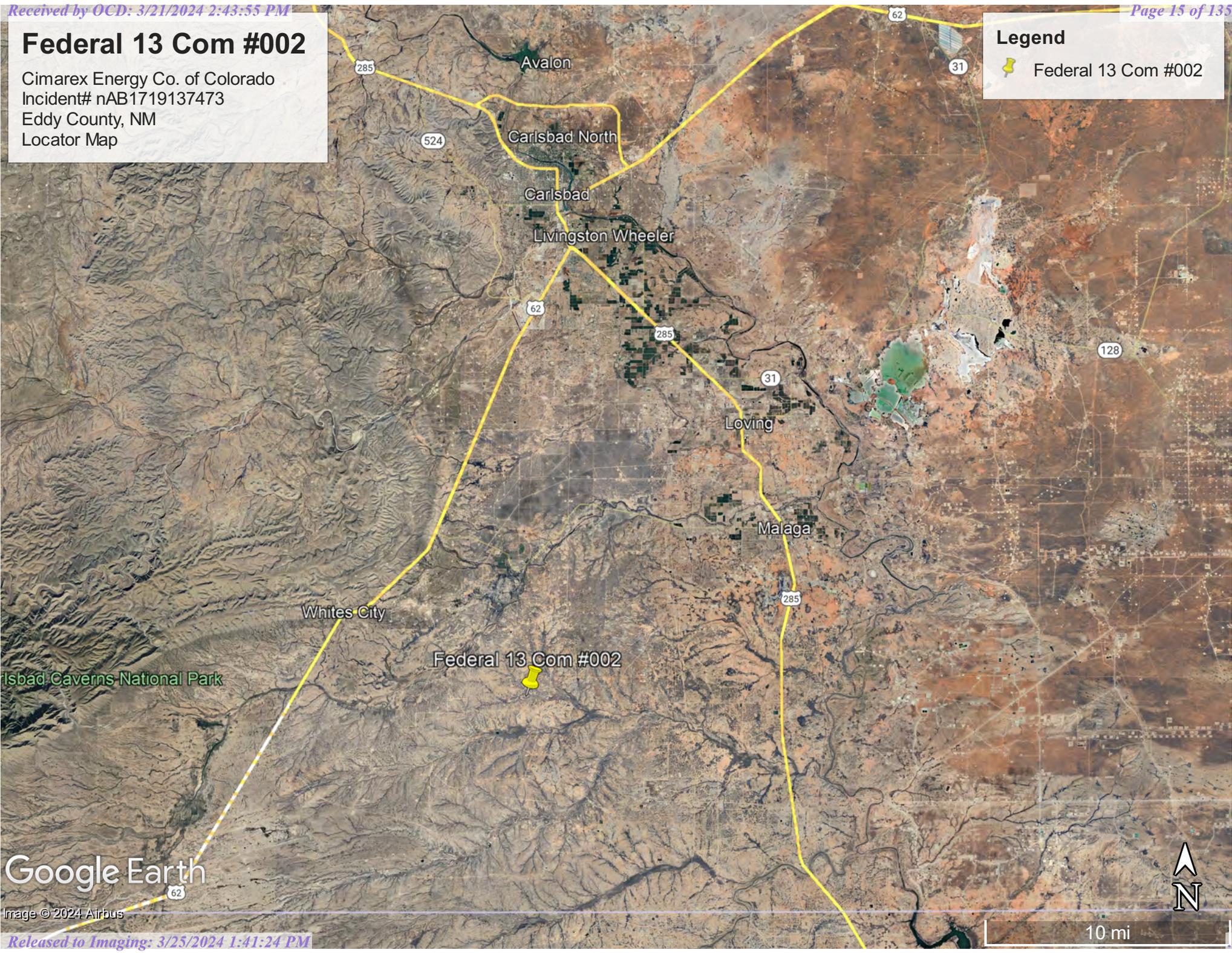
Google Earth

# Federal 13 Com #002

Cimarex Energy Co. of Colorado  
Incident# nAB1719137473  
Eddy County, NM  
Locator Map

**Legend**

-  Federal 13 Com #002



Google Earth

Image © 2024 Airbus



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	
<a href="#">C_03654 POD1</a>		CUB	ED	2	3	1	24	25S	26E	570654	3553773	<input type="checkbox"/>	1001			
<a href="#">C_03569 POD1</a>		CUB	ED	2	1	1	14	25S	26E	568862	3555746	<input type="checkbox"/>	2110	30	0 30	
<a href="#">C_02220</a>		CUB	ED	3	1	2	26	25S	26E	569598	3552352*	<input type="checkbox"/>	2672	35		
<a href="#">C_03655 POD3</a>		CUB	ED	1	4	4	22	25S	26E	568458	3553019	<input type="checkbox"/>	2871			
<a href="#">C_02221</a>		CUB	ED	4	3	2	25	25S	26E	571412	3551961*	<input type="checkbox"/>	2890	35		
<a href="#">C_04329 POD1</a>		C	ED	2	2	2	27	25S	26E	568577	3552567	<input type="checkbox"/>	3083	57	14 43	
<a href="#">C_03261 POD1</a>		CUB	ED	3	2	1	20	25S	27E	574007	3554006*	<input type="checkbox"/>	3362	351		
<a href="#">C_01013</a>		C	ED				4	25	25S	26E	571505	3551456*	<input type="checkbox"/>	3403	245	
<a href="#">C_01368</a>		C	ED				1	1	22	25S	26E	567261	3554059*	<input type="checkbox"/>	3544	143 118 25
<a href="#">C_01089</a>		C	ED	3	4	1	03	25S	26E	567505	3558398*	<input type="checkbox"/>	4855	96	45 51	

Average Depth to Water: **44 feet**  
 Minimum Depth: **0 feet**  
 Maximum Depth: **118 feet**

**Record Count:** 10

**Basin/County Search:**

**County:** Eddy

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

**Easting (X):** 570733

**Northing (Y):** 3554771

**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.

8/18/23 12:12 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

Map Unit Description: Reeves-Gypsum land complex, 0 to 3 percent slopes---Eddy Area, New Mexico

## Eddy Area, New Mexico

### RG—Reeves-Gypsum land complex, 0 to 3 percent slopes

#### Map Unit Setting

*National map unit symbol:* 1w5f  
*Elevation:* 1,250 to 5,000 feet  
*Mean annual precipitation:* 10 to 25 inches  
*Mean annual air temperature:* 57 to 70 degrees F  
*Frost-free period:* 190 to 235 days  
*Farmland classification:* Not prime farmland

#### Map Unit Composition

*Reeves and similar soils:* 55 percent  
*Gypsum land:* 30 percent  
*Minor components:* 15 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Reeves

##### Setting

*Landform:* Ridges, plains, hills  
*Landform position (two-dimensional):* Shoulder, backslope, footslope, toeslope  
*Landform position (three-dimensional):* Side slope, head slope, nose slope, crest  
*Down-slope shape:* Convex  
*Across-slope shape:* Linear  
*Parent material:* Residuum weathered from gypsum

##### Typical profile

*H1 - 0 to 8 inches:* loam  
*H2 - 8 to 32 inches:* clay loam  
*H3 - 32 to 60 inches:* gypsiferous material

##### Properties and qualities

*Slope:* 0 to 1 percent  
*Depth to restrictive feature:* More than 80 inches  
*Drainage class:* Well drained  
*Runoff class:* High  
*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:* 25 percent  
*Gypsum, maximum content:* 80 percent  
*Maximum salinity:* Very slightly saline to moderately saline (2.0 to 8.0 mmhos/cm)  
*Sodium adsorption ratio, maximum:* 4.0  
*Available water supply, 0 to 60 inches:* Low (about 4.3 inches)

Map Unit Description: Reeves-Gypsum land complex, 0 to 3 percent slopes---Eddy Area, New Mexico

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### Interpretive groups

*Land capability classification (irrigated):* 3s  
*Land capability classification (nonirrigated):* 7s  
*Hydrologic Soil Group:* B  
*Ecological site:* R070BC007NM - Loamy  
*Hydric soil rating:* No

### Description of Gypsum Land

#### Setting

*Landform:* Ridges, plains, hills  
*Landform position (two-dimensional):* Shoulder, backslope, footslope, toeslope  
*Landform position (three-dimensional):* Side slope, head slope, nose slope, crest  
*Down-slope shape:* Convex  
*Across-slope shape:* Linear  
*Parent material:* Residuum weathered from gypsum

### Interpretive groups

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 8s  
*Hydric soil rating:* No

### Minor Components

#### Largo

*Percent of map unit:* 5 percent  
*Ecological site:* R070BC007NM - Loamy  
*Hydric soil rating:* No

#### Reagan

*Percent of map unit:* 5 percent  
*Ecological site:* R070BC007NM - Loamy  
*Hydric soil rating:* No

#### Cottonwood

*Percent of map unit:* 5 percent  
*Ecological site:* R070BC033NM - Salty Bottomland  
*Hydric soil rating:* No

## Data Source Information

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

# National Flood Hazard Layer FIRMette



104°15'49"W 32°7'52"N



## Legend

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

- SPECIAL FLOOD HAZARD AREAS**
  - Without Base Flood Elevation (BFE) Zone A, V, A99
  - With BFE or Depth Zone AE, AO, AH, VE, AR
  - Regulatory Floodway
  
- OTHER AREAS OF FLOOD HAZARD**
  - 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
  - Future Conditions 1% Annual Chance Flood Hazard Zone X
  - Area with Reduced Flood Risk due to Levee. See Notes. Zone X
  - Area with Flood Risk due to Levee Zone D
  
- 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**
  - Cross Sections with 1% Annual Chance Water Surface Elevation 20.2
  - Cross Sections with 1% Annual Chance Water Surface Elevation 17.5
  - Coastal Transect
  - Base Flood Elevation Line (BFE)
  - Limit of Study
  - Jurisdiction Boundary
  - Coastal Transect Baseline
  - Profile Baseline
  - Hydrographic Feature
  
- 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 3/20/2024 at 5:09 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.



1:6,000

104°15'12"W 32°7'22"N

# APPENDIX III

## NMOCD CORRESPONDENCE

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

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

ARTESIA DISTRICT  
Form C-141  
Revised August 8, 2011  
JUL 05 2017  
Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

**RECEIVED**

**Release Notification and Corrective Action**

**NAB1749137473**      **OPERATOR**       Initial Report       Final Report

Name of Company <b>Cimarex Energy</b> <b>162683</b>	Contact <b>Christine Alderman</b>
Address <b>600 N Marienfeld Ste 600 Midland TX</b>	Telephone No. <b>432-853-7059</b>
Facility Name <b>Federal 13 Com 2</b>	Facility Type <b>Production</b>

Surface Owner <b>Federal</b>	Mineral Owner	API No. <b>30-015-33344</b>
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**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
K	13	25S	26E	1565	s	1400	W	Eddy

Latitude 32.1269608 Longitude -104.2504272

**NATURE OF RELEASE**

Type of Release <b>Produced Water</b>	Volume of Release <b>20 bbls</b>	Volume Recovered <b>0 bbls</b>
Source of Release <b>4" poly flowline</b>	Date and Hour of Occurrence <b>6/28/2017</b>	Date and Hour of Discovery <b>6/28/2017</b>
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? <b>Mike Bratcher/Henryetta Price</b>	
By Whom? <b>Christine Alderman</b>	Date and Hour <b>7/5/2017</b>	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\*  
A check valve on a 4" poly water transfer line was leaking which caused the line to overpressure and caused a rupture.

Describe Area Affected and Cleanup Action Taken.\*  
All fluids stayed on location pad. Samples will be collected and a scope of work will be developed.

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

Signature: <i>Christine Alderman</i>	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: <b>Christine Alderman</b>	Approved by Environmental Specialist: <i>Christine Alderman</i>	
Title: <b>ESH Supervisor</b>	Approval Date: <b>7/10/17</b>	Expiration Date: <b>N/A</b>
E-mail Address: <b>calderman@cimarex.com</b>	Conditions of Approval: <b>see attached</b>	Attached <input checked="" type="checkbox"/>
Date: <b>7/5/2017</b> Phone: <b>432-853-7059</b>		

\* Attach Additional Sheets If Necessary

**2RP-4287**

Operator/Responsible Party,

The OCD has received the form C-141 you provided on **7/5/17** regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number ARP-4887 has been assigned. **Please refer to this case number in all future correspondence.**

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

*The responsible person shall complete division-approved corrective action for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]*

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. **As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District II office in Artesia on or before 8/5/17. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.**

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C<sub>6</sub> thru C<sub>36</sub>), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.
- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C<sub>6</sub> thru C<sub>36</sub>), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.
- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.
- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

- Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

**Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.**

**Jim Griswold**

OCD Environmental Bureau Chief  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505  
505-476-3465  
jim.griswold@state.nm.us

**Weaver, Crystal, EMNRD**

---

**From:** Christine Alderman <calderman@cimarex.com>  
**Sent:** Wednesday, July 5, 2017 9:06 AM  
**To:** Bratcher, Mike, EMNRD; Price, Henryetta; Weaver, Crystal, EMNRD; stucker@blm.gov  
**Subject:** Federal 13 Com 2 (API 30-015-33344)  
**Attachments:** 20170705095210470.pdf

All,

We had a produced water release at the above named location. A 4" SWD line over pressured and ruptured due to a leaking check valve.

Please let me know if you have any questions.

Thank you,

Christine Alderman

Cimarex Energy Co.

ESH Supervisor - Permian Basin  
Midland TX  
Cell - 432.853.7059

-----Original Message-----

**From:** MidlandScanner@cimarex.com [mailto:MidlandScanner@cimarex.com]  
**Sent:** Wednesday, July 05, 2017 9:52 AM  
**To:** Christine Alderman <calderman@cimarex.com>  
**Subject:** Message from "RNP0026732E6735"

This E-mail was sent from "RNP0026732E6735" (Aficio MP C5501).

Scan Date: 07.05.2017 09:52:10 (-0500)  
Queries to: MidlandScanner@cimarex.com

**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**

QUESTIONS

Action 318928

**QUESTIONS**

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd, Ste 300N Midland, TX 79706	OGRID: 162683
	Action Number: 318928
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAB1719137473
Incident Name	NAB1719137473 2017 MINOR A SWS @ 30-015-33344
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-33344] FEDERAL 13 COM #002

<b>Location of Release Source</b>	
Site Name	Unavailable.
Date Release Discovered	06/28/2017
Surface Owner	Federal

<b>Sampling Event General Information</b>	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	1,200
What is the estimated number of samples that will be gathered	10
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/04/2024
Time sampling will commence	10:00 AM
Please provide any information necessary for observers to contact samplers	Michael Collier - H&R Enterprises 575-909-0326
Please provide any information necessary for navigation to sampling site	32.1269608,-104.2504272

**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 318928

**CONDITIONS**

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd, Ste 300N Midland, TX 79706	OGRID: 162683
	Action Number: 318928
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

**CONDITIONS**

Created By	Condition	Condition Date
lluig	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	2/29/2024

# APPENDIX IV

# PHOTOGRAPHIC DOCUMENTATION

PHOTOGRAPHIC DOCUMENTATION

SITE ASSESSMENT PHOTOGRAPHS



**BH-1**



**BH-2**

PHOTOGRAPHIC DOCUMENTATION



BH-3



BH-4

PHOTOGRAPHIC DOCUMENTATION



BH-5



BH-6

PHOTOGRAPHIC DOCUMENTATION



**BH-7**



**BH-8**

PHOTOGRAPHIC DOCUMENTATION



**BH-9**

**EXCAVATION PHOTOGRAPHS**



**4FT. EXCAVATION @ S-1**

PHOTOGRAPHIC DOCUMENTATION

Carlsbad, NM 88220, USA

☉ 197° S (T) • 32.127098, -104.250223 ±3 m ▲ 967m



Federal 13 Com #002

2-4FT. EXCAVATION

Carlsbad, NM 88220, USA

☉ 316° NW (T) • 32.126854, -104.250186 ±3 m ▲ 967m



Federal 13 Com #002

2-4FT. EXCAVATION

PHOTOGRAPHIC DOCUMENTATION

FINAL PHOTOGRAPHS



PHOTOGRAPHIC DOCUMENTATION



PHOTOGRAPHIC DOCUMENTATION



PHOTOGRAPHIC DOCUMENTATION



PHOTOGRAPHIC DOCUMENTATION



# APPENDIX V

## LABORATORY REPORTS



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

---

August 14, 2023

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

RE: FEDERAL 13 COM #002 (FED 13 2017)

Enclosed are the results of analyses for samples received by the laboratory on 08/08/23 13:35.

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.

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:	08/08/2023	Sampling Date:	08/07/2023
Reported:	08/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 13 COM #002 (FED 13 2017)	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shari Cisneros
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: BH - 1 0-1' (H234239-01)**

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	08/11/2023	ND	1.99	99.5	2.00	1.92	
Toluene*	<0.050	0.050	08/11/2023	ND	1.92	95.8	2.00	0.114	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	1.91	95.7	2.00	0.876	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	5.61	93.5	6.00	0.586	
Total BTEX	<0.300	0.300	08/11/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	08/09/2023	ND	400	100	400	7.69	

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	08/09/2023	ND	169	84.4	200	1.73	
DRO >C10-C28*	<10.0	10.0	08/09/2023	ND	156	78.1	200	0.0628	
EXT DRO >C28-C36	<10.0	10.0	08/09/2023	ND					

Surrogate: 1-Chlorooctane 94.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 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:	08/08/2023	Sampling Date:	08/07/2023
Reported:	08/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 13 COM #002 (FED 13 2017)	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shari Cisneros
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: BH - 1 2' (H234239-02)**

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	08/11/2023	ND	1.99	99.5	2.00	1.92	
Toluene*	<0.050	0.050	08/11/2023	ND	1.92	95.8	2.00	0.114	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	1.91	95.7	2.00	0.876	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	5.61	93.5	6.00	0.586	
Total BTEX	<0.300	0.300	08/11/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	08/09/2023	ND	400	100	400	7.69	

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	08/09/2023	ND	169	84.4	200	1.73	
DRO >C10-C28*	<10.0	10.0	08/09/2023	ND	156	78.1	200	0.0628	
EXT DRO >C28-C36	<10.0	10.0	08/09/2023	ND					

Surrogate: 1-Chlorooctane 98.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 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:	08/08/2023	Sampling Date:	08/07/2023
Reported:	08/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 13 COM #002 (FED 13 2017)	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shari Cisneros
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: BH - 1 3' (H234239-03)**

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	08/11/2023	ND	1.99	99.5	2.00	1.92	
Toluene*	<0.050	0.050	08/11/2023	ND	1.92	95.8	2.00	0.114	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	1.91	95.7	2.00	0.876	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	5.61	93.5	6.00	0.586	
Total BTEX	<0.300	0.300	08/11/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	08/09/2023	ND	400	100	400	7.69	

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	08/09/2023	ND	169	84.4	200	1.73	
DRO >C10-C28*	<10.0	10.0	08/09/2023	ND	156	78.1	200	0.0628	
EXT DRO >C28-C36	47.5	10.0	08/09/2023	ND					

Surrogate: 1-Chlorooctane 95.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 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:	08/08/2023	Sampling Date:	08/07/2023
Reported:	08/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 13 COM #002 (FED 13 2017)	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shari Cisneros
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: BH - 1 4' (H234239-04)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2023	ND	2.11	105	2.00	5.93	
Toluene*	<0.050	0.050	08/11/2023	ND	2.00	100	2.00	4.54	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	2.04	102	2.00	6.02	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	6.09	101	6.00	5.67	
Total BTEX	<0.300	0.300	08/11/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>416</b>	16.0	08/09/2023	ND	400	100	400	7.69	

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	08/09/2023	ND	169	84.4	200	1.73	
DRO >C10-C28*	<10.0	10.0	08/09/2023	ND	156	78.1	200	0.0628	
<b>EXT DRO &gt;C28-C36</b>	<b>15.9</b>	10.0	08/09/2023	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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:	08/08/2023	Sampling Date:	08/07/2023
Reported:	08/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 13 COM #002 (FED 13 2017)	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shari Cisneros
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: BH - 1 5' (H234239-05)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2023	ND	2.11	105	2.00	5.93	
Toluene*	<0.050	0.050	08/11/2023	ND	2.00	100	2.00	4.54	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	2.04	102	2.00	6.02	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	6.09	101	6.00	5.67	
Total BTEX	<0.300	0.300	08/11/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/09/2023	ND	400	100	400	7.69	

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	08/09/2023	ND	169	84.4	200	1.73	
DRO >C10-C28*	<10.0	10.0	08/09/2023	ND	156	78.1	200	0.0628	
EXT DRO >C28-C36	<10.0	10.0	08/09/2023	ND					

Surrogate: 1-Chlorooctane 98.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 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:	08/08/2023	Sampling Date:	08/07/2023
Reported:	08/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 13 COM #002 (FED 13 2017)	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shari Cisneros
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: BH - 2 0-1' (H234239-06)**

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	08/11/2023	ND	2.11	105	2.00	5.93	
Toluene*	<0.050	0.050	08/11/2023	ND	2.00	100	2.00	4.54	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	2.04	102	2.00	6.02	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	6.09	101	6.00	5.67	
Total BTEX	<0.300	0.300	08/11/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	08/09/2023	ND	400	100	400	7.69	

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	08/09/2023	ND	169	84.4	200	1.73	
DRO >C10-C28*	<10.0	10.0	08/09/2023	ND	156	78.1	200	0.0628	
EXT DRO >C28-C36	<10.0	10.0	08/09/2023	ND					

Surrogate: 1-Chlorooctane 98.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 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:	08/08/2023	Sampling Date:	08/07/2023
Reported:	08/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 13 COM #002 (FED 13 2017)	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shari Cisneros
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: BH - 2 2' (H234239-07)**

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	08/11/2023	ND	2.11	105	2.00	5.93	
Toluene*	<0.050	0.050	08/11/2023	ND	2.00	100	2.00	4.54	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	2.04	102	2.00	6.02	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	6.09	101	6.00	5.67	
Total BTEX	<0.300	0.300	08/11/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	08/09/2023	ND	400	100	400	7.69	

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	08/10/2023	ND	169	84.4	200	1.73	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	156	78.1	200	0.0628	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					

Surrogate: 1-Chlorooctane 99.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 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:	08/08/2023	Sampling Date:	08/07/2023
Reported:	08/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 13 COM #002 (FED 13 2017)	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shari Cisneros
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: BH - 2 3' (H234239-08)**

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	08/11/2023	ND	2.11	105	2.00	5.93	
Toluene*	<0.050	0.050	08/11/2023	ND	2.00	100	2.00	4.54	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	2.04	102	2.00	6.02	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	6.09	101	6.00	5.67	
Total BTEX	<0.300	0.300	08/11/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	08/09/2023	ND	400	100	400	7.69	

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	08/10/2023	ND	169	84.4	200	1.73	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	156	78.1	200	0.0628	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 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:	08/08/2023	Sampling Date:	08/07/2023
Reported:	08/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 13 COM #002 (FED 13 2017)	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shari Cisneros
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: BH - 2 4' (H234239-09)**

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	08/11/2023	ND	2.11	105	2.00	5.93	
Toluene*	<0.050	0.050	08/11/2023	ND	2.00	100	2.00	4.54	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	2.04	102	2.00	6.02	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	6.09	101	6.00	5.67	
Total BTEX	<0.300	0.300	08/11/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	08/09/2023	ND	400	100	400	7.69	

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	08/10/2023	ND	169	84.4	200	1.73	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	156	78.1	200	0.0628	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					

Surrogate: 1-Chlorooctane 99.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 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:	08/08/2023	Sampling Date:	08/07/2023
Reported:	08/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 13 COM #002 (FED 13 2017)	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shari Cisneros
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: BH - 2 5' (H234239-10)**

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	08/11/2023	ND	2.11	105	2.00	5.93	
Toluene*	<0.050	0.050	08/11/2023	ND	2.00	100	2.00	4.54	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	2.04	102	2.00	6.02	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	6.09	101	6.00	5.67	
Total BTEX	<0.300	0.300	08/11/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/10/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/10/2023	ND	169	84.4	200	1.73	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	156	78.1	200	0.0628	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					

Surrogate: 1-Chlorooctane 95.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 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:	08/08/2023	Sampling Date:	08/07/2023
Reported:	08/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 13 COM #002 (FED 13 2017)	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shari Cisneros
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: BH - 3 0-1' (H234239-11)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2023	ND	2.11	105	2.00	5.93	
Toluene*	<0.050	0.050	08/11/2023	ND	2.00	100	2.00	4.54	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	2.04	102	2.00	6.02	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	6.09	101	6.00	5.67	
Total BTEX	<0.300	0.300	08/11/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	08/10/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/10/2023	ND	169	84.4	200	1.73	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	156	78.1	200	0.0628	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					

Surrogate: 1-Chlorooctane 94.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 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:	08/08/2023	Sampling Date:	08/07/2023
Reported:	08/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 13 COM #002 (FED 13 2017)	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shari Cisneros
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: BH - 3 2' (H234239-12)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2023	ND	2.11	105	2.00	5.93	
Toluene*	<0.050	0.050	08/11/2023	ND	2.00	100	2.00	4.54	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	2.04	102	2.00	6.02	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	6.09	101	6.00	5.67	
Total BTEX	<0.300	0.300	08/11/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	08/10/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/10/2023	ND	169	84.4	200	1.73	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	156	78.1	200	0.0628	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					

Surrogate: 1-Chlorooctane 98.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 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:	08/08/2023	Sampling Date:	08/07/2023
Reported:	08/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 13 COM #002 (FED 13 2017)	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shari Cisneros
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: BH - 3 3' (H234239-13)**

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	08/11/2023	ND	2.11	105	2.00	5.93	
Toluene*	<0.050	0.050	08/11/2023	ND	2.00	100	2.00	4.54	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	2.04	102	2.00	6.02	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	6.09	101	6.00	5.67	
Total BTEX	<0.300	0.300	08/11/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	08/10/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/10/2023	ND	169	84.4	200	1.73	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	156	78.1	200	0.0628	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 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:	08/08/2023	Sampling Date:	08/07/2023
Reported:	08/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 13 COM #002 (FED 13 2017)	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shari Cisneros
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: BH - 3 4' (H234239-14)**

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	08/11/2023	ND	2.11	105	2.00	5.93	
Toluene*	<0.050	0.050	08/11/2023	ND	2.00	100	2.00	4.54	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	2.04	102	2.00	6.02	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	6.09	101	6.00	5.67	
Total BTEX	<0.300	0.300	08/11/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	08/10/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/10/2023	ND	169	84.4	200	1.73	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	156	78.1	200	0.0628	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 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:	08/08/2023	Sampling Date:	08/07/2023
Reported:	08/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 13 COM #002 (FED 13 2017)	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shari Cisneros
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: BH - 3 5' (H234239-15)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2023	ND	2.11	105	2.00	5.93	
Toluene*	<0.050	0.050	08/11/2023	ND	2.00	100	2.00	4.54	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	2.04	102	2.00	6.02	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	6.09	101	6.00	5.67	
Total BTEX	<0.300	0.300	08/11/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/10/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/10/2023	ND	169	84.4	200	1.73	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	156	78.1	200	0.0628	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 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:	08/08/2023	Sampling Date:	08/07/2023
Reported:	08/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 13 COM #002 (FED 13 2017)	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shari Cisneros
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: BH - 4 0-1' (H234239-16)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2023	ND	2.11	105	2.00	5.93	
Toluene*	<0.050	0.050	08/11/2023	ND	2.00	100	2.00	4.54	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	2.04	102	2.00	6.02	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	6.09	101	6.00	5.67	
Total BTEX	<0.300	0.300	08/11/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	08/10/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/10/2023	ND	169	84.4	200	1.73	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	156	78.1	200	0.0628	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 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:	08/08/2023	Sampling Date:	08/07/2023
Reported:	08/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 13 COM #002 (FED 13 2017)	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shari Cisneros
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: BH - 4 2' (H234239-17)**

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	08/11/2023	ND	2.11	105	2.00	5.93	
Toluene*	<0.050	0.050	08/11/2023	ND	2.00	100	2.00	4.54	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	2.04	102	2.00	6.02	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	6.09	101	6.00	5.67	
Total BTEX	<0.300	0.300	08/11/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	08/10/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/10/2023	ND	169	84.4	200	1.73	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	156	78.1	200	0.0628	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 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:	08/08/2023	Sampling Date:	08/07/2023
Reported:	08/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 13 COM #002 (FED 13 2017)	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shari Cisneros
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: BH - 4 3' (H234239-18)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2023	ND	2.11	105	2.00	5.93	
Toluene*	<0.050	0.050	08/11/2023	ND	2.00	100	2.00	4.54	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	2.04	102	2.00	6.02	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	6.09	101	6.00	5.67	
Total BTEX	<0.300	0.300	08/11/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	08/10/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/10/2023	ND	169	84.4	200	1.73	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	156	78.1	200	0.0628	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 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:	08/08/2023	Sampling Date:	08/07/2023
Reported:	08/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 13 COM #002 (FED 13 2017)	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shari Cisneros
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: BH - 4 4' (H234239-19)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2023	ND	2.11	105	2.00	5.93	
Toluene*	<0.050	0.050	08/11/2023	ND	2.00	100	2.00	4.54	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	2.04	102	2.00	6.02	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	6.09	101	6.00	5.67	
Total BTEX	<0.300	0.300	08/11/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>416</b>	16.0	08/10/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2023	ND	169	84.4	200	0.407	
DRO >C10-C28*	<10.0	10.0	08/09/2023	ND	176	87.9	200	0.671	
EXT DRO >C28-C36	<10.0	10.0	08/09/2023	ND					

Surrogate: 1-Chlorooctane 98.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 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:	08/08/2023	Sampling Date:	08/07/2023
Reported:	08/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 13 COM #002 (FED 13 2017)	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shari Cisneros
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: BH - 4 5' (H234239-20)**

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	08/11/2023	ND	2.11	105	2.00	5.93	
Toluene*	<0.050	0.050	08/11/2023	ND	2.00	100	2.00	4.54	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	2.04	102	2.00	6.02	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	6.09	101	6.00	5.67	
Total BTEX	<0.300	0.300	08/11/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	08/10/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2023	ND	169	84.4	200	0.407	
DRO >C10-C28*	<10.0	10.0	08/09/2023	ND	176	87.9	200	0.671	
EXT DRO >C28-C36	<10.0	10.0	08/09/2023	ND					

Surrogate: 1-Chlorooctane 98.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 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:	08/08/2023	Sampling Date:	08/07/2023
Reported:	08/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 13 COM #002 (FED 13 2017)	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shari Cisneros
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: BH - 5 0-1' (H234239-21)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2023	ND	2.11	105	2.00	5.93	
Toluene*	<0.050	0.050	08/11/2023	ND	2.00	100	2.00	4.54	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	2.04	102	2.00	6.02	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	6.09	101	6.00	5.67	
Total BTEX	<0.300	0.300	08/11/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	08/10/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2023	ND	169	84.4	200	0.407	
DRO >C10-C28*	<10.0	10.0	08/09/2023	ND	176	87.9	200	0.671	
EXT DRO >C28-C36	<10.0	10.0	08/09/2023	ND					

Surrogate: 1-Chlorooctane 87.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 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:	08/08/2023	Sampling Date:	08/07/2023
Reported:	08/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 13 COM #002 (FED 13 2017)	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shari Cisneros
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: BH - 5 2' (H234239-22)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2023	ND	2.11	105	2.00	5.93	
Toluene*	<0.050	0.050	08/11/2023	ND	2.00	100	2.00	4.54	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	2.04	102	2.00	6.02	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	6.09	101	6.00	5.67	
Total BTEX	<0.300	0.300	08/11/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	08/10/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2023	ND	169	84.4	200	0.407	
DRO >C10-C28*	<10.0	10.0	08/09/2023	ND	176	87.9	200	0.671	
EXT DRO >C28-C36	<10.0	10.0	08/09/2023	ND					

Surrogate: 1-Chlorooctane 94.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 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:	08/08/2023	Sampling Date:	08/07/2023
Reported:	08/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 13 COM #002 (FED 13 2017)	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shari Cisneros
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: BH - 5 3' (H234239-23)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2023	ND	2.11	105	2.00	5.93	
Toluene*	<0.050	0.050	08/11/2023	ND	2.00	100	2.00	4.54	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	2.04	102	2.00	6.02	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	6.09	101	6.00	5.67	
Total BTEX	<0.300	0.300	08/11/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/10/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2023	ND	169	84.4	200	0.407	
DRO >C10-C28*	<10.0	10.0	08/09/2023	ND	176	87.9	200	0.671	
EXT DRO >C28-C36	<10.0	10.0	08/09/2023	ND					

Surrogate: 1-Chlorooctane 90.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 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:	08/08/2023	Sampling Date:	08/07/2023
Reported:	08/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 13 COM #002 (FED 13 2017)	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shari Cisneros
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: BH - 5 4' (H234239-24)**

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	08/11/2023	ND	2.11	105	2.00	0.825	
Toluene*	<0.050	0.050	08/11/2023	ND	2.07	103	2.00	0.431	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	2.03	101	2.00	1.64	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	5.90	98.4	6.00	4.04	
Total BTEX	<0.300	0.300	08/11/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 86.0 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	08/10/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2023	ND	169	84.4	200	0.407	
DRO >C10-C28*	<10.0	10.0	08/09/2023	ND	176	87.9	200	0.671	
EXT DRO >C28-C36	<10.0	10.0	08/09/2023	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 127 % 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:	08/08/2023	Sampling Date:	08/07/2023
Reported:	08/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 13 COM #002 (FED 13 2017)	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shari Cisneros
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: BH - 5 5' (H234239-25)**

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	08/11/2023	ND	2.11	105	2.00	0.825	
Toluene*	<0.050	0.050	08/11/2023	ND	2.07	103	2.00	0.431	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	2.03	101	2.00	1.64	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	5.90	98.4	6.00	4.04	
Total BTEX	<0.300	0.300	08/11/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	08/10/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/10/2023	ND	169	84.4	200	0.407	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	176	87.9	200	0.671	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					

Surrogate: 1-Chlorooctane 99.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 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:	08/08/2023	Sampling Date:	08/07/2023
Reported:	08/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 13 COM #002 (FED 13 2017)	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shari Cisneros
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: BH - 6 0-1' (H234239-26)**

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	08/11/2023	ND	2.11	105	2.00	0.825	
Toluene*	<0.050	0.050	08/11/2023	ND	2.07	103	2.00	0.431	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	2.03	101	2.00	1.64	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	5.90	98.4	6.00	4.04	
Total BTEX	<0.300	0.300	08/11/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	08/10/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/10/2023	ND	169	84.4	200	0.407	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	176	87.9	200	0.671	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					

Surrogate: 1-Chlorooctane 92.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 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:	08/08/2023	Sampling Date:	08/07/2023
Reported:	08/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 13 COM #002 (FED 13 2017)	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shari Cisneros
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: BH - 6 2' (H234239-27)**

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	08/11/2023	ND	2.11	105	2.00	0.825	
Toluene*	<0.050	0.050	08/11/2023	ND	2.07	103	2.00	0.431	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	2.03	101	2.00	1.64	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	5.90	98.4	6.00	4.04	
Total BTEX	<0.300	0.300	08/11/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1650	16.0	08/10/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/10/2023	ND	169	84.4	200	0.407	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	176	87.9	200	0.671	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					

Surrogate: 1-Chlorooctane 98.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 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:	08/08/2023	Sampling Date:	08/07/2023
Reported:	08/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 13 COM #002 (FED 13 2017)	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shari Cisneros
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: BH - 6 3' (H234239-28)**

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	08/11/2023	ND	2.11	105	2.00	0.825	
Toluene*	<0.050	0.050	08/11/2023	ND	2.07	103	2.00	0.431	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	2.03	101	2.00	1.64	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	5.90	98.4	6.00	4.04	
Total BTEX	<0.300	0.300	08/11/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2480	16.0	08/10/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/10/2023	ND	169	84.4	200	0.407	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	176	87.9	200	0.671	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					

Surrogate: 1-Chlorooctane 99.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 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:	08/08/2023	Sampling Date:	08/07/2023
Reported:	08/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 13 COM #002 (FED 13 2017)	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shari Cisneros
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: BH - 6 4' (H234239-29)**

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	08/11/2023	ND	2.11	105	2.00	0.825	
Toluene*	<0.050	0.050	08/11/2023	ND	2.07	103	2.00	0.431	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	2.03	101	2.00	1.64	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	5.90	98.4	6.00	4.04	
Total BTEX	<0.300	0.300	08/11/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	08/10/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/10/2023	ND	169	84.4	200	0.407	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	176	87.9	200	0.671	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					

Surrogate: 1-Chlorooctane 95.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 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:	08/08/2023	Sampling Date:	08/07/2023
Reported:	08/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 13 COM #002 (FED 13 2017)	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shari Cisneros
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: BH - 6 5' (H234239-30)**

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	08/11/2023	ND	2.11	105	2.00	0.825	
Toluene*	<0.050	0.050	08/11/2023	ND	2.07	103	2.00	0.431	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	2.03	101	2.00	1.64	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	5.90	98.4	6.00	4.04	
Total BTEX	<0.300	0.300	08/11/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	08/10/2023	ND	464	116	400	3.51	

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	08/10/2023	ND	169	84.4	200	0.407	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	176	87.9	200	0.671	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					

Surrogate: 1-Chlorooctane 98.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 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:	08/08/2023	Sampling Date:	08/07/2023
Reported:	08/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 13 COM #002 (FED 13 2017)	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shari Cisneros
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: BH - 7 0-1' (H234239-31)**

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	08/11/2023	ND	2.11	105	2.00	0.825		
Toluene*	<0.050	0.050	08/11/2023	ND	2.07	103	2.00	0.431		
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	2.03	101	2.00	1.64		
Total Xylenes*	<0.150	0.150	08/11/2023	ND	5.90	98.4	6.00	4.04		
Total BTEX	<0.300	0.300	08/11/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	08/10/2023	ND	464	116	400	3.51		

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	08/10/2023	ND	169	84.4	200	0.407		
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	176	87.9	200	0.671		
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND						

Surrogate: 1-Chlorooctane 98.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 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:	08/08/2023	Sampling Date:	08/07/2023
Reported:	08/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 13 COM #002 (FED 13 2017)	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shari Cisneros
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: BH - 7 2' (H234239-32)**

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	08/11/2023	ND	2.11	105	2.00	0.825		
Toluene*	<0.050	0.050	08/11/2023	ND	2.07	103	2.00	0.431		
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	2.03	101	2.00	1.64		
Total Xylenes*	<0.150	0.150	08/11/2023	ND	5.90	98.4	6.00	4.04		
Total BTEX	<0.300	0.300	08/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	08/10/2023	ND	464	116	400	3.51		

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	08/10/2023	ND	169	84.4	200	0.407		
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	176	87.9	200	0.671		
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND						

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 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:	08/08/2023	Sampling Date:	08/07/2023
Reported:	08/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 13 COM #002 (FED 13 2017)	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shari Cisneros
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: BH - 7 3' (H234239-33)**

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	08/11/2023	ND	2.11	105	2.00	0.825		
Toluene*	<0.050	0.050	08/11/2023	ND	2.07	103	2.00	0.431		
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	2.03	101	2.00	1.64		
Total Xylenes*	<0.150	0.150	08/11/2023	ND	5.90	98.4	6.00	4.04		
Total BTEX	<0.300	0.300	08/11/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	08/10/2023	ND	464	116	400	3.51		

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	08/10/2023	ND	169	84.4	200	0.407		
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	176	87.9	200	0.671		
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND						

Surrogate: 1-Chlorooctane 96.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 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:	08/08/2023	Sampling Date:	08/07/2023
Reported:	08/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 13 COM #002 (FED 13 2017)	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shari Cisneros
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: BH - 7 4' (H234239-34)**

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	08/10/2023	ND	2.18	109	2.00	0.590	
Toluene*	<0.050	0.050	08/10/2023	ND	2.10	105	2.00	0.0357	
Ethylbenzene*	<0.050	0.050	08/10/2023	ND	2.01	101	2.00	0.778	
Total Xylenes*	<0.150	0.150	08/10/2023	ND	6.03	100	6.00	1.07	
Total BTEX	<0.300	0.300	08/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.2 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	08/10/2023	ND	464	116	400	3.51	

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	08/10/2023	ND	169	84.4	200	0.407	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	176	87.9	200	0.671	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					

Surrogate: 1-Chlorooctane 123 % 48.2-134

Surrogate: 1-Chlorooctadecane 146 % 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:	08/08/2023	Sampling Date:	08/07/2023
Reported:	08/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 13 COM #002 (FED 13 2017)	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shari Cisneros
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: BH - 7 5' (H234239-35)**

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	08/10/2023	ND	2.18	109	2.00	0.590	
Toluene*	<0.050	0.050	08/10/2023	ND	2.10	105	2.00	0.0357	
Ethylbenzene*	<0.050	0.050	08/10/2023	ND	2.01	101	2.00	0.778	
Total Xylenes*	<0.150	0.150	08/10/2023	ND	6.03	100	6.00	1.07	
Total BTEX	<0.300	0.300	08/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	08/10/2023	ND	464	116	400	3.51	

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	08/10/2023	ND	169	84.4	200	0.407	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	176	87.9	200	0.671	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					

Surrogate: 1-Chlorooctane 97.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	08/08/2023	Sampling Date:	08/07/2023
Reported:	08/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 13 COM #002 (FED 13 2017)	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shari Cisneros
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: BH - 8 0-1' (H234239-36)**

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	08/11/2023	ND	2.18	109	2.00	0.590	
Toluene*	<0.050	0.050	08/11/2023	ND	2.10	105	2.00	0.0357	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	2.01	101	2.00	0.778	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	6.03	100	6.00	1.07	
Total BTEX	<0.300	0.300	08/11/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.3 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	08/10/2023	ND	464	116	400	3.51	

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	08/10/2023	ND	169	84.4	200	0.407	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	176	87.9	200	0.671	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					

Surrogate: 1-Chlorooctane 90.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 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:	08/08/2023	Sampling Date:	08/07/2023
Reported:	08/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 13 COM #002 (FED 13 2017)	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shari Cisneros
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: BH - 8 2' (H234239-37)**

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	08/11/2023	ND	2.18	109	2.00	0.590	
Toluene*	<0.050	0.050	08/11/2023	ND	2.10	105	2.00	0.0357	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	2.01	101	2.00	0.778	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	6.03	100	6.00	1.07	
Total BTEX	<0.300	0.300	08/11/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	08/10/2023	ND	464	116	400	3.51	

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	08/10/2023	ND	169	84.4	200	0.407	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	176	87.9	200	0.671	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					

Surrogate: 1-Chlorooctane 92.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 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:	08/08/2023	Sampling Date:	08/07/2023
Reported:	08/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 13 COM #002 (FED 13 2017)	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shari Cisneros
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: BH - 8 3' (H234239-38)**

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	08/11/2023	ND	2.18	109	2.00	0.590	
Toluene*	<0.050	0.050	08/11/2023	ND	2.10	105	2.00	0.0357	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	2.01	101	2.00	0.778	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	6.03	100	6.00	1.07	
Total BTEX	<0.300	0.300	08/11/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>416</b>	16.0	08/10/2023	ND	464	116	400	3.51	

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	08/10/2023	ND	169	84.4	200	0.407	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	176	87.9	200	0.671	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					

Surrogate: 1-Chlorooctane 95.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 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:	08/08/2023	Sampling Date:	08/07/2023
Reported:	08/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 13 COM #002 (FED 13 2017)	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shari Cisneros
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: BH - 8 4' (H234239-39)**

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	08/11/2023	ND	2.18	109	2.00	0.590	
Toluene*	<0.050	0.050	08/11/2023	ND	2.10	105	2.00	0.0357	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	2.01	101	2.00	0.778	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	6.03	100	6.00	1.07	
Total BTEX	<0.300	0.300	08/11/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	08/10/2023	ND	464	116	400	3.51	

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	08/10/2023	ND	168	83.8	200	2.04	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	154	76.8	200	0.382	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					

Surrogate: 1-Chlorooctane 86.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	08/08/2023	Sampling Date:	08/07/2023
Reported:	08/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 13 COM #002 (FED 13 2017)	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shari Cisneros
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: BH - 8 5' (H234239-40)**

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	08/11/2023	ND	2.18	109	2.00	0.590	
Toluene*	<0.050	0.050	08/11/2023	ND	2.10	105	2.00	0.0357	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	2.01	101	2.00	0.778	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	6.03	100	6.00	1.07	
Total BTEX	<0.300	0.300	08/11/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	08/10/2023	ND	464	116	400	3.51	

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	08/10/2023	ND	168	83.8	200	2.04	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	154	76.8	200	0.382	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					

Surrogate: 1-Chlorooctane 86.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.4 % 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:	08/08/2023	Sampling Date:	08/07/2023
Reported:	08/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 13 COM #002 (FED 13 2017)	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shari Cisneros
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: BH - 9 0-1' (H234239-41)**

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	08/11/2023	ND	2.18	109	2.00	0.590	
Toluene*	<0.050	0.050	08/11/2023	ND	2.10	105	2.00	0.0357	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	2.01	101	2.00	0.778	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	6.03	100	6.00	1.07	
Total BTEX	<0.300	0.300	08/11/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.4 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	08/10/2023	ND	464	116	400	3.51	

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	08/10/2023	ND	168	83.8	200	2.04	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	154	76.8	200	0.382	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					

Surrogate: 1-Chlorooctane 80.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.6 % 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:	08/08/2023	Sampling Date:	08/07/2023
Reported:	08/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 13 COM #002 (FED 13 2017)	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shari Cisneros
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: BH - 9 2' (H234239-42)**

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	08/11/2023	ND	2.18	109	2.00	0.590	
Toluene*	<0.050	0.050	08/11/2023	ND	2.10	105	2.00	0.0357	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	2.01	101	2.00	0.778	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	6.03	100	6.00	1.07	
Total BTEX	<0.300	0.300	08/11/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	848	16.0	08/10/2023	ND	464	116	400	3.51	

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	08/10/2023	ND	168	83.8	200	2.04	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	154	76.8	200	0.382	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					

Surrogate: 1-Chlorooctane 82.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.8 % 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:	08/08/2023	Sampling Date:	08/07/2023
Reported:	08/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 13 COM #002 (FED 13 2017)	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shari Cisneros
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: BH - 9 3' (H234239-43)**

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	08/11/2023	ND	2.18	109	2.00	0.590	
Toluene*	<0.050	0.050	08/11/2023	ND	2.10	105	2.00	0.0357	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	2.01	101	2.00	0.778	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	6.03	100	6.00	1.07	
Total BTEX	<0.300	0.300	08/11/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	848	16.0	08/10/2023	ND	464	116	400	3.51	

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	08/10/2023	ND	168	83.8	200	2.04	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	154	76.8	200	0.382	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					

Surrogate: 1-Chlorooctane 85.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.1 % 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:	08/08/2023	Sampling Date:	08/07/2023
Reported:	08/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 13 COM #002 (FED 13 2017)	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shari Cisneros
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: BH - 9 4' (H234239-44)**

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	08/11/2023	ND	2.18	109	2.00	0.590	
Toluene*	<0.050	0.050	08/11/2023	ND	2.10	105	2.00	0.0357	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	2.01	101	2.00	0.778	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	6.03	100	6.00	1.07	
Total BTEX	<0.300	0.300	08/11/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	08/10/2023	ND	464	116	400	3.51	

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	08/10/2023	ND	168	83.8	200	2.04	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	154	76.8	200	0.382	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					

Surrogate: 1-Chlorooctane 82.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.8 % 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:	08/08/2023	Sampling Date:	08/07/2023
Reported:	08/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 13 COM #002 (FED 13 2017)	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shari Cisneros
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: BH - 9 5' (H234239-45)**

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	08/11/2023	ND	2.18	109	2.00	0.590	
Toluene*	<0.050	0.050	08/11/2023	ND	2.10	105	2.00	0.0357	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	2.01	101	2.00	0.778	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	6.03	100	6.00	1.07	
Total BTEX	<0.300	0.300	08/11/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/10/2023	ND	464	116	400	3.51	

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	08/10/2023	ND	168	83.8	200	2.04	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	154	76.8	200	0.382	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					

Surrogate: 1-Chlorooctane 85.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.7 % 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:	08/08/2023	Sampling Date:	08/07/2023
Reported:	08/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 13 COM #002 (FED 13 2017)	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shari Cisneros
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: H - 1 0-1 (H234239-46)**

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	08/11/2023	ND	2.18	109	2.00	0.590	
Toluene*	<0.050	0.050	08/11/2023	ND	2.10	105	2.00	0.0357	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	2.01	101	2.00	0.778	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	6.03	100	6.00	1.07	
Total BTEX	<0.300	0.300	08/11/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/10/2023	ND	464	116	400	3.51	

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	08/10/2023	ND	168	83.8	200	2.04	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	154	76.8	200	0.382	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					

Surrogate: 1-Chlorooctane 77.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.2 % 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:	08/08/2023	Sampling Date:	08/07/2023
Reported:	08/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 13 COM #002 (FED 13 2017)	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shari Cisneros
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: H - 2 0-1 (H234239-47)**

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	08/11/2023	ND	2.18	109	2.00	0.590	
Toluene*	<0.050	0.050	08/11/2023	ND	2.10	105	2.00	0.0357	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	2.01	101	2.00	0.778	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	6.03	100	6.00	1.07	
Total BTEX	<0.300	0.300	08/11/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.0 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/10/2023	ND	464	116	400	3.51	

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	08/10/2023	ND	168	83.8	200	2.04	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	154	76.8	200	0.382	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					

Surrogate: 1-Chlorooctane 77.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.8 % 49.1-148

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:	08/08/2023	Sampling Date:	08/07/2023
Reported:	08/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 13 COM #002 (FED 13 2017)	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shari Cisneros
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: H - 3 0-1 (H234239-48)**

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	08/11/2023	ND	2.18	109	2.00	0.590	
Toluene*	<0.050	0.050	08/11/2023	ND	2.10	105	2.00	0.0357	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	2.01	101	2.00	0.778	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	6.03	100	6.00	1.07	
Total BTEX	<0.300	0.300	08/11/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/10/2023	ND	464	116	400	3.51	

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	08/10/2023	ND	168	83.8	200	2.04	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	154	76.8	200	0.382	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					

Surrogate: 1-Chlorooctane 71.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.9 % 49.1-148

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:	08/08/2023	Sampling Date:	08/07/2023
Reported:	08/14/2023	Sampling Type:	Soil
Project Name:	FEDERAL 13 COM #002 (FED 13 2017)	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shari Cisneros
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: H - 4 0-1 (H234239-49)**

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	08/11/2023	ND	2.18	109	2.00	0.590	
Toluene*	<0.050	0.050	08/11/2023	ND	2.10	105	2.00	0.0357	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	2.01	101	2.00	0.778	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	6.03	100	6.00	1.07	
Total BTEX	<0.300	0.300	08/11/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/10/2023	ND	464	116	400	3.51	

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	08/10/2023	ND	168	83.8	200	2.04	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	154	76.8	200	0.382	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					

Surrogate: 1-Chlorooctane 78.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.1 % 49.1-148

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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

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: H&R Enterprises  
101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

BILL TO

ANALYSIS REQUEST

Project Manager: Michael Collier  
Address:  
City: State: Zip:  
Phone #: Fax #:  
Project #: Project Owner: Cimarex Energy  
Project Name: Federal 13 Com #002 (Fed 13 2017)  
Project Location: Eddy County, NM  
Sampler Name: Roy Bell  
P.O. #:  
Company: Cimarex Energy  
Attn: Laci Lullig  
Address:  
City: State: Zip:  
Phone #: Fax #:

Lab I.D. H234239

Lab I.D.	Date	Time	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	BTEX	TPH	Chlorides
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
BH-1 0-1'															
BH-1 2'															
BH-1 3'															
BH-1 4'															
BH-1 5'															
BH-2 0-1'															
BH-2 2'															
BH-2 3'															
BH-2 4'															
BH-2 5'															

PLEASE NOTE: Liability and Coverage: Customer handles and carries, maintains, repairs, or any other action using a number issued or control or not, shall remain the responsibility of the customer and the client for the analysis. 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 applicable service. In no event shall Cardinal be liable for consequential damages, including without limitation, business interruptions, loss of sale, or loss of profit incurred by client, its subsidiaries, affiliates or successors arising out of or related to 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: [Signature] Date: 3/18/23 Time: 13:35 Received By: [Signature] Received By: [Signature]

Delivered By: (Circle One) Sampler - UPS - Bus - Other: Observed Temp. °C: 1.3°C Corrected Temp. °C: [Blank]

Sample Condition: Cool / Ambient [Checked] / Dry [Checked] / No [Checked] / No [Checked]. CHECKED BY: [Signature]. REMARKS: Pg 1 of 5. Thermometer ID: 4140. Correction Factor: 0.5°C. Add'l Phone #: [Blank].

FORM-008 R 3.2 10/07/21 Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinalabnm.com



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: H&R Enterprises  
101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

BILL TO

ANALYSIS REQUEST

Project Manager: Michael Collier  
 Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Project #: \_\_\_\_\_ Fax #: \_\_\_\_\_  
 Project Name: Federal 13 Com #002 (Fed 13 2017)  
 Project Location: Eddy County, NM  
 Sampler Name: Roy Bell  
 P.O. #: \_\_\_\_\_  
 Company: Cimarex Energy  
 Attn: Laci Lujig  
 Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Phone #: \_\_\_\_\_  
 Fax #: \_\_\_\_\_

Lab I.D.	BH-3 0-1'	BH-3 2'	BH-3 3'	BH-3 4'	BH-3 5'	BH-4 0-1'	BH-4 2'	BH-4 3'	BH-4 4'	BH-4 5'	FOR USE ONLY		DATE	TIME	BTEX	TPH	Chlorides	
											(G)RAB OR (C)OMP.	# CONTAINERS						
H234239																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
20																		

PLEASE NOTE: Liability and Damages: Customer hereby certifies that the samples were collected and analyzed in accordance with the procedures outlined in the attached Chain of Custody and Analysis Request form. The customer understands that the results of the analysis are based on the samples as received and that the customer is responsible for the accuracy of the information provided on this form.

Relinquished By: \_\_\_\_\_ Date: 3/13/23  
 Received By: \_\_\_\_\_ Date: 3/13/23  
 Time: 1:35  
 Observed Temp. °C: 1.35  
 Corrected Temp. °C: \_\_\_\_\_  
 Sample Condition:  Cool  Hot  
 Sealed  Unsealed  
 Checked By: \_\_\_\_\_ (Initials)  
 Remarks: Pg 2 of 5  
 Add'l Phone #: \_\_\_\_\_

FORM-006 R 3.2 10/07/21

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

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

Company Name: H&R Enterprises

**BILL TO**

**ANALYSIS REQUEST**

Project Manager: Michael Collier  
 Address:  
 City: State: Zip:  
 Phone #: Fax #:  
 Project #: Project Owner: Cimarex Energy  
 Project Name: Federal 13 Com #002 (Fed 13 2017)  
 Project Location: Eddy County, NM  
 Sampler Name: Roy Bell  
 P.O. #:  
 Company: Cimarex Energy  
 Attn: Laci Lulig  
 Address:  
 City: State: Zip:  
 Phone #: Fax #:

FOR LABOR ONLY  
Lab I.D.

Well ID	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	BTEX	TPH	Chlorides
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER : ACID/BASE: ICE / COOL OTHER :					
H234837	G	1			X				8/7/23				
BH-5 0-1'										X	X	X	
BH-5 2'													
BH-5 3'													
BH-5 4'													
BH-5 5'													
BH-6 0-1'													
BH-6 2'													
BH-6 3'													
BH-6 4'													
BH-6 5'													

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Relinquished By: [Signature]  
 Date: 8/18/23  
 Received By: [Signature]  
 Date: 8/18/23  
 Time: 1:35  
 Received By: [Signature]  
 Time:

Delivered By: (Circle One)  
 Sampler - UPS - Bus - Other:  
 Observed Temp, °C: 1.35  
 Corrected Temp, °C:  
 Sample Condition:  
 Cool / Intact:  Yes  No  
 Checked By: [Signature]  
 Remarks: PG 3 of 5  
 Add'l Phone #:  
 Thermometer ID: #140  
 Correction Factor: 0.5°C  
 Standard:  Bureau (only) Sample Condition  
 Observed Temp, °C:  Yes  No  
 Corrected Temp, °C:  Yes  No

FORM-006 R 3 10/07/21

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240  
(575) 393-2328 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 Energy

Project Name: Federal 13 Com #002 (Fed 13 2017)

Project Location: Eddy County, NM

Sampler Name: Roy Bell

Lab I.D. \_\_\_\_\_

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					
H234239	8/7/23			1			X							X	X	X
BH-7 0-1'																
BH-7 2'																
BH-7 3'																
BH-7 4'																
BH-7 5'																
BH-8 0-1'																
BH-8 2'																
BH-8 3'																
BH-8 4'																
BH-8 5'																

Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Delivered By: (Circle One) \_\_\_\_\_

Sampler - UPS - Bus - Other: \_\_\_\_\_

Observed Temp. °C \_\_\_\_\_ Connected Temp. °C \_\_\_\_\_

Sample Condition: Cool  Intact  Yes  No

Checked By: \_\_\_\_\_ (Initials)

Remarks: PG 4 of 5

Thermometer ID #413 Correction Factor -0.5°C

Standard  Observed Temp. °C \_\_\_\_\_

Backs (only) Sample Condition:  Yes  No

Connected Temp. °C \_\_\_\_\_

Verbal Results:  Yes  No  Add'l Phone #: \_\_\_\_\_

All Results are emailed. Please provide Email address: \_\_\_\_\_

FORM-008 R 3.2 11/01/21

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2478

BILL TO

ANALYSIS REQUEST

Company Name: H&R Enterprises  
 Project Manager: Michael Collier  
 Address:  
 City: State: Zip:  
 Phone #: Fax #:  
 Project #: Project Owner: Cimarex Energy  
 Project Name: Federal 13 Com #002 (Fed 13 2017)  
 Project Location: Eddy County, NM  
 Sampler Name: Roy Ball  
 Lab I.D.:

P.O. #:  
 Company: Cimarex Energy  
 Attn: Laci Lullig  
 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:					
H234239	8/18/23	13:35	G	1			X					8/17/23				
41			BH-9 0-1'													
42			BH-9 2'													
43			BH-9 3'													
44			BH-9 4'													
45			BH-9 5'													
46			H-1 0-1'													
47			H-2 0-1'													
48			H-3 0-1'													
49			H-4 0-1'													

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Relinquished By: [Signature]  
 Date: 8/18/23  
 Received By: [Signature] CISA/DJ  
 Date: 8/18/23  
 Time: 13:35

Delivered By: (Circle One)  
 Sampler - UPS - Bus - Other: 1.3c

Observed Temp. °C  
 Corrected Temp. °C

Sample Condition  
 Cool  Yes  No  
 Intact  Yes  No

CHECKED BY: [Signature]

Turnaround Time:  Standard  Expedited (only Sample Condition)

Thermometer ID #13  
 Correction Factor -0.3°C

REMARKS: PG 5 of 5

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

FORM-008 R 3.2 10/07/21 Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



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

---

March 08, 2024

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

RE: FEDERAL 13 COM #002 (FED 13 )

Enclosed are the results of analyses for samples received by the laboratory on 03/05/24 14:17.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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:	03/05/2024	Sampling Date:	03/04/2024
Reported:	03/08/2024	Sampling Type:	Soil
Project Name:	FEDERAL 13 COM #002 (FED 13 )	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: S - 1 4' (H241092-01)**

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	03/07/2024	ND	2.43	122	2.00	5.45	
Toluene*	<0.050	0.050	03/07/2024	ND	2.28	114	2.00	2.92	
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.27	114	2.00	0.0454	
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.76	113	6.00	0.923	
Total BTEX	<0.300	0.300	03/07/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	03/07/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	202	101	200	0.965	
DRO >C10-C28*	<10.0	10.0	03/06/2024	ND	176	87.8	200	3.07	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 91.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.8 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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:	03/05/2024	Sampling Date:	03/04/2024
Reported:	03/08/2024	Sampling Type:	Soil
Project Name:	FEDERAL 13 COM #002 (FED 13 )	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: S - 2 2' (H241092-02)**

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	03/07/2024	ND	2.43	122	2.00	5.45	
Toluene*	<0.050	0.050	03/07/2024	ND	2.28	114	2.00	2.92	
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.27	114	2.00	0.0454	
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.76	113	6.00	0.923	
Total BTEX	<0.300	0.300	03/07/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	03/07/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	202	101	200	0.965	
DRO >C10-C28*	<10.0	10.0	03/06/2024	ND	176	87.8	200	3.07	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 83.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.7 % 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:	03/05/2024	Sampling Date:	03/04/2024
Reported:	03/08/2024	Sampling Type:	Soil
Project Name:	FEDERAL 13 COM #002 (FED 13 )	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: S - 3 2' (H241092-03)**

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	03/07/2024	ND	2.43	122	2.00	5.45	
Toluene*	<0.050	0.050	03/07/2024	ND	2.28	114	2.00	2.92	
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.27	114	2.00	0.0454	
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.76	113	6.00	0.923	
Total BTEX	<0.300	0.300	03/07/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	03/07/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	202	101	200	0.965	
DRO >C10-C28*	<10.0	10.0	03/06/2024	ND	176	87.8	200	3.07	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 87.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.2 % 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:	03/05/2024	Sampling Date:	03/04/2024
Reported:	03/08/2024	Sampling Type:	Soil
Project Name:	FEDERAL 13 COM #002 (FED 13 )	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: S - 4 2' (H241092-04)**

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	03/07/2024	ND	2.43	122	2.00	5.45	
Toluene*	<0.050	0.050	03/07/2024	ND	2.28	114	2.00	2.92	
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.27	114	2.00	0.0454	
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.76	113	6.00	0.923	
Total BTEX	<0.300	0.300	03/07/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	03/07/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	202	101	200	0.965	
DRO >C10-C28*	<10.0	10.0	03/06/2024	ND	176	87.8	200	3.07	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 88.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/05/2024	Sampling Date:	03/04/2024
Reported:	03/08/2024	Sampling Type:	Soil
Project Name:	FEDERAL 13 COM #002 (FED 13 )	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: S - 5 3' (H241092-05)**

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	03/07/2024	ND	2.03	101	2.00	2.09		
Toluene*	<0.050	0.050	03/07/2024	ND	2.11	106	2.00	4.28		
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.18	109	2.00	6.04		
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.48	108	6.00	6.30		
Total BTEX	<0.300	0.300	03/07/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	03/07/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	202	101	200	0.965		
DRO >C10-C28*	<10.0	10.0	03/06/2024	ND	176	87.8	200	3.07		
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND						

Surrogate: 1-Chlorooctane 83.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/05/2024	Sampling Date:	03/04/2024
Reported:	03/08/2024	Sampling Type:	Soil
Project Name:	FEDERAL 13 COM #002 (FED 13 )	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: S - 6 3' (H241092-06)**

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	03/07/2024	ND	2.03	101	2.00	2.09		
Toluene*	<0.050	0.050	03/07/2024	ND	2.11	106	2.00	4.28		
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.18	109	2.00	6.04		
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.48	108	6.00	6.30		
Total BTEX	<0.300	0.300	03/07/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	03/07/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	202	101	200	0.965		
DRO >C10-C28*	<10.0	10.0	03/06/2024	ND	176	87.8	200	3.07		
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND						

Surrogate: 1-Chlorooctane 83.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.8 % 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:	03/05/2024	Sampling Date:	03/04/2024
Reported:	03/08/2024	Sampling Type:	Soil
Project Name:	FEDERAL 13 COM #002 (FED 13 )	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: S - 7 3' (H241092-07)**

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	03/07/2024	ND	2.03	101	2.00	2.09	
Toluene*	<0.050	0.050	03/07/2024	ND	2.11	106	2.00	4.28	
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.18	109	2.00	6.04	
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.48	108	6.00	6.30	
Total BTEX	<0.300	0.300	03/07/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	03/07/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	202	101	200	0.965	
DRO >C10-C28*	<10.0	10.0	03/06/2024	ND	176	87.8	200	3.07	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 84.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.5 % 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:	03/05/2024	Sampling Date:	03/04/2024
Reported:	03/08/2024	Sampling Type:	Soil
Project Name:	FEDERAL 13 COM #002 (FED 13 )	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: S - 8 3' (H241092-08)**

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	03/07/2024	ND	2.03	101	2.00	2.09	
Toluene*	<0.050	0.050	03/07/2024	ND	2.11	106	2.00	4.28	
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.18	109	2.00	6.04	
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.48	108	6.00	6.30	
Total BTEX	<0.300	0.300	03/07/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	03/07/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	202	101	200	0.965	
DRO >C10-C28*	<10.0	10.0	03/06/2024	ND	176	87.8	200	3.07	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 89.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.5 % 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:	03/05/2024	Sampling Date:	03/04/2024
Reported:	03/08/2024	Sampling Type:	Soil
Project Name:	FEDERAL 13 COM #002 (FED 13 )	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: S - 9 4' (H241092-09)**

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	03/07/2024	ND	2.03	101	2.00	2.09		
Toluene*	<0.050	0.050	03/07/2024	ND	2.11	106	2.00	4.28		
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.18	109	2.00	6.04		
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.48	108	6.00	6.30		
Total BTEX	<0.300	0.300	03/07/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	03/07/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	202	101	200	0.965		
DRO >C10-C28*	<10.0	10.0	03/06/2024	ND	176	87.8	200	3.07		
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND						

Surrogate: 1-Chlorooctane 90.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.5 % 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:	03/05/2024	Sampling Date:	03/04/2024
Reported:	03/08/2024	Sampling Type:	Soil
Project Name:	FEDERAL 13 COM #002 (FED 13 )	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: S - 10 4' (H241092-10)**

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	03/07/2024	ND	2.03	101	2.00	2.09	
Toluene*	<0.050	0.050	03/07/2024	ND	2.11	106	2.00	4.28	
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.18	109	2.00	6.04	
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.48	108	6.00	6.30	
Total BTEX	<0.300	0.300	03/07/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	03/07/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	202	101	200	0.965	
DRO >C10-C28*	<10.0	10.0	03/06/2024	ND	176	87.8	200	3.07	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 84.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/05/2024	Sampling Date:	03/04/2024
Reported:	03/08/2024	Sampling Type:	Soil
Project Name:	FEDERAL 13 COM #002 (FED 13 )	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: SW - 1 4' (H241092-11)**

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	03/07/2024	ND	2.03	101	2.00	2.09	
Toluene*	<0.050	0.050	03/07/2024	ND	2.11	106	2.00	4.28	
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.18	109	2.00	6.04	
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.48	108	6.00	6.30	
Total BTEX	<0.300	0.300	03/07/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/07/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	221	111	200	0.292	
DRO >C10-C28*	<10.0	10.0	03/06/2024	ND	204	102	200	4.63	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 73.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.5 % 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:	03/05/2024	Sampling Date:	03/04/2024
Reported:	03/08/2024	Sampling Type:	Soil
Project Name:	FEDERAL 13 COM #002 (FED 13 )	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: SW - 2 4' (H241092-12)**

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	03/07/2024	ND	2.03	101	2.00	2.09		
Toluene*	<0.050	0.050	03/07/2024	ND	2.11	106	2.00	4.28		
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.18	109	2.00	6.04		
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.48	108	6.00	6.30		
Total BTEX	<0.300	0.300	03/07/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/07/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	221	111	200	0.292		
DRO >C10-C28*	<10.0	10.0	03/06/2024	ND	204	102	200	4.63		
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND						

Surrogate: 1-Chlorooctane 78.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.2 % 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:	03/05/2024	Sampling Date:	03/04/2024
Reported:	03/08/2024	Sampling Type:	Soil
Project Name:	FEDERAL 13 COM #002 (FED 13 )	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: SW - 3 4' (H241092-13)**

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	03/07/2024	ND	2.03	101	2.00	2.09		
Toluene*	<0.050	0.050	03/07/2024	ND	2.11	106	2.00	4.28		
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.18	109	2.00	6.04		
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.48	108	6.00	6.30		
Total BTEX	<0.300	0.300	03/07/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/07/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	221	111	200	0.292		
DRO >C10-C28*	<10.0	10.0	03/06/2024	ND	204	102	200	4.63		
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND						

Surrogate: 1-Chlorooctane 78.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.5 % 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:	03/05/2024	Sampling Date:	03/04/2024
Reported:	03/08/2024	Sampling Type:	Soil
Project Name:	FEDERAL 13 COM #002 (FED 13 )	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: SW - 4 4' (H241092-14)**

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	03/07/2024	ND	2.03	101	2.00	2.09		
Toluene*	<0.050	0.050	03/07/2024	ND	2.11	106	2.00	4.28		
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.18	109	2.00	6.04		
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.48	108	6.00	6.30		
Total BTEX	<0.300	0.300	03/07/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/07/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	221	111	200	0.292		
DRO >C10-C28*	<10.0	10.0	03/06/2024	ND	204	102	200	4.63		
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND						

Surrogate: 1-Chlorooctane 74.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.8 % 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:	03/05/2024	Sampling Date:	03/04/2024
Reported:	03/08/2024	Sampling Type:	Soil
Project Name:	FEDERAL 13 COM #002 (FED 13 )	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: SW - 5 2' (H241092-15)**

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	03/07/2024	ND	2.03	101	2.00	2.09		
Toluene*	<0.050	0.050	03/07/2024	ND	2.11	106	2.00	4.28		
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.18	109	2.00	6.04		
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.48	108	6.00	6.30		
Total BTEX	<0.300	0.300	03/07/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	03/07/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	221	111	200	0.292		
DRO >C10-C28*	<10.0	10.0	03/06/2024	ND	204	102	200	4.63		
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND						

Surrogate: 1-Chlorooctane 85.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.7 % 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:	03/05/2024	Sampling Date:	03/04/2024
Reported:	03/08/2024	Sampling Type:	Soil
Project Name:	FEDERAL 13 COM #002 (FED 13 )	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: SW - 6 2' (H241092-16)**

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	03/07/2024	ND	2.03	101	2.00	2.09		
Toluene*	<0.050	0.050	03/07/2024	ND	2.11	106	2.00	4.28		
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.18	109	2.00	6.04		
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.48	108	6.00	6.30		
Total BTEX	<0.300	0.300	03/07/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	03/07/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	221	111	200	0.292		
DRO >C10-C28*	<10.0	10.0	03/06/2024	ND	204	102	200	4.63		
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND						

Surrogate: 1-Chlorooctane 81.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.4 % 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:	03/05/2024	Sampling Date:	03/04/2024
Reported:	03/08/2024	Sampling Type:	Soil
Project Name:	FEDERAL 13 COM #002 (FED 13 )	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: SW - 7 2' (H241092-17)**

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	03/07/2024	ND	2.03	101	2.00	2.09		
Toluene*	<0.050	0.050	03/07/2024	ND	2.11	106	2.00	4.28		
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.18	109	2.00	6.04		
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.48	108	6.00	6.30		
Total BTEX	<0.300	0.300	03/07/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	03/07/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	221	111	200	0.292		
DRO >C10-C28*	<10.0	10.0	03/06/2024	ND	204	102	200	4.63		
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND						

Surrogate: 1-Chlorooctane 80.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/05/2024	Sampling Date:	03/04/2024
Reported:	03/08/2024	Sampling Type:	Soil
Project Name:	FEDERAL 13 COM #002 (FED 13 )	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: SW - 8 3' (H241092-18)**

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	03/07/2024	ND	2.03	101	2.00	2.09		
Toluene*	<0.050	0.050	03/07/2024	ND	2.11	106	2.00	4.28		
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.18	109	2.00	6.04		
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.48	108	6.00	6.30		
Total BTEX	<0.300	0.300	03/07/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	03/07/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	221	111	200	0.292		
DRO >C10-C28*	<10.0	10.0	03/06/2024	ND	204	102	200	4.63		
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND						

Surrogate: 1-Chlorooctane 78.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.1 % 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:	03/05/2024	Sampling Date:	03/04/2024
Reported:	03/08/2024	Sampling Type:	Soil
Project Name:	FEDERAL 13 COM #002 (FED 13 )	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: SW - 9 3' (H241092-19)**

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	03/07/2024	ND	2.03	101	2.00	2.09		
Toluene*	<0.050	0.050	03/07/2024	ND	2.11	106	2.00	4.28		
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.18	109	2.00	6.04		
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.48	108	6.00	6.30		
Total BTEX	<0.300	0.300	03/07/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	03/07/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	221	111	200	0.292		
DRO >C10-C28*	<10.0	10.0	03/06/2024	ND	204	102	200	4.63		
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND						

Surrogate: 1-Chlorooctane 85.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.0 % 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:	03/05/2024	Sampling Date:	03/04/2024
Reported:	03/08/2024	Sampling Type:	Soil
Project Name:	FEDERAL 13 COM #002 (FED 13 )	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: SW - 10 3' (H241092-20)**

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	03/07/2024	ND	2.03	101	2.00	2.09	
Toluene*	<0.050	0.050	03/07/2024	ND	2.11	106	2.00	4.28	
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.18	109	2.00	6.04	
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.48	108	6.00	6.30	
Total BTEX	<0.300	0.300	03/07/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	03/07/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	221	111	200	0.292	
DRO >C10-C28*	<10.0	10.0	03/06/2024	ND	204	102	200	4.63	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 85.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.2 % 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:	03/05/2024	Sampling Date:	03/04/2024
Reported:	03/08/2024	Sampling Type:	Soil
Project Name:	FEDERAL 13 COM #002 (FED 13 )	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: SW - 11 3' (H241092-21)**

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	03/07/2024	ND	2.03	101	2.00	2.09	
Toluene*	<0.050	0.050	03/07/2024	ND	2.11	106	2.00	4.28	
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.18	109	2.00	6.04	
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.48	108	6.00	6.30	
Total BTEX	<0.300	0.300	03/07/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	03/07/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	221	111	200	0.292	
DRO >C10-C28*	<10.0	10.0	03/06/2024	ND	204	102	200	4.63	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 76.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.7 % 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:	03/05/2024	Sampling Date:	03/04/2024
Reported:	03/08/2024	Sampling Type:	Soil
Project Name:	FEDERAL 13 COM #002 (FED 13 )	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: SW - 12 4' (H241092-22)**

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	03/07/2024	ND	2.03	101	2.00	2.09	
Toluene*	<0.050	0.050	03/07/2024	ND	2.11	106	2.00	4.28	
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.18	109	2.00	6.04	
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.48	108	6.00	6.30	
Total BTEX	<0.300	0.300	03/07/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	03/07/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	221	111	200	0.292	
DRO >C10-C28*	<10.0	10.0	03/06/2024	ND	204	102	200	4.63	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 79.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/05/2024	Sampling Date:	03/04/2024
Reported:	03/08/2024	Sampling Type:	Soil
Project Name:	FEDERAL 13 COM #002 (FED 13 )	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: SW - 13 4' (H241092-23)**

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	03/07/2024	ND	2.03	101	2.00	2.09	
Toluene*	<0.050	0.050	03/07/2024	ND	2.11	106	2.00	4.28	
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.18	109	2.00	6.04	
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.48	108	6.00	6.30	
Total BTEX	<0.300	0.300	03/07/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	03/07/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	221	111	200	0.292	
DRO >C10-C28*	<10.0	10.0	03/06/2024	ND	204	102	200	4.63	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 82.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.5 % 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:	03/05/2024	Sampling Date:	03/04/2024
Reported:	03/08/2024	Sampling Type:	Soil
Project Name:	FEDERAL 13 COM #002 (FED 13 )	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: SW - 14 4' (H241092-24)**

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	03/07/2024	ND	2.03	101	2.00	2.09	
Toluene*	<0.050	0.050	03/07/2024	ND	2.11	106	2.00	4.28	
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.18	109	2.00	6.04	
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.48	108	6.00	6.30	
Total BTEX	<0.300	0.300	03/07/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	03/07/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	221	111	200	0.292	
DRO >C10-C28*	<10.0	10.0	03/06/2024	ND	204	102	200	4.63	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 78.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.4 % 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:	03/05/2024	Sampling Date:	03/04/2024
Reported:	03/08/2024	Sampling Type:	Soil
Project Name:	FEDERAL 13 COM #002 (FED 13 )	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: SW - 15 4' (H241092-25)**

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	03/07/2024	ND	2.12	106	2.00	3.34	
Toluene*	<0.050	0.050	03/07/2024	ND	2.11	106	2.00	3.02	
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.06	103	2.00	2.87	
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.23	104	6.00	2.64	
Total BTEX	<0.300	0.300	03/07/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	03/07/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	221	111	200	0.292	
DRO >C10-C28*	<10.0	10.0	03/06/2024	ND	204	102	200	4.63	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 84.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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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*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager



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

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

Company Name: <u>H+R Enterprises</u> Project Manager: <u>M. Collier</u>		<b>BILL TO</b> P.O. #: Company: <u>Cimarex Energy</u> Attn: <u>Laci Luig</u> Address: City: State:      Zip: Phone #: Fax #:	
Address: City:      State:      Zip: Phone #:      Fax #: Project #:      Project Owner: <u>Cimarex</u> Project Name: <u>Federal 13 Com 2 (Fed 13)</u> Project Location: <u>Eddy</u> Sampler Name: <u>R. Bell</u>		Fax #: State:      Zip: City: Phone #: Project #:	
FOR LAB USE ONLY			
Lab I.D. <u>H241092</u>	Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:	MATRIX PRESERV:
1 5-1 4' 1 2 5-2 2' 1 3 5-3 2' 1 4 5-4 2' 1 5 5-5 3' 1 6 5-6 3' 1 7 5-7 3' 1 8 5-8 3' 1 9 5-9 4' 1 10 5-10 4' 1	C 1 X X X X X X X X	X X X X X X X X X X	X X X X X X X X X X
DATE TIME <u>3/4/24</u>		ANALYSIS REQUEST <u>BTEX</u> <u>TPH</u> <u>Chlorides</u>	

PLEASE NOTE: Liability and Damages: Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruption, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: <u>R. Bell</u> Date: <u>3-5-24</u> Time: <u>14:17</u>	Received By: <u>Guiana Walker</u> Date: _____ Time: _____	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: All Results are emailed. Please provide email address:	REMARKS: <u>pg 1 of 3</u>
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Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C <u>4.8</u> Corrected Temp. °C	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Intact Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> No	CHECKED BY: (Initials) <u>W</u>	Turnaround Time: Thermometer ID #140 Correction Factor 0°C	Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Bacteria (only) Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No Intact Yes <input type="checkbox"/> No <input type="checkbox"/> No Corrected Temp. °C
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† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:		P.O. #:		ANALYSIS REQUEST	
Project Manager:		Company:			
Address:		Attn:			
City:		Address:			
Phone #:		City:			
Project #:		State:			
Project Name:		Phone #:			
Project Location:		Fax #:			
Sampler Name:		PRESERV:		SAMPLING	
FOR LAB USE ONLY		ACID/BASE:			
		ICE / COOL			
		OTHER:			
Lab I.D.		DATE		TIME	
Sample I.D.		DATE		TIME	
H241092		3/21/24			
11 SW-1 4'		<input checked="" type="checkbox"/> (G)RAB OR (C)OMP.		<input checked="" type="checkbox"/> BTEX	
12 SW-2 4'		# CONTAINERS		<input checked="" type="checkbox"/> TPH	
13 SW-3 4'		GROUNDWATER		<input checked="" type="checkbox"/> Chlorides	
14 SW-4 4'		WASTEWATER			
15 SW-5 2'		<input checked="" type="checkbox"/> SOIL			
16 SW-6 2'		OIL			
17 SW-7 2'		SLUDGE			
18 SW-8 3'		OTHER:			
19 SW-9 3'		ACID/BASE:			
20 SW-10 3'		ICE / COOL			
		OTHER:			
<p>PLEASE NOTE: Liability and Damages: Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated "terms or otherwise".</p>		<p>Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:</p> <p>All Results are emailed. Please provide Email address:</p>		<p>REMARKS:</p> <p>PS-2-093</p>	
Relinquished By: <i>R. Bell</i>		Received By: <i>Shirley</i>			
Date: 3-5-24		Date: 3/21/24			
Time: 1417		Time:			
Delivered By: (Circle One)		Observed Temp. °C		Sample Condition	
Sampler - UPS - Bus - Other:		Corrected Temp. °C		Cool <input type="checkbox"/> Intact <input type="checkbox"/>	
FORM-000-R-34-0711123		4.8		Yes <input type="checkbox"/> No <input type="checkbox"/>	
				Checked BY: <i>AB</i>	
				Turnaround Time:	
				Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	
				Bacteria (only) Sample Condition	
				Cool <input type="checkbox"/> Intact <input type="checkbox"/>	
				Yes <input type="checkbox"/> No <input type="checkbox"/>	
				Observed Temp. °C	
				Corrected Temp. °C	

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**CHAIN-OF-CUSTODY / ND ANALYSIS REQUEST**

Company Name: _____ Project Manager: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____ Project #: _____ Project Owner: _____ Project Name: (Fed 13) Project Location: _____ Sampler Name: _____ FOR LAB USE ONLY		<b>BILL TO</b> P.O. #: _____ Company: _____ Attn: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____		<b>ANALYSIS REQUEST</b>							
Lab I.D. <b>H241092</b>	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:	ACID/BASE: ICE / COOL OTHER:	DATE TIME	MATRIX PRESERV.	SAMPLING	BTEX TPH Chlorides	Turnaround Time: _____ Standard <input checked="" type="checkbox"/> Rush	Bacteria (only) Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No
21 SW-11 3' 22 SW-12 4' 23 SW-13 4' 24 SW-14 4' 25 SW-15 4' 26 SW-15 4'	         	         	         	         	         	3/1/24         	         	         	         	Observed Temp. °C <b>4.8</b> Corrected Temp. °C	Checked By: (Initials) _____
Relinquished By: <i>[Signature]</i> Date: 3-5-24 Time: 1417		Received By: <i>[Signature]</i> Date: _____ Time: _____		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: _____ All Results are emailed. Please provide Email address: _____		REMARKS: pg 3 of 3		Turnaround Time: _____ Thermometer ID #440 Correction Factor 0°C		Bacteria (only) Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	

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**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

QUESTIONS

Action 325672

**QUESTIONS**

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd, Ste 300N Midland, TX 79706	OGRID: 162683
	Action Number: 325672
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAB1719137473
Incident Name	NAB1719137473 FEDERAL 13 COM #002 @ 30-015-33344
Incident Type	Produced Water Release
Incident Status	Reclamation Report Received
Incident Well	[30-015-33344] FEDERAL 13 COM #002

<b>Location of Release Source</b>	
<i>Please answer all the questions in this group.</i>	
Site Name	FEDERAL 13 COM #002
Date Release Discovered	06/28/2017
Surface Owner	Federal

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

<b>Nature and Volume of Release</b>	
<i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i>	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Corrosion   Flow Line - Production   Produced Water   Released: 20 BBL   Recovered: 0 BBL   Lost: 20 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 325672

**QUESTIONS (continued)**

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd, Ste 300N Midland, TX 79706	OGRID: 162683
	Action Number: 325672
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	<b>No, according to supplied volumes this does not appear to be a "gas only" report.</b>
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	<b>No</b>
Reasons why this would be considered a submission for a notification of a major release	<i>Unavailable.</i>

*With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.*

**Initial Response**

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

The source of the release has been stopped	<b>True</b>
The impacted area has been secured to protect human health and the environment	<b>True</b>
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	<b>True</b>
All free liquids and recoverable materials have been removed and managed appropriately	<b>True</b>
If all the actions described above have not been undertaken, explain why	<i>Not answered.</i>

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

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

I hereby agree and sign off to the above statement	Name: Laci Luig Title: ES&H Specialist Email: DL_PermianEnvironmental@coterra.com Date: 03/21/2024
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QUESTIONS, Page 3

Action 325672

**QUESTIONS (continued)**

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd, Ste 300N Midland, TX 79706	OGRID: 162683
	Action Number: 325672
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

**QUESTIONS**

**Site Characterization**  
*Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.*

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 26 and 50 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 300 and 500 (ft.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Zero feet, overlying, or within area
Categorize the risk of this well / site being in a karst geology	High
A 100-year floodplain	Between 300 and 500 (ft.)
Did the release impact areas not on an exploration, development, production, or storage site	No

**Remediation Plan**

*Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.*

Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

**Soil Contamination Sampling:** (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride (EPA 300.0 or SM4500 Cl B)	2480
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0
GRO+DRO (EPA SW-846 Method 8015M)	0
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0

*Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.*

On what estimated date will the remediation commence	02/29/2024
On what date will (or did) the final sampling or liner inspection occur	03/04/2024
On what date will (or was) the remediation complete(d)	03/04/2024
What is the estimated surface area (in square feet) that will be reclaimed	106200
What is the estimated volume (in cubic yards) that will be reclaimed	177
What is the estimated surface area (in square feet) that will be remediated	1200
What is the estimated volume (in cubic yards) that will be remediated	177

*These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.*

*The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.*

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QUESTIONS, Page 4

Action 325672

**QUESTIONS (continued)**

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd, Ste 300N Midland, TX 79706	OGRID: 162683
	Action Number: 325672
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

**QUESTIONS**

**Remediation Plan (continued)**

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

**This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:**

(Select all answers below that apply.)

(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	LEA LAND LANDFILL [fEEM0112342028]
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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

I hereby agree and sign off to the above statement	Name: Laci Luig Title: ES&H Specialist Email: DL_PermianEnvironmental@coterra.com Date: 03/21/2024
--	---

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 5

Action 325672

**QUESTIONS (continued)**

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd, Ste 300N Midland, TX 79706	OGRID: 162683
	Action Number: 325672
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

**QUESTIONS**

**Deferral Requests Only**

*Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.*

Requesting a deferral of the remediation closure due date with the approval of this submission	No
--	----

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QUESTIONS, Page 6

Action 325672

**QUESTIONS (continued)**

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd, Ste 300N Midland, TX 79706	OGRID: 162683
	Action Number: 325672
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

**QUESTIONS**

<b>Sampling Event Information</b>	
Last sampling notification (C-141N) recorded	<b>318928</b>
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	<b>03/04/2024</b>
What was the (estimated) number of samples that were to be gathered	<b>10</b>
What was the sampling surface area in square feet	<b>1200</b>

**Remediation Closure Request**

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

Requesting a remediation closure approval with this submission	<b>Yes</b>
Have the lateral and vertical extents of contamination been fully delineated	<b>Yes</b>
Was this release entirely contained within a lined containment area	<b>No</b>
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	<b>Yes</b>
What was the total surface area (in square feet) remediated	<b>1200</b>
What was the total volume (cubic yards) remediated	<b>177</b>
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	<b>Yes</b>
What was the total surface area (in square feet) reclaimed	<b>106200</b>
What was the total volume (in cubic yards) reclaimed	<b>177</b>
Summarize any additional remediation activities not included by answers (above)	<b>Remediation completed, backfilled excavation with locally sourced clean topsoil/caliche. Re-reclaimed and recontoured entire well pad. Will reseed the area in May during Monsoon season.</b>

*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 (in .pdf format) 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.*

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.

I hereby agree and sign off to the above statement	Name: Laci Luig Title: ES&H Specialist Email: DL_PerminEnvironmental@coterra.com Date: 03/21/2024
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**District I**  
 1625 N. French Dr., Hobbs, NM 88240  
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**District II**  
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**District III**  
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**District IV**  
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 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**

QUESTIONS, Page 7

Action 325672

**QUESTIONS (continued)**

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd, Ste 300N Midland, TX 79706	OGRID: 162683
	Action Number: 325672
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

**QUESTIONS**

**Reclamation Report**

*Only answer the questions in this group if all reclamation steps have been completed.*

Requesting a reclamation approval with this submission	Yes
What was the total reclamation surface area (in square feet) for this site	106200
What was the total volume of replacement material (in cubic yards) for this site	177

*Per Paragraph (1) of Subsection D of 19.15.29.13 NMAC the reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. The soil cover must include a top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater.*

Is the soil top layer complete and is it suitable material to establish vegetation	Yes
On what (estimated) date will (or was) the reseeded commence(d)	05/01/2024

Summarize any additional reclamation activities not included by answers (above)	Remediation completed, backfilled excavation with locally sourced clean topsoil/caliche. Re-reclaimed and recontoured entire well pad. Will reseed the area in May during Monsoon season.
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*The responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseeded plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 NMAC.*

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.

I hereby agree and sign off to the above statement	Name: Laci Luig Title: ES&H Specialist Email: DL_PerminianEnvironmental@coterra.com Date: 03/21/2024
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QUESTIONS, Page 8

Action 325672

**QUESTIONS (continued)**

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd, Ste 300N Midland, TX 79706	OGRID: 162683
	Action Number: 325672
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

**QUESTIONS**

<b>Revegetation Report</b>	
<i>Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.</i>	
Requesting a restoration complete approval with this submission	No
<i>Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.</i>	

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CONDITIONS

Action 325672

**CONDITIONS**

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd, Ste 300N Midland, TX 79706	OGRID: 162683
	Action Number: 325672
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

**CONDITIONS**

Created By	Condition	Condition Date
crystal.walker	Closure Report Approved	3/25/2024
crystal.walker	The reclamation report needs to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	3/25/2024
crystal.walker	All revegetation activities will need to be documented and included in the revegetation report. The revegetation report will need to include: An executive summary of the revegetation activities including: Seed mix, Method of seeding, dates of when the release area was reseeded, information pertinent to inspections, information about any amendments added to the soil, information on how the vegetative cover established meets the life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds per 19.15.29.13 D.(3) NMAC, and any additional information; a scaled Site Map including area that was revegetated in square feet; and pictures of the revegetated areas during reseeding activities, inspections, and final pictures when revegetation is achieved. OR Per 19.15.29.13 E. NMAC, if a reclamation and revegetation report has been submitted to the surface owner, it may be used	3/25/2024
crystal.walker	if the requirements of the surface owner provide equal or better protection of freshwater, human health, and the environment. A copy of the approval of the reclamation and revegetation report from the surface owner and a copy of the approved reclamation and revegetation report will need to be submitted to the OCD via the Permitting website.	3/25/2024