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## Remediation and Closure Report

Crescent Hale 12 Federal #001  
Incident# nAPP2236074851  
Eddy County, New Mexico

### Prepared For:

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

### Prepared By:

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

**March 10, 2023**

Mrs. Crisha Morgan  
**Bureau of Land Management**  
620 E. Green St.  
Carlsbad, NM 88240

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

Subject: **Remediation and Closure Report**  
Crescent Hale 12 Federal #001  
Eddy County, NM

Dear Mrs. Morgan and Mrs. Nobui,

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

### Site Information

The Crescent Hale 12 Federal #001 is located approximately 17.2 miles South of Loco Hills, New Mexico. The legal location for this release is Unit Letter D, Section 12, Township 19 South and Range 30 East in Lea County, New Mexico. More specifically the latitude and longitude for the release are 32.680717 North and -103.932367 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 Largo Loam, 1 to 5 percent slopes. The referenced soil data is attached in [Appendix II](#). Drainage courses in this area are typically dry. The project site is located in a high Karst potential area (Karst Map, [Appendix I](#)).

### Groundwater and Site Characterization

The New Mexico Office of the State Engineer web site indicates that the nearest reported depth to groundwater is 92-feet below ground surface (BGS). See [Appendix II](#) for the referenced groundwater data.

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

<b>Approximate Depth to Groundwater</b>	<b>92 Feet/BGS</b>
---	--------------------

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

As this is a remediation in a high Karst area, 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 feet	Chloride **	EPA 300.0 or SM4500 CIB	600 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	100 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

### Incident Description

On December 26, 2022, it was discovered that the heater treater had popped off and fluid was running down the side of the vessel. Approximately 11 barrels (bbls) of crude oil was released into the lined falcon containment, onto the well pad, and into the pasture behind the location. An estimated 4 bbls of crude oil were recovered.

### Site Assessment and Remedial Activities

H&R mobilized personnel to begin site assessment, sampling, and remediation activities of the location. Grab samples were obtained from the release area as well as the overspray area. Samples collected were transported to Cardinal Laboratories for analysis, and 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](#). Before, during, and after photographs of the location are attached in [Appendix IV](#). Complete laboratory reports can be found in [Appendix V](#).

Table 1: Initial Soil Samples Analysis

Sample ID	Sample Date	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
NMOCD Table 1 Closure Criteria 19.15.29 NMAC			50 mg/kg	10 mg/kg	100 mg/kg			100 mg/kg	600 mg/kg
SA-1	1/12/2023	0-0.5'	527	26.5	3110	9070	1380	13560	80
		1'	217	7.31	2360	5620	835	8815	32
		2'	4	0.054	40	246	44	330	32
		3'	1	0.05	35	203	27	265	16
		3.5'	4	0.155	45	284	39	368	ND
	2/7/2023	4'	ND	ND	ND	ND	ND	0	16
		5'	ND	ND	ND	ND	ND	0	32
		6'	ND	ND	ND	35.4	ND	35.4	16
SA-2	1/12/2023	0-0.5'	134	7.37	1030	1770	234	3034	16
		1'	3	0.102	58	295	52.1	405.1	ND
		2'	0	0.05	ND	39	ND	39	ND
		3'	2	0.05	16	133	22.8	171.8	64
	1/17/2023	4'	1	ND	34.7	ND	ND	34.7	864
		5'	ND	ND	ND	ND	ND	0	1170
	2/7/2023	6'	ND	ND	ND	ND	ND	0	1180
		8'	ND	ND	ND	ND	ND	0	1230
		10'	ND	ND	ND	ND	ND	0	928
		12'	ND	ND	ND	ND	ND	0	192
SA-3	1/17/2023	0'	ND	ND	ND	238	86.6	324.6	32
		1'	ND	ND	ND	ND	ND	0	80
SA-4	1/17/2023	0'	ND	ND	ND	1440	375	1815	64
		1'	ND	ND	ND	ND	ND	0	432
SA-5	1/17/2023	0-0.5'R	817	96.4	5910	11600	1850	19360	240
SA-6	1/17/2023	0-0.5'R	1160	79.1	9780	26500	4360	40640	208
H-1	1/17/2023	0-1'	ND	ND	ND	ND	ND	0	80
H-2	1/17/2023	0-1'	ND	ND	ND	ND	ND	0	32
H-3	1/17/2023	0-1'	ND	ND	ND	ND	ND	0	48
H-4	1/17/2023	0-1'	ND	ND	ND	ND	ND	0	16
H-5	1/17/2023	0-1'	ND	ND	ND	ND	ND	0	32
H-6	1/17/2023	0-1'	ND	ND	ND	ND	ND	0	192

ND = Analyte Not Detected SA = Auger Sample H = Horizontal Sample

Based on the results of our site assessment and upon client authorization, excavation activities of the impacted areas began. Confirmation composite samples were collected from the bottom and sidewalls of the excavation to confirm that NMOCD closure criteria had been met, the results of which can be found in the following data table. Confirmation sample locations and excavation dimensions can be found on Confirmation Sample Map in [Appendix I](#). Complete laboratory reports are attached in [Appendix V](#).

Table 2: Confirmation Soil Sample Analysis

Sample ID	Sample Date	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
NMOCD Table 1 Closure Criteria 19.15.29 NMAC			50 mg/kg	10 mg/kg	100 mg/kg			100 mg/kg	600 mg/kg
S-1	2/7/2023	0.5'	ND	ND	ND	ND	ND	0	160
S-2	2/7/2023	0.5'	ND	ND	ND	ND	ND	0	64
S-3	2/8/2023	0.5"	ND	ND	ND	ND	ND	0	80
S-4	2/7/2023	0.5"	ND	ND	ND	10.7	ND	10.7	128
S-5	2/7/2023	2'	ND	ND	ND	ND	ND	0	192
S-6	2/7/2023	2'	ND	ND	ND	ND	ND	0	16
S-7	2/7/2023	2'	ND	ND	ND	ND	ND	0	112
S-8	2/7/2023	2'	ND	ND	ND	ND	ND	0	176
S-9	2/8/2023	3'	ND	ND	ND	ND	ND	0	80
S-10	2/7/2023	3'	ND	ND	ND	ND	ND	0	272
S-11	2/7/2023	3'	ND	ND	ND	ND	ND	0	176
S-12	2/7/2023	3'	ND	ND	ND	ND	ND	0	80
S-13	2/8/2023	3'	ND	ND	ND	ND	ND	0	80
S-14	2/7/2023	3'	ND	ND	ND	ND	ND	0	272
S-15	2/7/2023	3'	ND	ND	ND	ND	ND	0	336
S-16	2/7/2023	3'	ND	ND	ND	ND	ND	0	272
S-17	2/7/2023	3'	ND	ND	ND	ND	ND	0	288
S-18	2/8/2023	3'	ND	ND	ND	ND	ND	0	80
S-19	2/7/2023	3'	ND	ND	ND	ND	ND	0	288
S-20	2/7/2023	3'	ND	ND	ND	ND	ND	0	256
S-21	2/7/2023	2'	ND	ND	ND	179	29.3	208.3	176
	2/13/2023	2.5'	ND	ND	ND	ND	ND	0	96
S-22	2/7/2023	2'	ND	ND	ND	169	30.3	199.3	176
	2/13/2023	2.5'	ND	ND	ND	ND	ND	0	96
S-23	2/7/2023	2'	ND	ND	ND	16.7	ND	16.7	112
S-24	2/7/2023	2'	ND	ND	ND	15.5	ND	15.5	112
S-26	2/8/2023	4'	ND	ND	ND	ND	ND	0	368
SW-1	2/7/2023	0.5'	ND	ND	ND	ND	ND	0	80
SW-2	2/7/2023	0.5'	ND	ND	ND	ND	ND	0	48
SW-3	2/7/2023	0.5'	ND	ND	ND	ND	ND	0	160
SW-4	2/7/2023	0.5'	ND	ND	ND	ND	ND	0	144
SW-5	2/7/2023	2'	ND	ND	ND	ND	ND	0	176
SW-6	2/7/2023	2'	ND	ND	ND	ND	ND	0	160
SW-7	2/7/2023	2'	ND	ND	ND	ND	ND	0	160
SW-8	2/7/2023	2'	ND	ND	ND	ND	ND	0	176
SW-9	2/7/2023	2'	ND	ND	ND	ND	ND	0	48
SW-10	2/7/2023	2'	ND	ND	ND	ND	ND	0	176

ND = Analyte Not Detected SW = Sidewall

Table 2: Confirmation Soil Sample Analysis

Sample ID	Sample Date	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
NMOCD Table 1 Closure Criteria 19.15.29 NMAC			50 mg/kg	10 mg/kg	100 mg/kg			100 mg/kg	600 mg/kg
SW-11	2/7/2023	3'	ND	ND	ND	ND	ND	0	288
SW-12	2/8/2023	3'	ND	ND	ND	ND	ND	0	80
SW-13	2/7/2023	3'	ND	ND	ND	ND	ND	0	144
SW-14	2/7/2023	3'	ND	ND	ND	ND	ND	0	48
SW-15	2/7/2023	2'	ND	ND	ND	ND	ND	0	160
SW-16	2/7/2023	2'	ND	ND	ND	ND	ND	0	160
SW-17	2/7/2023	2'	ND	ND	ND	13.9	ND	13.9	112
SW-18	2/7/2023	2'	ND	ND	ND	18.3	ND	18.3	144
SW-19	2/7/2023	2'	ND	ND	ND	12.5	ND	12.5	160
SW-20	2/7/2023	2-4'	ND	ND	ND	21.6	ND	21.6	160
SW-21	2/7/2023	4'	ND	ND	ND	152	22.3	174.3	320
	2/13/2023	4.5'	ND	ND	ND	ND	ND	0	64
SW-22	2/7/2023	2-4'	ND	ND	ND	16.7	ND	16.7	160
TW-1	2/7/2023	2-4'	ND	ND	ND	14.8	ND	14.8	80
BG-1	2/7/2023	0-1'	ND	ND	ND	ND	ND	0	32
BG-2	2/7/2023	0-1'	ND	ND	ND	ND	ND	0	32
BG-3	2/7/2023	0-1'	ND	ND	ND	ND	ND	0	16
BG-4	2/7/2023	0-1'	ND	ND	ND	ND	ND	0	80
BG-6	2/8/2023	0-1'	ND	ND	ND	ND	ND	0	16

ND = Analyte Not Detected SW = Sidewall TW = Transition Wall

## Remedial Actions

- The impacted areas near sample points S-1 through S-4 were excavated to a total depth of 0.5-feet BGS.
- The impacted areas near sample points S-5 through S-8 were excavated to a depth of 2-feet BGS.
- The impacted areas near sample points S-9 through S-20 were excavated to a depth of 3-feet BGS.
- The impacted areas near sample points S-21 and S-22 were excavated to a depth of 2.5-feet BGS.
- The impacted area near sample points S-26 was excavated to a depth of 4-feet BGS.
- Composite confirmation samples were obtained from the sidewalls and bottoms of the excavation to verify that all contaminants above closure criteria had been removed.
- All the excavated material was hauled to Lea Land, a NMOCD approved solid waste disposal facility.
- The excavated areas on the well pad were backfilled with new caliche at depth and brought to grade, machine compacted and contoured to match the surrounding location.
- The excavated areas in the pasture were backfilled with clean like topsoil and contoured to match the surrounding terrain. Seeding with the proper BLM seed mixture will take place in accordance with the monsoon season to ensure proper seed germination and vegetation growth.
- The Final C-141 formally documenting the remedial actions is attached in [Appendix III](#).

## Closure

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

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

Respectfully submitted,

H&R Enterprises, LLC



Michael Collier  
Environmental Project Manager

### Attachments:

Appendix I Site Maps

Appendix II Soil Survey, Groundwater Data, FEMA Flood Zone Map

Appendix III Initial and Final C-141

Appendix IV Photographic Documentation

Appendix V Laboratory Reports

# APPENDIX I

## SITE MAPS

## KARST MAP

## TOPOGRAPHIC MAP

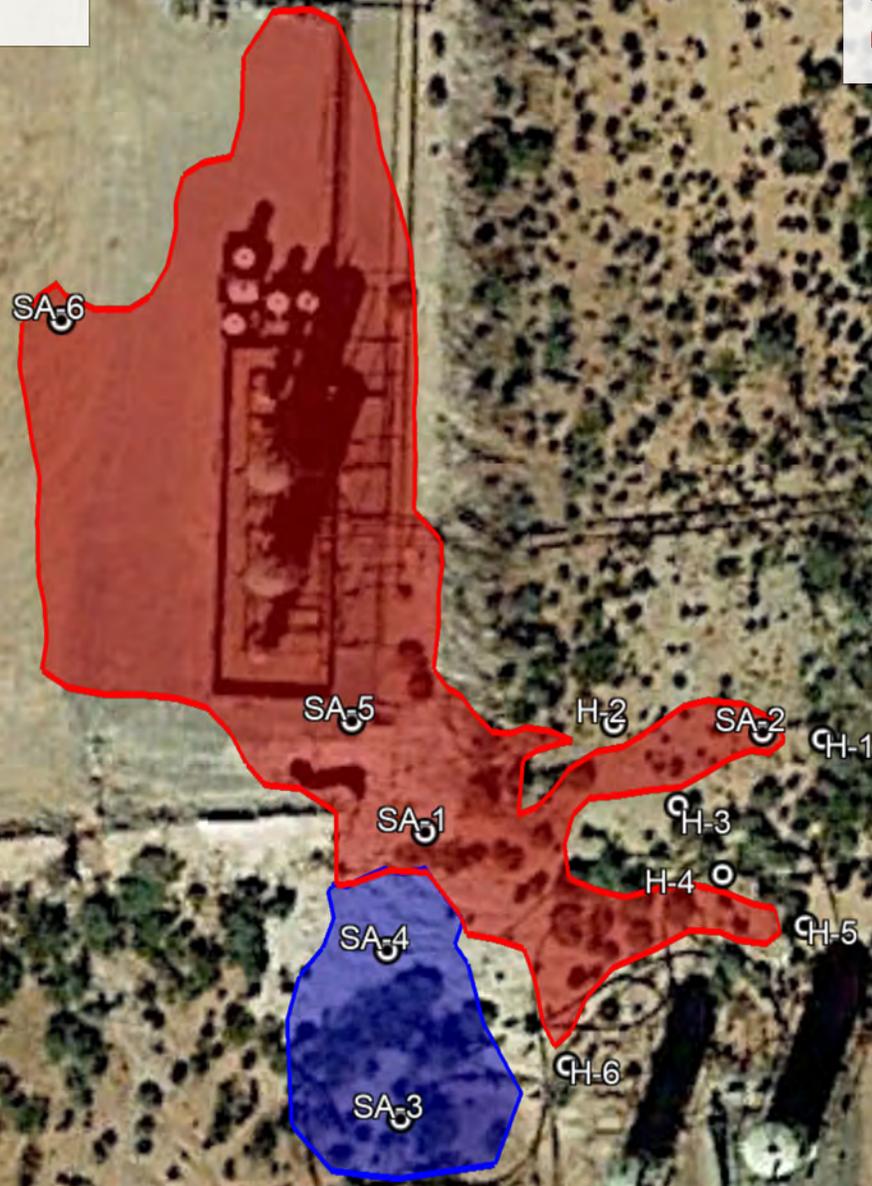
## LOCATOR MAP

# Crescent Hale 12 Federal #001

Cimarex Energy Co. of Colorado  
Incident# nAPP2236074851  
Eddy County, NM  
Site Assessment Map

## Legend

- Assessment/Delineation Sample
- 📌 Crescent Hale 12 Federal #001
- ▭ Overspray Area
- ▭ Spill Path

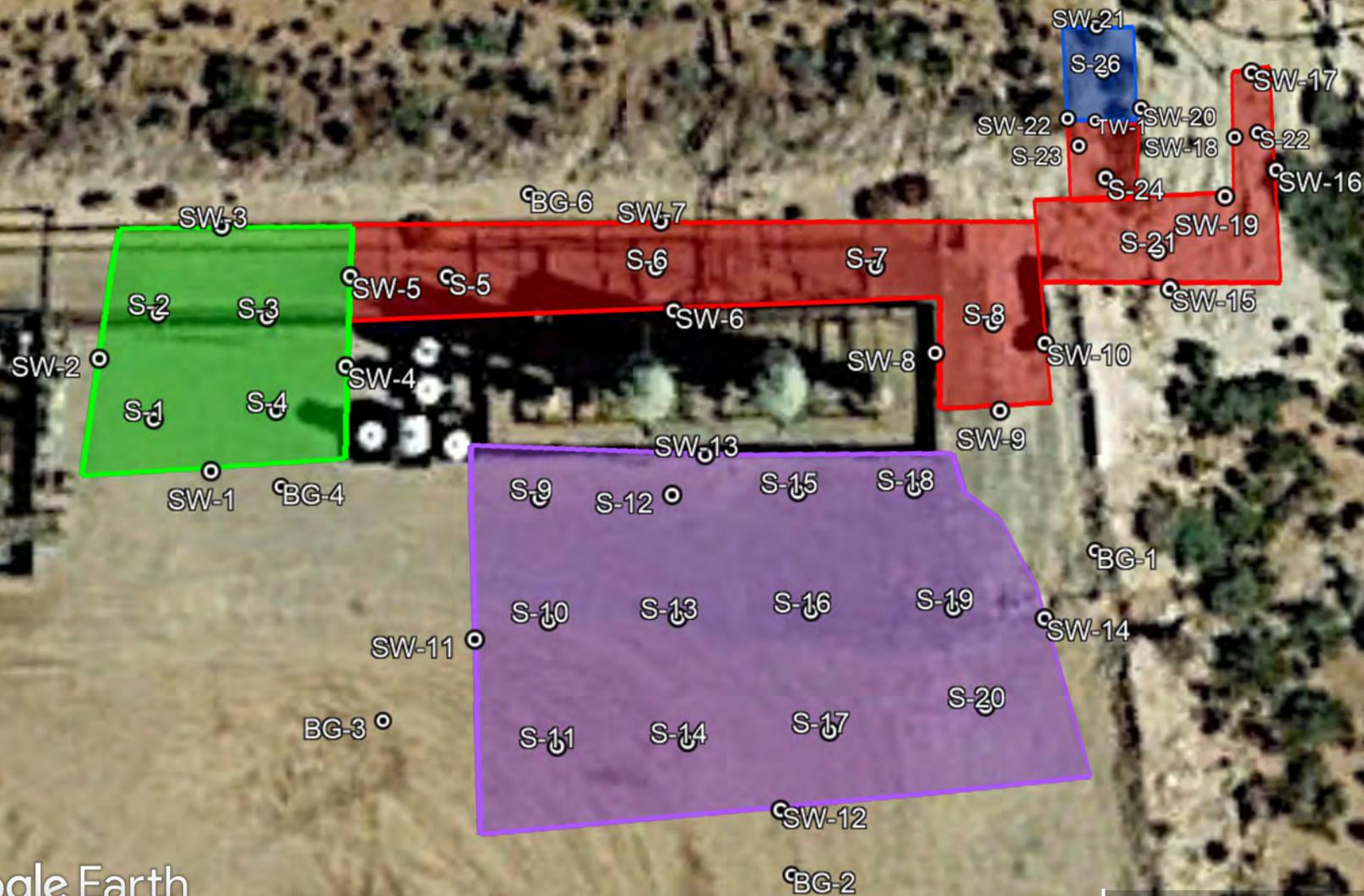


# Crescent Hale 12 Federal #001

Cimarex Energy Co. of Colorado  
Incident# nAPP2236074851  
Eddy County, NM  
Confirmation Sample Map

## Legend

- 2ft. Excavation
- 3ft. Excavation
- 4ft. Excavation
- 6in Excavation
- Confirmation Composite Sample

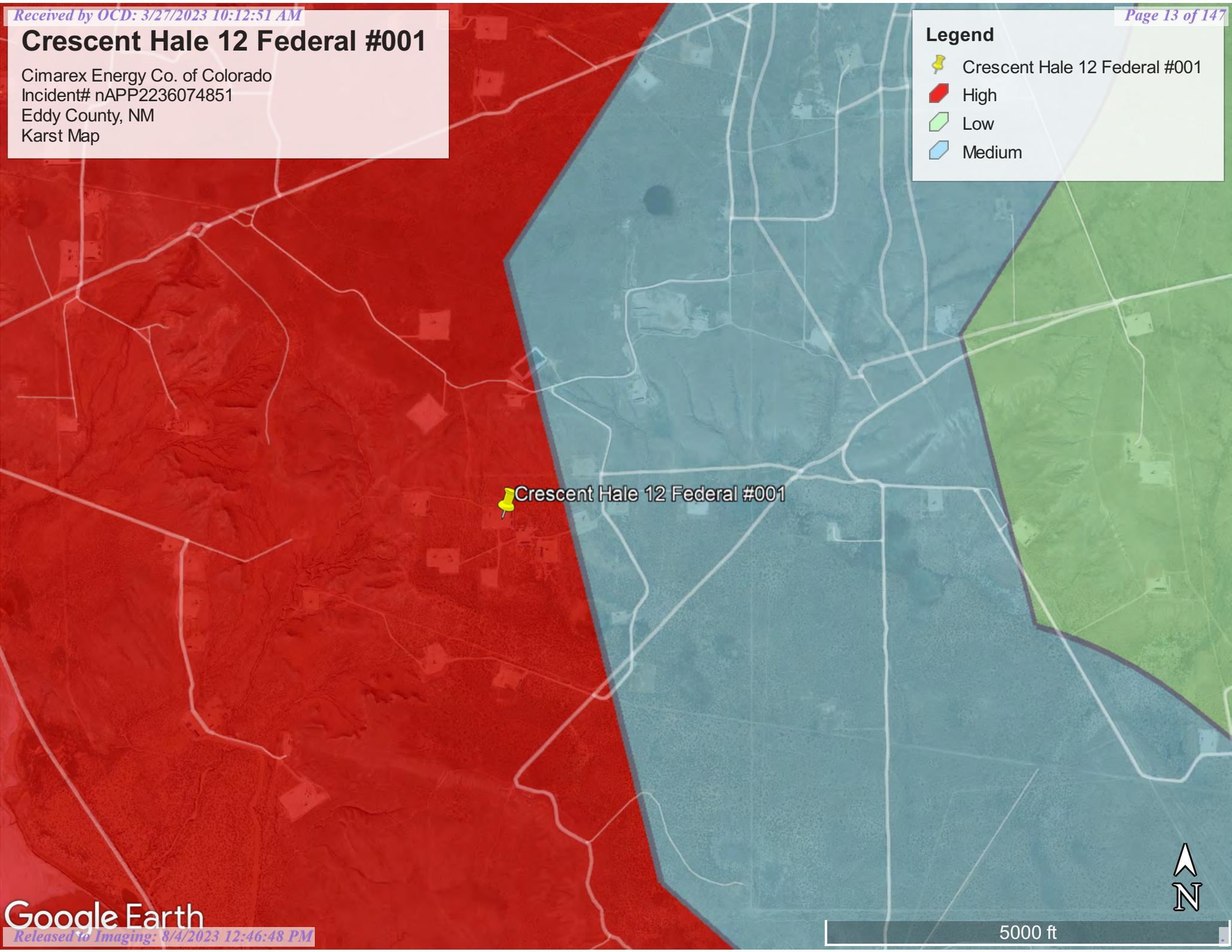


# Crescent Hale 12 Federal #001

Cimarex Energy Co. of Colorado  
Incident# nAPP2236074851  
Eddy County, NM  
Karst Map

**Legend**

-  Crescent Hale 12 Federal #001
-  High
-  Low
-  Medium



 Crescent Hale 12 Federal #001

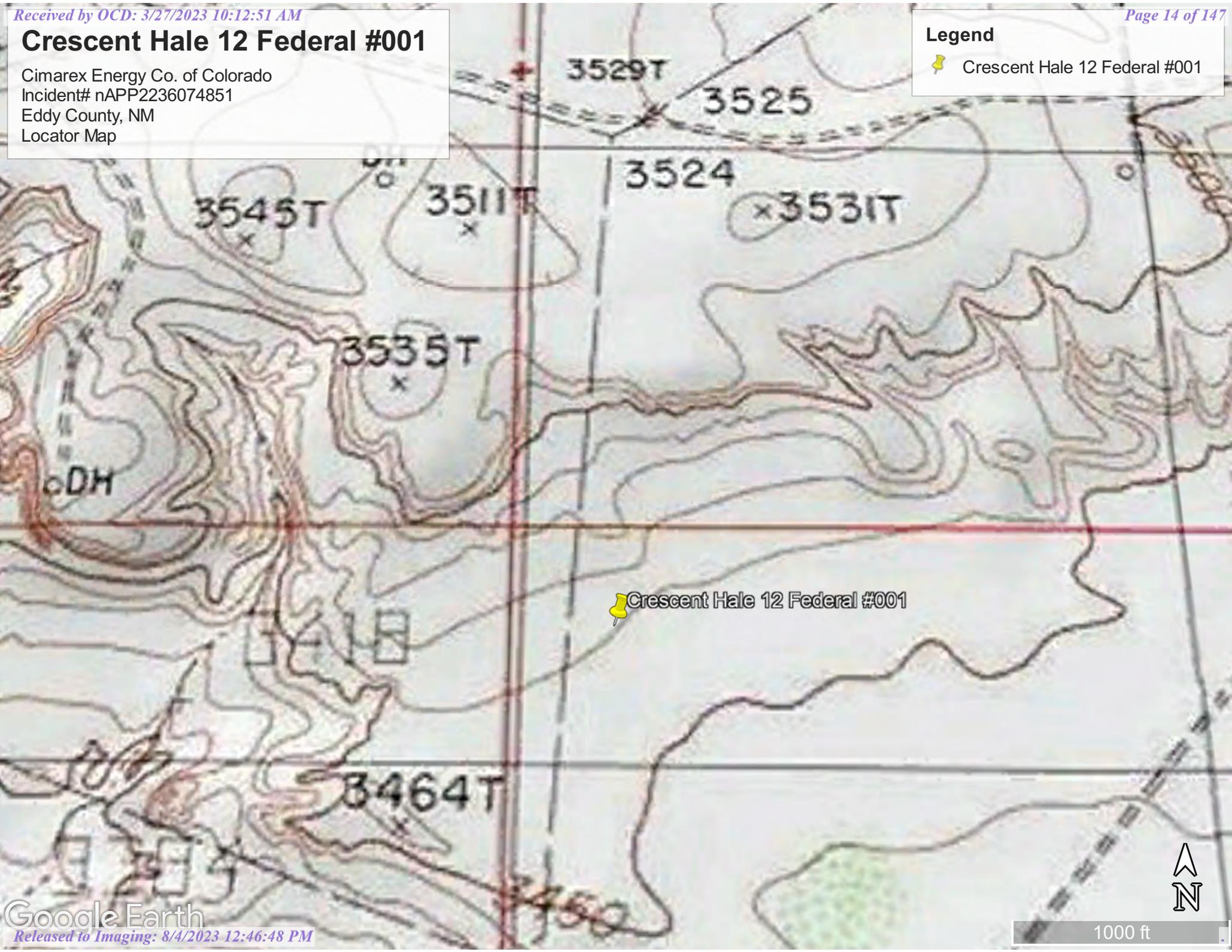


# Crescent Hale 12 Federal #001

Cimarex Energy Co. of Colorado  
Incident# nAPP2236074851  
Eddy County, NM  
Locator Map

**Legend**

-  Crescent Hale 12 Federal #001

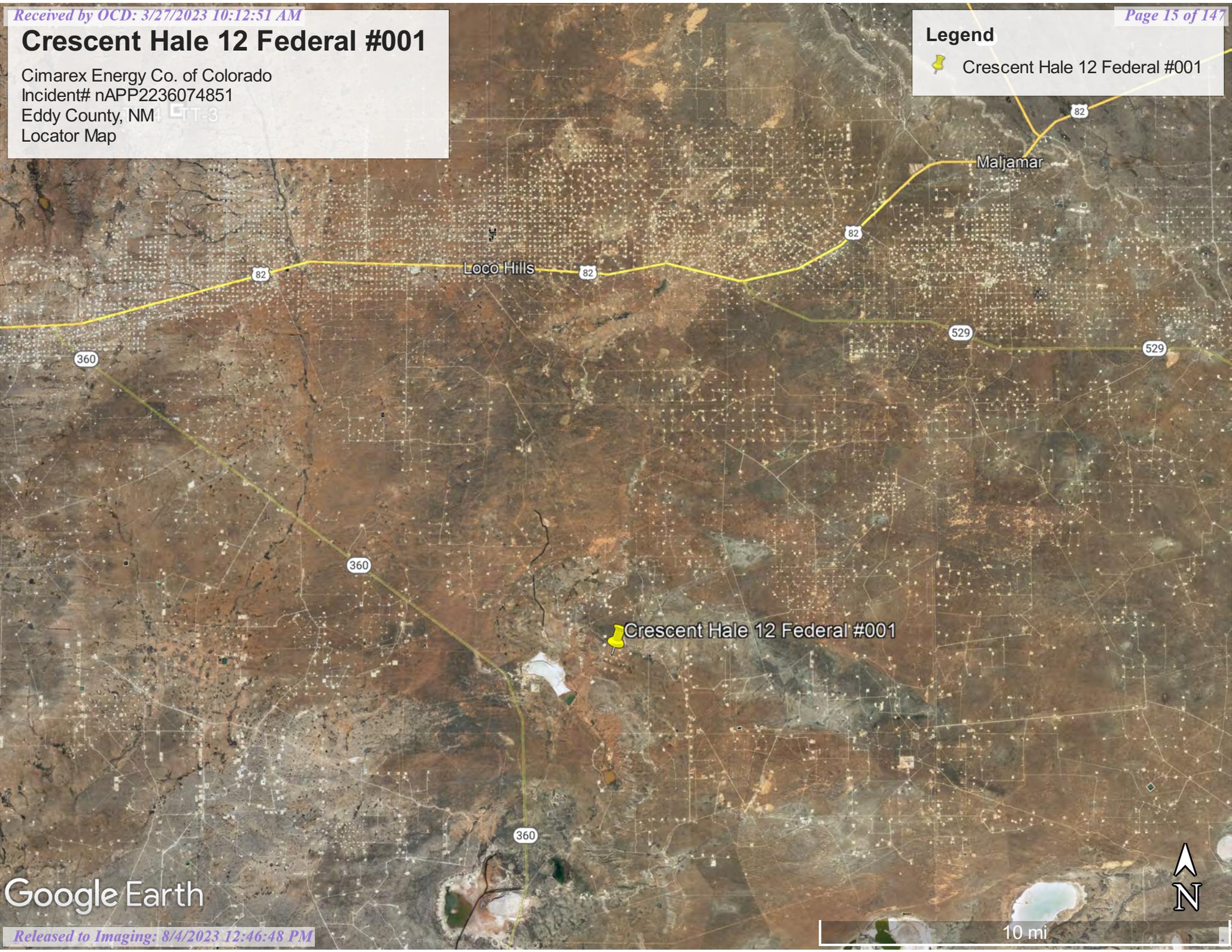


# Crescent Hale 12 Federal #001

Cimarex Energy Co. of Colorado  
Incident# nAPP2236074851  
Eddy County, NM  
Locator Map

**Legend**

-  Crescent Hale 12 Federal #001



Google Earth

10 mi



# APPENDIX II

## GROUNDWATER DATA

## SOIL SURVEY

## FEMA FLOOD ZONE



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
<a href="#">CP.00647.POD1</a>	O	CP	ED	4	2	2	15	19S	30E	598235	3614621*	<input type="checkbox"/>	2569	200	92 108
<a href="#">CP.00767.POD1</a>		CP	ED	3	2	35		18S	30E	599300	3619158*	<input type="checkbox"/>	2874	500	

Average Depth to Water: **92 feet**  
 Minimum Depth: **92 feet**  
 Maximum Depth: **92 feet**

**Record Count:** 2

**Basin/County Search:**

**County:** Eddy

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

**Easting (X):** 600093.88

**Northing (Y):** 3616395.64

**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.

2/21/23 10:01 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

Map Unit Description: Largo loam, 1 to 5 percent slopes---Eddy Area, New Mexico

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## Eddy Area, New Mexico

### LA—Largo loam, 1 to 5 percent slopes

#### Map Unit Setting

*National map unit symbol:* 1w4y

*Elevation:* 2,000 to 5,700 feet

*Mean annual precipitation:* 6 to 14 inches

*Mean annual air temperature:* 57 to 70 degrees F

*Frost-free period:* 180 to 260 days

*Farmland classification:* Not prime farmland

#### Map Unit Composition

*Largo and similar soils:* 98 percent

*Minor components:* 2 percent

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

#### Description of Largo

##### Setting

*Landform:* Plains, alluvial fans

*Landform position (three-dimensional):* Talf, rise

*Down-slope shape:* Convex, linear

*Across-slope shape:* Linear

*Parent material:* Calcareous alluvium

##### Typical profile

*H1 - 0 to 4 inches:* loam

*H2 - 4 to 47 inches:* silt loam

*H3 - 47 to 65 inches:* loam

##### Properties and qualities

*Slope:* 1 to 5 percent

*Depth to restrictive feature:* More than 80 inches

*Drainage class:* Well drained

*Runoff class:* Low

*Capacity of the most limiting layer to transmit water*

*(Ksat):* Moderately high (0.20 to 0.60 in/hr)

*Depth to water table:* More than 80 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Calcium carbonate, maximum content:* 15 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:* High (about 10.0 inches)

##### Interpretive groups

*Land capability classification (irrigated):* 3e

*Land capability classification (nonirrigated):* 7e

*Hydrologic Soil Group:* B

Map Unit Description: Largo loam, 1 to 5 percent slopes---Eddy Area, New Mexico

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*Ecological site:* R070BC007NM - Loamy  
*Hydric soil rating:* No

### **Minor Components**

#### **Largo**

*Percent of map unit:* 1 percent  
*Ecological site:* R070BC017NM - Bottomland  
*Hydric soil rating:* No

#### **Pajarito**

*Percent of map unit:* 1 percent  
*Ecological site:* R070BD003NM - Loamy Sand  
*Hydric soil rating:* No

## **Data Source Information**

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

# National Flood Hazard Layer FIRMette



103°56'15"W 32°41'6"N



## Legend

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

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



# APPENDIX III

## INITIAL C-141 AND FINAL C-141

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

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

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

Incident ID	nAPP2236074851
District RP	
Facility ID	fAPP2202535941
Application ID	

## Release Notification

### Responsible Party

Responsible Party: Cimarex Energy Co. of Colorado	OGRID: 162683
Contact Name: Laci Luig	Contact Telephone: (432) 571-7800
Contact email: laci.luig@coterra.com	Incident # (assigned by OCD) nAPP2236074851
Contact mailing address: 600 N Marienfeld Street, Ste. 600 Midland, TX 79701	

### Location of Release Source

Latitude 32.68068 \_\_\_\_\_ Longitude -103.93192 \_\_\_\_\_  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Crescent Hale 12 Federal 1	Site Type: Battery
Date Release Discovered: 12/26/2022	API# (if applicable)

Unit Letter	Section	Township	Range	County
D	12	19S	30E	Eddy

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

### Nature and Volume of Release

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

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 11	Volume Recovered (bbls) 4
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

**Cause of Release: Equipment Failure**

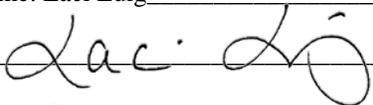
When the Lease Operator arrived on location, he found the heater treater had popped off and fluid running down the side of the vessel. The instrument air compressor was running continuously and the quick release on the bottom of the air compressor tank stuck open. The separator appears to have lost enough air supply, causing the back pressure valves to open and sending pressure to hit the heater pop off and blowing until it reset. An estimated total of 11 barrels fluid was released inside containment and onto the well pad. A vacuum truck recovered 7 barrels from the containment. The containment will be washed and a liner inspection scheduled. Impacted soils will be remediated.

Incident ID	nAPP2236074851
District RP	
Facility ID	fAPP2202535941
Application ID	

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

### Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain why:
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.
Printed Name: Laci Luig _____ Title: ESH Specialist _____ Signature:  _____ Date: 12/26/2022 _____ email: laci.luig@coterra.com _____ Telephone: (432) 208-3035 _____
<b><u>OCD Only</u></b> Received by: <u>Jocelyn Harimon</u> _____ Date: <u>03/27/2023</u> _____

Incident ID	nAPP2236074851
District RP	
Facility ID	fAPP2202535941
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?	_92_ (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

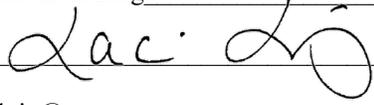
- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within 1/2-mile of the 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.

Incident ID	nAPP2236074851
District RP	
Facility ID	fAPP2202535941
Application ID	

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

Printed Name: Laci Luig \_\_\_\_\_ Title: ESH Specialist \_\_\_\_\_

Signature:  \_\_\_\_\_ Date: 3/27/2023 \_\_\_\_\_

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

**OCD Only**

Received by: Jocelyn Harimon \_\_\_\_\_ Date: 03/27/2023 \_\_\_\_\_

Incident ID	nAPP2236074851
District RP	
Facility ID	fAPP2202535941
Application ID	

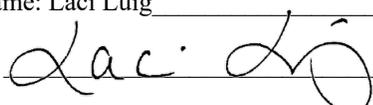
## Closure

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

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

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

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

Printed Name: Laci Luig Title: ESH Specialist  
 Signature:  Date: 3/27/2023  
 email: laci.luig@coterra.com Telephone: (432) 208-3035

**OCD Only**

Received by: Jocelyn Harimon Date: 03/27/2023

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: 8/4/2023  
 Printed Name: Ashley Maxwell Title: Environmental Specialist

**From:** [Laci Luig](#)  
**To:** [Michael Collier](#)  
**Subject:** FW: [EXTERNAL] nAPP2236074851 Crescent Hale 12 Federal 1 sample notification  
**Date:** Tuesday, February 7, 2023 11:04:34 AM

---

FYI...for closure report.

Thank you!

Laci Luig  
(432) 208-3035

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**From:** Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@emnrd.nm.gov>  
**Sent:** Tuesday, February 7, 2023 11:54 AM  
**To:** Laci Luig <Laci.Luig@coterra.com>  
**Cc:** Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>  
**Subject:** RE: [EXTERNAL] nAPP2236074851 Crescent Hale 12 Federal 1 sample notification

Laci,

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:** Laci Luig <[Laci.Luig@coterra.com](mailto:Laci.Luig@coterra.com)>  
**Sent:** Tuesday, February 7, 2023 10:44 AM  
**To:** Harimon, Jocelyn, EMNRD <[Jocelyn.Harimon@emnrd.nm.gov](mailto:Jocelyn.Harimon@emnrd.nm.gov)>  
**Subject:** RE: [EXTERNAL] nAPP2236074851 Crescent Hale 12 Federal 1 sample notification

Jocelyn,

I apologize, I listed the wrong sample date in the original email notification. The correct sample date should be February 7, 2023.

Laci Luig  
(432) 208-3035

---

**From:** Enviro, OCD, EMNRD <[OCD.Enviro@emnrd.nm.gov](mailto:OCD.Enviro@emnrd.nm.gov)>  
**Sent:** Friday, February 3, 2023 3:06 PM  
**To:** Laci Luig <[Laci.Luig@coterra.com](mailto:Laci.Luig@coterra.com)>  
**Cc:** Hamlet, Robert, EMNRD <[Robert.Hamlet@emnrd.nm.gov](mailto:Robert.Hamlet@emnrd.nm.gov)>; Bratcher, Michael, EMNRD <[mike.bratcher@emnrd.nm.gov](mailto:mike.bratcher@emnrd.nm.gov)>  
**Subject:** RE: [EXTERNAL] nAPP2236074851 Crescent Hale 12 Federal 1 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.

Laci,

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:** Laci Luig <[Laci.Luig@coterra.com](mailto:Laci.Luig@coterra.com)>  
**Sent:** Friday, February 3, 2023 8:15 AM  
**To:** Enviro, OCD, EMNRD <[OCD.Enviro@emnrd.nm.gov](mailto:OCD.Enviro@emnrd.nm.gov)>; BLM Spill Notifications <[blm\\_nm\\_cfo\\_spill@blm.gov](mailto:blm_nm_cfo_spill@blm.gov)>  
**Cc:** Jim Hawley <[JHawley@H-R-Enterprises.com](mailto:JHawley@H-R-Enterprises.com)>; Michael Collier <[mcollier@h-r-enterprises.com](mailto:mcollier@h-r-enterprises.com)>  
**Subject:** [EXTERNAL] nAPP2236074851 Crescent Hale 12 Federal 1 sample notification

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

links or opening attachments.

Good morning,

This email serves as notification for confirmation sampling on the Crescent Hale 12 Federal 1. Sampling is scheduled to begin as early as Tuesday, February 14<sup>th</sup>. H&R Enterprises will be onsite to collect the confirmation samples.

Thank you,



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

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This message may contain confidential and/or privileged information. If you are not the addressee or authorized to receive this for the addressee, you must not use, copy, disclose or take any action based on this message or any information herein. If you have received this message in error, please advise the sender immediately by reply e-mail and delete this message.

# APPENDIX IV

# PHOTOGRAPHIC DOCUMENTATION

PHOTOGRAPHIC DOCUMENTATION

INITIAL PHOTOGRAPHS



PHOTOGRAPHIC DOCUMENTATION

EXCAVATION PHOTOGRAPHS



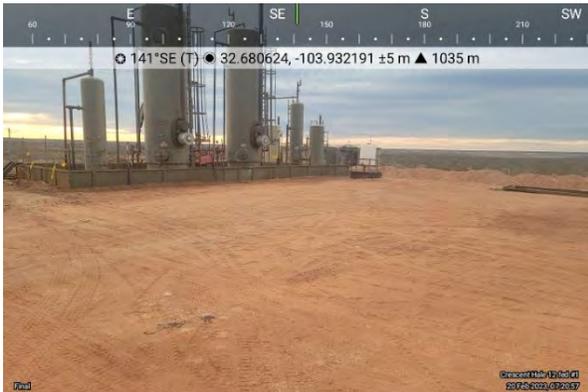
PHOTOGRAPHIC DOCUMENTATION

MICROBLAZE PHOTOGRAPHS



PHOTOGRAPHIC DOCUMENTATION

FINAL PHOTOGRAPHS



PHOTOGRAPHIC DOCUMENTATION

FINAL PHOTOGRAPHS



# APPENDIX V

## LABORATORY REPORTS



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

---

January 16, 2023

ASHTON THIELKE  
CARMONA RESOURCES  
310 W WALL ST SUITE 415  
MIDLAND, TX 79701

RE: CRESCENT HALE 12 FED 1H

Enclosed are the results of analyses for samples received by the laboratory on 01/12/23 13:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene  
Lab Director/Quality Manager



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

**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	01/12/2023	Sampling Date:	01/12/2023
Reported:	01/16/2023	Sampling Type:	Soil
Project Name:	CRESCENT HALE 12 FED 1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX- EDDY CO NM		

**Sample ID: SA - 1 ( 0-6" ) (H230172-01)**

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Benzene*</b>	<b>26.5</b>	2.00	01/13/2023	ND	1.97	98.7	2.00	11.3	QM-07	
<b>Toluene*</b>	<b>212</b>	2.00	01/13/2023	ND	2.07	104	2.00	5.09	QM-07	
<b>Ethylbenzene*</b>	<b>95.0</b>	2.00	01/13/2023	ND	2.10	105	2.00	7.66	QM-07	
<b>Total Xylenes*</b>	<b>193</b>	6.00	01/13/2023	ND	6.52	109	6.00	10.3	QM-07	
<b>Total BTEX</b>	<b>527</b>	12.0	01/13/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 128 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>80.0</b>	16.0	01/13/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
<b>GRO C6-C10*</b>	<b>3110</b>	50.0	01/12/2023	ND	195	97.6	200	0.623			
<b>DRO &gt;C10-C28*</b>	<b>9070</b>	50.0	01/12/2023	ND	181	90.4	200	2.49			
<b>EXT DRO &gt;C28-C36</b>	<b>1380</b>	50.0	01/12/2023	ND							

Surrogate: 1-Chlorooctane 353 % 48.2-134

Surrogate: 1-Chlorooctadecane 264 % 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:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	01/12/2023	Sampling Date:	01/12/2023
Reported:	01/16/2023	Sampling Type:	Soil
Project Name:	CRESCENT HALE 12 FED 1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX- EDDY CO NM		

**Sample ID: SA - 1 ( 1' ) (H230172-02)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>7.31</b>	1.00	01/13/2023	ND	1.97	98.7	2.00	11.3	
<b>Toluene*</b>	<b>79.0</b>	1.00	01/13/2023	ND	2.07	104	2.00	5.09	
<b>Ethylbenzene*</b>	<b>42.1</b>	1.00	01/13/2023	ND	2.10	105	2.00	7.66	
<b>Total Xylenes*</b>	<b>88.5</b>	3.00	01/13/2023	ND	6.52	109	6.00	10.3	
<b>Total BTEX</b>	<b>217</b>	6.00	01/13/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 128 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	01/13/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>2360</b>	50.0	01/13/2023	ND	195	97.6	200	0.623		
<b>DRO &gt;C10-C28*</b>	<b>5620</b>	50.0	01/13/2023	ND	181	90.4	200	2.49		
<b>EXT DRO &gt;C28-C36</b>	<b>835</b>	50.0	01/13/2023	ND						

Surrogate: 1-Chlorooctane 329 % 48.2-134

Surrogate: 1-Chlorooctadecane 244 % 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:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	01/12/2023	Sampling Date:	01/12/2023
Reported:	01/16/2023	Sampling Type:	Soil
Project Name:	CRESCENT HALE 12 FED 1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX- EDDY CO NM		

**Sample ID: SA - 1 ( 2' ) (H230172-03)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.054</b>	0.050	01/13/2023	ND	1.97	98.7	2.00	11.3	
<b>Toluene*</b>	<b>0.754</b>	0.050	01/13/2023	ND	2.07	104	2.00	5.09	
<b>Ethylbenzene*</b>	<b>0.798</b>	0.050	01/13/2023	ND	2.10	105	2.00	7.66	
<b>Total Xylenes*</b>	<b>1.96</b>	0.150	01/13/2023	ND	6.52	109	6.00	10.3	
<b>Total BTEX</b>	<b>3.57</b>	0.300	01/13/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 129 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	01/13/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>40.4</b>	10.0	01/13/2023	ND	195	97.6	200	0.623	
<b>DRO &gt;C10-C28*</b>	<b>246</b>	10.0	01/13/2023	ND	181	90.4	200	2.49	
<b>EXT DRO &gt;C28-C36</b>	<b>44.4</b>	10.0	01/13/2023	ND					

Surrogate: 1-Chlorooctane 97.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 127 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	01/12/2023	Sampling Date:	01/12/2023
Reported:	01/16/2023	Sampling Type:	Soil
Project Name:	CRESCENT HALE 12 FED 1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX- EDDY CO NM		

**Sample ID: SA - 1 ( 3' ) (H230172-04)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/13/2023	ND	1.97	98.7	2.00	11.3	
<b>Toluene*</b>	<b>0.294</b>	0.050	01/13/2023	ND	2.07	104	2.00	5.09	
<b>Ethylbenzene*</b>	<b>0.282</b>	0.050	01/13/2023	ND	2.10	105	2.00	7.66	
<b>Total Xylenes*</b>	<b>0.672</b>	0.150	01/13/2023	ND	6.52	109	6.00	10.3	
<b>Total BTEX</b>	<b>1.25</b>	0.300	01/13/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>16.0</b>	16.0	01/13/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>35.0</b>	10.0	01/13/2023	ND	195	97.6	200	0.623	
<b>DRO &gt;C10-C28*</b>	<b>203</b>	10.0	01/13/2023	ND	181	90.4	200	2.49	
<b>EXT DRO &gt;C28-C36</b>	<b>27.3</b>	10.0	01/13/2023	ND					

Surrogate: 1-Chlorooctane 85.6 % 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:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	01/12/2023	Sampling Date:	01/12/2023
Reported:	01/16/2023	Sampling Type:	Soil
Project Name:	CRESCENT HALE 12 FED 1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX- EDDY CO NM		

**Sample ID: SA - 1 ( 3.5' ) (H230172-05)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.155</b>	0.050	01/13/2023	ND	1.97	98.7	2.00	11.3	
<b>Toluene*</b>	<b>1.10</b>	0.050	01/13/2023	ND	2.07	104	2.00	5.09	
<b>Ethylbenzene*</b>	<b>0.798</b>	0.050	01/13/2023	ND	2.10	105	2.00	7.66	
<b>Total Xylenes*</b>	<b>1.85</b>	0.150	01/13/2023	ND	6.52	109	6.00	10.3	
<b>Total BTEX</b>	<b>3.90</b>	0.300	01/13/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 128 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/13/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>45.2</b>	10.0	01/13/2023	ND	195	97.6	200	0.623	
<b>DRO &gt;C10-C28*</b>	<b>284</b>	10.0	01/13/2023	ND	181	90.4	200	2.49	
<b>EXT DRO &gt;C28-C36</b>	<b>39.2</b>	10.0	01/13/2023	ND					

Surrogate: 1-Chlorooctane 95.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	01/12/2023	Sampling Date:	01/12/2023
Reported:	01/16/2023	Sampling Type:	Soil
Project Name:	CRESCENT HALE 12 FED 1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX- EDDY CO NM		

**Sample ID: SA - 2 ( 0-6" ) (H230172-06)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>7.37</b>	0.500	01/13/2023	ND	1.97	98.7	2.00	11.3	
<b>Toluene*</b>	<b>56.4</b>	0.500	01/13/2023	ND	2.07	104	2.00	5.09	
<b>Ethylbenzene*</b>	<b>23.7</b>	0.500	01/13/2023	ND	2.10	105	2.00	7.66	
<b>Total Xylenes*</b>	<b>46.7</b>	1.50	01/13/2023	ND	6.52	109	6.00	10.3	
<b>Total BTEX</b>	<b>134</b>	3.00	01/13/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 126 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>16.0</b>	16.0	01/13/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>1030</b>	10.0	01/13/2023	ND	195	97.6	200	0.623		
<b>DRO &gt;C10-C28*</b>	<b>1770</b>	10.0	01/13/2023	ND	181	90.4	200	2.49		
<b>EXT DRO &gt;C28-C36</b>	<b>234</b>	10.0	01/13/2023	ND						

Surrogate: 1-Chlorooctane 139 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	01/12/2023	Sampling Date:	01/12/2023
Reported:	01/16/2023	Sampling Type:	Soil
Project Name:	CRESCENT HALE 12 FED 1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX- EDDY CO NM		

**Sample ID: SA - 2 ( 1' ) (H230172-07)**

BTEX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.102</b>	0.050	01/13/2023	ND	1.90	95.1	2.00	6.75	
<b>Toluene*</b>	<b>0.816</b>	0.050	01/13/2023	ND	2.11	105	2.00	0.954	QM-07
<b>Ethylbenzene*</b>	<b>0.635</b>	0.050	01/13/2023	ND	2.11	105	2.00	3.89	QM-07
<b>Total Xylenes*</b>	<b>1.52</b>	0.150	01/13/2023	ND	6.46	108	6.00	5.15	QM-07
<b>Total BTEX</b>	<b>3.07</b>	0.300	01/13/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 135 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/13/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>58.4</b>	10.0	01/13/2023	ND	195	97.6	200	0.623	
<b>DRO &gt;C10-C28*</b>	<b>295</b>	10.0	01/13/2023	ND	181	90.4	200	2.49	
<b>EXT DRO &gt;C28-C36</b>	<b>52.1</b>	10.0	01/13/2023	ND					

Surrogate: 1-Chlorooctane 92.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	01/12/2023	Sampling Date:	01/12/2023
Reported:	01/16/2023	Sampling Type:	Soil
Project Name:	CRESCENT HALE 12 FED 1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX- EDDY CO NM		

**Sample ID: SA - 2 ( 2' ) (H230172-08)**

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	01/13/2023	ND	1.90	95.1	2.00	6.75		
<b>Toluene*</b>	<b>0.128</b>	0.050	01/13/2023	ND	2.11	105	2.00	0.954		
<b>Ethylbenzene*</b>	<b>0.062</b>	0.050	01/13/2023	ND	2.11	105	2.00	3.89		
Total Xylenes*	<0.150	0.150	01/13/2023	ND	6.46	108	6.00	5.15		
Total BTEX	<0.300	0.300	01/13/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	01/13/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/13/2023	ND	195	97.6	200	0.623		
<b>DRO &gt;C10-C28*</b>	<b>38.6</b>	10.0	01/13/2023	ND	181	90.4	200	2.49		
EXT DRO >C28-C36	<10.0	10.0	01/13/2023	ND						

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	01/12/2023	Sampling Date:	01/12/2023
Reported:	01/16/2023	Sampling Type:	Soil
Project Name:	CRESCENT HALE 12 FED 1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX- EDDY CO NM		

**Sample ID: SA - 2 ( 3' ) (H230172-09)**

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	01/13/2023	ND	1.90	95.1	2.00	6.75	
<b>Toluene*</b>	<b>0.389</b>	0.050	01/13/2023	ND	2.11	105	2.00	0.954	
<b>Ethylbenzene*</b>	<b>0.358</b>	0.050	01/13/2023	ND	2.11	105	2.00	3.89	
<b>Total Xylenes*</b>	<b>0.908</b>	0.150	01/13/2023	ND	6.46	108	6.00	5.15	
<b>Total BTEX</b>	<b>1.66</b>	0.300	01/13/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 132 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>64.0</b>	16.0	01/13/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>16.3</b>	10.0	01/13/2023	ND	195	97.6	200	0.623	
<b>DRO &gt;C10-C28*</b>	<b>133</b>	10.0	01/13/2023	ND	181	90.4	200	2.49	
<b>EXT DRO &gt;C28-C36</b>	<b>22.8</b>	10.0	01/13/2023	ND					

Surrogate: 1-Chlorooctane 98.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	01/12/2023	Sampling Date:	01/12/2023
Reported:	01/16/2023	Sampling Type:	Soil
Project Name:	CRESCENT HALE 12 FED 1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX- EDDY CO NM		

**Sample ID: SA - 2 ( 4' ) (H230172-10)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.102</b>	0.050	01/13/2023	ND	1.90	95.1	2.00	6.75	
<b>Toluene*</b>	<b>0.351</b>	0.050	01/13/2023	ND	2.11	105	2.00	0.954	
<b>Ethylbenzene*</b>	<b>0.109</b>	0.050	01/13/2023	ND	2.11	105	2.00	3.89	
<b>Total Xylenes*</b>	<b>0.222</b>	0.150	01/13/2023	ND	6.46	108	6.00	5.15	
<b>Total BTEX</b>	<b>0.784</b>	0.300	01/13/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 126 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>864</b>	16.0	01/13/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/13/2023	ND	195	97.6	200	0.623	
<b>DRO &gt;C10-C28*</b>	<b>34.7</b>	10.0	01/13/2023	ND	181	90.4	200	2.49	
EXT DRO >C28-C36	<10.0	10.0	01/13/2023	ND					

Surrogate: 1-Chlorooctane 95.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
\*\* Samples not received at proper temperature of 6°C or below.
\*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

Chain of Custody

Work Order No: HA30173

Page 1 of 1

Project Manager:	Ashton Thielke	Bill to: (if different)	Laci Luig
Company Name:	Carmona Resources	Company Name:	Cimarex Energy
Address:	310 West Wall Ste. 415	Address:	600 N Marinfeld St, Suite 600
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-813-5347	Email:	laci.luig@colerra.com & ashton.thielke@colerra.com

Work Order Comments	
Program: UST/PST	<input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> upertund
State of Project:	
Reporting: Level II	<input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables: EDD	<input type="checkbox"/> ADAPT <input type="checkbox"/> Other:

Project Name:	Project Number:	Project Location:	Sampler's Name:	PO #:	Turn Around		Parameters	ANALYSIS REQUEST	Preservative Codes	Sample Comments
					<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Rush				
Crescent Hale 12 Fed 1H		Eddy Co. NM	AT							
SAMPLE RECEIPT		Temp Blank:	Yes <input checked="" type="radio"/> No <input type="radio"/>	Yes <input type="radio"/> No <input checked="" type="radio"/>	Thermometer ID:	Yes <input type="radio"/> No <input checked="" type="radio"/>				
Received Inlact:		Cooler Custody Seals:	Yes <input type="radio"/> No <input checked="" type="radio"/>	Correction Factor:	-0.6°C					
Sample Custody Seals:		Temperature Reading:	Yes <input type="radio"/> No <input checked="" type="radio"/>	Temperature Reading:	5.8°C					
Total Containers:		Corrected Temperature:	Yes <input type="radio"/> No <input checked="" type="radio"/>	Corrected Temperature:	5.2°C					
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont	BTEX 8021B	TPH 8015M ( GRO + DRO + MRO)	Chloride 4500	
SA-1 (0-6")	1/12/2023		X		Grab/	1	X	X	X	
SA-1 (1')	1/12/2023		X		Grab/	1	X	X	X	
SA-1 (2')	1/12/2023		X		Grab/	1	X	X	X	
SA-1 (3')	1/12/2023		X		Grab/	1	X	X	X	
SA-1 (3.5')	1/12/2023		X		Grab/	1	X	X	X	
SA-2 (0-6")	1/12/2023		X		Grab/	1	X	X	X	
SA-2 (1')	1/12/2023		X		Grab/	1	X	X	X	
SA-2 (2')	1/12/2023		X		Grab/	1	X	X	X	
SA-2 (3')	1/12/2023		X		Grab/	1	X	X	X	
SA-2 (4')	1/12/2023		X		Grab/	1	X	X	X	

Please send results to cmoehring@carmonaresources.com and mcarmona@carmonaresources.com

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	1-12-23 1340			



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

---

February 09, 2023

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

RE: CRESCENT HALE 12 FED #001 ( C.H. )

Enclosed are the results of analyses for samples received by the laboratory on 02/07/23 13:04.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene  
Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	02/07/2023	Sampling Date:	02/07/2023
Reported:	02/09/2023	Sampling Type:	Soil
Project Name:	CRESCENT HALE 12 FED #001 ( C.H. )	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: SA - 1 4' (H230523-01)**

BTEX 8260B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.025	0.025	02/08/2023	ND	1.95	97.3	2.00	1.28		
Toluene*	<0.025	0.025	02/08/2023	ND	2.12	106	2.00	1.29		
Ethylbenzene*	<0.025	0.025	02/08/2023	ND	2.21	110	2.00	1.69		
Total Xylenes*	<0.075	0.075	02/08/2023	ND	6.50	108	6.00	2.30		
Total BTEX	<0.150	0.150	02/08/2023	ND						

Surrogate: Dibromofluoromethane 96.6 % 86.7-111

Surrogate: Toluene-d8 103 % 89.3-110

Surrogate: 4-Bromofluorobenzene 100 % 88.2-108

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	02/08/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/08/2023	ND	201	100	200	14.3		
DRO >C10-C28*	<10.0	10.0	02/08/2023	ND	202	101	200	17.3		
EXT DRO >C28-C36	<10.0	10.0	02/08/2023	ND						

Surrogate: 1-Chlorooctane 83.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.2 % 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:	02/07/2023	Sampling Date:	02/07/2023
Reported:	02/09/2023	Sampling Type:	Soil
Project Name:	CRESCENT HALE 12 FED #001 ( C.H. )	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: SA - 1 5' (H230523-02)**

BTEX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	02/08/2023	ND	1.95	97.3	2.00	1.28	
Toluene*	<0.025	0.025	02/08/2023	ND	2.12	106	2.00	1.29	
Ethylbenzene*	<0.025	0.025	02/08/2023	ND	2.21	110	2.00	1.69	
Total Xylenes*	<0.075	0.075	02/08/2023	ND	6.50	108	6.00	2.30	
Total BTEX	<0.150	0.150	02/08/2023	ND					

Surrogate: Dibromofluoromethane 95.5 % 86.7-111

Surrogate: Toluene-d8 102 % 89.3-110

Surrogate: 4-Bromofluorobenzene 98.9 % 88.2-108

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	02/08/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/08/2023	ND	201	100	200	14.3	
DRO >C10-C28*	<10.0	10.0	02/08/2023	ND	202	101	200	17.3	
EXT DRO >C28-C36	<10.0	10.0	02/08/2023	ND					

Surrogate: 1-Chlorooctane 99.4 % 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:	02/07/2023	Sampling Date:	02/07/2023
Reported:	02/09/2023	Sampling Type:	Soil
Project Name:	CRESCENT HALE 12 FED #001 ( C.H. )	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: SA - 1 6' (H230523-03)**

BTEX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	02/08/2023	ND	1.95	97.3	2.00	1.28	
Toluene*	<0.025	0.025	02/08/2023	ND	2.12	106	2.00	1.29	
Ethylbenzene*	<0.025	0.025	02/08/2023	ND	2.21	110	2.00	1.69	
Total Xylenes*	<0.075	0.075	02/08/2023	ND	6.50	108	6.00	2.30	
Total BTEX	<0.150	0.150	02/08/2023	ND					

Surrogate: Dibromofluoromethane 94.5 % 86.7-111  
 Surrogate: Toluene-d8 102 % 89.3-110  
 Surrogate: 4-Bromofluorobenzene 98.7 % 88.2-108

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>16.0</b>	16.0	02/08/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/08/2023	ND	201	100	200	14.3	
<b>DRO &gt;C10-C28*</b>	<b>35.4</b>	10.0	02/08/2023	ND	202	101	200	17.3	
EXT DRO >C28-C36	<10.0	10.0	02/08/2023	ND					

Surrogate: 1-Chlorooctane 86.5 % 48.2-134  
 Surrogate: 1-Chlorooctadecane 93.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	02/07/2023	Sampling Date:	02/07/2023
Reported:	02/09/2023	Sampling Type:	Soil
Project Name:	CRESCENT HALE 12 FED #001 ( C.H. )	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: SA - 2 8' (H230523-04)**

BTEX 8260B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.025	0.025	02/08/2023	ND	1.95	97.3	2.00	1.28		
Toluene*	<0.025	0.025	02/08/2023	ND	2.12	106	2.00	1.29		
Ethylbenzene*	<0.025	0.025	02/08/2023	ND	2.21	110	2.00	1.69		
Total Xylenes*	<0.075	0.075	02/08/2023	ND	6.50	108	6.00	2.30		
Total BTEX	<0.150	0.150	02/08/2023	ND						

Surrogate: Dibromofluoromethane 93.6 % 86.7-111  
 Surrogate: Toluene-d8 101 % 89.3-110  
 Surrogate: 4-Bromofluorobenzene 101 % 88.2-108

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>1230</b>	16.0	02/08/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/08/2023	ND	207	104	200	2.16		
DRO >C10-C28*	<10.0	10.0	02/08/2023	ND	205	102	200	4.52		
EXT DRO >C28-C36	<10.0	10.0	02/08/2023	ND						

Surrogate: 1-Chlorooctane 112 % 48.2-134  
 Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	02/07/2023	Sampling Date:	02/07/2023
Reported:	02/09/2023	Sampling Type:	Soil
Project Name:	CRESCENT HALE 12 FED #001 ( C.H. )	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: SA - 2 10' (H230523-05)**

BTEX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	02/08/2023	ND	1.95	97.3	2.00	1.28	
Toluene*	<0.025	0.025	02/08/2023	ND	2.12	106	2.00	1.29	
Ethylbenzene*	<0.025	0.025	02/08/2023	ND	2.21	110	2.00	1.69	
Total Xylenes*	<0.075	0.075	02/08/2023	ND	6.50	108	6.00	2.30	
Total BTEX	<0.150	0.150	02/08/2023	ND					

Surrogate: Dibromofluoromethane 92.5 % 86.7-111  
 Surrogate: Toluene-d8 101 % 89.3-110  
 Surrogate: 4-Bromofluorobenzene 101 % 88.2-108

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>928</b>	16.0	02/08/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/08/2023	ND	207	104	200	2.16	
DRO >C10-C28*	<10.0	10.0	02/08/2023	ND	205	102	200	4.52	
EXT DRO >C28-C36	<10.0	10.0	02/08/2023	ND					

Surrogate: 1-Chlorooctane 118 % 48.2-134  
 Surrogate: 1-Chlorooctadecane 121 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	02/07/2023	Sampling Date:	02/07/2023
Reported:	02/09/2023	Sampling Type:	Soil
Project Name:	CRESCENT HALE 12 FED #001 ( C.H. )	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: SA - 2 12' (H230523-06)**

BTEX 8260B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.025	0.025	02/08/2023	ND	1.95	97.3	2.00	1.28		
Toluene*	<0.025	0.025	02/08/2023	ND	2.12	106	2.00	1.29		
Ethylbenzene*	<0.025	0.025	02/08/2023	ND	2.21	110	2.00	1.69		
Total Xylenes*	<0.075	0.075	02/08/2023	ND	6.50	108	6.00	2.30		
Total BTEX	<0.150	0.150	02/08/2023	ND						

Surrogate: Dibromofluoromethane 93.8 % 86.7-111  
 Surrogate: Toluene-d8 102 % 89.3-110  
 Surrogate: 4-Bromofluorobenzene 99.4 % 88.2-108

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>192</b>	16.0	02/08/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/08/2023	ND	207	104	200	2.16		
DRO >C10-C28*	<10.0	10.0	02/08/2023	ND	205	102	200	4.52		
EXT DRO >C28-C36	<10.0	10.0	02/08/2023	ND						

Surrogate: 1-Chlorooctane 105 % 48.2-134  
 Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager



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

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

Company Name: <b>HR Enterprises</b>		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>	
Project Manager: <b>M. Collier</b>		P.O. #:		Company: <b>Linarex Energy</b>	
Address:		Attn: <b>Laci Luig</b>		Address:	
City: State: Zip:		City: State: Zip:		City: State: Zip:	
Phone #: Fax #:		Project Owner:		Project Name: <b>CRESCENT HALE Rd Fed#1 (CH)</b>	
Project Location:		Project Location:		Project Location:	
Sampler Name: <b>R.B</b>		Phone #:		Fax #:	
FOR LAB USE ONLY		FOR LAB USE ONLY		FOR LAB USE ONLY	
Lab I.D. <b>HA30583</b>		Sample I.D.		Sample I.D.	
1 SA-1 4'		(G)RAB OR (C)OMP.		DATE	
2 SA-1 5'		# CONTAINERS		TIME	
3 SA-1 6'		GROUNDWATER		X BTEX	
4 SA-2 8'		WASTEWATER		X TPH	
5 SA-2 10'		SOIL		X Chlorides	
6 SA-2 12'		OIL			
7 SA-2 14'		SLUDGE			
8 SA-2 16'		OTHER:			
9 SA-2 18'		ACID/BASE:			
10 SA-2 20'		ICE / COOL			
11 SA-2 22'		OTHER:			
12 SA-2 24'		DATE			
13 SA-2 26'		TIME			
14 SA-2 28'		MATRIX			
15 SA-2 30'		PRESERV.			
16 SA-2 32'		SAMPLING			
17 SA-2 34'					
18 SA-2 36'					
19 SA-2 38'					
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Delivered By: (Circle One)		Observed Temp. °C		CHECKED BY: <i>[Signature]</i>	
Sampler - UPS - Bus - Other:		Corrected Temp. °C		Thermometer ID #113	
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PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

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January 20, 2023

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

RE: CRESCENT HALE 12 FED #001 ( C.H. )

Enclosed are the results of analyses for samples received by the laboratory on 01/17/23 12:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

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:	01/17/2023	Sampling Date:	01/17/2023
Reported:	01/20/2023	Sampling Type:	Soil
Project Name:	CRESCENT HALE 12 FED #001 ( C.H. )	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: SA - 2 5' (H230228-01)**

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/18/2023	ND	2.14	107	2.00	3.79	QR-03	
Toluene*	<0.050	0.050	01/18/2023	ND	2.15	108	2.00	4.97	QR-03	
Ethylbenzene*	<0.050	0.050	01/18/2023	ND	2.11	105	2.00	5.23	QR-03	
Total Xylenes*	<0.150	0.150	01/18/2023	ND	6.48	108	6.00	5.14	QR-03	
Total BTEX	<0.300	0.300	01/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1170	16.0	01/17/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/17/2023	ND	207	104	200	8.35		
DRO >C10-C28*	<10.0	10.0	01/17/2023	ND	191	95.3	200	5.60		
EXT DRO >C28-C36	<10.0	10.0	01/17/2023	ND						

Surrogate: 1-Chlorooctane 80.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.6 % 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:	01/17/2023	Sampling Date:	01/17/2023
Reported:	01/20/2023	Sampling Type:	Soil
Project Name:	CRESCENT HALE 12 FED #001 ( C.H. )	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: SA - 2 6' (H230228-02)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/18/2023	ND	2.14	107	2.00	3.79	
Toluene*	<0.050	0.050	01/18/2023	ND	2.15	108	2.00	4.97	
Ethylbenzene*	<0.050	0.050	01/18/2023	ND	2.11	105	2.00	5.23	
Total Xylenes*	<0.150	0.150	01/18/2023	ND	6.48	108	6.00	5.14	
Total BTEX	<0.300	0.300	01/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 121 % 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	1180	16.0	01/17/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/17/2023	ND	165	82.5	200	4.79	
DRO >C10-C28*	<10.0	10.0	01/17/2023	ND	153	76.4	200	7.72	
EXT DRO >C28-C36	<10.0	10.0	01/17/2023	ND					

Surrogate: 1-Chlorooctane 85.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.0 % 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:	01/17/2023	Sampling Date:	01/17/2023
Reported:	01/20/2023	Sampling Type:	Soil
Project Name:	CRESCENT HALE 12 FED #001 ( C.H. )	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: SA - 3 0' (H230228-03)**

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	01/18/2023	ND	2.14	107	2.00	3.79	
Toluene*	<0.050	0.050	01/18/2023	ND	2.15	108	2.00	4.97	
Ethylbenzene*	<0.050	0.050	01/18/2023	ND	2.11	105	2.00	5.23	
Total Xylenes*	<0.150	0.150	01/18/2023	ND	6.48	108	6.00	5.14	
Total BTEX	<0.300	0.300	01/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 121 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	01/17/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/17/2023	ND	165	82.5	200	4.79	
<b>DRO &gt;C10-C28*</b>	<b>238</b>	10.0	01/17/2023	ND	153	76.4	200	7.72	
<b>EXT DRO &gt;C28-C36</b>	<b>86.6</b>	10.0	01/17/2023	ND					

Surrogate: 1-Chlorooctane 86.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 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:	01/17/2023	Sampling Date:	01/17/2023
Reported:	01/20/2023	Sampling Type:	Soil
Project Name:	CRESCENT HALE 12 FED #001 ( C.H. )	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: SA - 3 1' (H230228-04)**

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/18/2023	ND	2.14	107	2.00	3.79		
Toluene*	<0.050	0.050	01/18/2023	ND	2.15	108	2.00	4.97		
Ethylbenzene*	<0.050	0.050	01/18/2023	ND	2.11	105	2.00	5.23		
Total Xylenes*	<0.150	0.150	01/18/2023	ND	6.48	108	6.00	5.14		
Total BTEX	<0.300	0.300	01/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/17/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/17/2023	ND	165	82.5	200	4.79		
DRO >C10-C28*	<10.0	10.0	01/17/2023	ND	153	76.4	200	7.72		
EXT DRO >C28-C36	<10.0	10.0	01/17/2023	ND						

Surrogate: 1-Chlorooctane 87.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	01/17/2023	Sampling Date:	01/17/2023
Reported:	01/20/2023	Sampling Type:	Soil
Project Name:	CRESCENT HALE 12 FED #001 ( C.H. )	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: SA - 4 0' (H230228-05)**

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	01/18/2023	ND	2.14	107	2.00	3.79		
Toluene*	<0.050	0.050	01/18/2023	ND	2.15	108	2.00	4.97		
Ethylbenzene*	<0.050	0.050	01/18/2023	ND	2.11	105	2.00	5.23		
Total Xylenes*	<0.150	0.150	01/18/2023	ND	6.48	108	6.00	5.14		
Total BTEX	<0.300	0.300	01/18/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>64.0</b>	16.0	01/18/2023	ND	448	112	400	3.64		

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	01/17/2023	ND	165	82.5	200	4.79		
<b>DRO &gt;C10-C28*</b>	<b>1440</b>	10.0	01/17/2023	ND	153	76.4	200	7.72		
<b>EXT DRO &gt;C28-C36</b>	<b>375</b>	10.0	01/17/2023	ND						

Surrogate: 1-Chlorooctane 79.0 % 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:	01/17/2023	Sampling Date:	01/17/2023
Reported:	01/20/2023	Sampling Type:	Soil
Project Name:	CRESCENT HALE 12 FED #001 ( C.H. )	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: SA - 4 1' (H230228-06)**

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	01/20/2023	ND	2.14	107	2.00	3.79		
<b>Toluene*</b>	<b>0.051</b>	0.050	01/20/2023	ND	2.15	108	2.00	4.97		
Ethylbenzene*	<0.050	0.050	01/20/2023	ND	2.11	105	2.00	5.23		
Total Xylenes*	<0.150	0.150	01/20/2023	ND	6.48	108	6.00	5.14		
Total BTEX	<0.300	0.300	01/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 121 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>432</b>	16.0	01/18/2023	ND	448	112	400	3.64		

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	01/17/2023	ND	165	82.5	200	4.79		
DRO >C10-C28*	<10.0	10.0	01/17/2023	ND	153	76.4	200	7.72		
EXT DRO >C28-C36	<10.0	10.0	01/17/2023	ND						

Surrogate: 1-Chlorooctane 86.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	01/17/2023	Sampling Date:	01/17/2023
Reported:	01/20/2023	Sampling Type:	Soil
Project Name:	CRESCENT HALE 12 FED #001 ( C.H. )	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: SA - 5 0-0.5' R (H230228-07)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>96.4</b>	5.00	01/19/2023	ND	2.14	107	2.00	3.79	
<b>Toluene*</b>	<b>351</b>	5.00	01/19/2023	ND	2.15	108	2.00	4.97	
<b>Ethylbenzene*</b>	<b>124</b>	5.00	01/19/2023	ND	2.11	105	2.00	5.23	
<b>Total Xylenes*</b>	<b>245</b>	15.0	01/19/2023	ND	6.48	108	6.00	5.14	
<b>Total BTEX</b>	<b>817</b>	30.0	01/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>240</b>	16.0	01/18/2023	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>5910</b>	100	01/17/2023	ND	165	82.5	200	4.79		
<b>DRO &gt;C10-C28*</b>	<b>11600</b>	100	01/17/2023	ND	153	76.4	200	7.72		
<b>EXT DRO &gt;C28-C36</b>	<b>1850</b>	100	01/17/2023	ND						

Surrogate: 1-Chlorooctane 275 % 48.2-134

Surrogate: 1-Chlorooctadecane 232 % 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:	01/17/2023	Sampling Date:	01/17/2023
Reported:	01/20/2023	Sampling Type:	Soil
Project Name:	CRESCENT HALE 12 FED #001 ( C.H. )	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: SA - 6 0-0.5' R (H230228-08)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>79.1</b>	5.00	01/19/2023	ND	2.14	107	2.00	3.79	
<b>Toluene*</b>	<b>461</b>	5.00	01/19/2023	ND	2.15	108	2.00	4.97	
<b>Ethylbenzene*</b>	<b>207</b>	5.00	01/19/2023	ND	2.11	105	2.00	5.23	
<b>Total Xylenes*</b>	<b>416</b>	15.0	01/19/2023	ND	6.48	108	6.00	5.14	
<b>Total BTEX</b>	<b>1160</b>	30.0	01/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 128 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>208</b>	16.0	01/18/2023	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>9780</b>	100	01/17/2023	ND	165	82.5	200	4.79		
<b>DRO &gt;C10-C28*</b>	<b>26500</b>	100	01/17/2023	ND	153	76.4	200	7.72		
<b>EXT DRO &gt;C28-C36</b>	<b>4360</b>	100	01/17/2023	ND						

Surrogate: 1-Chlorooctane 467 % 48.2-134

Surrogate: 1-Chlorooctadecane 520 % 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:	01/17/2023	Sampling Date:	01/17/2023
Reported:	01/20/2023	Sampling Type:	Soil
Project Name:	CRESCENT HALE 12 FED #001 ( C.H. )	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: H - 1 0-1' (H230228-09)**

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	01/18/2023	ND	2.14	107	2.00	3.79	
Toluene*	<0.050	0.050	01/18/2023	ND	2.15	108	2.00	4.97	
Ethylbenzene*	<0.050	0.050	01/18/2023	ND	2.11	105	2.00	5.23	
Total Xylenes*	<0.150	0.150	01/18/2023	ND	6.48	108	6.00	5.14	
Total BTEX	<0.300	0.300	01/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 121 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/18/2023	ND	448	112	400	3.64	

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	01/17/2023	ND	165	82.5	200	4.79	
DRO >C10-C28*	<10.0	10.0	01/17/2023	ND	153	76.4	200	7.72	
EXT DRO >C28-C36	<10.0	10.0	01/17/2023	ND					

Surrogate: 1-Chlorooctane 90.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.9 % 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:	01/17/2023	Sampling Date:	01/17/2023
Reported:	01/20/2023	Sampling Type:	Soil
Project Name:	CRESCENT HALE 12 FED #001 ( C.H. )	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: H - 2 0-1' (H230228-10)**

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/18/2023	ND	2.14	107	2.00	3.79		
Toluene*	<0.050	0.050	01/18/2023	ND	2.15	108	2.00	4.97		
Ethylbenzene*	<0.050	0.050	01/18/2023	ND	2.11	105	2.00	5.23		
Total Xylenes*	<0.150	0.150	01/18/2023	ND	6.48	108	6.00	5.14		
Total BTEX	<0.300	0.300	01/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 121 % 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	32.0	16.0	01/18/2023	ND	448	112	400	3.64		

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	01/17/2023	ND	165	82.5	200	4.79		
DRO >C10-C28*	<10.0	10.0	01/17/2023	ND	153	76.4	200	7.72		
EXT DRO >C28-C36	<10.0	10.0	01/17/2023	ND						

Surrogate: 1-Chlorooctane 80.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.1 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	01/17/2023	Sampling Date:	01/17/2023
Reported:	01/20/2023	Sampling Type:	Soil
Project Name:	CRESCENT HALE 12 FED #001 ( C.H. )	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: H - 3 0-1' (H230228-11)**

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	01/18/2023	ND	2.14	107	2.00	3.79	
Toluene*	<0.050	0.050	01/18/2023	ND	2.15	108	2.00	4.97	
Ethylbenzene*	<0.050	0.050	01/18/2023	ND	2.11	105	2.00	5.23	
Total Xylenes*	<0.150	0.150	01/18/2023	ND	6.48	108	6.00	5.14	
Total BTEX	<0.300	0.300	01/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/18/2023	ND	448	112	400	3.64	

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	01/17/2023	ND	165	82.5	200	4.79	
DRO >C10-C28*	<10.0	10.0	01/17/2023	ND	153	76.4	200	7.72	
EXT DRO >C28-C36	<10.0	10.0	01/17/2023	ND					

Surrogate: 1-Chlorooctane 79.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.1 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	01/17/2023	Sampling Date:	01/17/2023
Reported:	01/20/2023	Sampling Type:	Soil
Project Name:	CRESCENT HALE 12 FED #001 ( C.H. )	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: H - 4 0-1' (H230228-12)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/18/2023	ND	2.14	107	2.00	3.79	
Toluene*	<0.050	0.050	01/18/2023	ND	2.15	108	2.00	4.97	
Ethylbenzene*	<0.050	0.050	01/18/2023	ND	2.11	105	2.00	5.23	
Total Xylenes*	<0.150	0.150	01/18/2023	ND	6.48	108	6.00	5.14	
Total BTEX	<0.300	0.300	01/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	01/18/2023	ND	448	112	400	3.64	

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	01/17/2023	ND	165	82.5	200	4.79	
DRO >C10-C28*	<10.0	10.0	01/17/2023	ND	153	76.4	200	7.72	
EXT DRO >C28-C36	<10.0	10.0	01/17/2023	ND					

Surrogate: 1-Chlorooctane 74.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.4 % 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:	01/17/2023	Sampling Date:	01/17/2023
Reported:	01/20/2023	Sampling Type:	Soil
Project Name:	CRESCENT HALE 12 FED #001 ( C.H. )	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: H - 5 0-1' (H230228-13)**

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	01/18/2023	ND	2.14	107	2.00	3.79	
Toluene*	<0.050	0.050	01/18/2023	ND	2.15	108	2.00	4.97	
Ethylbenzene*	<0.050	0.050	01/18/2023	ND	2.11	105	2.00	5.23	
Total Xylenes*	<0.150	0.150	01/18/2023	ND	6.48	108	6.00	5.14	
Total BTEX	<0.300	0.300	01/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 121 % 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	32.0	16.0	01/18/2023	ND	448	112	400	3.64	

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	01/17/2023	ND	165	82.5	200	4.79	
DRO >C10-C28*	<10.0	10.0	01/17/2023	ND	153	76.4	200	7.72	
EXT DRO >C28-C36	<10.0	10.0	01/17/2023	ND					

Surrogate: 1-Chlorooctane 80.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.5 % 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:	01/17/2023	Sampling Date:	01/17/2023
Reported:	01/20/2023	Sampling Type:	Soil
Project Name:	CRESCENT HALE 12 FED #001 ( C.H. )	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: H - 6 0-1' (H230228-14)**

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	01/18/2023	ND	2.14	107	2.00	3.79	
Toluene*	<0.050	0.050	01/18/2023	ND	2.15	108	2.00	4.97	
Ethylbenzene*	<0.050	0.050	01/18/2023	ND	2.11	105	2.00	5.23	
Total Xylenes*	<0.150	0.150	01/18/2023	ND	6.48	108	6.00	5.14	
Total BTEX	<0.300	0.300	01/18/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	01/18/2023	ND	448	112	400	3.64	

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	01/17/2023	ND	165	82.5	200	4.79	
DRO >C10-C28*	<10.0	10.0	01/17/2023	ND	153	76.4	200	7.72	
EXT DRO >C28-C36	<10.0	10.0	01/17/2023	ND					

Surrogate: 1-Chlorooctane 89.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.4 % 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

Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

\*=Accredited Analyte

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*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager



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

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

Company Name: H&R Enterprises		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>	
Project Manager: Michael Collier		P.O. #:			
Address:		Company: Cimarex Energy			
City:		Attn: Lael Lullig			
State:		Address:			
Zip:		City:			
Phone #:		Project Owner: Cimarex Energy			
Fax #:		State:			
Project #:		Zip:			
Project Name: Crescent Hale 12 Fed #001 (C.H.)		Phone #:			
Project Location: Eddy County, NM		Fax #:			
Sampler Name: Roy Bell		PRESERV.		SAMPLING	
Lab I.D.		MATRIX			
		GROUNDWATER			
		WASTEWATER			
		SOIL			
		OIL			
		SLUDGE			
		OTHER:			
		ACID/BASE:			
		ICE / COOL			
		OTHER:			
		DATE			
		TIME			
		BTEX			
		TPH			
		Chlorides			

1	SA-2 5'	G	1	X	1/7/23	X	X	X
2	SA-2 6'							
3	SA-3 0'							
4	SA-3 1'							
5	SA-4 0'							
6	SA-4 1'							
7	SA-5 0-0.5' R							
8	SA-6 0-0.5' R							
9	H-1 0-1'							
10	H-2 0-1'							

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Relinquished By: *[Signature]* Date: 1-17-23 Received By: *[Signature]* Date: 1-17-23

Delivered By: (Circle One) Observed Temp. °C: 4.9 Corrected Temp. °C: 4.3

Sampler - UPS - Bus - Other: Sample Condition Cool -  Heat -  Moist -  Dry -  Other -

Checked By: (Initials) *[Initials]*

Remarks: PG 1 of 2 7ZHR RUSH

Thermometer ID #113 Correction Factor -0.3°C

Vertical Result:  Yes  No

Additional Phone #:

FORM-006 R 3.2 10/07/21 Cardinal cannot accept verbal changes. Please email changes to caley.keene@cardinalabsnm.com



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240  
(575) 393-2328 FAX (575) 393-2476

Company Name: H&R Enterprises

BILL TO

ANALYSIS REQUEST

Project Manager: Michael Collier

P.O. #: Company: Cimarex Energy

Address:

Attr: LaCl Lulig

City:

Address:

Phone #:

City:

Project #:

State:

Project Name: Crescent Hale 12 Fed #001 (C.H.)

State:

Project Location: Eddy County, NM

Phone #:

Sampler Name: Roy Bell

Fax #:

Lab I.D.

Lab I.D.	Date	Time	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	BTEX	TPH	Chlorides
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:					
H230228	11	H-3 0-1'	C	1			X					X	X	X	
	12	H-4 0-1'													
	13	H-5 0-1'													
	14	H-6 0-1'													

REMARKS: PG 2 of 2 72HR RUSH

Relinquished By: [Signature]

Received By: [Signature]

Verbal Result:  Yes  No Add'l Phone #:

Date: 11-17-23

Time: 12:55

REMARKS: PG 2 of 2 72HR RUSH

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

Observed Temp. °C: 4.9

Sample Condition: Cool  Wet  Dry  No

CHECKED BY: [Signature]

Thermometer ID #113 Correction Factor -0.5°C

Standard  Observed Temp. °C  Yes  No

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



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

---

February 10, 2023

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

RE: CRESCENT HALE 12 FED #001 ( C.H. )

Enclosed are the results of analyses for samples received by the laboratory on 02/08/23 14:25.

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 "Mike Snyder".

Mike Snyder For Celey D. Keene  
Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	02/08/2023	Sampling Date:	02/08/2023
Reported:	02/10/2023	Sampling Type:	Soil
Project Name:	CRESCENT HALE 12 FED #001 ( C.H. )	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: S - 26 4' (H230561-01)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/09/2023	ND	1.84	92.2	2.00	12.0	
Toluene*	<0.050	0.050	02/09/2023	ND	1.90	94.9	2.00	9.11	
Ethylbenzene*	<0.050	0.050	02/09/2023	ND	1.89	94.7	2.00	8.60	
Total Xylenes*	<0.150	0.150	02/09/2023	ND	5.70	95.1	6.00	8.98	
Total BTEX	<0.300	0.300	02/09/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	02/09/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/09/2023	ND	211	105	200	3.03	
DRO >C10-C28*	<10.0	10.0	02/09/2023	ND	204	102	200	3.32	
EXT DRO >C28-C36	<10.0	10.0	02/09/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	02/08/2023	Sampling Date:	02/08/2023
Reported:	02/10/2023	Sampling Type:	Soil
Project Name:	CRESCENT HALE 12 FED #001 ( C.H. )	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: S - 3 6" (H230561-02)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/09/2023	ND	1.84	92.2	2.00	12.0	
Toluene*	<0.050	0.050	02/09/2023	ND	1.90	94.9	2.00	9.11	
Ethylbenzene*	<0.050	0.050	02/09/2023	ND	1.89	94.7	2.00	8.60	
Total Xylenes*	<0.150	0.150	02/09/2023	ND	5.70	95.1	6.00	8.98	
Total BTEX	<0.300	0.300	02/09/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	02/09/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/09/2023	ND	211	105	200	3.03	
DRO >C10-C28*	<10.0	10.0	02/09/2023	ND	204	102	200	3.32	
EXT DRO >C28-C36	<10.0	10.0	02/09/2023	ND					

Surrogate: 1-Chlorooctane 99.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	02/08/2023	Sampling Date:	02/08/2023
Reported:	02/10/2023	Sampling Type:	Soil
Project Name:	CRESCENT HALE 12 FED #001 ( C.H. )	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: S - 9 3' (H230561-03)**

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	02/09/2023	ND	1.84	92.2	2.00	12.0		
Toluene*	<0.050	0.050	02/09/2023	ND	1.90	94.9	2.00	9.11		
Ethylbenzene*	<0.050	0.050	02/09/2023	ND	1.89	94.7	2.00	8.60		
Total Xylenes*	<0.150	0.150	02/09/2023	ND	5.70	95.1	6.00	8.98		
Total BTEX	<0.300	0.300	02/09/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	02/09/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/09/2023	ND	211	105	200	3.03		
DRO >C10-C28*	<10.0	10.0	02/09/2023	ND	204	102	200	3.32		
EXT DRO >C28-C36	<10.0	10.0	02/09/2023	ND						

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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\*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	02/08/2023	Sampling Date:	02/08/2023
Reported:	02/10/2023	Sampling Type:	Soil
Project Name:	CRESCENT HALE 12 FED #001 ( C.H. )	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: S - 13 3' (H230561-04)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/09/2023	ND	1.84	92.2	2.00	12.0	
Toluene*	<0.050	0.050	02/09/2023	ND	1.90	94.9	2.00	9.11	
Ethylbenzene*	<0.050	0.050	02/09/2023	ND	1.89	94.7	2.00	8.60	
Total Xylenes*	<0.150	0.150	02/09/2023	ND	5.70	95.1	6.00	8.98	
Total BTEX	<0.300	0.300	02/09/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	02/09/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/09/2023	ND	211	105	200	3.03	
DRO >C10-C28*	<10.0	10.0	02/09/2023	ND	204	102	200	3.32	
EXT DRO >C28-C36	<10.0	10.0	02/09/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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\*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	02/08/2023	Sampling Date:	02/08/2023
Reported:	02/10/2023	Sampling Type:	Soil
Project Name:	CRESCENT HALE 12 FED #001 ( C.H. )	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: S - 18 3' (H230561-05)**

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	02/09/2023	ND	1.84	92.2	2.00	12.0	
Toluene*	<0.050	0.050	02/09/2023	ND	1.90	94.9	2.00	9.11	
Ethylbenzene*	<0.050	0.050	02/09/2023	ND	1.89	94.7	2.00	8.60	
Total Xylenes*	<0.150	0.150	02/09/2023	ND	5.70	95.1	6.00	8.98	
Total BTEX	<0.300	0.300	02/09/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	02/09/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/09/2023	ND	211	105	200	3.03	
DRO >C10-C28*	<10.0	10.0	02/09/2023	ND	204	102	200	3.32	
EXT DRO >C28-C36	<10.0	10.0	02/09/2023	ND					

Surrogate: 1-Chlorooctane 99.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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\* = Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	02/08/2023	Sampling Date:	02/08/2023
Reported:	02/10/2023	Sampling Type:	Soil
Project Name:	CRESCENT HALE 12 FED #001 ( C.H. )	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: SW - 1 6" (H230561-06)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/09/2023	ND	1.84	92.2	2.00	12.0	
Toluene*	<0.050	0.050	02/09/2023	ND	1.90	94.9	2.00	9.11	
Ethylbenzene*	<0.050	0.050	02/09/2023	ND	1.89	94.7	2.00	8.60	
Total Xylenes*	<0.150	0.150	02/09/2023	ND	5.70	95.1	6.00	8.98	
Total BTEX	<0.300	0.300	02/09/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	02/09/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/09/2023	ND	211	105	200	3.03	
DRO >C10-C28*	<10.0	10.0	02/09/2023	ND	204	102	200	3.32	
EXT DRO >C28-C36	<10.0	10.0	02/09/2023	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	02/08/2023	Sampling Date:	02/08/2023
Reported:	02/10/2023	Sampling Type:	Soil
Project Name:	CRESCENT HALE 12 FED #001 ( C.H. )	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: SW - 12 3' (H230561-07)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/09/2023	ND	1.84	92.2	2.00	12.0	
Toluene*	<0.050	0.050	02/09/2023	ND	1.90	94.9	2.00	9.11	
Ethylbenzene*	<0.050	0.050	02/09/2023	ND	1.89	94.7	2.00	8.60	
Total Xylenes*	<0.150	0.150	02/09/2023	ND	5.70	95.1	6.00	8.98	
Total BTEX	<0.300	0.300	02/09/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	02/09/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/09/2023	ND	211	105	200	3.03	
DRO >C10-C28*	<10.0	10.0	02/09/2023	ND	204	102	200	3.32	
EXT DRO >C28-C36	<10.0	10.0	02/09/2023	ND					

Surrogate: 1-Chlorooctane 98.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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\* = Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	02/08/2023	Sampling Date:	02/08/2023
Reported:	02/10/2023	Sampling Type:	Soil
Project Name:	CRESCENT HALE 12 FED #001 ( C.H. )	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: BG - 6 0-1' (H230561-08)**

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	02/10/2023	ND	1.84	92.2	2.00	12.0	
Toluene*	<0.050	0.050	02/10/2023	ND	1.90	94.9	2.00	9.11	
Ethylbenzene*	<0.050	0.050	02/10/2023	ND	1.89	94.7	2.00	8.60	
Total Xylenes*	<0.150	0.150	02/10/2023	ND	5.70	95.1	6.00	8.98	
Total BTEX	<0.300	0.300	02/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	02/09/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/09/2023	ND	211	105	200	3.03	
DRO >C10-C28*	<10.0	10.0	02/09/2023	ND	204	102	200	3.32	
EXT DRO >C28-C36	<10.0	10.0	02/09/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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\* = Accredited Analyte

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Mike Snyder For 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 "Mike Snyder".

---

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

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

**BILL TO**

**ANALYSIS REQUEST**

Company Name: *H&R Enterprises*  
 Project Manager: *M. Collier*  
 Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Phone #: \_\_\_\_\_ Fax #: \_\_\_\_\_  
 Project #: \_\_\_\_\_  
 Project Name: *Crescent Hale 12 Fed #1 (CH)*  
 Project Location: \_\_\_\_\_  
 Sampler Name: *R. Bell*

P.O. #: \_\_\_\_\_  
 Company: *Cardex Energy*  
 Attn: *Laci Luig*  
 Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Phone #: \_\_\_\_\_ Fax #: \_\_\_\_\_

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :			
<i>AH3051A</i>	<i>5-26 4'</i>	<i>C</i>	<i>1</i>			<i>X</i>				<i>2/8/23</i>		<i>BTEX</i>
	<i>5-3 6"</i>											<i>TPH</i>
	<i>5-9 3'</i>											<i>Chlorides</i>
	<i>5-13 3'</i>											
	<i>5-18 3'</i>											
	<i>5W-1 6"</i>											
	<i>5W-12 3'</i>											
	<i>5G-6 0-1'</i>											

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Relinquished By: \_\_\_\_\_  
 Date: *2-8-23*  
 Time: *1425*  
 Received By: \_\_\_\_\_  
 Date: \_\_\_\_\_  
 Time: \_\_\_\_\_

Turnaround Time: *2-Day*  
 Verbal Result:  Yes  No  Add'l Phone #:  
 All Results are emailed. Please provide Email address:

Delivered By: (Circle One)  UPS  Bus  Other  
 Observed Temp. °C: *3.9*  
 Corrected Temp. °C: *3.3*  
 Sample Condition:  Cool  Intact  
 Checked By: (Initials) *Y*  
 Remarks: \_\_\_\_\_

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



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

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February 09, 2023

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

RE: CRESCENT HALE 12 FED #001 ( C.H. )

Enclosed are the results of analyses for samples received by the laboratory on 02/07/23 13:04.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style.

Celey D. Keene  
Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	02/07/2023	Sampling Date:	02/07/2023
Reported:	02/09/2023	Sampling Type:	Soil
Project Name:	CRESCENT HALE 12 FED #001 ( C.H. )	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: S - 1 6" (H230529-01)**

BTEX 8260B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.025	0.025	02/08/2023	ND	1.95	97.3	2.00	1.28		
Toluene*	<0.025	0.025	02/08/2023	ND	2.12	106	2.00	1.29		
Ethylbenzene*	<0.025	0.025	02/08/2023	ND	2.21	110	2.00	1.69		
Total Xylenes*	<0.075	0.075	02/08/2023	ND	6.50	108	6.00	2.30		
Total BTEX	<0.150	0.150	02/08/2023	ND						

Surrogate: Dibromofluoromethane 92.4 % 86.7-111  
 Surrogate: Toluene-d8 99.0 % 89.3-110  
 Surrogate: 4-Bromofluorobenzene 99.9 % 88.2-108

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	02/09/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/08/2023	ND	212	106	200	3.55		
DRO >C10-C28*	<10.0	10.0	02/08/2023	ND	201	100	200	2.24		
EXT DRO >C28-C36	<10.0	10.0	02/08/2023	ND						

Surrogate: 1-Chlorooctane 91.4 % 48.2-134  
 Surrogate: 1-Chlorooctadecane 98.6 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	02/07/2023	Sampling Date:	02/07/2023
Reported:	02/09/2023	Sampling Type:	Soil
Project Name:	CRESCENT HALE 12 FED #001 ( C.H. )	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: S - 2 6" (H230529-02)**

BTEX 8260B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.025	0.025	02/08/2023	ND	1.95	97.3	2.00	1.28		
Toluene*	<0.025	0.025	02/08/2023	ND	2.12	106	2.00	1.29		
Ethylbenzene*	<0.025	0.025	02/08/2023	ND	2.21	110	2.00	1.69		
Total Xylenes*	<0.075	0.075	02/08/2023	ND	6.50	108	6.00	2.30		
Total BTEX	<0.150	0.150	02/08/2023	ND						

Surrogate: Dibromofluoromethane 94.9 % 86.7-111  
 Surrogate: Toluene-d8 101 % 89.3-110  
 Surrogate: 4-Bromofluorobenzene 99.3 % 88.2-108

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>64.0</b>	16.0	02/09/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/08/2023	ND	212	106	200	3.55		
DRO >C10-C28*	<10.0	10.0	02/08/2023	ND	201	100	200	2.24		
EXT DRO >C28-C36	<10.0	10.0	02/08/2023	ND						

Surrogate: 1-Chlorooctane 89.7 % 48.2-134  
 Surrogate: 1-Chlorooctadecane 97.4 % 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:	02/07/2023	Sampling Date:	02/07/2023
Reported:	02/09/2023	Sampling Type:	Soil
Project Name:	CRESCENT HALE 12 FED #001 ( C.H. )	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: S - 4 6" (H230529-04)**

BTEX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	02/08/2023	ND	1.95	97.3	2.00	1.28	
Toluene*	<0.025	0.025	02/08/2023	ND	2.12	106	2.00	1.29	
Ethylbenzene*	<0.025	0.025	02/08/2023	ND	2.21	110	2.00	1.69	
Total Xylenes*	<0.075	0.075	02/08/2023	ND	6.50	108	6.00	2.30	
Total BTEX	<0.150	0.150	02/08/2023	ND					

Surrogate: Dibromofluoromethane 92.8 % 86.7-111  
 Surrogate: Toluene-d8 102 % 89.3-110  
 Surrogate: 4-Bromofluorobenzene 99.9 % 88.2-108

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>128</b>	16.0	02/09/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/08/2023	ND	212	106	200	3.55	
<b>DRO &gt;C10-C28*</b>	<b>10.7</b>	10.0	02/08/2023	ND	201	100	200	2.24	
EXT DRO >C28-C36	<10.0	10.0	02/08/2023	ND					

Surrogate: 1-Chlorooctane 90.2 % 48.2-134  
 Surrogate: 1-Chlorooctadecane 97.5 % 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:	02/07/2023	Sampling Date:	02/07/2023
Reported:	02/09/2023	Sampling Type:	Soil
Project Name:	CRESCENT HALE 12 FED #001 ( C.H. )	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: S - 5 2' (H230529-05)**

BTEX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	02/08/2023	ND	1.95	97.3	2.00	1.28	
Toluene*	<0.025	0.025	02/08/2023	ND	2.12	106	2.00	1.29	
Ethylbenzene*	<0.025	0.025	02/08/2023	ND	2.21	110	2.00	1.69	
Total Xylenes*	<0.075	0.075	02/08/2023	ND	6.50	108	6.00	2.30	
Total BTEX	<0.150	0.150	02/08/2023	ND					

Surrogate: Dibromofluoromethane 94.0 % 86.7-111  
 Surrogate: Toluene-d8 102 % 89.3-110  
 Surrogate: 4-Bromofluorobenzene 99.6 % 88.2-108

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>192</b>	16.0	02/09/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/08/2023	ND	212	106	200	3.55	
DRO >C10-C28*	<10.0	10.0	02/08/2023	ND	201	100	200	2.24	
EXT DRO >C28-C36	<10.0	10.0	02/08/2023	ND					

Surrogate: 1-Chlorooctane 95.0 % 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:	02/07/2023	Sampling Date:	02/07/2023
Reported:	02/09/2023	Sampling Type:	Soil
Project Name:	CRESCENT HALE 12 FED #001 ( C.H. )	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: S - 6 2' (H230529-06)**

BTEX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	02/08/2023	ND	1.95	97.3	2.00	1.28	
Toluene*	<0.025	0.025	02/08/2023	ND	2.12	106	2.00	1.29	
Ethylbenzene*	<0.025	0.025	02/08/2023	ND	2.21	110	2.00	1.69	
Total Xylenes*	<0.075	0.075	02/08/2023	ND	6.50	108	6.00	2.30	
Total BTEX	<0.150	0.150	02/08/2023	ND					

Surrogate: Dibromofluoromethane 92.8 % 86.7-111  
 Surrogate: Toluene-d8 101 % 89.3-110  
 Surrogate: 4-Bromofluorobenzene 99.1 % 88.2-108

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/09/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/08/2023	ND	212	106	200	3.55	
DRO >C10-C28*	<10.0	10.0	02/08/2023	ND	201	100	200	2.24	
EXT DRO >C28-C36	<10.0	10.0	02/08/2023	ND					

Surrogate: 1-Chlorooctane 89.8 % 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:	02/07/2023	Sampling Date:	02/07/2023
Reported:	02/09/2023	Sampling Type:	Soil
Project Name:	CRESCENT HALE 12 FED #001 ( C.H. )	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: S - 7 2' (H230529-07)**

BTEX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	02/08/2023	ND	1.95	97.3	2.00	1.28	
Toluene*	<0.025	0.025	02/08/2023	ND	2.12	106	2.00	1.29	
Ethylbenzene*	<0.025	0.025	02/08/2023	ND	2.21	110	2.00	1.69	
Total Xylenes*	<0.075	0.075	02/08/2023	ND	6.50	108	6.00	2.30	
Total BTEX	<0.150	0.150	02/08/2023	ND					

Surrogate: Dibromofluoromethane 95.1 % 86.7-111  
 Surrogate: Toluene-d8 103 % 89.3-110  
 Surrogate: 4-Bromofluorobenzene 97.6 % 88.2-108

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	02/09/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/08/2023	ND	212	106	200	3.55	
DRO >C10-C28*	<10.0	10.0	02/08/2023	ND	201	100	200	2.24	
EXT DRO >C28-C36	<10.0	10.0	02/08/2023	ND					

Surrogate: 1-Chlorooctane 89.0 % 48.2-134  
 Surrogate: 1-Chlorooctadecane 96.6 % 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:	02/07/2023	Sampling Date:	02/07/2023
Reported:	02/09/2023	Sampling Type:	Soil
Project Name:	CRESCENT HALE 12 FED #001 ( C.H. )	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: S - 8 2' (H230529-08)**

BTEX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	02/08/2023	ND	1.95	97.3	2.00	1.28	
Toluene*	<0.025	0.025	02/08/2023	ND	2.12	106	2.00	1.29	
Ethylbenzene*	<0.025	0.025	02/08/2023	ND	2.21	110	2.00	1.69	
Total Xylenes*	<0.075	0.075	02/08/2023	ND	6.50	108	6.00	2.30	
Total BTEX	<0.150	0.150	02/08/2023	ND					

Surrogate: Dibromofluoromethane 92.3 % 86.7-111  
 Surrogate: Toluene-d8 101 % 89.3-110  
 Surrogate: 4-Bromofluorobenzene 98.3 % 88.2-108

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	02/09/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/08/2023	ND	212	106	200	3.55	
DRO >C10-C28*	<10.0	10.0	02/08/2023	ND	201	100	200	2.24	
EXT DRO >C28-C36	<10.0	10.0	02/08/2023	ND					

Surrogate: 1-Chlorooctane 96.2 % 48.2-134  
 Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	02/07/2023	Sampling Date:	02/07/2023
Reported:	02/09/2023	Sampling Type:	Soil
Project Name:	CRESCENT HALE 12 FED #001 ( C.H. )	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: S - 10 3' (H230529-10)**

BTEX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	02/08/2023	ND	1.95	97.3	2.00	1.28	
Toluene*	<0.025	0.025	02/08/2023	ND	2.12	106	2.00	1.29	
Ethylbenzene*	<0.025	0.025	02/08/2023	ND	2.21	110	2.00	1.69	
Total Xylenes*	<0.075	0.075	02/08/2023	ND	6.50	108	6.00	2.30	
Total BTEX	<0.150	0.150	02/08/2023	ND					

Surrogate: Dibromofluoromethane 94.0 % 86.7-111  
 Surrogate: Toluene-d8 105 % 89.3-110  
 Surrogate: 4-Bromofluorobenzene 98.5 % 88.2-108

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	02/09/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/08/2023	ND	212	106	200	3.55	
DRO >C10-C28*	<10.0	10.0	02/08/2023	ND	201	100	200	2.24	
EXT DRO >C28-C36	<10.0	10.0	02/08/2023	ND					

Surrogate: 1-Chlorooctane 91.7 % 48.2-134  
 Surrogate: 1-Chlorooctadecane 97.6 % 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:	02/07/2023	Sampling Date:	02/07/2023
Reported:	02/09/2023	Sampling Type:	Soil
Project Name:	CRESCENT HALE 12 FED #001 ( C.H. )	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: S - 11 3' (H230529-11)**

BTEX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	02/08/2023	ND	1.95	97.3	2.00	1.28	
Toluene*	<0.025	0.025	02/08/2023	ND	2.12	106	2.00	1.29	
Ethylbenzene*	<0.025	0.025	02/08/2023	ND	2.21	110	2.00	1.69	
Total Xylenes*	<0.075	0.075	02/08/2023	ND	6.50	108	6.00	2.30	
Total BTEX	<0.150	0.150	02/08/2023	ND					

Surrogate: Dibromofluoromethane 95.7 % 86.7-111  
 Surrogate: Toluene-d8 106 % 89.3-110  
 Surrogate: 4-Bromofluorobenzene 99.3 % 88.2-108

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	02/09/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/08/2023	ND	212	106	200	3.55	
DRO >C10-C28*	<10.0	10.0	02/08/2023	ND	201	100	200	2.24	
EXT DRO >C28-C36	<10.0	10.0	02/08/2023	ND					

Surrogate: 1-Chlorooctane 90.8 % 48.2-134  
 Surrogate: 1-Chlorooctadecane 98.5 % 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:	02/07/2023	Sampling Date:	02/07/2023
Reported:	02/09/2023	Sampling Type:	Soil
Project Name:	CRESCENT HALE 12 FED #001 ( C.H. )	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: S - 12 3' (H230529-12)**

BTEX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	02/08/2023	ND	1.95	97.3	2.00	1.28	
Toluene*	<0.025	0.025	02/08/2023	ND	2.12	106	2.00	1.29	
Ethylbenzene*	<0.025	0.025	02/08/2023	ND	2.21	110	2.00	1.69	
Total Xylenes*	<0.075	0.075	02/08/2023	ND	6.50	108	6.00	2.30	
Total BTEX	<0.150	0.150	02/08/2023	ND					

Surrogate: Dibromofluoromethane 93.3 % 86.7-111  
 Surrogate: Toluene-d8 104 % 89.3-110  
 Surrogate: 4-Bromofluorobenzene 97.6 % 88.2-108

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>80.0</b>	16.0	02/09/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/08/2023	ND	212	106	200	3.55	
DRO >C10-C28*	<10.0	10.0	02/08/2023	ND	201	100	200	2.24	
EXT DRO >C28-C36	<10.0	10.0	02/08/2023	ND					

Surrogate: 1-Chlorooctane 89.9 % 48.2-134  
 Surrogate: 1-Chlorooctadecane 98.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	02/07/2023	Sampling Date:	02/07/2023
Reported:	02/09/2023	Sampling Type:	Soil
Project Name:	CRESCENT HALE 12 FED #001 ( C.H. )	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: S - 14 3' (H230529-14)**

BTEX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	02/08/2023	ND	1.95	97.3	2.00	1.28	
Toluene*	<0.025	0.025	02/08/2023	ND	2.12	106	2.00	1.29	
Ethylbenzene*	<0.025	0.025	02/08/2023	ND	2.21	110	2.00	1.69	
Total Xylenes*	<0.075	0.075	02/08/2023	ND	6.50	108	6.00	2.30	
Total BTEX	<0.150	0.150	02/08/2023	ND					

Surrogate: Dibromofluoromethane 95.3 % 86.7-111  
 Surrogate: Toluene-d8 103 % 89.3-110  
 Surrogate: 4-Bromofluorobenzene 98.0 % 88.2-108

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	02/09/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/08/2023	ND	213	107	200	6.06	
DRO >C10-C28*	<10.0	10.0	02/08/2023	ND	214	107	200	13.9	
EXT DRO >C28-C36	<10.0	10.0	02/08/2023	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134  
 Surrogate: 1-Chlorooctadecane 125 % 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:	02/07/2023	Sampling Date:	02/07/2023
Reported:	02/09/2023	Sampling Type:	Soil
Project Name:	CRESCENT HALE 12 FED #001 ( C.H. )	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: S - 15 3' (H230529-15)**

BTEX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	02/08/2023	ND	1.95	97.3	2.00	1.28	
Toluene*	<0.025	0.025	02/08/2023	ND	2.12	106	2.00	1.29	
Ethylbenzene*	<0.025	0.025	02/08/2023	ND	2.21	110	2.00	1.69	
Total Xylenes*	<0.075	0.075	02/08/2023	ND	6.50	108	6.00	2.30	
Total BTEX	<0.150	0.150	02/08/2023	ND					

Surrogate: Dibromofluoromethane 95.5 % 86.7-111  
 Surrogate: Toluene-d8 102 % 89.3-110  
 Surrogate: 4-Bromofluorobenzene 98.9 % 88.2-108

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	02/09/2023	ND	400	100	400	7.69	QR-03

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	02/08/2023	ND	213	107	200	6.06	
DRO >C10-C28*	<10.0	10.0	02/08/2023	ND	214	107	200	13.9	
EXT DRO >C28-C36	<10.0	10.0	02/08/2023	ND					

Surrogate: 1-Chlorooctane 98.7 % 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:	02/07/2023	Sampling Date:	02/07/2023
Reported:	02/09/2023	Sampling Type:	Soil
Project Name:	CRESCENT HALE 12 FED #001 ( C.H. )	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: S - 16 3' (H230529-16)**

BTEX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	02/08/2023	ND	1.95	97.3	2.00	1.28	
Toluene*	<0.025	0.025	02/08/2023	ND	2.12	106	2.00	1.29	
Ethylbenzene*	<0.025	0.025	02/08/2023	ND	2.21	110	2.00	1.69	
Total Xylenes*	<0.075	0.075	02/08/2023	ND	6.50	108	6.00	2.30	
Total BTEX	<0.150	0.150	02/08/2023	ND					

Surrogate: Dibromofluoromethane 96.5 % 86.7-111  
 Surrogate: Toluene-d8 103 % 89.3-110  
 Surrogate: 4-Bromofluorobenzene 98.0 % 88.2-108

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	02/09/2023	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/08/2023	ND	213	107	200	6.06	
DRO >C10-C28*	<10.0	10.0	02/08/2023	ND	214	107	200	13.9	
EXT DRO >C28-C36	<10.0	10.0	02/08/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134  
 Surrogate: 1-Chlorooctadecane 121 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	02/07/2023	Sampling Date:	02/07/2023
Reported:	02/09/2023	Sampling Type:	Soil
Project Name:	CRESCENT HALE 12 FED #001 ( C.H. )	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: S - 17 3' (H230529-17)**

BTEX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	02/08/2023	ND	1.95	97.3	2.00	1.28	
Toluene*	<0.025	0.025	02/08/2023	ND	2.12	106	2.00	1.29	
Ethylbenzene*	<0.025	0.025	02/08/2023	ND	2.21	110	2.00	1.69	
Total Xylenes*	<0.075	0.075	02/08/2023	ND	6.50	108	6.00	2.30	
Total BTEX	<0.150	0.150	02/08/2023	ND					

Surrogate: Dibromofluoromethane 92.5 % 86.7-111  
 Surrogate: Toluene-d8 102 % 89.3-110  
 Surrogate: 4-Bromofluorobenzene 99.8 % 88.2-108

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	02/09/2023	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/08/2023	ND	213	107	200	6.06	
DRO >C10-C28*	<10.0	10.0	02/08/2023	ND	214	107	200	13.9	
EXT DRO >C28-C36	<10.0	10.0	02/08/2023	ND					

Surrogate: 1-Chlorooctane 99.0 % 48.2-134  
 Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	02/07/2023	Sampling Date:	02/07/2023
Reported:	02/09/2023	Sampling Type:	Soil
Project Name:	CRESCENT HALE 12 FED #001 ( C.H. )	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: S - 19 3' (H230529-19)**

BTEX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	02/09/2023	ND	1.93	96.7	2.00	2.10	
Toluene*	<0.025	0.025	02/09/2023	ND	2.09	105	2.00	2.31	
Ethylbenzene*	<0.025	0.025	02/09/2023	ND	2.18	109	2.00	1.93	
Total Xylenes*	<0.075	0.075	02/09/2023	ND	6.41	107	6.00	1.76	
Total BTEX	<0.150	0.150	02/09/2023	ND					

Surrogate: Dibromofluoromethane 93.7 % 86.7-111  
 Surrogate: Toluene-d8 103 % 89.3-110  
 Surrogate: 4-Bromofluorobenzene 98.8 % 88.2-108

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	02/09/2023	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/08/2023	ND	213	107	200	6.06	
DRO >C10-C28*	<10.0	10.0	02/08/2023	ND	214	107	200	13.9	
EXT DRO >C28-C36	<10.0	10.0	02/08/2023	ND					

Surrogate: 1-Chlorooctane 94.0 % 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:	02/07/2023	Sampling Date:	02/07/2023
Reported:	02/09/2023	Sampling Type:	Soil
Project Name:	CRESCENT HALE 12 FED #001 ( C.H. )	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: S - 20 3' (H230529-20)**

BTEX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	02/09/2023	ND	1.93	96.7	2.00	2.10	
Toluene*	<0.025	0.025	02/09/2023	ND	2.09	105	2.00	2.31	
Ethylbenzene*	<0.025	0.025	02/09/2023	ND	2.18	109	2.00	1.93	
Total Xylenes*	<0.075	0.075	02/09/2023	ND	6.41	107	6.00	1.76	
Total BTEX	<0.150	0.150	02/09/2023	ND					

Surrogate: Dibromofluoromethane 92.1 % 86.7-111  
 Surrogate: Toluene-d8 100 % 89.3-110  
 Surrogate: 4-Bromofluorobenzene 97.6 % 88.2-108

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	02/09/2023	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/08/2023	ND	213	107	200	6.06	
DRO >C10-C28*	<10.0	10.0	02/08/2023	ND	214	107	200	13.9	
EXT DRO >C28-C36	<10.0	10.0	02/08/2023	ND					

Surrogate: 1-Chlorooctane 96.0 % 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:	02/07/2023	Sampling Date:	02/07/2023
Reported:	02/09/2023	Sampling Type:	Soil
Project Name:	CRESCENT HALE 12 FED #001 ( C.H. )	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: S - 21 2' (H230529-21)**

BTEX 8260B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.025	0.025	02/09/2023	ND	1.93	96.7	2.00	2.10		
Toluene*	<0.025	0.025	02/09/2023	ND	2.09	105	2.00	2.31		
Ethylbenzene*	<0.025	0.025	02/09/2023	ND	2.18	109	2.00	1.93		
Total Xylenes*	<0.075	0.075	02/09/2023	ND	6.41	107	6.00	1.76		
Total BTEX	<0.150	0.150	02/09/2023	ND						

Surrogate: Dibromofluoromethane 93.7 % 86.7-111  
 Surrogate: Toluene-d8 101 % 89.3-110  
 Surrogate: 4-Bromofluorobenzene 95.6 % 88.2-108

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>176</b>	16.0	02/09/2023	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/08/2023	ND	213	107	200	6.06		
<b>DRO &gt;C10-C28*</b>	<b>179</b>	10.0	02/08/2023	ND	214	107	200	13.9		
<b>EXT DRO &gt;C28-C36</b>	<b>29.3</b>	10.0	02/08/2023	ND						

Surrogate: 1-Chlorooctane 98.9 % 48.2-134  
 Surrogate: 1-Chlorooctadecane 121 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	02/07/2023	Sampling Date:	02/07/2023
Reported:	02/09/2023	Sampling Type:	Soil
Project Name:	CRESCENT HALE 12 FED #001 ( C.H. )	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: S - 22 2' (H230529-22)**

BTEX 8260B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.025	0.025	02/09/2023	ND	1.93	96.7	2.00	2.10		
Toluene*	<0.025	0.025	02/09/2023	ND	2.09	105	2.00	2.31		
Ethylbenzene*	<0.025	0.025	02/09/2023	ND	2.18	109	2.00	1.93		
Total Xylenes*	<0.075	0.075	02/09/2023	ND	6.41	107	6.00	1.76		
Total BTEX	<0.150	0.150	02/09/2023	ND						

Surrogate: Dibromofluoromethane 93.0 % 86.7-111  
 Surrogate: Toluene-d8 102 % 89.3-110  
 Surrogate: 4-Bromofluorobenzene 100 % 88.2-108

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>176</b>	16.0	02/09/2023	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/08/2023	ND	213	107	200	6.06		
<b>DRO &gt;C10-C28*</b>	<b>169</b>	10.0	02/08/2023	ND	214	107	200	13.9		
<b>EXT DRO &gt;C28-C36</b>	<b>30.3</b>	10.0	02/08/2023	ND						

Surrogate: 1-Chlorooctane 99.4 % 48.2-134  
 Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	02/07/2023	Sampling Date:	02/07/2023
Reported:	02/09/2023	Sampling Type:	Soil
Project Name:	CRESCENT HALE 12 FED #001 ( C.H. )	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: S - 23 2' (H230529-23)**

BTEX 8260B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.025	0.025	02/09/2023	ND	1.93	96.7	2.00	2.10		
Toluene*	<0.025	0.025	02/09/2023	ND	2.09	105	2.00	2.31		
Ethylbenzene*	<0.025	0.025	02/09/2023	ND	2.18	109	2.00	1.93		
Total Xylenes*	<0.075	0.075	02/09/2023	ND	6.41	107	6.00	1.76		
Total BTEX	<0.150	0.150	02/09/2023	ND						

Surrogate: Dibromofluoromethane 93.8 % 86.7-111  
 Surrogate: Toluene-d8 104 % 89.3-110  
 Surrogate: 4-Bromofluorobenzene 98.9 % 88.2-108

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>112</b>	16.0	02/09/2023	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/08/2023	ND	213	107	200	6.06		
<b>DRO &gt;C10-C28*</b>	<b>16.7</b>	10.0	02/08/2023	ND	214	107	200	13.9		
EXT DRO >C28-C36	<10.0	10.0	02/08/2023	ND						

Surrogate: 1-Chlorooctane 93.3 % 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:	02/07/2023	Sampling Date:	02/07/2023
Reported:	02/09/2023	Sampling Type:	Soil
Project Name:	CRESCENT HALE 12 FED #001 ( C.H. )	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: S - 24 2' (H230529-24)**

BTEX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	02/09/2023	ND	1.93	96.7	2.00	2.10	
Toluene*	<0.025	0.025	02/09/2023	ND	2.09	105	2.00	2.31	
Ethylbenzene*	<0.025	0.025	02/09/2023	ND	2.18	109	2.00	1.93	
Total Xylenes*	<0.075	0.075	02/09/2023	ND	6.41	107	6.00	1.76	
Total BTEX	<0.150	0.150	02/09/2023	ND					

Surrogate: Dibromofluoromethane 94.2 % 86.7-111  
 Surrogate: Toluene-d8 105 % 89.3-110  
 Surrogate: 4-Bromofluorobenzene 98.1 % 88.2-108

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>112</b>	16.0	02/09/2023	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/08/2023	ND	213	107	200	6.06	
<b>DRO &gt;C10-C28*</b>	<b>15.5</b>	10.0	02/08/2023	ND	214	107	200	13.9	
EXT DRO >C28-C36	<10.0	10.0	02/08/2023	ND					

Surrogate: 1-Chlorooctane 98.0 % 48.2-134  
 Surrogate: 1-Chlorooctadecane 112 % 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:	02/07/2023	Sampling Date:	02/07/2023
Reported:	02/09/2023	Sampling Type:	Soil
Project Name:	CRESCENT HALE 12 FED #001 ( C.H. )	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: SW - 2 6" (H230529-28)**

BTEX 8260B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.025	0.025	02/09/2023	ND	1.93	96.7	2.00	2.10		
Toluene*	<0.025	0.025	02/09/2023	ND	2.09	105	2.00	2.31		
Ethylbenzene*	<0.025	0.025	02/09/2023	ND	2.18	109	2.00	1.93		
Total Xylenes*	<0.075	0.075	02/09/2023	ND	6.41	107	6.00	1.76		
Total BTEX	<0.150	0.150	02/09/2023	ND						

Surrogate: Dibromofluoromethane 95.1 % 86.7-111  
 Surrogate: Toluene-d8 102 % 89.3-110  
 Surrogate: 4-Bromofluorobenzene 97.8 % 88.2-108

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	02/09/2023	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/08/2023	ND	192	95.9	200	0.787		
DRO >C10-C28*	<10.0	10.0	02/08/2023	ND	185	92.6	200	5.31		
EXT DRO >C28-C36	<10.0	10.0	02/08/2023	ND						

Surrogate: 1-Chlorooctane 100 % 48.2-134  
 Surrogate: 1-Chlorooctadecane 112 % 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:	02/07/2023	Sampling Date:	02/07/2023
Reported:	02/09/2023	Sampling Type:	Soil
Project Name:	CRESCENT HALE 12 FED #001 ( C.H. )	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: SW - 3 6" (H230529-29)**

BTEX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	02/09/2023	ND	1.93	96.7	2.00	2.10	
Toluene*	<0.025	0.025	02/09/2023	ND	2.09	105	2.00	2.31	
Ethylbenzene*	<0.025	0.025	02/09/2023	ND	2.18	109	2.00	1.93	
Total Xylenes*	<0.075	0.075	02/09/2023	ND	6.41	107	6.00	1.76	
Total BTEX	<0.150	0.150	02/09/2023	ND					

Surrogate: Dibromofluoromethane 95.3 % 86.7-111  
 Surrogate: Toluene-d8 104 % 89.3-110  
 Surrogate: 4-Bromofluorobenzene 98.9 % 88.2-108

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	02/09/2023	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/08/2023	ND	192	95.9	200	0.787	
DRO >C10-C28*	<10.0	10.0	02/08/2023	ND	185	92.6	200	5.31	
EXT DRO >C28-C36	<10.0	10.0	02/08/2023	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134  
 Surrogate: 1-Chlorooctadecane 121 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	02/07/2023	Sampling Date:	02/07/2023
Reported:	02/09/2023	Sampling Type:	Soil
Project Name:	CRESCENT HALE 12 FED #001 ( C.H. )	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: SW - 4 6" (H230529-30)**

BTEX 8260B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.025	0.025	02/09/2023	ND	1.93	96.7	2.00	2.10		
Toluene*	<0.025	0.025	02/09/2023	ND	2.09	105	2.00	2.31		
Ethylbenzene*	<0.025	0.025	02/09/2023	ND	2.18	109	2.00	1.93		
Total Xylenes*	<0.075	0.075	02/09/2023	ND	6.41	107	6.00	1.76		
Total BTEX	<0.150	0.150	02/09/2023	ND						

Surrogate: Dibromofluoromethane 96.0 % 86.7-111  
 Surrogate: Toluene-d8 104 % 89.3-110  
 Surrogate: 4-Bromofluorobenzene 98.3 % 88.2-108

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>144</b>	16.0	02/09/2023	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/08/2023	ND	192	95.9	200	0.787		
DRO >C10-C28*	<10.0	10.0	02/08/2023	ND	185	92.6	200	5.31		
EXT DRO >C28-C36	<10.0	10.0	02/08/2023	ND						

Surrogate: 1-Chlorooctane 104 % 48.2-134  
 Surrogate: 1-Chlorooctadecane 115 % 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:	02/07/2023	Sampling Date:	02/07/2023
Reported:	02/09/2023	Sampling Type:	Soil
Project Name:	CRESCENT HALE 12 FED #001 ( C.H. )	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: SW - 5 2' (H230529-31)**

BTEX 8260B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.025	0.025	02/09/2023	ND	1.93	96.7	2.00	2.10		
Toluene*	<0.025	0.025	02/09/2023	ND	2.09	105	2.00	2.31		
Ethylbenzene*	<0.025	0.025	02/09/2023	ND	2.18	109	2.00	1.93		
Total Xylenes*	<0.075	0.075	02/09/2023	ND	6.41	107	6.00	1.76		
Total BTEX	<0.150	0.150	02/09/2023	ND						

Surrogate: Dibromofluoromethane 95.4 % 86.7-111  
 Surrogate: Toluene-d8 103 % 89.3-110  
 Surrogate: 4-Bromofluorobenzene 100 % 88.2-108

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	02/09/2023	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/08/2023	ND	192	95.9	200	0.787		
DRO >C10-C28*	<10.0	10.0	02/08/2023	ND	185	92.6	200	5.31		
EXT DRO >C28-C36	<10.0	10.0	02/08/2023	ND						

Surrogate: 1-Chlorooctane 97.4 % 48.2-134  
 Surrogate: 1-Chlorooctadecane 107 % 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:	02/07/2023	Sampling Date:	02/07/2023
Reported:	02/09/2023	Sampling Type:	Soil
Project Name:	CRESCENT HALE 12 FED #001 ( C.H. )	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: SW - 6 2' (H230529-32)**

BTEX 8260B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.025	0.025	02/09/2023	ND	1.93	96.7	2.00	2.10		
Toluene*	<0.025	0.025	02/09/2023	ND	2.09	105	2.00	2.31		
Ethylbenzene*	<0.025	0.025	02/09/2023	ND	2.18	109	2.00	1.93		
Total Xylenes*	<0.075	0.075	02/09/2023	ND	6.41	107	6.00	1.76		
Total BTEX	<0.150	0.150	02/09/2023	ND						

Surrogate: Dibromofluoromethane 95.7 % 86.7-111  
 Surrogate: Toluene-d8 103 % 89.3-110  
 Surrogate: 4-Bromofluorobenzene 98.7 % 88.2-108

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	02/09/2023	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/08/2023	ND	192	95.9	200	0.787		
DRO >C10-C28*	<10.0	10.0	02/08/2023	ND	185	92.6	200	5.31		
EXT DRO >C28-C36	<10.0	10.0	02/08/2023	ND						

Surrogate: 1-Chlorooctane 99.6 % 48.2-134  
 Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	02/07/2023	Sampling Date:	02/07/2023
Reported:	02/09/2023	Sampling Type:	Soil
Project Name:	CRESCENT HALE 12 FED #001 ( C.H. )	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: SW - 7 2' (H230529-33)**

BTEX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	02/09/2023	ND	1.93	96.7	2.00	2.10	
Toluene*	<0.025	0.025	02/09/2023	ND	2.09	105	2.00	2.31	
Ethylbenzene*	<0.025	0.025	02/09/2023	ND	2.18	109	2.00	1.93	
Total Xylenes*	<0.075	0.075	02/09/2023	ND	6.41	107	6.00	1.76	
Total BTEX	<0.150	0.150	02/09/2023	ND					

Surrogate: Dibromofluoromethane 93.9 % 86.7-111  
 Surrogate: Toluene-d8 102 % 89.3-110  
 Surrogate: 4-Bromofluorobenzene 99.2 % 88.2-108

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	02/09/2023	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/08/2023	ND	192	95.9	200	0.787	
DRO >C10-C28*	<10.0	10.0	02/08/2023	ND	185	92.6	200	5.31	
EXT DRO >C28-C36	<10.0	10.0	02/08/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134  
 Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	02/07/2023	Sampling Date:	02/07/2023
Reported:	02/09/2023	Sampling Type:	Soil
Project Name:	CRESCENT HALE 12 FED #001 ( C.H. )	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: SW - 8 2' (H230529-34)**

BTEX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	02/09/2023	ND	1.93	96.7	2.00	2.10	
Toluene*	<0.025	0.025	02/09/2023	ND	2.09	105	2.00	2.31	
Ethylbenzene*	<0.025	0.025	02/09/2023	ND	2.18	109	2.00	1.93	
Total Xylenes*	<0.075	0.075	02/09/2023	ND	6.41	107	6.00	1.76	
Total BTEX	<0.150	0.150	02/09/2023	ND					

Surrogate: Dibromofluoromethane 95.1 % 86.7-111  
 Surrogate: Toluene-d8 104 % 89.3-110  
 Surrogate: 4-Bromofluorobenzene 99.5 % 88.2-108

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	02/09/2023	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/08/2023	ND	192	95.9	200	0.787	
DRO >C10-C28*	<10.0	10.0	02/08/2023	ND	185	92.6	200	5.31	
EXT DRO >C28-C36	<10.0	10.0	02/08/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134  
 Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	02/07/2023	Sampling Date:	02/07/2023
Reported:	02/09/2023	Sampling Type:	Soil
Project Name:	CRESCENT HALE 12 FED #001 ( C.H. )	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: SW - 9 2' (H230529-35)**

BTEX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	02/09/2023	ND	1.93	96.7	2.00	2.10	
Toluene*	<0.025	0.025	02/09/2023	ND	2.09	105	2.00	2.31	
Ethylbenzene*	<0.025	0.025	02/09/2023	ND	2.18	109	2.00	1.93	
Total Xylenes*	<0.075	0.075	02/09/2023	ND	6.41	107	6.00	1.76	
Total BTEX	<0.150	0.150	02/09/2023	ND					

Surrogate: Dibromofluoromethane 96.0 % 86.7-111  
 Surrogate: Toluene-d8 103 % 89.3-110  
 Surrogate: 4-Bromofluorobenzene 100 % 88.2-108

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/09/2023	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/08/2023	ND	192	95.9	200	0.787	
DRO >C10-C28*	<10.0	10.0	02/08/2023	ND	185	92.6	200	5.31	
EXT DRO >C28-C36	<10.0	10.0	02/08/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134  
 Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	02/07/2023	Sampling Date:	02/07/2023
Reported:	02/09/2023	Sampling Type:	Soil
Project Name:	CRESCENT HALE 12 FED #001 ( C.H. )	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: SW - 10 2' (H230529-36)**

BTEX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	02/09/2023	ND	1.93	96.7	2.00	2.10	
Toluene*	<0.025	0.025	02/09/2023	ND	2.09	105	2.00	2.31	
Ethylbenzene*	<0.025	0.025	02/09/2023	ND	2.18	109	2.00	1.93	
Total Xylenes*	<0.075	0.075	02/09/2023	ND	6.41	107	6.00	1.76	
Total BTEX	<0.150	0.150	02/09/2023	ND					

Surrogate: Dibromofluoromethane 95.4 % 86.7-111  
 Surrogate: Toluene-d8 103 % 89.3-110  
 Surrogate: 4-Bromofluorobenzene 99.3 % 88.2-108

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	02/09/2023	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/08/2023	ND	192	95.9	200	0.787	
DRO >C10-C28*	<10.0	10.0	02/08/2023	ND	185	92.6	200	5.31	
EXT DRO >C28-C36	<10.0	10.0	02/08/2023	ND					

Surrogate: 1-Chlorooctane 98.8 % 48.2-134  
 Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	02/07/2023	Sampling Date:	02/07/2023
Reported:	02/09/2023	Sampling Type:	Soil
Project Name:	CRESCENT HALE 12 FED #001 ( C.H. )	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: SW - 11 3' (H230529-37)**

BTEX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	02/09/2023	ND	1.93	96.7	2.00	2.10	
Toluene*	<0.025	0.025	02/09/2023	ND	2.09	105	2.00	2.31	
Ethylbenzene*	<0.025	0.025	02/09/2023	ND	2.18	109	2.00	1.93	
Total Xylenes*	<0.075	0.075	02/09/2023	ND	6.41	107	6.00	1.76	
Total BTEX	<0.150	0.150	02/09/2023	ND					

Surrogate: Dibromofluoromethane 93.2 % 86.7-111  
 Surrogate: Toluene-d8 103 % 89.3-110  
 Surrogate: 4-Bromofluorobenzene 98.6 % 88.2-108

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	02/09/2023	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/08/2023	ND	192	95.9	200	0.787	
DRO >C10-C28*	<10.0	10.0	02/08/2023	ND	185	92.6	200	5.31	
EXT DRO >C28-C36	<10.0	10.0	02/08/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134  
 Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	02/07/2023	Sampling Date:	02/07/2023
Reported:	02/09/2023	Sampling Type:	Soil
Project Name:	CRESCENT HALE 12 FED #001 ( C.H. )	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: SW - 13 3' (H230529-39)**

BTEX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	02/09/2023	ND	1.93	96.7	2.00	2.10	
Toluene*	<0.025	0.025	02/09/2023	ND	2.09	105	2.00	2.31	
Ethylbenzene*	<0.025	0.025	02/09/2023	ND	2.18	109	2.00	1.93	
Total Xylenes*	<0.075	0.075	02/09/2023	ND	6.41	107	6.00	1.76	
Total BTEX	<0.150	0.150	02/09/2023	ND					

Surrogate: Dibromofluoromethane 93.5 % 86.7-111  
 Surrogate: Toluene-d8 104 % 89.3-110  
 Surrogate: 4-Bromofluorobenzene 99.3 % 88.2-108

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>144</b>	16.0	02/09/2023	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/09/2023	ND	241	120	200	3.94	
DRO >C10-C28*	<10.0	10.0	02/09/2023	ND	217	109	200	0.718	
EXT DRO >C28-C36	<10.0	10.0	02/09/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134  
 Surrogate: 1-Chlorooctadecane 110 % 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:	02/07/2023	Sampling Date:	02/07/2023
Reported:	02/09/2023	Sampling Type:	Soil
Project Name:	CRESCENT HALE 12 FED #001 ( C.H. )	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: SW - 14 3' (H230529-40)**

BTEX 8260B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.025	0.025	02/09/2023	ND	1.93	96.7	2.00	2.10		
Toluene*	<0.025	0.025	02/09/2023	ND	2.09	105	2.00	2.31		
Ethylbenzene*	<0.025	0.025	02/09/2023	ND	2.18	109	2.00	1.93		
Total Xylenes*	<0.075	0.075	02/09/2023	ND	6.41	107	6.00	1.76		
Total BTEX	<0.150	0.150	02/09/2023	ND						

Surrogate: Dibromofluoromethane 95.6 % 86.7-111  
 Surrogate: Toluene-d8 102 % 89.3-110  
 Surrogate: 4-Bromofluorobenzene 98.9 % 88.2-108

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	02/09/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/09/2023	ND	241	120	200	3.94		
DRO >C10-C28*	<10.0	10.0	02/09/2023	ND	217	109	200	0.718		
EXT DRO >C28-C36	<10.0	10.0	02/09/2023	ND						

Surrogate: 1-Chlorooctane 93.0 % 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:	02/07/2023	Sampling Date:	02/07/2023
Reported:	02/09/2023	Sampling Type:	Soil
Project Name:	CRESCENT HALE 12 FED #001 ( C.H. )	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: SW - 15 2' (H230529-41)**

BTEX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	02/09/2023	ND	1.93	96.7	2.00	2.10	
Toluene*	<0.025	0.025	02/09/2023	ND	2.09	105	2.00	2.31	
Ethylbenzene*	<0.025	0.025	02/09/2023	ND	2.18	109	2.00	1.93	
Total Xylenes*	<0.075	0.075	02/09/2023	ND	6.41	107	6.00	1.76	
Total BTEX	<0.150	0.150	02/09/2023	ND					

Surrogate: Dibromofluoromethane 94.1 % 86.7-111  
 Surrogate: Toluene-d8 102 % 89.3-110  
 Surrogate: 4-Bromofluorobenzene 98.4 % 88.2-108

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	02/09/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/09/2023	ND	241	120	200	3.94	
DRO >C10-C28*	<10.0	10.0	02/09/2023	ND	217	109	200	0.718	
EXT DRO >C28-C36	<10.0	10.0	02/09/2023	ND					

Surrogate: 1-Chlorooctane 90.7 % 48.2-134  
 Surrogate: 1-Chlorooctadecane 97.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	02/07/2023	Sampling Date:	02/07/2023
Reported:	02/09/2023	Sampling Type:	Soil
Project Name:	CRESCENT HALE 12 FED #001 ( C.H. )	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: SW - 16 2' (H230529-42)**

BTEX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	02/09/2023	ND	1.93	96.7	2.00	2.10	
Toluene*	<0.025	0.025	02/09/2023	ND	2.09	105	2.00	2.31	
Ethylbenzene*	<0.025	0.025	02/09/2023	ND	2.18	109	2.00	1.93	
Total Xylenes*	<0.075	0.075	02/09/2023	ND	6.41	107	6.00	1.76	
Total BTEX	<0.150	0.150	02/09/2023	ND					

Surrogate: Dibromofluoromethane 96.1 % 86.7-111  
 Surrogate: Toluene-d8 103 % 89.3-110  
 Surrogate: 4-Bromofluorobenzene 100 % 88.2-108

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>160</b>	16.0	02/09/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/09/2023	ND	241	120	200	3.94	
DRO >C10-C28*	<10.0	10.0	02/09/2023	ND	217	109	200	0.718	
EXT DRO >C28-C36	<10.0	10.0	02/09/2023	ND					

Surrogate: 1-Chlorooctane 94.7 % 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:	02/07/2023	Sampling Date:	02/07/2023
Reported:	02/09/2023	Sampling Type:	Soil
Project Name:	CRESCENT HALE 12 FED #001 ( C.H. )	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: SW - 17 2' (H230529-43)**

BTEX 8260B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.025	0.025	02/09/2023	ND	1.90	94.8	2.00	0.858		
Toluene*	<0.025	0.025	02/09/2023	ND	2.05	102	2.00	1.09		
Ethylbenzene*	<0.025	0.025	02/09/2023	ND	2.12	106	2.00	0.0132		
Total Xylenes*	<0.075	0.075	02/09/2023	ND	6.30	105	6.00	0.816		
Total BTEX	<0.150	0.150	02/09/2023	ND						

Surrogate: Dibromofluoromethane 94.6 % 86.7-111  
 Surrogate: Toluene-d8 102 % 89.3-110  
 Surrogate: 4-Bromofluorobenzene 99.8 % 88.2-108

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>112</b>	16.0	02/09/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/09/2023	ND	241	120	200	3.94		
<b>DRO &gt;C10-C28*</b>	<b>13.9</b>	10.0	02/09/2023	ND	217	109	200	0.718		
EXT DRO >C28-C36	<10.0	10.0	02/09/2023	ND						

Surrogate: 1-Chlorooctane 97.5 % 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:	02/07/2023	Sampling Date:	02/07/2023
Reported:	02/09/2023	Sampling Type:	Soil
Project Name:	CRESCENT HALE 12 FED #001 ( C.H. )	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: SW - 18 2' (H230529-44)**

BTEX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	02/09/2023	ND	1.90	94.8	2.00	0.858	
Toluene*	<0.025	0.025	02/09/2023	ND	2.05	102	2.00	1.09	
Ethylbenzene*	<0.025	0.025	02/09/2023	ND	2.12	106	2.00	0.0132	
Total Xylenes*	<0.075	0.075	02/09/2023	ND	6.30	105	6.00	0.816	
Total BTEX	<0.150	0.150	02/09/2023	ND					

Surrogate: Dibromofluoromethane 95.4 % 86.7-111  
 Surrogate: Toluene-d8 105 % 89.3-110  
 Surrogate: 4-Bromofluorobenzene 98.4 % 88.2-108

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>144</b>	16.0	02/09/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/08/2023	ND	192	95.9	200	0.787	
<b>DRO &gt;C10-C28*</b>	<b>18.3</b>	10.0	02/08/2023	ND	185	92.6	200	5.31	
EXT DRO >C28-C36	<10.0	10.0	02/08/2023	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134  
 Surrogate: 1-Chlorooctadecane 128 % 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:	02/07/2023	Sampling Date:	02/07/2023
Reported:	02/09/2023	Sampling Type:	Soil
Project Name:	CRESCENT HALE 12 FED #001 ( C.H. )	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: SW - 19 2' (H230529-45)**

BTEX 8260B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.025	0.025	02/09/2023	ND	1.90	94.8	2.00	0.858		
Toluene*	<0.025	0.025	02/09/2023	ND	2.05	102	2.00	1.09		
Ethylbenzene*	<0.025	0.025	02/09/2023	ND	2.12	106	2.00	0.0132		
Total Xylenes*	<0.075	0.075	02/09/2023	ND	6.30	105	6.00	0.816		
Total BTEX	<0.150	0.150	02/09/2023	ND						

Surrogate: Dibromofluoromethane 95.9 % 86.7-111  
 Surrogate: Toluene-d8 102 % 89.3-110  
 Surrogate: 4-Bromofluorobenzene 98.0 % 88.2-108

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>160</b>	16.0	02/09/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/09/2023	ND	201	100	200	1.11		
<b>DRO &gt;C10-C28*</b>	<b>12.5</b>	10.0	02/09/2023	ND	199	99.7	200	0.502		
EXT DRO >C28-C36	<10.0	10.0	02/09/2023	ND						

Surrogate: 1-Chlorooctane 79.9 % 48.2-134  
 Surrogate: 1-Chlorooctadecane 84.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	02/07/2023	Sampling Date:	02/07/2023
Reported:	02/09/2023	Sampling Type:	Soil
Project Name:	CRESCENT HALE 12 FED #001 ( C.H. )	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: SW - 20 2-4' (H230529-46)**

BTEX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	02/09/2023	ND	1.90	94.8	2.00	0.858	
Toluene*	<0.025	0.025	02/09/2023	ND	2.05	102	2.00	1.09	
Ethylbenzene*	<0.025	0.025	02/09/2023	ND	2.12	106	2.00	0.0132	
Total Xylenes*	<0.075	0.075	02/09/2023	ND	6.30	105	6.00	0.816	
Total BTEX	<0.150	0.150	02/09/2023	ND					

Surrogate: Dibromofluoromethane 94.0 % 86.7-111  
 Surrogate: Toluene-d8 103 % 89.3-110  
 Surrogate: 4-Bromofluorobenzene 98.7 % 88.2-108

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>160</b>	16.0	02/09/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/09/2023	ND	201	100	200	1.11	
<b>DRO &gt;C10-C28*</b>	<b>21.6</b>	10.0	02/09/2023	ND	199	99.7	200	0.502	
EXT DRO >C28-C36	<10.0	10.0	02/09/2023	ND					

Surrogate: 1-Chlorooctane 99.4 % 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:	02/07/2023	Sampling Date:	02/07/2023
Reported:	02/09/2023	Sampling Type:	Soil
Project Name:	CRESCENT HALE 12 FED #001 ( C.H. )	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: SW - 21 4' (H230529-47)**

BTEX 8260B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.025	0.025	02/09/2023	ND	1.90	94.8	2.00	0.858		
Toluene*	<0.025	0.025	02/09/2023	ND	2.05	102	2.00	1.09		
Ethylbenzene*	<0.025	0.025	02/09/2023	ND	2.12	106	2.00	0.0132		
Total Xylenes*	<0.075	0.075	02/09/2023	ND	6.30	105	6.00	0.816		
Total BTEX	<0.150	0.150	02/09/2023	ND						

Surrogate: Dibromofluoromethane 96.9 % 86.7-111  
 Surrogate: Toluene-d8 103 % 89.3-110  
 Surrogate: 4-Bromofluorobenzene 98.6 % 88.2-108

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>320</b>	16.0	02/09/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/09/2023	ND	201	100	200	1.11		
<b>DRO &gt;C10-C28*</b>	<b>152</b>	10.0	02/09/2023	ND	199	99.7	200	0.502		
<b>EXT DRO &gt;C28-C36</b>	<b>22.3</b>	10.0	02/09/2023	ND						

Surrogate: 1-Chlorooctane 85.7 % 48.2-134  
 Surrogate: 1-Chlorooctadecane 97.5 % 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:	02/07/2023	Sampling Date:	02/07/2023
Reported:	02/09/2023	Sampling Type:	Soil
Project Name:	CRESCENT HALE 12 FED #001 ( C.H. )	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: SW - 22 2-4' (H230529-48)**

BTEX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	02/09/2023	ND	1.90	94.8	2.00	0.858	
Toluene*	<0.025	0.025	02/09/2023	ND	2.05	102	2.00	1.09	
Ethylbenzene*	<0.025	0.025	02/09/2023	ND	2.12	106	2.00	0.0132	
Total Xylenes*	<0.075	0.075	02/09/2023	ND	6.30	105	6.00	0.816	
Total BTEX	<0.150	0.150	02/09/2023	ND					

Surrogate: Dibromofluoromethane 96.7 % 86.7-111  
 Surrogate: Toluene-d8 104 % 89.3-110  
 Surrogate: 4-Bromofluorobenzene 100 % 88.2-108

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>160</b>	16.0	02/09/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/09/2023	ND	201	100	200	1.11	
<b>DRO &gt;C10-C28*</b>	<b>16.7</b>	10.0	02/09/2023	ND	199	99.7	200	0.502	
EXT DRO >C28-C36	<10.0	10.0	02/09/2023	ND					

Surrogate: 1-Chlorooctane 89.3 % 48.2-134  
 Surrogate: 1-Chlorooctadecane 96.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	02/07/2023	Sampling Date:	02/07/2023
Reported:	02/09/2023	Sampling Type:	Soil
Project Name:	CRESCENT HALE 12 FED #001 ( C.H. )	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: TW - 1 2-4' (H230529-49)**

BTEX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	02/09/2023	ND	1.90	94.8	2.00	0.858	
Toluene*	<0.025	0.025	02/09/2023	ND	2.05	102	2.00	1.09	
Ethylbenzene*	<0.025	0.025	02/09/2023	ND	2.12	106	2.00	0.0132	
Total Xylenes*	<0.075	0.075	02/09/2023	ND	6.30	105	6.00	0.816	
Total BTEX	<0.150	0.150	02/09/2023	ND					

Surrogate: Dibromofluoromethane 94.0 % 86.7-111  
 Surrogate: Toluene-d8 103 % 89.3-110  
 Surrogate: 4-Bromofluorobenzene 98.7 % 88.2-108

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>80.0</b>	16.0	02/09/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/09/2023	ND	201	100	200	1.11	
<b>DRO &gt;C10-C28*</b>	<b>14.8</b>	10.0	02/09/2023	ND	199	99.7	200	0.502	
EXT DRO >C28-C36	<10.0	10.0	02/09/2023	ND					

Surrogate: 1-Chlorooctane 88.8 % 48.2-134  
 Surrogate: 1-Chlorooctadecane 97.5 % 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:	02/07/2023	Sampling Date:	02/07/2023
Reported:	02/09/2023	Sampling Type:	Soil
Project Name:	CRESCENT HALE 12 FED #001 ( C.H. )	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: BG - 1 0-1' (H230529-50)**

BTEX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	02/09/2023	ND	1.90	94.8	2.00	0.858	
Toluene*	<0.025	0.025	02/09/2023	ND	2.05	102	2.00	1.09	
Ethylbenzene*	<0.025	0.025	02/09/2023	ND	2.12	106	2.00	0.0132	
Total Xylenes*	<0.075	0.075	02/09/2023	ND	6.30	105	6.00	0.816	
Total BTEX	<0.150	0.150	02/09/2023	ND					

Surrogate: Dibromofluoromethane 94.9 % 86.7-111  
 Surrogate: Toluene-d8 104 % 89.3-110  
 Surrogate: 4-Bromofluorobenzene 101 % 88.2-108

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	02/09/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/09/2023	ND	201	100	200	1.11	
DRO >C10-C28*	<10.0	10.0	02/09/2023	ND	199	99.7	200	0.502	
EXT DRO >C28-C36	<10.0	10.0	02/09/2023	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134  
 Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	02/07/2023	Sampling Date:	02/07/2023
Reported:	02/09/2023	Sampling Type:	Soil
Project Name:	CRESCENT HALE 12 FED #001 ( C.H. )	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: BG - 2 0-1' (H230529-51)**

BTEX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	02/09/2023	ND	1.90	94.8	2.00	0.858	
Toluene*	<0.025	0.025	02/09/2023	ND	2.05	102	2.00	1.09	
Ethylbenzene*	<0.025	0.025	02/09/2023	ND	2.12	106	2.00	0.0132	
Total Xylenes*	<0.075	0.075	02/09/2023	ND	6.30	105	6.00	0.816	
Total BTEX	<0.150	0.150	02/09/2023	ND					

Surrogate: Dibromofluoromethane 95.5 % 86.7-111  
 Surrogate: Toluene-d8 103 % 89.3-110  
 Surrogate: 4-Bromofluorobenzene 98.1 % 88.2-108

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	02/09/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/09/2023	ND	201	100	200	1.11	
DRO >C10-C28*	<10.0	10.0	02/09/2023	ND	199	99.7	200	0.502	
EXT DRO >C28-C36	<10.0	10.0	02/09/2023	ND					

Surrogate: 1-Chlorooctane 84.8 % 48.2-134  
 Surrogate: 1-Chlorooctadecane 92.5 % 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:	02/07/2023	Sampling Date:	02/07/2023
Reported:	02/09/2023	Sampling Type:	Soil
Project Name:	CRESCENT HALE 12 FED #001 ( C.H. )	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: BG - 3 0-1' (H230529-52)**

BTEX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	02/09/2023	ND	1.90	94.8	2.00	0.858	
Toluene*	<0.025	0.025	02/09/2023	ND	2.05	102	2.00	1.09	
Ethylbenzene*	<0.025	0.025	02/09/2023	ND	2.12	106	2.00	0.0132	
Total Xylenes*	<0.075	0.075	02/09/2023	ND	6.30	105	6.00	0.816	
Total BTEX	<0.150	0.150	02/09/2023	ND					

Surrogate: Dibromofluoromethane 92.8 % 86.7-111  
 Surrogate: Toluene-d8 102 % 89.3-110  
 Surrogate: 4-Bromofluorobenzene 99.6 % 88.2-108

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>16.0</b>	16.0	02/09/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/09/2023	ND	201	100	200	1.11	
DRO >C10-C28*	<10.0	10.0	02/09/2023	ND	199	99.7	200	0.502	
EXT DRO >C28-C36	<10.0	10.0	02/09/2023	ND					

Surrogate: 1-Chlorooctane 85.4 % 48.2-134  
 Surrogate: 1-Chlorooctadecane 93.2 % 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:	02/07/2023	Sampling Date:	02/07/2023
Reported:	02/09/2023	Sampling Type:	Soil
Project Name:	CRESCENT HALE 12 FED #001 ( C.H. )	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: BG - 4 0-1' (H230529-53)**

BTEX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	02/09/2023	ND	1.90	94.8	2.00	0.858	
Toluene*	<0.025	0.025	02/09/2023	ND	2.05	102	2.00	1.09	
Ethylbenzene*	<0.025	0.025	02/09/2023	ND	2.12	106	2.00	0.0132	
Total Xylenes*	<0.075	0.075	02/09/2023	ND	6.30	105	6.00	0.816	
Total BTEX	<0.150	0.150	02/09/2023	ND					

Surrogate: Dibromofluoromethane 94.1 % 86.7-111  
 Surrogate: Toluene-d8 102 % 89.3-110  
 Surrogate: 4-Bromofluorobenzene 98.0 % 88.2-108

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>80.0</b>	16.0	02/09/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/09/2023	ND	201	100	200	1.11	
DRO >C10-C28*	<10.0	10.0	02/09/2023	ND	199	99.7	200	0.502	
EXT DRO >C28-C36	<10.0	10.0	02/09/2023	ND					

Surrogate: 1-Chlorooctane 70.2 % 48.2-134  
 Surrogate: 1-Chlorooctadecane 76.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
\*\* Samples not received at proper temperature of 6°C or below.
\*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <i>H&amp;R Enterprises</i>		P.O. #:		<b>BILL TO</b>		ANALYSIS REQUEST	
Project Manager: <i>M. Collier</i>		Company: <i>Cinarex Energy</i>		Attn: <i>Lee Luig</i>			
Address:		City:		State:		Zip:	
Phone #:		Fax #:		Project Owner:			
Project #: _____		City:		State:		Zip:	
Project Name: <i>Crescent Hale R Fed #1 (CH)</i>		Phone #:		Fax #:			
Project Location:		PRESERV:		DATE		TIME	
Sampler Name: <i>R. Bell</i>		ACID/BASE:		ICE / COOL		OTHER :	
FOR LAB USE ONLY		OTHER :		DATE		TIME	
Lab I.D. <i>A230529</i>		SAMPLELING		DATE		TIME	
Sample I.D.		MATRIX		DATE		TIME	
1		SOIL		2/7/23		X BTEX	
2		WASTEWATER				X TPH	
3		SLUDGE				X Chlorides	
4		OTHER :					
5		ACID/BASE:					
6		ICE / COOL					
7		OTHER :					
8		DATE					
9		TIME					
10							

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Relinquished By: \_\_\_\_\_ Date: *2/13/23* Received By: *Spodrigney*

Refrinquished By: \_\_\_\_\_ Date: *1304* Received By: \_\_\_\_\_

Delivered By: (Circle One) Observed Temp. °C: *12.2* Sample Condition:  Cool  Intact

Sampler - UPS - Bus - Other: Corrected Temp. °C: *0.2*  Yes  No

Thermometer ID #113 Correction Factor -0.6°C

Turnaround Time: *3 Day* Standard  Rush  Bacteria (only) Sample Condition:  Cool  Intact

REMARKS: *3 Day Pg 1 of 6*

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

FOR INFORMATION: 393-27710122 † Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com





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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:		Project Manager:		Address:		City:		State:		Zip:		P.O. #:		Company:		Attn:		Address:		City:		State:		Zip:		Phone #:		FAX #:			
Project Name: (C H)		Project Location:		Project Owner:		Project Name:		Project Location:		Project Owner:		Project Name:		Project Location:		Project Owner:		Project Name:		Project Location:		Project Owner:		Project Name:		Project Location:		Project Owner:			
Sampler Name:		FOR LAB USE ONLY		Lab I.D.		Sample I.D.		H230529		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :	
DATE		TIME		DATE		TIME		DATE		TIME		DATE		TIME		DATE		TIME		DATE		TIME		DATE		TIME		DATE		TIME	
21		21		21		21		21		21		21		21		21		21		21		21		21		21		21		21	
22		22		22		22		22		22		22		22		22		22		22		22		22		22		22		22	
23		23		23		23		23		23		23		23		23		23		23		23		23		23		23		23	
24		24		24		24		24		24		24		24		24		24		24		24		24		24		24		24	
25		25		25		25		25		25		25		25		25		25		25		25		25		25		25		25	
26		26		26		26		26		26		26		26		26		26		26		26		26		26		26		26	
27		27		27		27		27		27		27		27		27		27		27		27		27		27		27		27	
28		28		28		28		28		28		28		28		28		28		28		28		28		28		28		28	
29		29		29		29		29		29		29		29		29		29		29		29		29		29		29		29	
30		30		30		30		30		30		30		30		30		30		30		30		30		30		30		30	

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

Relinquished By: [Signature] Date: 2/23/23 Time: 1304  
Received By: [Signature] Date: 2/23/23 Time: 1304

Delivered By: (Circle One) Observed Temp. °C: 1.2°C Corrected Temp. °C: 0.6°C  
Sampler - UPS - Bus - Other: Cool Intact Yes Yes No No

Turnaround Time: 3 Day Standard Rush Bacteria (only) Sample Condition Cool Intact Yes Yes No No Corrected Temp. °C

REMARKS: 3 Day Pg 3 of 6

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



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

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

Company Name: <b>COPT</b> Project Manager: <b>COPT</b> Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____ Project #: _____ Project Owner: _____ Project Name: <b>(CH)</b> Project Location: _____ Sampler Name: _____ FOR LAB USE ONLY		<b>BILL TO</b> P.O. #: _____ Company: _____ Attn: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____		<b>ANALYSIS REQUEST</b>	
Lab I.D. <b>H230 529</b> Sample I.D. _____		(G)RAB OR (C)OMP: <b>C</b> # CONTAINERS: <b>1</b> MATRIX: <input checked="" type="checkbox"/> SOIL <input type="checkbox"/> GROUNDWATER <input type="checkbox"/> WASTEWATER <input type="checkbox"/> OIL <input type="checkbox"/> SLUDGE OTHER: _____	PRESERV: <input checked="" type="checkbox"/> ACID/BASE: <input type="checkbox"/> ICE / COOL OTHER: _____	DATE: <b>2/7/23</b> TIME: _____	ANALYSIS: <b>BTEX</b> <b>TPH</b> <b>Chlorides</b>  _____ _____ _____
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.		REMARKS: <b>Cancelled on 2/7/23</b>			
Relinquished By: _____ Date: <b>2/7/23</b> Time: <b>1304</b>		Received By: <b>Stocking</b> Date: _____ Time: _____		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: _____ All Results are emailed. Please provide Email address: _____	
Delivered By: (Circle One) Sampler - UPS - Bus - Other: _____		Observed Temp. °C: <b>1.2i</b> Corrected Temp. °C: <b>0.0i</b>		Sample Condition: Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Checked By: <b>SK</b> (Initials)	
Turnaround Time: <b>3-Day</b> Thermometer ID #113 <b>3day</b> Correction Factor -0.6°C		Bacteria (only) <input checked="" type="checkbox"/> Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Observed Temp. °C: _____ Corrected Temp. °C: _____		Remarks: <b>Pg 4 of 6</b>	

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







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

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February 17, 2023

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

RE: CRESCENT HALE 12 FED #001 ( C.H. )

Enclosed are the results of analyses for samples received by the laboratory on 02/13/23 11:32.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene  
Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/17/2023	Sampling Type:	Soil
Project Name:	CRESCENT HALE 12 FED #001 ( C.H. )	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: S - 21 2'5" (H230659-01)**

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/16/2023	ND	1.98	99.1	2.00	4.38		
Toluene*	<0.050	0.050	02/16/2023	ND	2.04	102	2.00	4.22		
Ethylbenzene*	<0.050	0.050	02/16/2023	ND	2.02	101	2.00	4.73		
Total Xylenes*	<0.150	0.150	02/16/2023	ND	6.30	105	6.00	4.75		
Total BTEX	<0.300	0.300	02/16/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	02/15/2023	ND	432	108	400	3.64		

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	02/15/2023	ND	191	95.6	200	1.76		
DRO >C10-C28*	<10.0	10.0	02/15/2023	ND	176	88.1	200	1.29		
EXT DRO >C28-C36	<10.0	10.0	02/15/2023	ND						

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/17/2023	Sampling Type:	Soil
Project Name:	CRESCENT HALE 12 FED #001 ( C.H. )	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: S - 22 2'5" (H230659-02)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/16/2023	ND	1.98	99.1	2.00	4.38	
Toluene*	<0.050	0.050	02/16/2023	ND	2.04	102	2.00	4.22	
Ethylbenzene*	<0.050	0.050	02/16/2023	ND	2.02	101	2.00	4.73	
Total Xylenes*	<0.150	0.150	02/16/2023	ND	6.30	105	6.00	4.75	
Total BTEX	<0.300	0.300	02/16/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	02/15/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/15/2023	ND	191	95.6	200	1.76	
DRO >C10-C28*	<10.0	10.0	02/15/2023	ND	176	88.1	200	1.29	
EXT DRO >C28-C36	<10.0	10.0	02/15/2023	ND					

Surrogate: 1-Chlorooctane 102 % 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:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/17/2023	Sampling Type:	Soil
Project Name:	CRESCENT HALE 12 FED #001 ( C.H. )	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: SW - 21 4'5" (H230659-03)**

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	02/16/2023	ND	1.98	99.1	2.00	4.38	
Toluene*	<0.050	0.050	02/16/2023	ND	2.04	102	2.00	4.22	
Ethylbenzene*	<0.050	0.050	02/16/2023	ND	2.02	101	2.00	4.73	
Total Xylenes*	<0.150	0.150	02/16/2023	ND	6.30	105	6.00	4.75	
Total BTEX	<0.300	0.300	02/16/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>64.0</b>	16.0	02/15/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2023	ND	212	106	200	2.67	
DRO >C10-C28*	<10.0	10.0	02/16/2023	ND	194	96.9	200	4.37	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					

Surrogate: 1-Chlorooctane 76.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Notes and Definitions**

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

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: **H+R ENTERPRISES**  
 Project Manager: **M. POWERS**

Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Phone #: \_\_\_\_\_ Fax #: \_\_\_\_\_

Project #: \_\_\_\_\_ Project Owner: **CIMAREX**  
 Project Name: **CRESCENT HOLE 12 FED#1**  
 Project Location: **EDDY COUNTY, NM**  
 Sampler Name: **R. BELL**

**BILL TO**  
 P.O. #: \_\_\_\_\_  
 Company: **CIMAREX**  
 Attn: **LUCY WILK**  
 Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Phone #: \_\_\_\_\_ Fax #: \_\_\_\_\_

**ANALYSIS REQUEST**

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	BTEX	TPH	CHLORIDES
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:					
H230659	1 5-21 2.5"	C	1			X					2-18-23		X	X	X
	2 5-22 2.5"												X	X	X
	3 SW-21 4.5"												X	X	X

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

Delivered By: (Circle One)  
 Sampler - UPS - Bus - Other: \_\_\_\_\_  
 Observed Temp. °C: **2.2**  
 Corrected Temp. °C: **1.6**

Sample Condition  
 Cool Intact:  Yes  No  
 Bacteria (only) Sample Condition:  Yes  No

Checked By: (Initials) **AP**  
 Turndown Time: \_\_\_\_\_  
 Thermometer ID #113  
 Correction Factor -0.6°C  
 Verbal Result:  Yes  No  
 Add'l Phone #: \_\_\_\_\_  
 All Results are emailed. Please provide Email address: \_\_\_\_\_  
 REMARKS: \_\_\_\_\_

FOR CARDINAL LABS ONLY  
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**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720

**District II**  
811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720

**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170

**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 200977

**CONDITIONS**

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd, Ste 300N Midland, TX 79706	OGRID: 162683
	Action Number: 200977
	Action Type: [C-141] Release Corrective Action (C-141)

**CONDITIONS**

Created By	Condition	Condition Date
amaxwell	None	8/4/2023