



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

## Site Assessment and Closure Report

Chief 30 State #001  
Incident# NJXK1526849729  
Lea County, New Mexico

### Prepared For:

Cimarex Energy Co.  
6000 Deauville Blvd. Suite 300N  
Midland, TX 79706

### Prepared By:

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

**July 6, 2023**

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

Subject: **Site Assessment and Closure Report**  
Chief 30 State #001  
Lea County, NM

Dear Mr. Bratcher,

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 #001 is located approximately 28.5 miles Southwest of Hobbs, New Mexico. The legal location for this release is Unit Letter M, Section 30, Township 20 South and Range 35 East in Lea County, New Mexico. More specifically the latitude and longitude for the release are 32.538753 North and -103.504077 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 Kimbrough gravelly loam, 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 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	270 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

Due to groundwater data not being within the recommended 0.5-mile radius an exploratory water bore was drilled on the Chief 30 State #003H well pad approximately 0.46-miles to the North. The water bore was drilled to a total depth of 55-feet BGS. No groundwater was encountered during drilling nor 72-hours after drilling. Since no groundwater was encountered, the closure criteria for this site are as follows:

Table I			
Closure Criteria for Soils Impacted by a Release			
Minimum depth below any point within the horizontal boundary of the release to ground water less than 10,000 mg/l TDS	Constituent	Method*	Limit**
50-100 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 September 24, 2015, A poly flow line over pressured due to the line plugging up coming from the well causing the release of 65 barrels (bbls) of produced water onto the well pad and pasture behind the tank battery containment. A total of 40 bbls were recovered.

## Site Assessment and Activities

H&R mobilized personnel to begin site assessment and sampling activities of the release area. Grab samples were obtained by way of drilling 6 sampling bore holes. Samples collected were transported to Cardinal Laboratories for analysis. The results of that analysis are presented in the following data table. Initial site assessment sampling locations are illustrated on Site Assessment Map, [Appendix I](#). Photographic documentation of the location are attached in [Appendix IV](#). Complete laboratory reports can be found in [Appendix V](#).

Table 1: Initial Soil Samples Analysis

Sample ID	Sample Date	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
NMOCD Table 1 Closure Criteria 19.15.29 NMAC			50 mg/kg	10 mg/kg	1000 mg/kg		2500 mg/kg	2500 mg/kg	10,000 mg/kg
BH-1	5/3/2023	0-1'	ND	ND	ND	ND	ND	0	176
		2'	ND	ND	ND	ND	ND	0	896
		3'	ND	ND	ND	ND	ND	0	352
		4'	ND	ND	ND	ND	ND	0	208
BH-2	5/3/2023	0-1'	ND	ND	ND	ND	ND	0	272
		2'	ND	ND	ND	ND	ND	0	496
		3'	ND	ND	ND	ND	ND	0	672
		4'	ND	ND	ND	ND	ND	0	144
BH-3	5/3/2023	0-1'	ND	ND	ND	ND	ND	0	128
		2'	ND	ND	ND	ND	ND	0	144
		3'	ND	ND	ND	ND	ND	0	96
		4'	ND	ND	ND	ND	ND	0	80
BH-4	5/3/2023	0-1'	ND	ND	ND	ND	ND	0	160
		2'	ND	ND	ND	ND	ND	0	112
		3'	ND	ND	ND	ND	ND	0	128
		4'	ND	ND	ND	ND	ND	0	80
BH-5	5/3/2023	0-1'	ND	ND	ND	ND	ND	0	16
		2'	ND	ND	ND	ND	ND	0	48
		3'	ND	ND	ND	ND	ND	0	128
		4'	ND	ND	ND	ND	ND	0	352
BH-6	5/3/2023	0-1'	ND	ND	ND	ND	ND	0	80
		2'	ND	ND	ND	ND	ND	0	144
		3'	ND	ND	ND	ND	ND	0	112
		4'	ND	ND	ND	ND	ND	0	144
H-1	5/3/2023	0-1'	ND	ND	ND	ND	ND	0	16
H-2	5/3/2023	0-1'	ND	ND	ND	ND	ND	0	32
H-3	5/3/2023	0-1'	ND	ND	ND	ND	ND	0	ND
H-4	5/3/2023	0-1'	ND	ND	ND	ND	ND	0	ND
H-5	5/3/2023	0-1'	ND	ND	ND	ND	ND	0	16
H-6	5/3/2023	0-1'	ND	ND	ND	ND	ND	0	16
H-7	5/3/2023	0-1'	ND	ND	ND	ND	ND	0	16
ND = Analyte Not Detected BH = Vertical Bore Hole Sample H = Horizontal Sample									

Based on our site assessment results it has been determined that full horizontal and vertical delineation was achieved and that no remediation is needed for this incident.

### Closure

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

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

Respectfully submitted,

H&R Enterprises, LLC

*Michael Collier*

Michael Collier  
Environmental Project Manager

### Attachments:

Appendix I Site Maps

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

Appendix III Initial and Final C-141

Appendix IV Photographic Documentation

Appendix V Laboratory Reports

# **APPENDIX I**

## **SITE MAPS**

### **KARST MAP**

### **TOPOGRAPHIC MAP**

### **LOCATOR MAP**

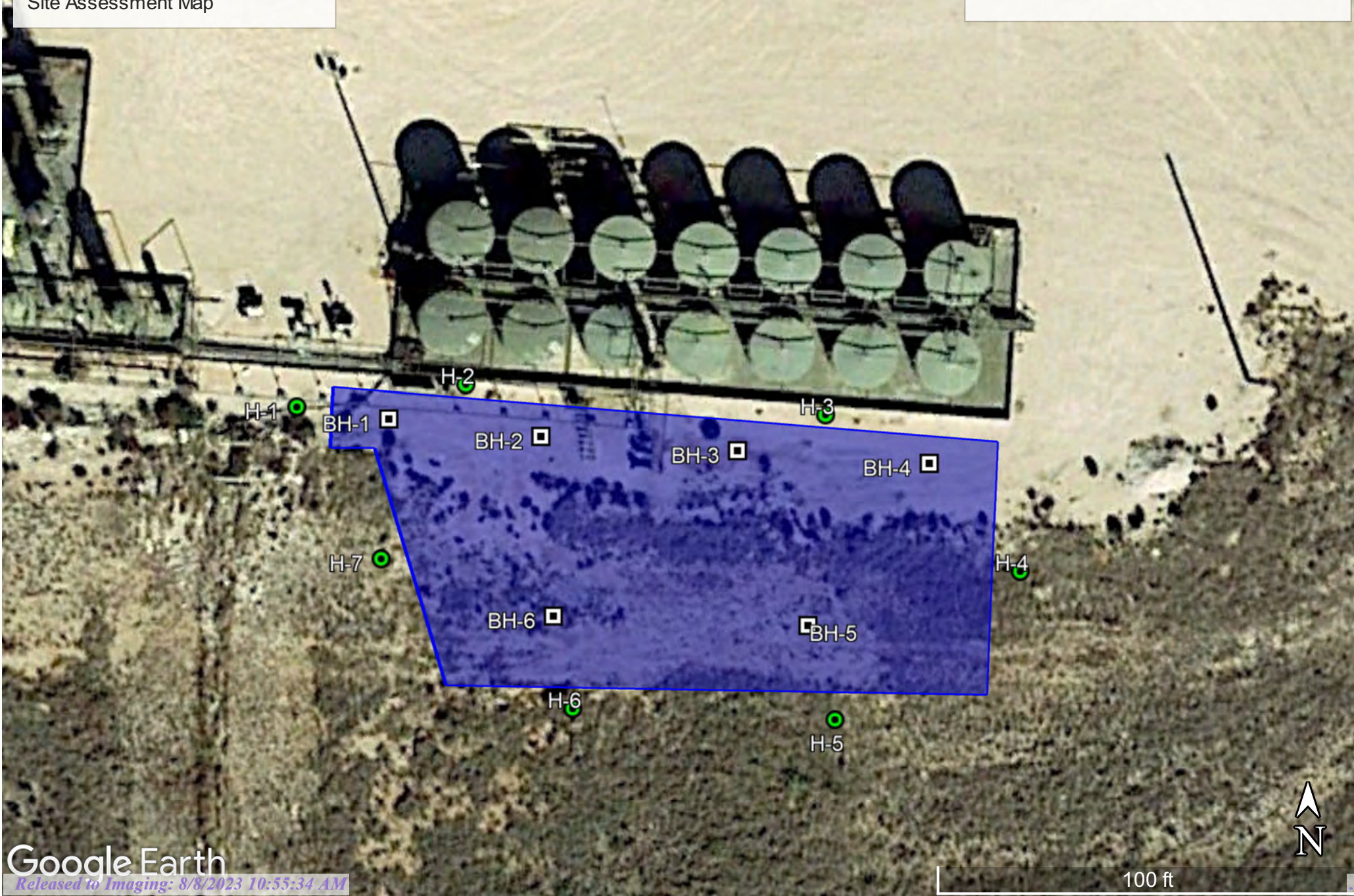


# Chief 30 State #001

Cimarex Energy Co.  
Incident# NJXK1526849729  
Lea County, NM  
Site Assessment Map

## Legend

- Horizontal Sample Point
- NJX1526843729 2015 Release Area
- Vertical Bore Hole Sample Point





# Chief 30 State #001

Cimarex Energy Co.  
Incident# nJXK1526849729  
Lea County, NM  
Karst Map

## Legend

-  Chief 30 State #001
-  High
-  Low
-  Medium

32 Monument

Chief 30 State #001

Oil Center

8

176

176

176

180

62



8 mi


Google Earth

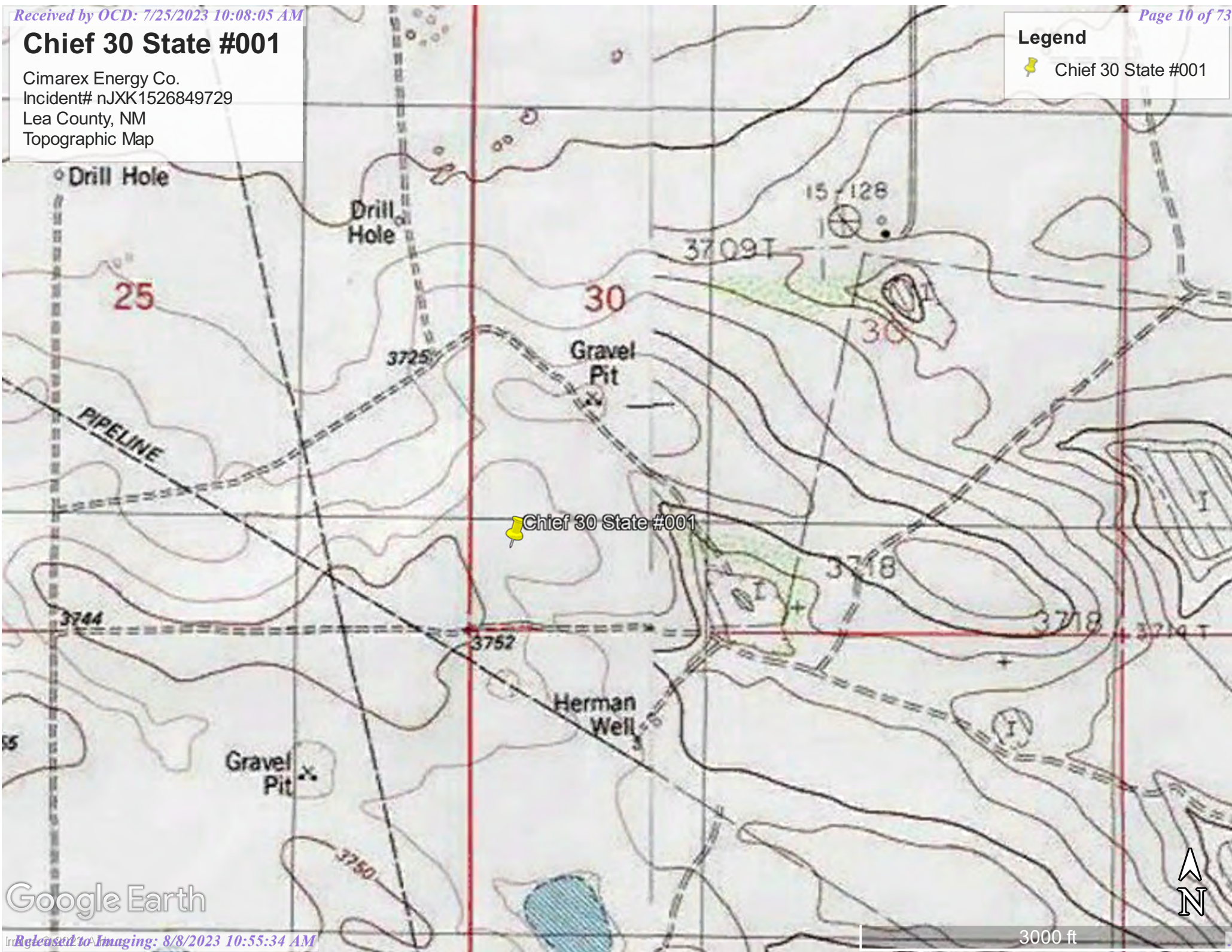


# Chief 30 State #001

Cimarex Energy Co.  
Incident# nJXK1526849729  
Lea County, NM  
Topographic Map

## Legend

 Chief 30 State #001




Google Earth

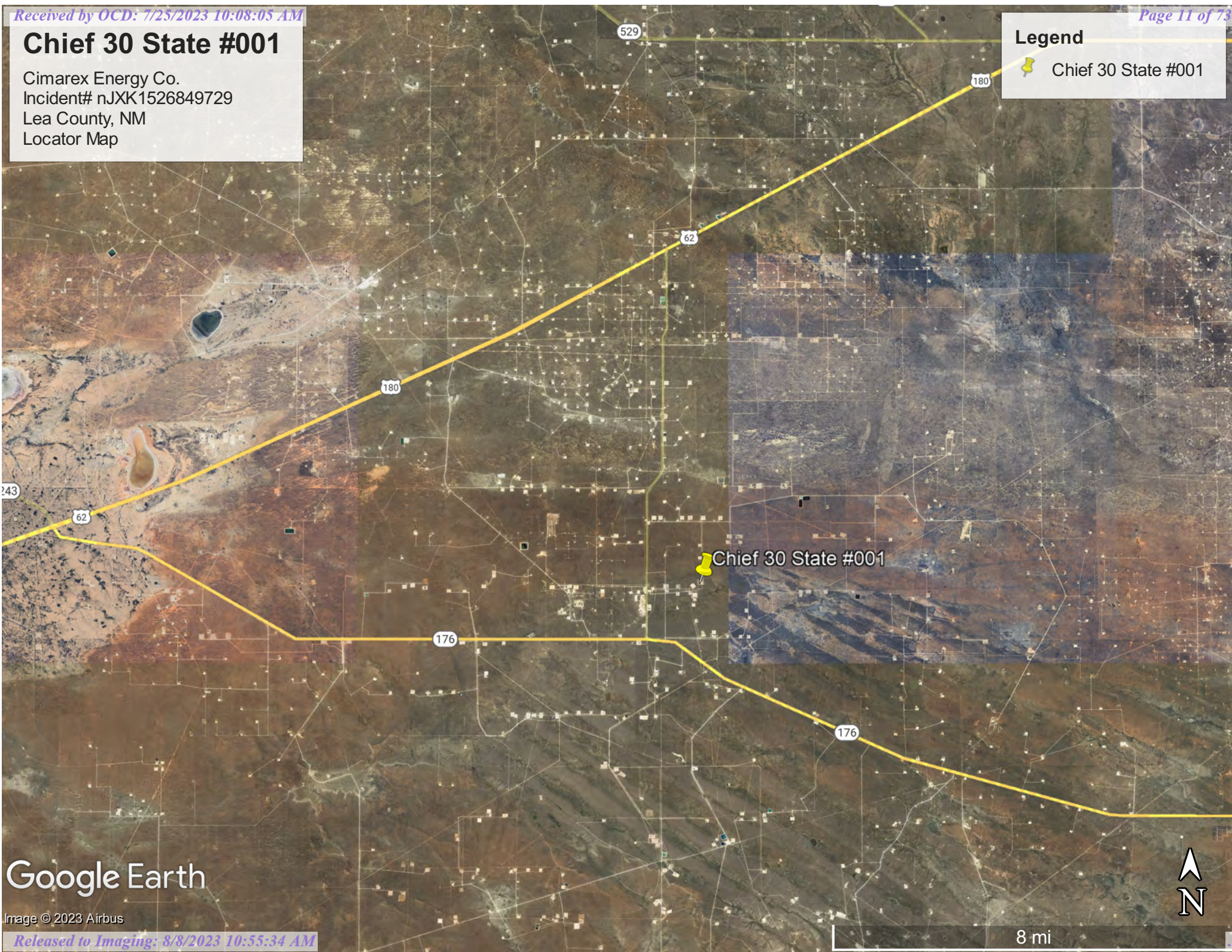


# Chief 30 State #001

Cimarex Energy Co.  
Incident# nJXK1526849729  
Lea County, NM  
Locator Map

## Legend

 Chief 30 State #001



Google Earth

Image © 2023 Airbus



8 mi



## **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 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
<a href="#">CP 01204 POD1</a>		CP	LE	3	1	1	25	20S	34E	638755	3602250	<input type="checkbox"/>	2048	370	
<a href="#">CP 00665</a>		CP	LE		1	4	24	20S	34E	639740	3603128*	<input type="checkbox"/>	2128	698	270 428
<a href="#">CP 01334 POD1</a>		CP	LE	1	2	4	35	20S	34E	638402	3599879	<input type="checkbox"/>	2414	1253	733 520
<a href="#">CP 01335 POD1</a>		CP	LE	4	1	4	35	20S	34E	638205	3599736	<input type="checkbox"/>	2657	1307	735 572
<a href="#">CP 00611</a>		CP	LE		2	1	06	21S	34E	639838	3598306*	<input type="checkbox"/>	2891	118	112 6

Average Depth to Water: **462 feet**

Minimum Depth: **112 feet**

Maximum Depth: **735 feet**

**Record Count:** 5

### Basin/County Search:

**County:** Lea

### UTM NAD83 Radius Search (in meters):

**Easting (X):** 640469.26

**Northing (Y):** 3601128.24

**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.

6/29/23 8:39 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



Map Unit Description: Kimbrough gravelly loam, dry, 0 to 3 percent slopes---Lea County, New Mexico

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## Lea County, New Mexico

### KO—Kimbrough gravelly loam, dry, 0 to 3 percent slopes

#### Map Unit Setting

*National map unit symbol:* 2tw43

*Elevation:* 2,500 to 4,800 feet

*Mean annual precipitation:* 14 to 16 inches

*Mean annual air temperature:* 57 to 63 degrees F

*Frost-free period:* 180 to 220 days

*Farmland classification:* Not prime farmland

#### Map Unit Composition

*Kimbrough, dry, and similar soils:* 80 percent

*Minor components:* 20 percent

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

#### Description of Kimbrough, Dry

##### Setting

*Landform:* Playa rims, plains

*Down-slope shape:* Convex, linear

*Across-slope shape:* Concave, linear

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

##### Typical profile

*A - 0 to 3 inches:* gravelly loam

*Bw - 3 to 10 inches:* loam

*Bkkm1 - 10 to 16 inches:* cemented material

*Bkkm2 - 16 to 80 inches:* cemented material

##### Properties and qualities

*Slope:* 0 to 3 percent

*Depth to restrictive feature:* 4 to 18 inches to petrocalcic

*Drainage class:* Well drained

*Runoff class:* Very high

*Capacity of the most limiting layer to transmit water (Ksat):* Very low to moderately low (0.00 to 0.01 in/hr)

*Depth to water table:* More than 80 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Calcium carbonate, maximum content:* 95 percent

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

*Sodium adsorption ratio, maximum:* 1.0

*Available water supply, 0 to 60 inches:* Very low (about 1.4 inches)

##### Interpretive groups

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated):* 7s

Map Unit Description: Kimbrough gravelly loam, dry, 0 to 3 percent slopes---Lea County, New Mexico

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*Hydrologic Soil Group:* D  
*Ecological site:* R077DY049TX - Very Shallow 12-17" PZ  
*Hydric soil rating:* No

#### **Minor Components**

##### **Eunice**

*Percent of map unit:* 10 percent  
*Landform:* Plains  
*Down-slope shape:* Linear  
*Across-slope shape:* Convex  
*Ecological site:* R077DY049TX - Very Shallow 12-17" PZ  
*Hydric soil rating:* No

##### **Spraberry**

*Percent of map unit:* 6 percent  
*Landform:* Playa rims, plains  
*Down-slope shape:* Convex, linear  
*Across-slope shape:* Linear  
*Ecological site:* R077DY049TX - Very Shallow 12-17" PZ  
*Hydric soil rating:* No

##### **Kenhill**

*Percent of map unit:* 4 percent  
*Landform:* Plains  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Ecological site:* R077DY038TX - Clay Loam 12-17" PZ  
*Hydric soil rating:* No

## **Data Source Information**

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

# National Flood Hazard Layer FIRMette



103°30'35"W 32°32'33"N



0 250 500 1,000 1,500 2,000 Feet

1:6,000

103°29'57"W 32°32'3"N

Released to Imaging: 8/8/2023 10:35:34 AM

Basemap Imagery Source: USGS National Map 2023

## 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
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped



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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 7/6/2023 at 1:12 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.



## Chief 30 State #001

Cimarex Energy Co.  
Incident# NRM2025346674  
Lea County, NM  
Exploratory Water Bore Map

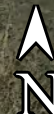
### Legend

- 0.46-Miles
- Exploratory Water Bore

Chief 30 State #003H

Exploratory Water Bore

Chief 30 State #001



1000 ft

Google Earth



CARMONA RESOURCES



<b>Project Name :</b>	<b>Chief 30 State #3H</b>	<b>Date :</b>	<b>Tuesday, August 30, 2022</b>
<b>Project No. :</b>	<b>1120</b>	<b>Sampler :</b>	<b>A. Thielke</b>
<b>Location :</b>	<b>Lea County, New Mexico</b>	<b>Driller :</b>	<b>Scarborough Drilling</b>
<b>Coordinates :</b>	<b>32.54596, -103.50371</b>	<b>Method :</b>	<b>Air Rotary</b>
<b>Elevation :</b>			

Depth (ft.)	WL	Soil Description	Lithology	Depth (ft.)	WL	Soil Description	Lithology
0		Silty/Sand. Red/Light brown sand. Fine Grain, Dry Poorly Cemented		50		Dark Brown Silty Sand w/clay. Poorly Cemented Dry Sand. Fine Grain.	
5				55			
10				60		TD: 55'	
15				65			
20				70			
25		Fine Grain Sand w/ 30% Caliche/Gravels. Pinkish/Red Sand. Medium/Coarse Grain Caliche. Well Sorted		75			
27		White. Coarse grained caliche gravel (80%) w/ silty sand (20%). Well Sorted		80			
30		Medium grained sand w/ gravel fragments. Light brown/red. Well Sorted.		85			
35		Brown/ Red Dry Silty/ Sand. Very Fine Grain.		90			
40				95			
45		Fine Grain Sand w/ 30% Caliche/Gravels. Brown/Red Sand. Medium/Coarse Grain Caliche. Well Sorted and poorly cemented		100			
50				105			

Comments : Boring terminated at 55' at 15:00 Central Time with no presence of groundwater or moisture, checked for moisture on 9/7/2022. No moisture present.



# **APPENDIX III**

**INITIAL C-141**

**FINAL C-141**

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

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

Form C-141  
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in  
accordance with 19.15.29 NMAC.

## Release Notification and Corrective Action

### OPERATOR

☒ Initial Report ☐ Final Report

Name of Company Cimarex Energy	Contact Christine Alderman
Address 600 N Marienfeld Ste 600 Midland TX	Telephone No. 432-853-7059
Facility Name Chief 30 State #1	Facility Type Production

Surface Owner	Mineral Owner	API No. 30-025-40406
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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
M	30	20S	35E	660	S	330	W	Lea

Latitude 32.538753 Longitude -103.504077

### NATURE OF RELEASE

Type of Release Produced Water	Volume of Release 65 bbls	Volume Recovered 40 bbls
Source of Release poly flowline	Date and Hour of Occurrence 09/24/15	Date and Hour of Discovery 09/24/15
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Kellie Jones	
By Whom? Christine Alderman	Date and Hour 9/25/15 10:30 am	
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.\*

**RECEIVED**

By JKeyes at 1:51 pm, Sep 25, 2015

Describe Cause of Problem and Remedial Action Taken.\*

A poly flowline over pressured due to the line plugging up coming from the well.

Describe Area Affected and Cleanup Action Taken.\*

location pad and grazing land were impacted.  
Our consultant will assess and delineate. A work plan will be developed and submitted.

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: Christine Alderman	Approved by Environmental Specialist: <i>Jan Keyes</i>	
Title: ESH Supervisor	Approval Date: 09/25/2015	Expiration Date: 11/25/2015
E-mail Address: calderman@cimarex.com	Conditions of Approval: Discrete site samples required. Delineate and remediate per NMOCD guidelines. Geotagged photos required.	Attached <input type="checkbox"/> 1RP 3888
Date: 9/25/15 Phone: 432-853-7059		

\* Attach Additional Sheets If Necessary

pJXK1526849808

nJXK1526849729

Incident ID	
District RP	
Facility ID	
Application ID	

## Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	_____ (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input 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 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 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 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 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 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 type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input 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.

## Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

Signature:  Date: \_\_\_\_\_

email: \_\_\_\_\_ Telephone: \_\_\_\_\_

**OCD Only**

Received by: Shelly Wells Date: 7/25/2023

Incident ID	
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: \_\_\_\_\_ Title: \_\_\_\_\_

Signature:  Date: \_\_\_\_\_

email: \_\_\_\_\_ Telephone: \_\_\_\_\_

### OCD Only

Received by: Shelly Wells Date: 7/25/2023

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

Closure Approved by:  Date: 08/08/2023

Printed Name: Jocelyn Harison Title: Environmental Specialist



**Ashton Thielke**

---

**From:** Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>  
**Sent:** Wednesday, June 7, 2023 4:51 PM  
**To:** Ashton Thielke  
**Cc:** Bratcher, Michael, EMNRD; Velez, Nelson, EMNRD  
**Subject:** RE: [EXTERNAL] nJXK1526849729 - Chief 30 State CTB Confirmation Sample Notification

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

Ashton,

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

JH

**Jocelyn Harimon** • Environmental Specialist  
Environmental Bureau  
EMNRD - Oil Conservation Division  
1220 South St. Francis Drive | Santa Fe, NM 87505  
(505)469-2821 | [Jocelyn.Harimon@emnrd.nm.gov](mailto:Jocelyn.Harimon@emnrd.nm.gov)  
[http:// www.emnrd.nm.gov](http://www.emnrd.nm.gov)



---

**From:** Ashton Thielke <Ashton.Thielke@coterra.com>  
**Sent:** Wednesday, June 7, 2023 1:35 PM  
**To:** Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>  
**Cc:** Laci Luig <Laci.Luig@coterra.com>; Jim Hawley <JHawley@H-R-Enterprises.com>; mcollier@h-r-enterprises.com  
**Subject:** [EXTERNAL] nJXK1526849729 - Chief 30 State CTB Confirmation Sample Notification

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

Good afternoon,

This email serves as notification for confirmation sampling on the Chief 30 State Com battery. Excavation and confirmation sampling is scheduled to begin as early as Thursday, June 15<sup>th</sup>, weather and soil conditions permitting. H&R Enterprises will be onsite to collect the confirmation samples.

Coordinates: 32.53869, -103.50417

Thank you,



**Ashton Thielke** | PBU - Environmental Consultant

T: 432.813.8988 | M: 281.753.5659 | [Ashton.Thielke@coterra.com](mailto:Ashton.Thielke@coterra.com) | [www.coterra.com](http://www.coterra.com)

Coterra Energy Inc. | 6000 Deauville Blvd., Suite 300N | Midland, TX 79706

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

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# **APPENDIX IV**

## **PHOTOGRAPHIC DOCUMENTATION**

PHOTOGRAPHIC DOCUMENTATION

**BORE HOLE SAMPLE PHOTOGRAPHS**



**BH-1**



**BH-2**

PHOTOGRAPHIC DOCUMENTATION

**BORE SAMPLE HOLE PHOTOGRAPHS**



**BH-3**



**BH-4**



PHOTOGRAPHIC DOCUMENTATION

**BORE HOLE SAMPLE PHOTOGRAPHS**



**BH-5**



**BH-6**

PHOTOGRAPHIC DOCUMENTATION

**HORIZONTAL SAMPLE PHOTOGRAPHS**



**H-1**



**H-2**



PHOTOGRAPHIC DOCUMENTATION

**HORIZONTAL SAMPLE PHOTOGRAPHS**



**H-3**



**H-4**

PHOTOGRAPHIC DOCUMENTATION

HORIZONTAL SAMPLE PHOTOGRAPHS



H-5



H-6

PHOTOGRAPHIC DOCUMENTATION

**HORIZONTAL SAMPLE PHOTOGRAPHS**



**H-7**



PHOTOGRAPHIC DOCUMENTATION

**EXPLORATORY WATER BORE PHOTOGRAPH**



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

May 09, 2023

MICHAEL COLLIER

H & R ENTERPRISES

1010 GAMBLIN ROAD

HOBBS, NM 88240

RE: CHIEF 30 ST #1 2015 (CHIEF 30)

Enclosed are the results of analyses for samples received by the laboratory on 05/04/23 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 with a large, stylized '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: 05/04/2023  
 Reported: 05/09/2023  
 Project Name: CHIEF 30 ST #1 2015 (CHIEF 30)  
 Project Number: NONE GIVEN  
 Project Location: CIMAREX - LEA COUNTY, NM

Sampling Date: 05/03/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 1 0-1' (H232214-01)**

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/06/2023	ND	2.11	105	2.00	12.8	
Toluene*	<0.050	0.050	05/06/2023	ND	2.16	108	2.00	11.6	
Ethylbenzene*	<0.050	0.050	05/06/2023	ND	2.08	104	2.00	11.5	
Total Xylenes*	<0.150	0.150	05/06/2023	ND	6.37	106	6.00	9.53	
Total BTX	<0.300	0.300	05/06/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	05/05/2023	ND	416	104	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	05/05/2023	ND	184	91.9	200	6.06	
DRO >C10-C28*	<10.0	10.0	05/05/2023	ND	165	82.6	200	2.52	
EXT DRO >C28-C36	<10.0	10.0	05/05/2023	ND					

Surrogate: 1-Chlorooctane 93.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 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: 05/04/2023  
 Reported: 05/09/2023  
 Project Name: CHIEF 30 ST #1 2015 (CHIEF 30)  
 Project Number: NONE GIVEN  
 Project Location: CIMAREX - LEA COUNTY, NM

Sampling Date: 05/03/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 1 2' (H232214-02)**

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/06/2023	ND	2.11	105	2.00	12.8	
Toluene*	<0.050	0.050	05/06/2023	ND	2.16	108	2.00	11.6	
Ethylbenzene*	<0.050	0.050	05/06/2023	ND	2.08	104	2.00	11.5	
Total Xylenes*	<0.150	0.150	05/06/2023	ND	6.37	106	6.00	9.53	
Total BTX	<0.300	0.300	05/06/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	896	16.0	05/05/2023	ND	416	104	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	05/05/2023	ND	184	91.9	200	6.06	
DRO >C10-C28*	<10.0	10.0	05/05/2023	ND	165	82.6	200	2.52	
EXT DRO >C28-C36	<10.0	10.0	05/05/2023	ND					

Surrogate: 1-Chlorooctane 86.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.7 % 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: 05/04/2023  
 Reported: 05/09/2023  
 Project Name: CHIEF 30 ST #1 2015 (CHIEF 30)  
 Project Number: NONE GIVEN  
 Project Location: CIMAREX - LEA COUNTY, NM

Sampling Date: 05/03/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 1 3' (H232214-03)**

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	05/06/2023	ND	2.11	105	2.00	12.8		
Toluene*	<0.050	0.050	05/06/2023	ND	2.16	108	2.00	11.6		
Ethylbenzene*	<0.050	0.050	05/06/2023	ND	2.08	104	2.00	11.5		
Total Xylenes*	<0.150	0.150	05/06/2023	ND	6.37	106	6.00	9.53		
Total BTEx	<0.300	0.300	05/06/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	05/05/2023	ND	416	104	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	05/05/2023	ND	184	91.9	200	6.06	
DRO >C10-C28*	<10.0	10.0	05/05/2023	ND	165	82.6	200	2.52	
EXT DRO >C28-C36	<10.0	10.0	05/05/2023	ND					

Surrogate: 1-Chlorooctane 86.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.0 % 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: 05/04/2023  
 Reported: 05/09/2023  
 Project Name: CHIEF 30 ST #1 2015 (CHIEF 30)  
 Project Number: NONE GIVEN  
 Project Location: CIMAREX - LEA COUNTY, NM

Sampling Date: 05/03/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 1 4' (H232214-04)**

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/06/2023	ND	2.11	105	2.00	12.8	
Toluene*	<0.050	0.050	05/06/2023	ND	2.16	108	2.00	11.6	
Ethylbenzene*	<0.050	0.050	05/06/2023	ND	2.08	104	2.00	11.5	
Total Xylenes*	<0.150	0.150	05/06/2023	ND	6.37	106	6.00	9.53	
Total BTX	<0.300	0.300	05/06/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	05/05/2023	ND	416	104	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	05/05/2023	ND	184	91.9	200	6.06	
DRO >C10-C28*	<10.0	10.0	05/05/2023	ND	165	82.6	200	2.52	
EXT DRO >C28-C36	<10.0	10.0	05/05/2023	ND					

Surrogate: 1-Chlorooctane 91.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.7 % 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: 05/04/2023  
 Reported: 05/09/2023  
 Project Name: CHIEF 30 ST #1 2015 (CHIEF 30)  
 Project Number: NONE GIVEN  
 Project Location: CIMAREX - LEA COUNTY, NM

Sampling Date: 05/03/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 2 0-1' (H232214-05)**

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	05/06/2023	ND	2.11	105	2.00	12.8	
Toluene*	<0.050	0.050	05/06/2023	ND	2.16	108	2.00	11.6	
Ethylbenzene*	<0.050	0.050	05/06/2023	ND	2.08	104	2.00	11.5	
Total Xylenes*	<0.150	0.150	05/06/2023	ND	6.37	106	6.00	9.53	
Total BTEX	<0.300	0.300	05/06/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	05/05/2023	ND	416	104	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	05/05/2023	ND	184	91.9	200	6.06	
DRO >C10-C28*	<10.0	10.0	05/05/2023	ND	165	82.6	200	2.52	
EXT DRO >C28-C36	<10.0	10.0	05/05/2023	ND					

Surrogate: 1-Chlorooctane 94.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 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: 05/04/2023  
 Reported: 05/09/2023  
 Project Name: CHIEF 30 ST #1 2015 (CHIEF 30)  
 Project Number: NONE GIVEN  
 Project Location: CIMAREX - LEA COUNTY, NM

Sampling Date: 05/03/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 2 2' (H232214-06)**

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	05/06/2023	ND	2.11	105	2.00	12.8	
Toluene*	<0.050	0.050	05/06/2023	ND	2.16	108	2.00	11.6	
Ethylbenzene*	<0.050	0.050	05/06/2023	ND	2.08	104	2.00	11.5	
Total Xylenes*	<0.150	0.150	05/06/2023	ND	6.37	106	6.00	9.53	
Total BTEx	<0.300	0.300	05/06/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	05/05/2023	ND	416	104	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	05/05/2023	ND	184	91.9	200	6.06	
DRO >C10-C28*	<10.0	10.0	05/05/2023	ND	165	82.6	200	2.52	
EXT DRO >C28-C36	<10.0	10.0	05/05/2023	ND					

Surrogate: 1-Chlorooctane 97.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 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: 05/04/2023  
 Reported: 05/09/2023  
 Project Name: CHIEF 30 ST #1 2015 (CHIEF 30)  
 Project Number: NONE GIVEN  
 Project Location: CIMAREX - LEA COUNTY, NM

Sampling Date: 05/03/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 2 3' (H232214-07)**

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/06/2023	ND	2.11	105	2.00	12.8	
Toluene*	<0.050	0.050	05/06/2023	ND	2.16	108	2.00	11.6	
Ethylbenzene*	<0.050	0.050	05/06/2023	ND	2.08	104	2.00	11.5	
Total Xylenes*	<0.150	0.150	05/06/2023	ND	6.37	106	6.00	9.53	
Total BTX	<0.300	0.300	05/06/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	672	16.0	05/05/2023	ND	416	104	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	05/05/2023	ND	184	91.9	200	6.06	
DRO >C10-C28*	<10.0	10.0	05/05/2023	ND	165	82.6	200	2.52	
EXT DRO >C28-C36	<10.0	10.0	05/05/2023	ND					

Surrogate: 1-Chlorooctane 87.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.0 % 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: 05/04/2023  
 Reported: 05/09/2023  
 Project Name: CHIEF 30 ST #1 2015 (CHIEF 30)  
 Project Number: NONE GIVEN  
 Project Location: CIMAREX - LEA COUNTY, NM

Sampling Date: 05/03/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 2 4' (H232214-08)**

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	05/06/2023	ND	2.11	105	2.00	12.8	
Toluene*	<0.050	0.050	05/06/2023	ND	2.16	108	2.00	11.6	
Ethylbenzene*	<0.050	0.050	05/06/2023	ND	2.08	104	2.00	11.5	
Total Xylenes*	<0.150	0.150	05/06/2023	ND	6.37	106	6.00	9.53	
Total BTEX	<0.300	0.300	05/06/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	05/05/2023	ND	416	104	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	05/05/2023	ND	184	91.9	200	6.06	
DRO >C10-C28*	<10.0	10.0	05/05/2023	ND	165	82.6	200	2.52	
EXT DRO >C28-C36	<10.0	10.0	05/05/2023	ND					

Surrogate: 1-Chlorooctane 86.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.0 % 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: 05/04/2023  
 Reported: 05/09/2023  
 Project Name: CHIEF 30 ST #1 2015 (CHIEF 30)  
 Project Number: NONE GIVEN  
 Project Location: CIMAREX - LEA COUNTY, NM

Sampling Date: 05/03/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 3 0-1' (H232214-09)**

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	05/06/2023	ND	2.11	105	2.00	12.8	
Toluene*	<0.050	0.050	05/06/2023	ND	2.16	108	2.00	11.6	
Ethylbenzene*	<0.050	0.050	05/06/2023	ND	2.08	104	2.00	11.5	
Total Xylenes*	<0.150	0.150	05/06/2023	ND	6.37	106	6.00	9.53	
Total BTEx	<0.300	0.300	05/06/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	05/05/2023	ND	416	104	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	05/05/2023	ND	184	91.9	200	6.06	
DRO >C10-C28*	<10.0	10.0	05/05/2023	ND	165	82.6	200	2.52	
EXT DRO >C28-C36	<10.0	10.0	05/05/2023	ND					

Surrogate: 1-Chlorooctane 98.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 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: 05/04/2023  
 Reported: 05/09/2023  
 Project Name: CHIEF 30 ST #1 2015 (CHIEF 30)  
 Project Number: NONE GIVEN  
 Project Location: CIMAREX - LEA COUNTY, NM

Sampling Date: 05/03/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 3 2' (H232214-10)**

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/06/2023	ND	2.11	105	2.00	12.8	
Toluene*	<0.050	0.050	05/06/2023	ND	2.16	108	2.00	11.6	
Ethylbenzene*	<0.050	0.050	05/06/2023	ND	2.08	104	2.00	11.5	
Total Xylenes*	<0.150	0.150	05/06/2023	ND	6.37	106	6.00	9.53	
Total BTX	<0.300	0.300	05/06/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	05/05/2023	ND	416	104	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	05/05/2023	ND	184	91.9	200	6.06	
DRO >C10-C28*	<10.0	10.0	05/05/2023	ND	165	82.6	200	2.52	
EXT DRO >C28-C36	<10.0	10.0	05/05/2023	ND					

Surrogate: 1-Chlorooctane 97.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 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: 05/04/2023  
 Reported: 05/09/2023  
 Project Name: CHIEF 30 ST #1 2015 (CHIEF 30)  
 Project Number: NONE GIVEN  
 Project Location: CIMAREX - LEA COUNTY, NM

Sampling Date: 05/03/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 3 3' (H232214-11)**

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	05/06/2023	ND	2.11	105	2.00	12.8	
Toluene*	<0.050	0.050	05/06/2023	ND	2.16	108	2.00	11.6	
Ethylbenzene*	<0.050	0.050	05/06/2023	ND	2.08	104	2.00	11.5	
Total Xylenes*	<0.150	0.150	05/06/2023	ND	6.37	106	6.00	9.53	
Total BTEx	<0.300	0.300	05/06/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	05/05/2023	ND	416	104	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	05/05/2023	ND	184	91.9	200	6.06	
DRO >C10-C28*	<10.0	10.0	05/05/2023	ND	165	82.6	200	2.52	
EXT DRO >C28-C36	<10.0	10.0	05/05/2023	ND					

Surrogate: 1-Chlorooctane 89.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.2 % 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: 05/04/2023  
 Reported: 05/09/2023  
 Project Name: CHIEF 30 ST #1 2015 (CHIEF 30)  
 Project Number: NONE GIVEN  
 Project Location: CIMAREX - LEA COUNTY, NM

Sampling Date: 05/03/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 3 4' (H232214-12)**

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/06/2023	ND	2.11	105	2.00	12.8	
Toluene*	<0.050	0.050	05/06/2023	ND	2.16	108	2.00	11.6	
Ethylbenzene*	<0.050	0.050	05/06/2023	ND	2.08	104	2.00	11.5	
Total Xylenes*	<0.150	0.150	05/06/2023	ND	6.37	106	6.00	9.53	
Total BTX	<0.300	0.300	05/06/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/05/2023	ND	416	104	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	05/05/2023	ND	184	91.9	200	6.06	
DRO >C10-C28*	<10.0	10.0	05/05/2023	ND	165	82.6	200	2.52	
EXT DRO >C28-C36	<10.0	10.0	05/05/2023	ND					

Surrogate: 1-Chlorooctane 92.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.2 % 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: 05/04/2023  
 Reported: 05/09/2023  
 Project Name: CHIEF 30 ST #1 2015 (CHIEF 30)  
 Project Number: NONE GIVEN  
 Project Location: CIMAREX - LEA COUNTY, NM

Sampling Date: 05/03/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 4 0-1' (H232214-13)**

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	05/06/2023	ND	2.11	105	2.00	12.8	
Toluene*	<0.050	0.050	05/06/2023	ND	2.16	108	2.00	11.6	
Ethylbenzene*	<0.050	0.050	05/06/2023	ND	2.08	104	2.00	11.5	
Total Xylenes*	<0.150	0.150	05/06/2023	ND	6.37	106	6.00	9.53	
Total BTEx	<0.300	0.300	05/06/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	05/05/2023	ND	416	104	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	05/05/2023	ND	184	91.9	200	6.06	
DRO >C10-C28*	<10.0	10.0	05/05/2023	ND	165	82.6	200	2.52	
EXT DRO >C28-C36	<10.0	10.0	05/05/2023	ND					

Surrogate: 1-Chlorooctane 91.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.6 % 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: 05/04/2023  
 Reported: 05/09/2023  
 Project Name: CHIEF 30 ST #1 2015 (CHIEF 30)  
 Project Number: NONE GIVEN  
 Project Location: CIMAREX - LEA COUNTY, NM

Sampling Date: 05/03/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 4 2' (H232214-14)**

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	05/06/2023	ND	2.11	105	2.00	12.8	
Toluene*	<0.050	0.050	05/06/2023	ND	2.16	108	2.00	11.6	
Ethylbenzene*	<0.050	0.050	05/06/2023	ND	2.08	104	2.00	11.5	
Total Xylenes*	<0.150	0.150	05/06/2023	ND	6.37	106	6.00	9.53	
Total BTEx	<0.300	0.300	05/06/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	05/05/2023	ND	416	104	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	05/05/2023	ND	184	91.9	200	6.06	
DRO >C10-C28*	<10.0	10.0	05/05/2023	ND	165	82.6	200	2.52	
EXT DRO >C28-C36	<10.0	10.0	05/05/2023	ND					

Surrogate: 1-Chlorooctane 98.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 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: 05/04/2023  
 Reported: 05/09/2023  
 Project Name: CHIEF 30 ST #1 2015 (CHIEF 30)  
 Project Number: NONE GIVEN  
 Project Location: CIMAREX - LEA COUNTY, NM

Sampling Date: 05/03/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 4 3' (H232214-15)**

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/06/2023	ND	2.11	105	2.00	12.8	
Toluene*	<0.050	0.050	05/06/2023	ND	2.16	108	2.00	11.6	
Ethylbenzene*	<0.050	0.050	05/06/2023	ND	2.08	104	2.00	11.5	
Total Xylenes*	<0.150	0.150	05/06/2023	ND	6.37	106	6.00	9.53	
Total BTX	<0.300	0.300	05/06/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	05/05/2023	ND	416	104	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	05/05/2023	ND	184	91.9	200	6.06	
DRO >C10-C28*	<10.0	10.0	05/05/2023	ND	165	82.6	200	2.52	
EXT DRO >C28-C36	<10.0	10.0	05/05/2023	ND					

Surrogate: 1-Chlorooctane 99.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 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: 05/04/2023  
 Reported: 05/09/2023  
 Project Name: CHIEF 30 ST #1 2015 (CHIEF 30)  
 Project Number: NONE GIVEN  
 Project Location: CIMAREX - LEA COUNTY, NM

Sampling Date: 05/03/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 4 4' (H232214-16)**

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	05/06/2023	ND	2.11	105	2.00	12.8		
Toluene*	<0.050	0.050	05/06/2023	ND	2.16	108	2.00	11.6		
Ethylbenzene*	<0.050	0.050	05/06/2023	ND	2.08	104	2.00	11.5		
Total Xylenes*	<0.150	0.150	05/06/2023	ND	6.37	106	6.00	9.53		
Total BTEX	<0.300	0.300	05/06/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	05/05/2023	ND	416	104	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	05/05/2023	ND	184	91.9	200	6.06	
DRO >C10-C28*	<10.0	10.0	05/05/2023	ND	165	82.6	200	2.52	
EXT DRO >C28-C36	<10.0	10.0	05/05/2023	ND					

Surrogate: 1-Chlorooctane 96.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 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: 05/04/2023  
 Reported: 05/09/2023  
 Project Name: CHIEF 30 ST #1 2015 (CHIEF 30)  
 Project Number: NONE GIVEN  
 Project Location: CIMAREX - LEA COUNTY, NM

Sampling Date: 05/03/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 5 0-1' (H232214-17)**

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	05/06/2023	ND	2.12	106	2.00	15.4	
Toluene*	<0.050	0.050	05/06/2023	ND	2.17	108	2.00	15.8	
Ethylbenzene*	<0.050	0.050	05/06/2023	ND	2.07	104	2.00	15.0	
Total Xylenes*	<0.150	0.150	05/06/2023	ND	6.42	107	6.00	15.1	
Total BTEx	<0.300	0.300	05/06/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/05/2023	ND	416	104	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	05/05/2023	ND	184	91.9	200	6.06	
DRO >C10-C28*	<10.0	10.0	05/05/2023	ND	165	82.6	200	2.52	
EXT DRO >C28-C36	<10.0	10.0	05/05/2023	ND					

Surrogate: 1-Chlorooctane 96.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 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: 05/04/2023  
 Reported: 05/09/2023  
 Project Name: CHIEF 30 ST #1 2015 (CHIEF 30)  
 Project Number: NONE GIVEN  
 Project Location: CIMAREX - LEA COUNTY, NM

Sampling Date: 05/03/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 5 2' (H232214-18)**

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	05/06/2023	ND	2.12	106	2.00	15.4		
Toluene*	<0.050	0.050	05/06/2023	ND	2.17	108	2.00	15.8		
Ethylbenzene*	<0.050	0.050	05/06/2023	ND	2.07	104	2.00	15.0		
Total Xylenes*	<0.150	0.150	05/06/2023	ND	6.42	107	6.00	15.1		
Total BTEX	<0.300	0.300	05/06/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	05/05/2023	ND	416	104	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	05/05/2023	ND	184	91.9	200	6.06	
DRO >C10-C28*	<10.0	10.0	05/05/2023	ND	165	82.6	200	2.52	
EXT DRO >C28-C36	<10.0	10.0	05/05/2023	ND					

Surrogate: 1-Chlorooctane 83.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.5 % 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: 05/04/2023  
 Reported: 05/09/2023  
 Project Name: CHIEF 30 ST #1 2015 (CHIEF 30)  
 Project Number: NONE GIVEN  
 Project Location: CIMAREX - LEA COUNTY, NM

Sampling Date: 05/03/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 5 3' (H232214-19)**

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	05/06/2023	ND	2.12	106	2.00	15.4		
Toluene*	<0.050	0.050	05/06/2023	ND	2.17	108	2.00	15.8		
Ethylbenzene*	<0.050	0.050	05/06/2023	ND	2.07	104	2.00	15.0		
Total Xylenes*	<0.150	0.150	05/06/2023	ND	6.42	107	6.00	15.1		
Total BTEx	<0.300	0.300	05/06/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	05/05/2023	ND	416	104	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	05/05/2023	ND	184	91.9	200	6.06	
DRO >C10-C28*	<10.0	10.0	05/05/2023	ND	165	82.6	200	2.52	
EXT DRO >C28-C36	<10.0	10.0	05/05/2023	ND					

Surrogate: 1-Chlorooctane 84.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.5 % 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: 05/04/2023  
 Reported: 05/09/2023  
 Project Name: CHIEF 30 ST #1 2015 (CHIEF 30)  
 Project Number: NONE GIVEN  
 Project Location: CIMAREX - LEA COUNTY, NM

Sampling Date: 05/03/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 5 4' (H232214-20)**

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	05/06/2023	ND	2.12	106	2.00	15.4		
Toluene*	<0.050	0.050	05/06/2023	ND	2.17	108	2.00	15.8		
Ethylbenzene*	<0.050	0.050	05/06/2023	ND	2.07	104	2.00	15.0		
Total Xylenes*	<0.150	0.150	05/06/2023	ND	6.42	107	6.00	15.1		
Total BTEX	<0.300	0.300	05/06/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	05/05/2023	ND	416	104	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	05/05/2023	ND	184	91.9	200	6.06	
DRO >C10-C28*	<10.0	10.0	05/05/2023	ND	165	82.6	200	2.52	
EXT DRO >C28-C36	<10.0	10.0	05/05/2023	ND					

Surrogate: 1-Chlorooctane 88.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.2 % 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: 05/04/2023  
 Reported: 05/09/2023  
 Project Name: CHIEF 30 ST #1 2015 (CHIEF 30)  
 Project Number: NONE GIVEN  
 Project Location: CIMAREX - LEA COUNTY, NM

Sampling Date: 05/03/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 6 0-1' (H232214-21)**

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	05/06/2023	ND	2.12	106	2.00	15.4		
Toluene*	<0.050	0.050	05/06/2023	ND	2.17	108	2.00	15.8		
Ethylbenzene*	<0.050	0.050	05/06/2023	ND	2.07	104	2.00	15.0		
Total Xylenes*	<0.150	0.150	05/06/2023	ND	6.42	107	6.00	15.1		
Total BTEx	<0.300	0.300	05/06/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	05/05/2023	ND	416	104	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	05/05/2023	ND	164	82.1	200	1.80	
DRO >C10-C28*	<10.0	10.0	05/05/2023	ND	180	89.9	200	2.45	
EXT DRO >C28-C36	<10.0	10.0	05/05/2023	ND					

Surrogate: 1-Chlorooctane 87.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 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: 05/04/2023  
 Reported: 05/09/2023  
 Project Name: CHIEF 30 ST #1 2015 (CHIEF 30)  
 Project Number: NONE GIVEN  
 Project Location: CIMAREX - LEA COUNTY, NM

Sampling Date: 05/03/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 6 2' (H232214-22)**

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	05/06/2023	ND	2.12	106	2.00	15.4		
Toluene*	<0.050	0.050	05/06/2023	ND	2.17	108	2.00	15.8		
Ethylbenzene*	<0.050	0.050	05/06/2023	ND	2.07	104	2.00	15.0		
Total Xylenes*	<0.150	0.150	05/06/2023	ND	6.42	107	6.00	15.1		
Total BTEx	<0.300	0.300	05/06/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	05/05/2023	ND	416	104	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	05/05/2023	ND	164	82.1	200	1.80	
DRO >C10-C28*	<10.0	10.0	05/05/2023	ND	180	89.9	200	2.45	
EXT DRO >C28-C36	<10.0	10.0	05/05/2023	ND					

Surrogate: 1-Chlorooctane 89.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 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: 05/04/2023  
 Reported: 05/09/2023  
 Project Name: CHIEF 30 ST #1 2015 (CHIEF 30)  
 Project Number: NONE GIVEN  
 Project Location: CIMAREX - LEA COUNTY, NM

Sampling Date: 05/03/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 6 3' (H232214-23)**

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/06/2023	ND	2.12	106	2.00	15.4	
Toluene*	<0.050	0.050	05/06/2023	ND	2.17	108	2.00	15.8	
Ethylbenzene*	<0.050	0.050	05/06/2023	ND	2.07	104	2.00	15.0	
Total Xylenes*	<0.150	0.150	05/06/2023	ND	6.42	107	6.00	15.1	
Total BTX	<0.300	0.300	05/06/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	05/05/2023	ND	416	104	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	05/05/2023	ND	164	82.1	200	1.80	
DRO >C10-C28*	<10.0	10.0	05/05/2023	ND	180	89.9	200	2.45	
EXT DRO >C28-C36	<10.0	10.0	05/05/2023	ND					

Surrogate: 1-Chlorooctane 93.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 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: 05/04/2023  
 Reported: 05/09/2023  
 Project Name: CHIEF 30 ST #1 2015 (CHIEF 30)  
 Project Number: NONE GIVEN  
 Project Location: CIMAREX - LEA COUNTY, NM

Sampling Date: 05/03/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 6 4' (H232214-24)**

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	05/06/2023	ND	2.12	106	2.00	15.4		
Toluene*	<0.050	0.050	05/06/2023	ND	2.17	108	2.00	15.8		
Ethylbenzene*	<0.050	0.050	05/06/2023	ND	2.07	104	2.00	15.0		
Total Xylenes*	<0.150	0.150	05/06/2023	ND	6.42	107	6.00	15.1		
Total BTEx	<0.300	0.300	05/06/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	05/05/2023	ND	416	104	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	05/05/2023	ND	164	82.1	200	1.80	
DRO >C10-C28*	<10.0	10.0	05/05/2023	ND	180	89.9	200	2.45	
EXT DRO >C28-C36	<10.0	10.0	05/05/2023	ND					

Surrogate: 1-Chlorooctane 98.5 % 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: 05/04/2023  
 Reported: 05/09/2023  
 Project Name: CHIEF 30 ST #1 2015 (CHIEF 30)  
 Project Number: NONE GIVEN  
 Project Location: CIMAREX - LEA COUNTY, NM

Sampling Date: 05/03/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: H - 1 0-1' (H232214-25)**

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	05/06/2023	ND	2.12	106	2.00	15.4	
Toluene*	<0.050	0.050	05/06/2023	ND	2.17	108	2.00	15.8	
Ethylbenzene*	<0.050	0.050	05/06/2023	ND	2.07	104	2.00	15.0	
Total Xylenes*	<0.150	0.150	05/06/2023	ND	6.42	107	6.00	15.1	
Total BTEx	<0.300	0.300	05/06/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/05/2023	ND	416	104	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	05/05/2023	ND	164	82.1	200	1.80	
DRO >C10-C28*	<10.0	10.0	05/05/2023	ND	180	89.9	200	2.45	
EXT DRO >C28-C36	<10.0	10.0	05/05/2023	ND					

Surrogate: 1-Chlorooctane 87.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 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: 05/04/2023  
 Reported: 05/09/2023  
 Project Name: CHIEF 30 ST #1 2015 (CHIEF 30)  
 Project Number: NONE GIVEN  
 Project Location: CIMAREX - LEA COUNTY, NM

Sampling Date: 05/03/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: H - 2 0-1' (H232214-26)**

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	05/06/2023	ND	2.12	106	2.00	15.4	
Toluene*	<0.050	0.050	05/06/2023	ND	2.17	108	2.00	15.8	
Ethylbenzene*	<0.050	0.050	05/06/2023	ND	2.07	104	2.00	15.0	
Total Xylenes*	<0.150	0.150	05/06/2023	ND	6.42	107	6.00	15.1	
Total BTEx	<0.300	0.300	05/06/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/05/2023	ND	416	104	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	05/05/2023	ND	164	82.1	200	1.80	
DRO >C10-C28*	<10.0	10.0	05/05/2023	ND	180	89.9	200	2.45	
EXT DRO >C28-C36	<10.0	10.0	05/05/2023	ND					

Surrogate: 1-Chlorooctane 87.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 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: 05/04/2023  
 Reported: 05/09/2023  
 Project Name: CHIEF 30 ST #1 2015 (CHIEF 30)  
 Project Number: NONE GIVEN  
 Project Location: CIMAREX - LEA COUNTY, NM

Sampling Date: 05/03/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: H - 3 0-1' (H232214-27)**

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	05/06/2023	ND	2.12	106	2.00	15.4	
Toluene*	<0.050	0.050	05/06/2023	ND	2.17	108	2.00	15.8	
Ethylbenzene*	<0.050	0.050	05/06/2023	ND	2.07	104	2.00	15.0	
Total Xylenes*	<0.150	0.150	05/06/2023	ND	6.42	107	6.00	15.1	
Total BTEx	<0.300	0.300	05/06/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/05/2023	ND	416	104	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	05/05/2023	ND	164	82.1	200	1.80	
DRO >C10-C28*	<10.0	10.0	05/05/2023	ND	180	89.9	200	2.45	
EXT DRO >C28-C36	<10.0	10.0	05/05/2023	ND					

Surrogate: 1-Chlorooctane 86.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 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: 05/04/2023  
 Reported: 05/09/2023  
 Project Name: CHIEF 30 ST #1 2015 (CHIEF 30)  
 Project Number: NONE GIVEN  
 Project Location: CIMAREX - LEA COUNTY, NM

Sampling Date: 05/03/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: H - 4 0-1' (H232214-28)**

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	05/06/2023	ND	2.12	106	2.00	15.4	
Toluene*	<0.050	0.050	05/06/2023	ND	2.17	108	2.00	15.8	
Ethylbenzene*	<0.050	0.050	05/06/2023	ND	2.07	104	2.00	15.0	
Total Xylenes*	<0.150	0.150	05/06/2023	ND	6.42	107	6.00	15.1	
Total BTEx	<0.300	0.300	05/06/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/05/2023	ND	416	104	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	05/05/2023	ND	164	82.1	200	1.80	
DRO >C10-C28*	<10.0	10.0	05/05/2023	ND	180	89.9	200	2.45	
EXT DRO >C28-C36	<10.0	10.0	05/05/2023	ND					

Surrogate: 1-Chlorooctane 90.0 % 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: 05/04/2023  
 Reported: 05/09/2023  
 Project Name: CHIEF 30 ST #1 2015 (CHIEF 30)  
 Project Number: NONE GIVEN  
 Project Location: CIMAREX - LEA COUNTY, NM

Sampling Date: 05/03/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: H - 5 0-1' (H232214-29)**

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	05/06/2023	ND	2.12	106	2.00	15.4	
Toluene*	<0.050	0.050	05/06/2023	ND	2.17	108	2.00	15.8	
Ethylbenzene*	<0.050	0.050	05/06/2023	ND	2.07	104	2.00	15.0	
Total Xylenes*	<0.150	0.150	05/06/2023	ND	6.42	107	6.00	15.1	
Total BTEx	<0.300	0.300	05/06/2023	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	16.0	16.0	05/05/2023	ND	400	100	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	05/05/2023	ND	164	82.1	200	1.80	
DRO >C10-C28*	<10.0	10.0	05/05/2023	ND	180	89.9	200	2.45	
EXT DRO >C28-C36	<10.0	10.0	05/05/2023	ND					

Surrogate: 1-Chlorooctane 87.3 % 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: 05/04/2023  
 Reported: 05/09/2023  
 Project Name: CHIEF 30 ST #1 2015 (CHIEF 30)  
 Project Number: NONE GIVEN  
 Project Location: CIMAREX - LEA COUNTY, NM

Sampling Date: 05/03/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: H - 6 0-1' (H232214-30)**

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	05/06/2023	ND	2.12	106	2.00	15.4	
Toluene*	<0.050	0.050	05/06/2023	ND	2.17	108	2.00	15.8	
Ethylbenzene*	<0.050	0.050	05/06/2023	ND	2.07	104	2.00	15.0	
Total Xylenes*	<0.150	0.150	05/06/2023	ND	6.42	107	6.00	15.1	
Total BTEx	<0.300	0.300	05/06/2023	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	16.0	16.0	05/05/2023	ND	400	100	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	05/05/2023	ND	164	82.1	200	1.80	
DRO >C10-C28*	<10.0	10.0	05/05/2023	ND	180	89.9	200	2.45	
EXT DRO >C28-C36	<10.0	10.0	05/05/2023	ND					

Surrogate: 1-Chlorooctane 81.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 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: 05/04/2023  
 Reported: 05/09/2023  
 Project Name: CHIEF 30 ST #1 2015 (CHIEF 30)  
 Project Number: NONE GIVEN  
 Project Location: CIMAREX - LEA COUNTY, NM

Sampling Date: 05/03/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: H - 7 0-1' (H232214-31)**

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	05/06/2023	ND	2.12	106	2.00	15.4	
Toluene*	<0.050	0.050	05/06/2023	ND	2.17	108	2.00	15.8	
Ethylbenzene*	<0.050	0.050	05/06/2023	ND	2.07	104	2.00	15.0	
Total Xylenes*	<0.150	0.150	05/06/2023	ND	6.42	107	6.00	15.1	
Total BTEx	<0.300	0.300	05/06/2023	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	16.0	16.0	05/05/2023	ND	400	100	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	05/05/2023	ND	164	82.1	200	1.80	
DRO >C10-C28*	<10.0	10.0	05/05/2023	ND	180	89.9	200	2.45	
EXT DRO >C28-C36	<10.0	10.0	05/05/2023	ND					

Surrogate: 1-Chlorooctane 92.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 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

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

---

Celey D. Keene, Lab Director/Quality Manager



### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: H&R Enterprises Project Manager: Michael Collier Address: City: State: Zip: Phone #: Fax #: Project #: Project Owner: Cimarex Energy Project Name: Chief 30 St. #1 2015 (Chief 30) Project Location: Lea County, NM Sampler Name: R. Bell Lab I.D.:										P.O. #: Company: Cimarex Attn: Laci Lullg Address: City: State: Zip: Phone #: Fax #:									
BILL TO										ANALYSIS REQUEST									
(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :										MATRIX PRESERV. SAMPLING									
DATE TIME										BTEX TPH Chlorides									
BH-1 0-1' BH-1 2' BH-1 3' BH-1 4' BH-2 0-1' BH-2 2' BH-2 3' BH-2 4' BH-3 0-1' BH-3 2'										X X X X X X X X X X									
5-4-23 9:33 AM Received By:										Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No All Results are emailed. Please provide Email address:									
Relinquished By:										REMARKS: Pg 1 of 4									
Delivered By: (Circle One) Sampler - UPS - Bus - Other:										Transmitted Time: Standard <input checked="" type="checkbox"/> Backyard (only) Sample Condition Thermometer ID #113 Correction Factor -0.5°C									



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

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

Company Name: H&R Enterprises				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>			
Project Manager: Michael Collier				P.O. #:							
Address:				Company: Cimarex							
City:				Attn: Laci Lulig							
State:				Address:							
Phone #:				City:							
Fax #:				State:							
Project #:				Zip:							
Project Name: Chief 30 St. #1 2015 (Chief 30)				Phone #:							
Project Location: Lea County, NM				Fax #:							
Sampler Name: R. Bell											
FOR LAB USE ONLY											
Lab I.D.				MATRIX		PRESERV.		SAMPLING			
				GROUNDWATER							
				WASTEWATER							
				SOIL							
				OIL							
				SLUDGE							
				OTHER :							
				ACID/BASE:							
				ICE / COOL							
				OTHER :							
				DATE							
				TIME							
				BTEX							
				TPH							
				Chlorides							

Relinquished By:		Date: 5-4-23 Time: 1:33 PM		Received By:		Date: 5-4-23 Time: 1:33 PM	
Relinquished By:				Received By:			
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C: -1.4°C Corrected Temp. °C: -2.0°C		Sample Condition Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		CHECKED BY: (Initials) YP	
Turnaround Time: <input type="checkbox"/> Standard <input checked="" type="checkbox"/> Expedite (only Sample Condition)		Thermometer ID #113 Correction Factor -0.5°C		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
REMARKS: Pg 2 of 4							

H&R Enterprises, Lea County, NM. Customer's liability and directly exclusive remedy for any claims arising under this order is limited to the amount paid by the customer. All claims, including those for negligence and any other claims whatsoever, shall be deemed waived unless made in writing and received by Customer within 30 days after the date of delivery of the sample. Customer's liability and directly exclusive remedy for any claims arising under this order is limited to the amount paid by the customer. All claims, including those for negligence and any other claims whatsoever, shall be deemed waived unless made in writing and received by Customer within 30 days after the date of delivery of the sample.





enterprises

[illegible][illegible]FORM-006 R.3.2 10/07/21

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



ANALYSIS REQUEST

FOR LAB USE ONLY  
Lab I.D.

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Capital cannot be liable for incidental or consequential damages, including medical expenses, loss of use, or loss of profits incurred by client. In no event shall Capital be liable for the performance of services rendered by Capital, regardless of whether such claim is based upon any of the above stated impacts or otherwise.

FORM-006 R 3.2 10/07/21

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

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

CONDITIONS  
  
Action 243998

CONDITIONS

Operator: CIMAREX ENERGY CO. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 243998
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	Sample points BH1 @2' and BH2 @ 3' do not meet the reclamation requirements. Final remediation and reclamation shall take place in accordance with 19.15.29.12 and 19.15.29.13 NMAC during any future major well pad construction/alteration or final plugging and abandonment, whichever occurs first.	8/8/2023