



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

## Closure Report

Chief 30 State #009H  
Incident# nAPP2219259709  
Lea County, New Mexico

## Prepared For:

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

## Prepared By:

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

**November 8, 2022**

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

Subject: **Closure Report**  
Chief 30 State #009H  
Incident# nAPP2219259709  
Lea County, NM

Dear Mrs. Nobui,

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

### Site Information

The Chief 30 State #009H is located approximately 28.3 miles West of Hobbs, New Mexico. The legal location for this release is Unit Letter C, Section 30, Township 20 South and Range 35 East in Lea County, New Mexico. More specifically the latitude and longitude for the release are 32.550466 North and -103.498761 West. Site plans are presented in [Appendix I](#).

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

### Groundwater and Site Characterization

The New Mexico Office of the State Engineer web site indicates that the nearest reported depth to groundwater is 270-feet BGS. See [Appendix II](#) for the referenced groundwater data. Due to groundwater data not being current, an exploratory water bore was drilled on the Chief 30 State #003H location on August 30, 2022 to a total depth of 55-feet BGS. No groundwater was present the day of drilling. On September 02, 2022, gauging was performed and no groundwater was detected. See [Appendix II](#) for Water Bore Map and Soil Bore Log.

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

<b>Approximate Depth to Groundwater</b>	<b>270 Feet/BGS</b>
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<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Within 300 feet of any continuously flowing watercourse or any other significant watercourse
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Within 200 feet of any lakebed, sinkhole, or a playa lake
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Within 300 feet from an occupied permanent residence, school, hospital, institution, or church
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Within 1000 feet of any freshwater well or spring
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Within incorporated municipal boundaries or within a defined municipal freshwater well field covered under a municipal ordinance adopted pursuant to Section 3-2703 NMSA 1978
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Within 300 feet of a wetland
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Within the area overlying a subsurface mine
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Within an unstable area
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Within a 100-year floodplain

As this is a well being in an area with a depth to groundwater of greater 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**
51-100 feet	Chloride **	EPA 300.0 or SM4500 CIB	10,000 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2,500 mg/kg
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

### Incident Description

On July 11, 2022, a Baird back pressure valve on the wellhead developed a leak due to erosion causing 7 barrels (bbls) of crude oil and 5 bbls of produced water to be released onto the well pad. A total of 6 bbls of crude oil and 4 bbls of produced water were recovered.

## Site Assessment Activities

On September 27, 2022, H&R mobilized personnel to begin site assessment and sampling activities. A series of test trenches were utilized to delineate the release area vertically as well as horizontally. Test Trenches (TT-1 through TT-6) and Horizontals (H-1 through H-4) were utilized for horizontal and vertical delineation. Locations of test trenches and horizontal hand auger locations can be found on Site Assessment Map attached in [Appendix I](#).

Samples collected from the test trenches were transported to Cardinal Laboratory for analysis. Results from that analysis can be found in Table 1 below. Aerial photographs of the location and test trenches are attached in [Appendix IV](#). Complete laboratory reports can be found in [Appendix V](#).

Table 1: Initial Soil Samples Analysis

Sample ID	Sample Date	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
NMOCD Table 1 Closure Criteria 19.15.29 NMAC			50 mg/kg	10 mg/kg	1000 mg/kg		2500 mg/kg	2500 mg/kg	mg/kg
TT-1	9/27/2022	0-1'	ND	ND	ND	62.5	ND	62.5	1280
		2'	ND	ND	ND	ND	ND	0	80
		3'	ND	ND	ND	ND	ND	0	16
		4'	ND	ND	ND	ND	ND	0	32
TT-2	9/27/2022	0-1'	ND	ND	ND	ND	ND	0	80
		2'	ND	ND	ND	ND	ND	0	32
		3'	ND	ND	ND	ND	ND	0	112
		4'	ND	ND	ND	ND	ND	0	32
TT-3	9/27/2022	0-1'	ND	ND	ND	692	93.8	785.8	400
		2'	ND	ND	ND	ND	ND	0	32
		3'	ND	ND	ND	ND	ND	0	32
		4'	ND	ND	ND	ND	ND	0	32
TT-4	9/27/2022	0-1'	ND	ND	ND	985	129	1114	1090
		2'	ND	ND	ND	ND	ND	0	32
		3'	ND	ND	ND	ND	ND	0	32
		4'	ND	ND	ND	ND	ND	0	16
TT-5	9/27/2022	0-1'	ND	ND	ND	ND	ND	0	336
		2'	ND	ND	ND	ND	ND	0	16
		3'	ND	ND	ND	ND	ND	0	32
		4'	ND	ND	ND	ND	ND	0	16
TT-6	9/27/2022	0-1'	ND	ND	ND	431	70.2	501.2	544
		2'	ND	ND	ND	59.2	ND	59.2	32
		3'	ND	ND	ND	ND	ND	0	32
		4'	ND	ND	ND	ND	ND	0	16
H-1	10/25/2022	0-1'	ND	ND	ND	10.6	ND	10.6	192
H-2	10/25/2022	0-1'	ND	ND	ND	ND	ND	0	160
H-3	10/25/2022	0-1'	ND	ND	ND	ND	ND	0	64
H-4	10/25/2022	0-1'	ND	ND	ND	22	ND	22	208

ND = Analyte Not Detected TT = Test Trench H = Horizontal

## Closure

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

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

Respectfully submitted,

H&R Enterprises, LLC



Michael Collier  
Environmental Project Manager

### Attachments:

Appendix I Site Maps

Appendix II Soil Survey, Groundwater Data, Water Bore Map, Soil Bore Log

Appendix III Initial and Final C-141, NMOCD Correspondence

Appendix IV Photographic Documentation

Appendix V Laboratory Reports

# APPENDIX I

## SITE MAPS

## KARST MAP

## TOPOGRAPHIC MAP

## LOCATOR MAP

Chief 30 State #009H

Cimarex Energy Co.  
Incident #: nAPP2219259709  
Lea County, NM  
Site Assessment Map

**Legend**

- Horizontal Sample
- Spill Area
- Test Trench Sample
- Well Head



100 ft

A north arrow pointing upwards and a scale bar labeled '100 ft' are located in the bottom right corner of the map.

# Chief 30 State #009H

Cimarex Energy Co.  
Incident# nAPP2219259709  
Lea County, NM  
Karst Map

## Legend

-  Chief 30 State #009H
-  High
-  Low
-  Medium

 Chief 30 State #009H

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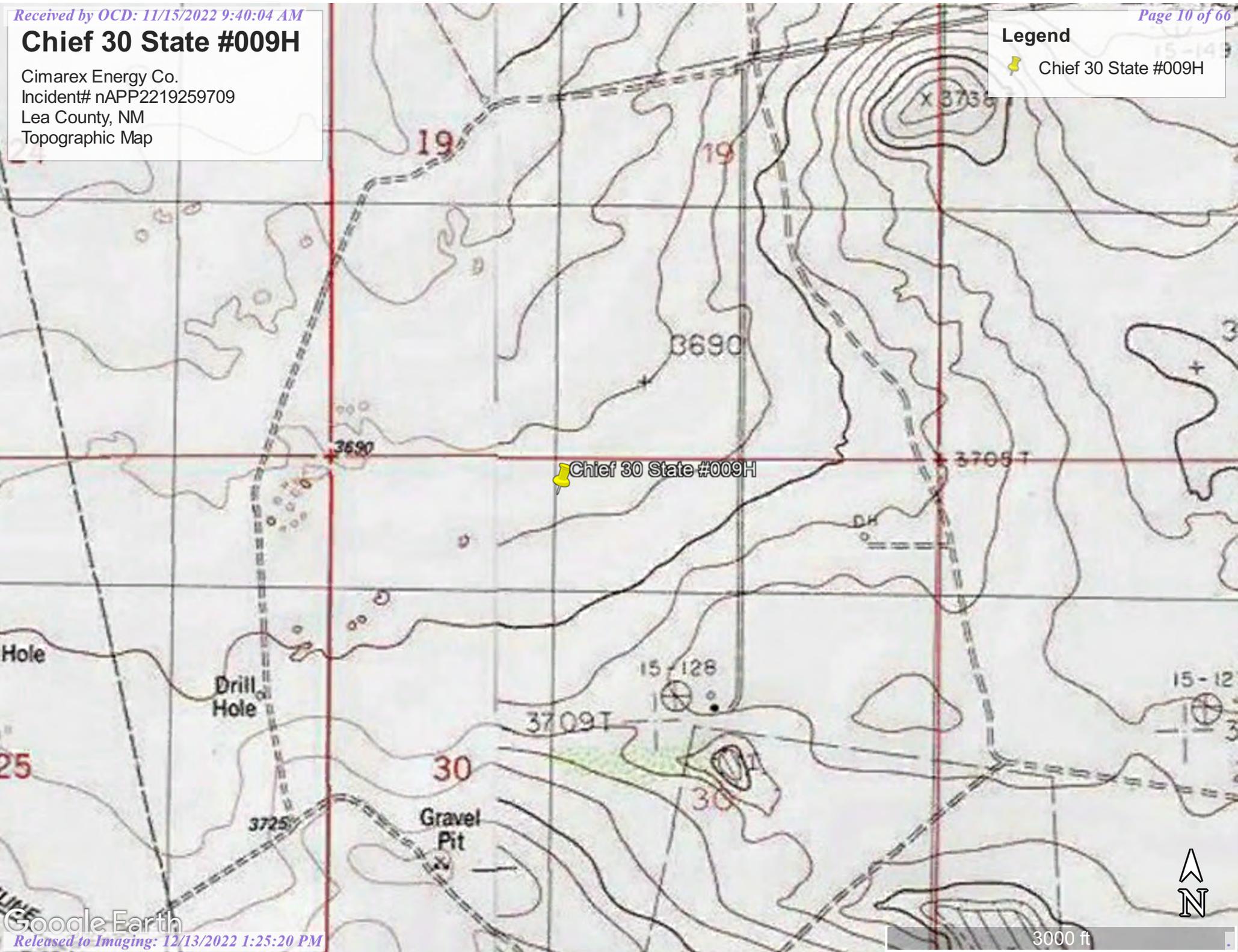
2 mi

# Chief 30 State #009H

Cimarex Energy Co.  
Incident# nAPP2219259709  
Lea County, NM  
Topographic Map

### Legend

 Chief 30 State #009H



# Chief 30 State #009H

Cimarex Energy Co.  
Incident# nAPP2219259709  
Lea County, NM  
Locator Map

## Legend

 Chief 30 State #009H

 Chief 30 State #009H

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# APPENDIX II

## GROUNDWATER DATA

### SOIL SURVEY

### WATER BORE MAP

### SOIL BORE LOG



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

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

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

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

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 4	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
<a href="#">CP.00665</a>		CP	LE	1	4	24	20S	34E	639740	3603128*		1391	698	270	428
<a href="#">CP.01204.POD1</a>		CP	LE	3	1	1	25	20S	34E	638755	3602250		2206	370	

Average Depth to Water: **270 feet**  
 Minimum Depth: **270 feet**  
 Maximum Depth: **270 feet**

**Record Count:** 2

**Basin/County Search:**

**County:** Lea

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

**Easting (X):** 640953.14

**Northing (Y):** 3602447

**Radius:** 3000

\*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.

10/6/22 9:53 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

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

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## Lea County, New Mexico

### PU—Pyote and Maljamar fine sands

#### Map Unit Setting

*National map unit symbol:* dmqq  
*Elevation:* 3,000 to 3,900 feet  
*Mean annual precipitation:* 10 to 12 inches  
*Mean annual air temperature:* 60 to 62 degrees F  
*Frost-free period:* 190 to 205 days  
*Farmland classification:* Not prime farmland

#### Map Unit Composition

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

#### Description of Pyote

##### Setting

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

##### Typical profile

*A - 0 to 30 inches:* fine sand  
*Bt - 30 to 60 inches:* fine sandy loam

##### Properties and qualities

*Slope:* 0 to 3 percent  
*Depth to restrictive feature:* More than 80 inches  
*Drainage class:* Well drained  
*Runoff class:* Negligible  
*Capacity of the most limiting layer to transmit water (Ksat):* High (2.00 to 6.00 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 5 percent  
*Gypsum, maximum content:* 1 percent  
*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)  
*Sodium adsorption ratio, maximum:* 2.0  
*Available water supply, 0 to 60 inches:* Low (about 5.1 inches)

##### Interpretive groups

*Land capability classification (irrigated):* 6e

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

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*Land capability classification (nonirrigated): 7s*  
*Hydrologic Soil Group: A*  
*Ecological site: R070BD003NM - Loamy Sand*  
*Hydric soil rating: No*

### **Description of Maljamar**

#### **Setting**

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

#### **Typical profile**

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

#### **Properties and qualities**

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

#### **Interpretive groups**

*Land capability classification (irrigated): 6e*  
*Land capability classification (nonirrigated): 7e*  
*Hydrologic Soil Group: B*  
*Ecological site: R070BD003NM - Loamy Sand*  
*Hydric soil rating: No*

### **Minor Components**

#### **Kermit**

*Percent of map unit: 10 percent*  
*Ecological site: R070BC022NM - Sandhills*

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

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*Hydric soil rating:* No

## Data Source Information

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

# Chief 30 State #009H

Cimarex Energy Co.  
Incident# nAPP2219259709  
Lea County, NM  
Water Bore Map

## Legend

 0.47 miles

 Chief 30 State #009H

 Exploratory Water Bore



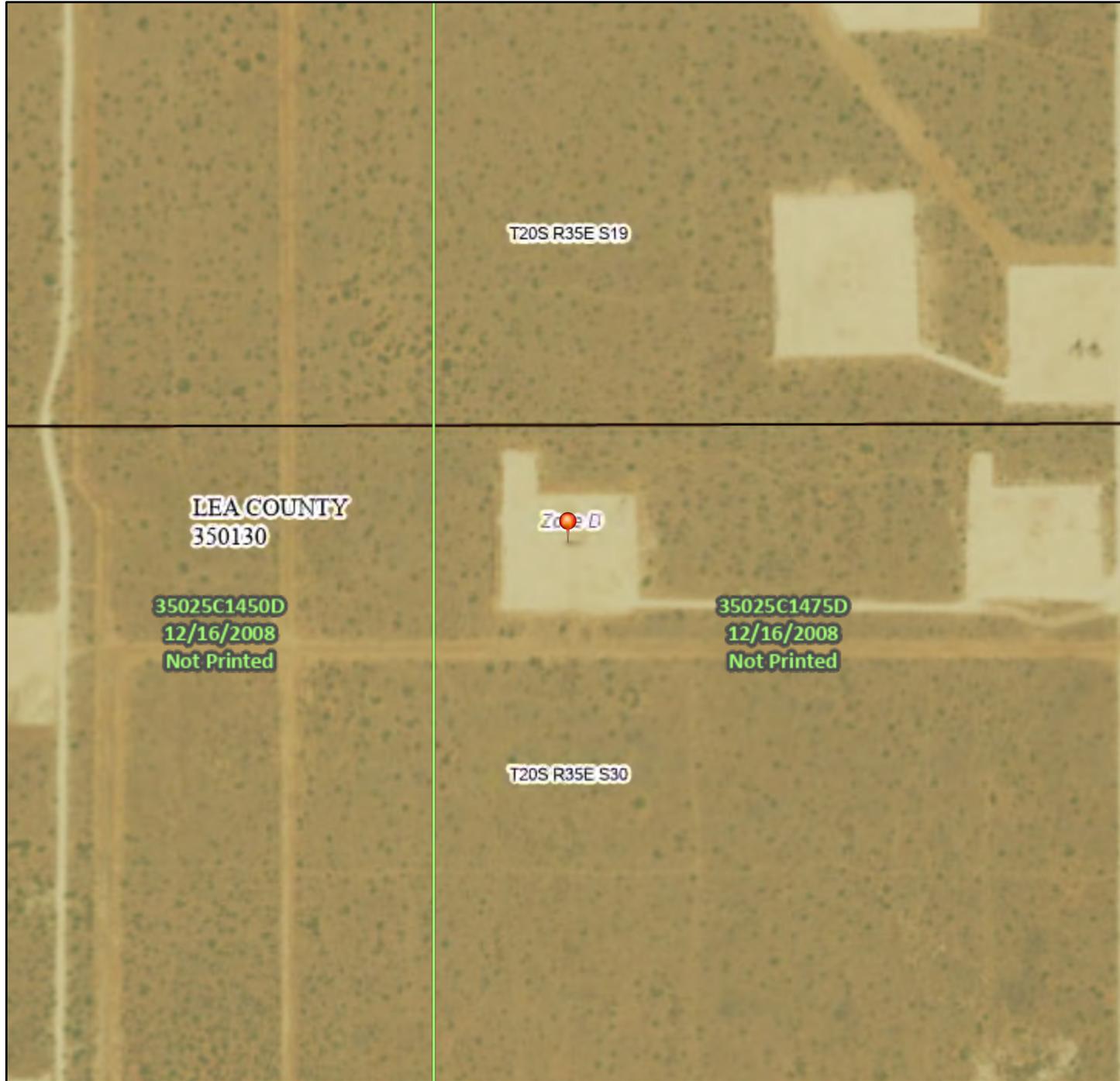
1000 ft



# National Flood Hazard Layer FIRMette



103°30'14"W 32°33'17"N



## Legend

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

<b>SPECIAL FLOOD HAZARD AREAS</b>		Without Base Flood Elevation (BFE) <i>Zone A, V, A99</i>
		With BFE or Depth <i>Zone AE, AO, AH, VE, AR</i> Regulatory Floodway
<b>OTHER AREAS OF FLOOD HAZARD</b>		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile <i>Zone X</i>
		Future Conditions 1% Annual Chance Flood Hazard <i>Zone X</i>
		Area with Reduced Flood Risk due to Levee. See Notes. <i>Zone X</i>
		Area with Flood Risk due to Levee <i>Zone D</i>
<b>OTHER AREAS</b>		NO SCREEN Area of Minimal Flood Hazard <i>Zone X</i>
		Effective LOMRs
<b>GENERAL STRUCTURES</b>		Area of Undetermined Flood Hazard <i>Zone D</i>
		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
<b>OTHER FEATURES</b>		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
<b>MAP PANELS</b>		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature
		Digital Data Available
		No Digital Data Available
		Unmapped
		The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.



103°29'37"W 32°32'47"N

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **10/6/2022 at 12:05 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.

# APPENDIX III

**INITIAL C-141**

**FINAL C-141**

**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

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

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

Incident ID	nAPP2219259709
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party: Cimarex Energy Co.	OGRID: 215099
Contact Name: Laci Luig	Contact Telephone: (432) 571-7800
Contact email: laci.luig@coterra.com	Incident # (assigned by OCD) nAPP2219259709
Contact mailing address: 600 N Marienfeld Street, Ste. 600 Midland, TX 79701	

### Location of Release Source

Latitude 32.55034 \_\_\_\_\_ Longitude -103.49827 \_\_\_\_\_  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Chief 30 State 9H	Site Type: Well Pad
Date Release Discovered: 7/11/2022	API# (if applicable) 30-025-44908

Unit Letter	Section	Township	Range	County
C	30	20S	35E	Lea

Surface Owner:  State  Federal  Tribal  Private (Name: \_\_\_\_\_)

### Nature and Volume of Release

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

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 7 bbls	Volume Recovered (bbls) 6 bbls
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 5 bbls	Volume Recovered (bbls) 4 bbls
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: Equipment Failure  
A Baird back pressure valve on the wellhead developed a leak due to erosion. Total released 7 bbls crude oil and 5 bbls produced water, recovered 10 bbls. Impacted soils will be remediated.

State of New Mexico  
Oil Conservation Division

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

### Initial Response

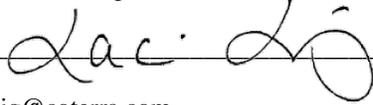
*The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury*

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

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

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

Printed Name: Laci Luig \_\_\_\_\_ Title: ESH Specialist \_\_\_\_\_  
 Signature:  \_\_\_\_\_ Date: 7/11/2022 \_\_\_\_\_  
 email: laci.luig@coterra.com \_\_\_\_\_ Telephone: (432) 208-3035 \_\_\_\_\_

**OCD Only**  
 Received by: Jocelyn Harimon \_\_\_\_\_ Date: 11/15/2022 \_\_\_\_\_

Incident ID	nAPP2219259709
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Facility ID	
Application ID	

## Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	>55 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

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

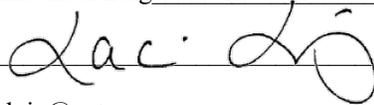
If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods,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

State of New Mexico  
Oil Conservation Division

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

Printed Name: Laci Luig \_\_\_\_\_ Title: ESH Specialist \_\_\_\_\_  
 Signature:  \_\_\_\_\_ Date: 11/11/2022 \_\_\_\_\_  
 email: laci.luig@coterra.com \_\_\_\_\_ Telephone: (432) 208-3035 \_\_\_\_\_

**OCD Only**

Received by: Jocelyn Harimon \_\_\_\_\_ Date: 11/15/2022 \_\_\_\_\_

Incident ID	nAPP2219259709
District RP	
Facility ID	
Application ID	

## Closure

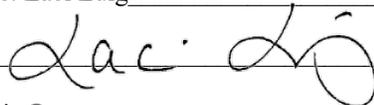
The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled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

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

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

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

Printed Name: Laci Luig Title: ESH Specialist

Signature:  Date: 11/11/2022

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

**OCD Only**

Received by: Jocelyn Harimon Date: 11/15/2022

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

Closure Approved by:  Date: 12/13/2022

Printed Name: Jennifer Nobui Title: Environmental Specialist A

# APPENDIX IV

# PHOTOGRAPHIC DOCUMENTATION

PHOTOGRAPHIC DOCUMENTATION

**CHIEF 30 STATE #009H TEST TRENCH PHOTO**



PHOTOGRAPHIC DOCUMENTATION

**CHIEF 30 STATE #009H WATER BORE PHOTO**



Cimarex Energy  
Chief 7H Water Bore  
09/07/2022 11:00 AM  
32 54602 -103 50371 (+20ft)  
Unnamed Road, New Mexico, USA

# APPENDIX V

## LABORATORY REPORTS



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

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September 29, 2022

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

RE: CHIEF 30 STATE #9H

Enclosed are the results of analyses for samples received by the laboratory on 09/27/22 11:45.

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".

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:	09/27/2022	Sampling Date:	09/27/2022
Reported:	09/29/2022	Sampling Type:	Soil
Project Name:	CHIEF 30 STATE #9H	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX (CHIEF #9)	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

**Sample ID: TT - 1 0-1' (H224475-01)**

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	09/28/2022	ND	2.08	104	2.00	11.2	
Toluene*	<0.050	0.050	09/28/2022	ND	2.02	101	2.00	10.0	
Ethylbenzene*	<0.050	0.050	09/28/2022	ND	1.92	95.9	2.00	11.7	
Total Xylenes*	<0.150	0.150	09/28/2022	ND	5.97	99.5	6.00	12.1	
Total BTEX	<0.300	0.300	09/28/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>1280</b>	16.0	09/28/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2022	ND	204	102	200	6.58	
<b>DRO &gt;C10-C28*</b>	<b>62.5</b>	10.0	09/28/2022	ND	218	109	200	14.3	
EXT DRO >C28-C36	<10.0	10.0	09/28/2022	ND					

Surrogate: 1-Chlorooctane 100 % 45.3-161

Surrogate: 1-Chlorooctadecane 124 % 46.3-178

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:	09/27/2022	Sampling Date:	09/27/2022
Reported:	09/29/2022	Sampling Type:	Soil
Project Name:	CHIEF 30 STATE #9H	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX (CHIEF #9)	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

**Sample ID: TT - 1 2' (H224475-02)**

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	09/28/2022	ND	2.08	104	2.00	11.2	
Toluene*	<0.050	0.050	09/28/2022	ND	2.02	101	2.00	10.0	
Ethylbenzene*	<0.050	0.050	09/28/2022	ND	1.92	95.9	2.00	11.7	
Total Xylenes*	<0.150	0.150	09/28/2022	ND	5.97	99.5	6.00	12.1	
Total BTEX	<0.300	0.300	09/28/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

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	09/28/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2022	ND	204	102	200	6.58	
DRO >C10-C28*	<10.0	10.0	09/28/2022	ND	218	109	200	14.3	
EXT DRO >C28-C36	<10.0	10.0	09/28/2022	ND					

Surrogate: 1-Chlorooctane 104 % 45.3-161

Surrogate: 1-Chlorooctadecane 121 % 46.3-178

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:	09/27/2022	Sampling Date:	09/27/2022
Reported:	09/29/2022	Sampling Type:	Soil
Project Name:	CHIEF 30 STATE #9H	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX (CHIEF #9)	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

**Sample ID: TT - 1 3' (H224475-03)**

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	09/28/2022	ND	2.08	104	2.00	11.2	
Toluene*	<0.050	0.050	09/28/2022	ND	2.02	101	2.00	10.0	
Ethylbenzene*	<0.050	0.050	09/28/2022	ND	1.92	95.9	2.00	11.7	
Total Xylenes*	<0.150	0.150	09/28/2022	ND	5.97	99.5	6.00	12.1	
Total BTEX	<0.300	0.300	09/28/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/28/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2022	ND	204	102	200	6.58	
DRO >C10-C28*	<10.0	10.0	09/28/2022	ND	218	109	200	14.3	
EXT DRO >C28-C36	<10.0	10.0	09/28/2022	ND					

Surrogate: 1-Chlorooctane 110 % 45.3-161

Surrogate: 1-Chlorooctadecane 131 % 46.3-178

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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:	09/27/2022	Sampling Date:	09/27/2022
Reported:	09/29/2022	Sampling Type:	Soil
Project Name:	CHIEF 30 STATE #9H	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX (CHIEF #9)	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

**Sample ID: TT - 1 4' (H224475-04)**

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	09/28/2022	ND	2.08	104	2.00	11.2	
Toluene*	<0.050	0.050	09/28/2022	ND	2.02	101	2.00	10.0	
Ethylbenzene*	<0.050	0.050	09/28/2022	ND	1.92	95.9	2.00	11.7	
Total Xylenes*	<0.150	0.150	09/28/2022	ND	5.97	99.5	6.00	12.1	
Total BTEX	<0.300	0.300	09/28/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/28/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2022	ND	204	102	200	6.58	
DRO >C10-C28*	<10.0	10.0	09/28/2022	ND	218	109	200	14.3	
EXT DRO >C28-C36	<10.0	10.0	09/28/2022	ND					

Surrogate: 1-Chlorooctane 98.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 118 % 46.3-178

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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:	09/27/2022	Sampling Date:	09/27/2022
Reported:	09/29/2022	Sampling Type:	Soil
Project Name:	CHIEF 30 STATE #9H	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX (CHIEF #9)	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

**Sample ID: TT - 2 0-1' (H224475-05)**

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	09/28/2022	ND	2.08	104	2.00	11.2	
Toluene*	<0.050	0.050	09/28/2022	ND	2.02	101	2.00	10.0	
Ethylbenzene*	<0.050	0.050	09/28/2022	ND	1.92	95.9	2.00	11.7	
Total Xylenes*	<0.150	0.150	09/28/2022	ND	5.97	99.5	6.00	12.1	
Total BTEX	<0.300	0.300	09/28/2022	ND					

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

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	09/28/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2022	ND	204	102	200	6.58	
DRO >C10-C28*	<10.0	10.0	09/28/2022	ND	218	109	200	14.3	
EXT DRO >C28-C36	<10.0	10.0	09/28/2022	ND					

Surrogate: 1-Chlorooctane 103 % 45.3-161

Surrogate: 1-Chlorooctadecane 122 % 46.3-178

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:	09/27/2022	Sampling Date:	09/27/2022
Reported:	09/29/2022	Sampling Type:	Soil
Project Name:	CHIEF 30 STATE #9H	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX (CHIEF #9)	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

**Sample ID: TT - 2 2' (H224475-06)**

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	09/29/2022	ND	2.11	105	2.00	10.9		
Toluene*	<0.050	0.050	09/29/2022	ND	2.07	104	2.00	13.3		
Ethylbenzene*	<0.050	0.050	09/29/2022	ND	1.95	97.6	2.00	11.3		
Total Xylenes*	<0.150	0.150	09/29/2022	ND	6.06	101	6.00	12.2		
Total BTEX	<0.300	0.300	09/29/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/28/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/28/2022	ND	204	102	200	6.58		
DRO >C10-C28*	<10.0	10.0	09/28/2022	ND	218	109	200	14.3		
EXT DRO >C28-C36	<10.0	10.0	09/28/2022	ND						

Surrogate: 1-Chlorooctane 97.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 116 % 46.3-178

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:	09/27/2022	Sampling Date:	09/27/2022
Reported:	09/29/2022	Sampling Type:	Soil
Project Name:	CHIEF 30 STATE #9H	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX (CHIEF #9)	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

**Sample ID: TT - 2 3' (H224475-07)**

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	09/29/2022	ND	2.11	105	2.00	10.9	
Toluene*	<0.050	0.050	09/29/2022	ND	2.07	104	2.00	13.3	
Ethylbenzene*	<0.050	0.050	09/29/2022	ND	1.95	97.6	2.00	11.3	
Total Xylenes*	<0.150	0.150	09/29/2022	ND	6.06	101	6.00	12.2	
Total BTEX	<0.300	0.300	09/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	09/28/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2022	ND	204	102	200	6.58	
DRO >C10-C28*	<10.0	10.0	09/28/2022	ND	218	109	200	14.3	
EXT DRO >C28-C36	<10.0	10.0	09/28/2022	ND					

Surrogate: 1-Chlorooctane 104 % 45.3-161

Surrogate: 1-Chlorooctadecane 125 % 46.3-178

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:	09/27/2022	Sampling Date:	09/27/2022
Reported:	09/29/2022	Sampling Type:	Soil
Project Name:	CHIEF 30 STATE #9H	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX (CHIEF #9)	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

**Sample ID: TT - 2 4' (H224475-08)**

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	09/29/2022	ND	2.11	105	2.00	10.9	
Toluene*	<0.050	0.050	09/29/2022	ND	2.07	104	2.00	13.3	
Ethylbenzene*	<0.050	0.050	09/29/2022	ND	1.95	97.6	2.00	11.3	
Total Xylenes*	<0.150	0.150	09/29/2022	ND	6.06	101	6.00	12.2	
Total BTEX	<0.300	0.300	09/29/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/28/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2022	ND	204	102	200	6.58	
DRO >C10-C28*	<10.0	10.0	09/28/2022	ND	218	109	200	14.3	
EXT DRO >C28-C36	<10.0	10.0	09/28/2022	ND					

Surrogate: 1-Chlorooctane 103 % 45.3-161

Surrogate: 1-Chlorooctadecane 124 % 46.3-178

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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:	09/27/2022	Sampling Date:	09/27/2022
Reported:	09/29/2022	Sampling Type:	Soil
Project Name:	CHIEF 30 STATE #9H	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX (CHIEF #9)	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

**Sample ID: TT - 3 0-1' (H224475-09)**

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	09/29/2022	ND	2.11	105	2.00	10.9	
Toluene*	<0.050	0.050	09/29/2022	ND	2.07	104	2.00	13.3	
Ethylbenzene*	<0.050	0.050	09/29/2022	ND	1.95	97.6	2.00	11.3	
Total Xylenes*	<0.150	0.150	09/29/2022	ND	6.06	101	6.00	12.2	
Total BTEX	<0.300	0.300	09/29/2022	ND					

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

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>400</b>	16.0	09/28/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2022	ND	204	102	200	6.58	
<b>DRO &gt;C10-C28*</b>	<b>692</b>	10.0	09/28/2022	ND	218	109	200	14.3	
<b>EXT DRO &gt;C28-C36</b>	<b>93.8</b>	10.0	09/28/2022	ND					

Surrogate: 1-Chlorooctane 103 % 45.3-161

Surrogate: 1-Chlorooctadecane 153 % 46.3-178

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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:	09/27/2022	Sampling Date:	09/27/2022
Reported:	09/29/2022	Sampling Type:	Soil
Project Name:	CHIEF 30 STATE #9H	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX (CHIEF #9)	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

**Sample ID: TT - 3 2' (H224475-10)**

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	09/29/2022	ND	2.11	105	2.00	10.9	
Toluene*	<0.050	0.050	09/29/2022	ND	2.07	104	2.00	13.3	
Ethylbenzene*	<0.050	0.050	09/29/2022	ND	1.95	97.6	2.00	11.3	
Total Xylenes*	<0.150	0.150	09/29/2022	ND	6.06	101	6.00	12.2	
Total BTEX	<0.300	0.300	09/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/28/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2022	ND	204	102	200	6.58	
DRO >C10-C28*	<10.0	10.0	09/28/2022	ND	218	109	200	14.3	
EXT DRO >C28-C36	<10.0	10.0	09/28/2022	ND					

Surrogate: 1-Chlorooctane 102 % 45.3-161

Surrogate: 1-Chlorooctadecane 121 % 46.3-178

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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:	09/27/2022	Sampling Date:	09/27/2022
Reported:	09/29/2022	Sampling Type:	Soil
Project Name:	CHIEF 30 STATE #9H	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX (CHIEF #9)	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

**Sample ID: TT - 3 3' (H224475-11)**

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	09/29/2022	ND	2.11	105	2.00	10.9	
Toluene*	<0.050	0.050	09/29/2022	ND	2.07	104	2.00	13.3	
Ethylbenzene*	<0.050	0.050	09/29/2022	ND	1.95	97.6	2.00	11.3	
Total Xylenes*	<0.150	0.150	09/29/2022	ND	6.06	101	6.00	12.2	
Total BTEX	<0.300	0.300	09/29/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/28/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2022	ND	191	95.6	200	2.01	
DRO >C10-C28*	<10.0	10.0	09/28/2022	ND	212	106	200	0.648	
EXT DRO >C28-C36	<10.0	10.0	09/28/2022	ND					

Surrogate: 1-Chlorooctane 89.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 97.1 % 46.3-178

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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:	09/27/2022	Sampling Date:	09/27/2022
Reported:	09/29/2022	Sampling Type:	Soil
Project Name:	CHIEF 30 STATE #9H	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX (CHIEF #9)	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

**Sample ID: TT - 3 4' (H224475-12)**

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	09/29/2022	ND	2.11	105	2.00	10.9	
Toluene*	<0.050	0.050	09/29/2022	ND	2.07	104	2.00	13.3	
Ethylbenzene*	<0.050	0.050	09/29/2022	ND	1.95	97.6	2.00	11.3	
Total Xylenes*	<0.150	0.150	09/29/2022	ND	6.06	101	6.00	12.2	
Total BTEX	<0.300	0.300	09/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/28/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2022	ND	191	95.6	200	2.01	
DRO >C10-C28*	<10.0	10.0	09/28/2022	ND	212	106	200	0.648	
EXT DRO >C28-C36	<10.0	10.0	09/28/2022	ND					

Surrogate: 1-Chlorooctane 93.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 101 % 46.3-178

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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:	09/27/2022	Sampling Date:	09/27/2022
Reported:	09/29/2022	Sampling Type:	Soil
Project Name:	CHIEF 30 STATE #9H	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX (CHIEF #9)	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

**Sample ID: TT - 4 0-1' (H224475-13)**

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	09/29/2022	ND	2.11	105	2.00	10.9	
Toluene*	<0.050	0.050	09/29/2022	ND	2.07	104	2.00	13.3	
Ethylbenzene*	<0.050	0.050	09/29/2022	ND	1.95	97.6	2.00	11.3	
Total Xylenes*	<0.150	0.150	09/29/2022	ND	6.06	101	6.00	12.2	
Total BTEX	<0.300	0.300	09/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

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>1090</b>	16.0	09/28/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2022	ND	191	95.6	200	2.01	
<b>DRO &gt;C10-C28*</b>	<b>985</b>	10.0	09/28/2022	ND	212	106	200	0.648	
<b>EXT DRO &gt;C28-C36</b>	<b>129</b>	10.0	09/28/2022	ND					

Surrogate: 1-Chlorooctane 81.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 107 % 46.3-178

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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: 09/27/2022  
 Reported: 09/29/2022  
 Project Name: CHIEF 30 STATE #9H  
 Project Number: CIMAREX (CHIEF #9)  
 Project Location: LEA COUNTY, NM

Sampling Date: 09/27/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: TT - 4 2' (H224475-14)**

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	09/29/2022	ND	2.11	105	2.00	10.9	
Toluene*	<0.050	0.050	09/29/2022	ND	2.07	104	2.00	13.3	
Ethylbenzene*	<0.050	0.050	09/29/2022	ND	1.95	97.6	2.00	11.3	
Total Xylenes*	<0.150	0.150	09/29/2022	ND	6.06	101	6.00	12.2	
Total BTEX	<0.300	0.300	09/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/28/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2022	ND	191	95.6	200	2.01	
DRO >C10-C28*	<10.0	10.0	09/28/2022	ND	212	106	200	0.648	
EXT DRO >C28-C36	<10.0	10.0	09/28/2022	ND					

Surrogate: 1-Chlorooctane 85.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 93.6 % 46.3-178

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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:	09/27/2022	Sampling Date:	09/27/2022
Reported:	09/29/2022	Sampling Type:	Soil
Project Name:	CHIEF 30 STATE #9H	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX (CHIEF #9)	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

**Sample ID: TT - 4 3' (H224475-15)**

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	09/29/2022	ND	2.11	105	2.00	10.9	
Toluene*	<0.050	0.050	09/29/2022	ND	2.07	104	2.00	13.3	
Ethylbenzene*	<0.050	0.050	09/29/2022	ND	1.95	97.6	2.00	11.3	
Total Xylenes*	<0.150	0.150	09/29/2022	ND	6.06	101	6.00	12.2	
Total BTEX	<0.300	0.300	09/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/28/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2022	ND	191	95.6	200	2.01	
DRO >C10-C28*	<10.0	10.0	09/28/2022	ND	212	106	200	0.648	
EXT DRO >C28-C36	<10.0	10.0	09/28/2022	ND					

Surrogate: 1-Chlorooctane 90.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 98.1 % 46.3-178

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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:	09/27/2022	Sampling Date:	09/27/2022
Reported:	09/29/2022	Sampling Type:	Soil
Project Name:	CHIEF 30 STATE #9H	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX (CHIEF #9)	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

**Sample ID: TT - 4 4' (H224475-16)**

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	09/29/2022	ND	2.11	105	2.00	10.9	
Toluene*	<0.050	0.050	09/29/2022	ND	2.07	104	2.00	13.3	
Ethylbenzene*	<0.050	0.050	09/29/2022	ND	1.95	97.6	2.00	11.3	
Total Xylenes*	<0.150	0.150	09/29/2022	ND	6.06	101	6.00	12.2	
Total BTEX	<0.300	0.300	09/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/28/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2022	ND	191	95.6	200	2.01	
DRO >C10-C28*	<10.0	10.0	09/28/2022	ND	212	106	200	0.648	
EXT DRO >C28-C36	<10.0	10.0	09/28/2022	ND					

Surrogate: 1-Chlorooctane 97.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 107 % 46.3-178

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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:	09/27/2022	Sampling Date:	09/27/2022
Reported:	09/29/2022	Sampling Type:	Soil
Project Name:	CHIEF 30 STATE #9H	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX (CHIEF #9)	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

**Sample ID: TT - 5 0-1' (H224475-17)**

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	09/29/2022	ND	2.11	105	2.00	10.9	
Toluene*	<0.050	0.050	09/29/2022	ND	2.07	104	2.00	13.3	
Ethylbenzene*	<0.050	0.050	09/29/2022	ND	1.95	97.6	2.00	11.3	
Total Xylenes*	<0.150	0.150	09/29/2022	ND	6.06	101	6.00	12.2	
Total BTEX	<0.300	0.300	09/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

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	09/28/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2022	ND	191	95.6	200	2.01	
DRO >C10-C28*	<10.0	10.0	09/28/2022	ND	212	106	200	0.648	
EXT DRO >C28-C36	<10.0	10.0	09/28/2022	ND					

Surrogate: 1-Chlorooctane 97.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 107 % 46.3-178

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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:	09/27/2022	Sampling Date:	09/27/2022
Reported:	09/29/2022	Sampling Type:	Soil
Project Name:	CHIEF 30 STATE #9H	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX (CHIEF #9)	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

**Sample ID: TT - 5 2' (H224475-18)**

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	09/29/2022	ND	2.11	105	2.00	10.9	
Toluene*	<0.050	0.050	09/29/2022	ND	2.07	104	2.00	13.3	
Ethylbenzene*	<0.050	0.050	09/29/2022	ND	1.95	97.6	2.00	11.3	
Total Xylenes*	<0.150	0.150	09/29/2022	ND	6.06	101	6.00	12.2	
Total BTEX	<0.300	0.300	09/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

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>16.0</b>	16.0	09/28/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2022	ND	191	95.6	200	2.01	
DRO >C10-C28*	<10.0	10.0	09/28/2022	ND	212	106	200	0.648	
EXT DRO >C28-C36	<10.0	10.0	09/28/2022	ND					

Surrogate: 1-Chlorooctane 98.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 106 % 46.3-178

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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:	09/27/2022	Sampling Date:	09/27/2022
Reported:	09/29/2022	Sampling Type:	Soil
Project Name:	CHIEF 30 STATE #9H	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX (CHIEF #9)	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

**Sample ID: TT - 5 3' (H224475-19)**

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	09/29/2022	ND	2.11	105	2.00	10.9		
Toluene*	<0.050	0.050	09/29/2022	ND	2.07	104	2.00	13.3		
Ethylbenzene*	<0.050	0.050	09/29/2022	ND	1.95	97.6	2.00	11.3		
Total Xylenes*	<0.150	0.150	09/29/2022	ND	6.06	101	6.00	12.2		
Total BTEX	<0.300	0.300	09/29/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/28/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/28/2022	ND	191	95.6	200	2.01		
DRO >C10-C28*	<10.0	10.0	09/28/2022	ND	212	106	200	0.648		
EXT DRO >C28-C36	<10.0	10.0	09/28/2022	ND						

Surrogate: 1-Chlorooctane 101 % 45.3-161

Surrogate: 1-Chlorooctadecane 110 % 46.3-178

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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: 09/27/2022  
 Reported: 09/29/2022  
 Project Name: CHIEF 30 STATE #9H  
 Project Number: CIMAREX (CHIEF #9)  
 Project Location: LEA COUNTY, NM

Sampling Date: 09/27/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: TT - 5 4' (H224475-20)**

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	09/29/2022	ND	2.11	105	2.00	10.9	
Toluene*	<0.050	0.050	09/29/2022	ND	2.07	104	2.00	13.3	
Ethylbenzene*	<0.050	0.050	09/29/2022	ND	1.95	97.6	2.00	11.3	
Total Xylenes*	<0.150	0.150	09/29/2022	ND	6.06	101	6.00	12.2	
Total BTEX	<0.300	0.300	09/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/28/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2022	ND	191	95.6	200	2.01	
DRO >C10-C28*	<10.0	10.0	09/28/2022	ND	212	106	200	0.648	
EXT DRO >C28-C36	<10.0	10.0	09/28/2022	ND					

Surrogate: 1-Chlorooctane 98.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 108 % 46.3-178

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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:	09/27/2022	Sampling Date:	09/27/2022
Reported:	09/29/2022	Sampling Type:	Soil
Project Name:	CHIEF 30 STATE #9H	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX (CHIEF #9)	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

**Sample ID: TT - 6 0-1' (H224475-21)**

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	09/29/2022	ND	2.11	105	2.00	10.9	
Toluene*	<0.050	0.050	09/29/2022	ND	2.07	104	2.00	13.3	
Ethylbenzene*	<0.050	0.050	09/29/2022	ND	1.95	97.6	2.00	11.3	
Total Xylenes*	<0.150	0.150	09/29/2022	ND	6.06	101	6.00	12.2	
Total BTEX	<0.300	0.300	09/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

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>544</b>	16.0	09/28/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2022	ND	191	95.6	200	2.01	
<b>DRO &gt;C10-C28*</b>	<b>431</b>	10.0	09/28/2022	ND	212	106	200	0.648	
<b>EXT DRO &gt;C28-C36</b>	<b>70.2</b>	10.0	09/28/2022	ND					

Surrogate: 1-Chlorooctane 93.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 133 % 46.3-178

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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:	09/27/2022	Sampling Date:	09/27/2022
Reported:	09/29/2022	Sampling Type:	Soil
Project Name:	CHIEF 30 STATE #9H	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX (CHIEF #9)	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

**Sample ID: TT - 6 2' (H224475-22)**

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	09/29/2022	ND	2.11	105	2.00	10.9	
Toluene*	<0.050	0.050	09/29/2022	ND	2.07	104	2.00	13.3	
Ethylbenzene*	<0.050	0.050	09/29/2022	ND	1.95	97.6	2.00	11.3	
Total Xylenes*	<0.150	0.150	09/29/2022	ND	6.06	101	6.00	12.2	
Total BTEX	<0.300	0.300	09/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

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>32.0</b>	16.0	09/28/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2022	ND	191	95.6	200	2.01	
<b>DRO &gt;C10-C28*</b>	<b>59.2</b>	10.0	09/28/2022	ND	212	106	200	0.648	
EXT DRO >C28-C36	<10.0	10.0	09/28/2022	ND					

Surrogate: 1-Chlorooctane 103 % 45.3-161

Surrogate: 1-Chlorooctadecane 118 % 46.3-178

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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:	09/27/2022	Sampling Date:	09/27/2022
Reported:	09/29/2022	Sampling Type:	Soil
Project Name:	CHIEF 30 STATE #9H	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX (CHIEF #9)	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

**Sample ID: TT - 6 3' (H224475-23)**

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	09/29/2022	ND	2.11	105	2.00	10.9	
Toluene*	<0.050	0.050	09/29/2022	ND	2.07	104	2.00	13.3	
Ethylbenzene*	<0.050	0.050	09/29/2022	ND	1.95	97.6	2.00	11.3	
Total Xylenes*	<0.150	0.150	09/29/2022	ND	6.06	101	6.00	12.2	
Total BTEX	<0.300	0.300	09/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/28/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2022	ND	191	95.6	200	2.01	
DRO >C10-C28*	<10.0	10.0	09/28/2022	ND	212	106	200	0.648	
EXT DRO >C28-C36	<10.0	10.0	09/28/2022	ND					

Surrogate: 1-Chlorooctane 98.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 107 % 46.3-178

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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: 09/27/2022  
 Reported: 09/29/2022  
 Project Name: CHIEF 30 STATE #9H  
 Project Number: CIMAREX (CHIEF #9)  
 Project Location: LEA COUNTY, NM

Sampling Date: 09/27/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: TT - 6 4' (H224475-24)**

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	09/29/2022	ND	2.11	105	2.00	10.9	
Toluene*	<0.050	0.050	09/29/2022	ND	2.07	104	2.00	13.3	
Ethylbenzene*	<0.050	0.050	09/29/2022	ND	1.95	97.6	2.00	11.3	
Total Xylenes*	<0.150	0.150	09/29/2022	ND	6.06	101	6.00	12.2	
Total BTEX	<0.300	0.300	09/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/28/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2022	ND	191	95.6	200	2.01	
DRO >C10-C28*	<10.0	10.0	09/28/2022	ND	212	106	200	0.648	
EXT DRO >C28-C36	<10.0	10.0	09/28/2022	ND					

Surrogate: 1-Chlorooctane 96.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 106 % 46.3-178

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\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
\*\* Samples not received at proper temperature of 6°C or below.
\*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager





CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: **H+R ENTERPRISES**  
 Project Manager: **H. Couper**

P.O. #:   
 Company: **CINAREX**  
 Attn: **Laci Lyle**

ANALYSIS REQUEST

Address:   
 City:   
 State:   
 Zip:   
 Phone #:   
 Fax #:   
 Project #:   
 Project Owner: **CINAREX**  
 Project Name: **CHIEF 30 ST, 9H** **(CHIEF #9)**  
 Project Location:   
 Sampler Name:   
 FOR LAB USE ONLY

Address:   
 City:   
 State:   
 Zip:   
 Phone #:   
 Fax #:   
 PRESERV:   
 DATE: **9-27-22**

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	BTEX	TPH	CHLORIDES
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:					
<i>H224475</i>															
11	TT-3 3'		1									X	X	X	
12	TT-3 4'		1									X	X	X	
13	TT-4 0-1'		1									X	X	X	
14	TT-4 2'		1									X	X	X	
15	TT-4 3-4B 3'		1									X	X	X	
16	TT-4 4'		1									X	X	X	
17	TT-5 0-1'		1									X	X	X	
18	TT-5 2'		1									X	X	X	
19	TT-5 3'		1									X	X	X	
20	TT-5 4'		1									X	X	X	

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Relinquished By: *[Signature]*  
 Date: **11/15**  
 Received By: *[Signature]*  
 Date: **9-27-22**  
 Time: **1145**

Turnaround Time: **Standard**  **Rush**   
 Verbal Result:  Yes  No **Add'l Phone #:**  
 All Results are emailed. Please provide Email address:  
 REMARKS:

Delivered By: (Circle One) **UPS**  **Bus**  **Other**   
 Observed Temp. °C: **3.8**  
 Corrected Temp. °C: **3.2**  
 Sample Condition:  Intact  Cool  Yes  No  Yes  No  
 CHECKED BY: *[Signature]*  
 Turnaround Time: **Standard**  **Rush**   
 Thermometer ID #113  
 Correction Factor -0.6°C  
 Bacteria (only)  **Cool Intact**  **Sample Condition**   
 Observed Temp. °C: **3.8**  
 Corrected Temp. °C: **3.2**

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



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

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

Company Name: <b>H&amp;R ENTERPRISES</b> Project Manager: <b>M. COLLIER</b>		P.O. #: _____ Company: <b>CIMAREX</b> Attn: <b>LAKU LUU G</b>	
Address: _____ City: _____ State: _____ Zip: _____		Address: _____ City: _____ State: _____ Zip: _____	
Phone #: _____ Fax #: _____ Project #: _____ Project Owner: <b>CIMAREX</b>		State: _____ Zip: _____ Phone #: _____ Fax #: _____	
Project Name: <b>CHIEF 30 ST. #609H (CHIEF #9)</b> Project Location: _____		Project Name: _____ Project Location: _____	
Sampler Name: _____ FOR LAB USE ONLY		Matrix: _____ Preservation: _____ Sampling: _____	
Lab I.D.: _____ Sample I.D.: _____	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: _____	ACID/BASE: ICE / COOL OTHER: _____	DATE TIME
21 TT 6 b-1' 22 TT 6 2' 23 TT 6 3' 24 TT 6 4' H224475	6 1 1 1	X X X X	9-27-22 _____ _____
ANALYSIS REQUEST BTX TPH CHLORIDES			

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Relinquished By: \_\_\_\_\_  
 Date: 9-27-22  
 Time: 7:45

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

Delivered By: (Circle One) Observed Temp. °C: 3.8 Corrected Temp. °C: 3.2  
 Sampler - UPS - Bus - Other: \_\_\_\_\_

Sample Condition: Cool Intact  Yes  No  
 Checked By: (Initials) \_\_\_\_\_

Turnaround Time: Standard  Rush   
 Bacteria (only) Sample Condition: Cool Intact  Yes  No  
 Corrected Temp. °C: \_\_\_\_\_

REMARKS: \_\_\_\_\_

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

† Cardinal cannot accept verbal changes. Please email changes to [celley.keene@cardinallabsnm.com](mailto:celley.keene@cardinallabsnm.com)



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

---

October 31, 2022

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

RE: CHIEF 30 STATE #9H

Enclosed are the results of analyses for samples received by the laboratory on 10/25/22 13:57.

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".

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:	10/25/2022	Sampling Date:	10/25/2022
Reported:	10/31/2022	Sampling Type:	Soil
Project Name:	CHIEF 30 STATE #9H	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX (CHIEF #9)	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NM		

**Sample ID: H - 1 0-1' (H225012-01)**

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	10/31/2022	ND	1.93	96.6	2.00	3.73	
Toluene*	<0.050	0.050	10/31/2022	ND	2.13	107	2.00	2.06	
Ethylbenzene*	<0.050	0.050	10/31/2022	ND	2.03	102	2.00	2.15	
Total Xylenes*	<0.150	0.150	10/31/2022	ND	6.16	103	6.00	2.92	
Total BTEX	<0.300	0.300	10/31/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>192</b>	16.0	10/28/2022	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	10/28/2022	ND	195	97.4	200	4.35	
<b>DRO &gt;C10-C28*</b>	<b>10.6</b>	10.0	10/28/2022	ND	180	90.1	200	0.0649	
EXT DRO >C28-C36	<10.0	10.0	10/28/2022	ND					

Surrogate: 1-Chlorooctane 96.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 108 % 46.3-178

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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:	10/25/2022	Sampling Date:	10/25/2022
Reported:	10/31/2022	Sampling Type:	Soil
Project Name:	CHIEF 30 STATE #9H	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX (CHIEF #9)	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NM		

**Sample ID: H - 2 0-1' (H225012-02)**

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	10/31/2022	ND	1.93	96.6	2.00	3.73	
Toluene*	<0.050	0.050	10/31/2022	ND	2.13	107	2.00	2.06	
Ethylbenzene*	<0.050	0.050	10/31/2022	ND	2.03	102	2.00	2.15	
Total Xylenes*	<0.150	0.150	10/31/2022	ND	6.16	103	6.00	2.92	
Total BTEX	<0.300	0.300	10/31/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 69.9-140

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>160</b>	16.0	10/28/2022	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	10/28/2022	ND	195	97.4	200	4.35	
DRO >C10-C28*	<10.0	10.0	10/28/2022	ND	180	90.1	200	0.0649	
EXT DRO >C28-C36	<10.0	10.0	10/28/2022	ND					

Surrogate: 1-Chlorooctane 86.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 96.6 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	10/25/2022	Sampling Date:	10/25/2022
Reported:	10/31/2022	Sampling Type:	Soil
Project Name:	CHIEF 30 STATE #9H	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX (CHIEF #9)	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NM		

**Sample ID: H - 3 0-1' (H225012-03)**

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	10/31/2022	ND	1.93	96.6	2.00	3.73		
Toluene*	<0.050	0.050	10/31/2022	ND	2.13	107	2.00	2.06		
Ethylbenzene*	<0.050	0.050	10/31/2022	ND	2.03	102	2.00	2.15		
Total Xylenes*	<0.150	0.150	10/31/2022	ND	6.16	103	6.00	2.92		
Total BTEX	<0.300	0.300	10/31/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 69.9-140

Chloride, SM4500Cl-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	10/28/2022	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	10/28/2022	ND	195	97.4	200	4.35		
DRO >C10-C28*	<10.0	10.0	10/28/2022	ND	180	90.1	200	0.0649		
EXT DRO >C28-C36	<10.0	10.0	10/28/2022	ND						

Surrogate: 1-Chlorooctane 104 % 45.3-161

Surrogate: 1-Chlorooctadecane 114 % 46.3-178

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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:	10/25/2022	Sampling Date:	10/25/2022
Reported:	10/31/2022	Sampling Type:	Soil
Project Name:	CHIEF 30 STATE #9H	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX (CHIEF #9)	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NM		

**Sample ID: H - 4 0-1' (H225012-04)**

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	10/31/2022	ND	1.93	96.6	2.00	3.73	
Toluene*	<0.050	0.050	10/31/2022	ND	2.13	107	2.00	2.06	
Ethylbenzene*	<0.050	0.050	10/31/2022	ND	2.03	102	2.00	2.15	
Total Xylenes*	<0.150	0.150	10/31/2022	ND	6.16	103	6.00	2.92	
Total BTEX	<0.300	0.300	10/31/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 69.9-140

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>208</b>	16.0	10/28/2022	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	10/28/2022	ND	195	97.4	200	4.35	
<b>DRO &gt;C10-C28*</b>	<b>22.0</b>	10.0	10/28/2022	ND	180	90.1	200	0.0649	
EXT DRO >C28-C36	<10.0	10.0	10/28/2022	ND					

Surrogate: 1-Chlorooctane 95.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 107 % 46.3-178

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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, Lab Director/Quality Manager



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 (575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: **H.R. ENTERPRISES** P.O. #: **BILL TO**  
 Project Manager: **N. Couper** Company: **CMAREX**  
 Address: Attn: **LACY LUTZ**

City: State: Zip: Address: City: State: Zip: Phone #: Fax #: Project Name: **CHIEF 30 ST. #94 (CHIEF #9)** City: State: Zip: Project Location: **LEA COUNTY, NM** Phone #: Fax #: Sampler Name: **R. BEL**

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	TPH	BTEX	CHLORIDES
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
H23501a	H-1 0-1'	6	1			X				10-15-22		X	X	X
	H-2 0-1'													
	H-3 0-1'													
	H-4 0-1'													
	H-5 0-1'													
	H-6													

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 analysis. 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 reasons or otherwise.

Relinquished By: **R. Bel** Date: **10-25-22** Received By: **Shodeignery** Time: **1357**  
 Date: Received By: Time: Verbal Result:  Yes  No Add'l Phone #:  
 All Results are emailed. Please provide Email address: REMARKS:

Delivered By: (Circle One) Observed Temp. °C: **0.42** Sample Condition:  Cool  Intact  Yes  No CHECKED BY: **SR**  
 Sampler - UPS - Bus - Other: Corrected Temp. °C: **-0.22** Sample Condition:  Cool  Intact  Yes  No  
 Turnaround Time: Standard  Rush  Bacteria (only) Sample Condition:  Cool  Intact  Yes  No Observed Temp. °C:  Yes  No Corrected Temp. °C:  Yes  No

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

CONDITIONS

Action 158831

**CONDITIONS**

Operator: CIMAREX ENERGY CO. 600 N. Marienfeld Street Midland, TX 79701	OGRID: 215099
	Action Number: 158831
	Action Type: [C-141] Release Corrective Action (C-141)

**CONDITIONS**

Created By	Condition	Condition Date
jnobui	Closure Report Approved. Please implement 19.15.29.13 NMAC when completing P&A.	12/13/2022