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## Site Assessment and Closure Report

Laughlin #007  
Incident# 1RP-4877 - nOY1732449643  
Lea 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 20, 2023**

Mr. Jim Griswold  
**NMOCD**  
1220 S. St. Francis Drive  
Santa Fe, NM 87505

Subject: **Site Assessment and Closure Report**  
Laughlin #007  
Lea County, NM

Dear Mr. Griswold,

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

### **Site Information**

The Laughlin #007 is located approximately 2.3 miles South of Monument, New Mexico. The legal location for this release is Unit Letter K, Section 4, Township 20 South and Range 37 East in Lea County, New Mexico. More specifically the latitude and longitude for the release are 32.599231 North and -103.259449 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 Ratliff-Wink fine sandy loams, 0 to 3 percent slopes. The referenced soil data is attached in [Appendix II](#). Drainage courses in this area are typically dry. The project site is not located in a high Karst potential area (Karst Map, [Appendix I](#)).

## Groundwater and Site Characterization

The New Mexico Office of the State Engineer web site indicates that the nearest reported depth to groundwater is 22-feet below ground surface (BGS). See [Appendix II](#) for the referenced groundwater data.

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

Approximate Depth to Groundwater	22 Feet/BGS
----------------------------------	-------------

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

As this release occurred in an area with a depth to groundwater of less than 50-feet BGS, the closure criteria for this site are as follows:

Table I			
Closure Criteria for Soils Impacted by a Release			
Minimum depth below any point within the horizontal boundary of the release to ground water less than 10,000 mg/l TDS	Constituent	Method*	Limit**
≤ 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 October 31, 2017, it was discovered that the check valve on the water transfer pump malfunctioned in the open position allowing water to flow into the water tank then overflowing into the containment. A total of 25 barrels of produced water was released, with 15 barrels being recovered.

## Site Assessment and Sampling Activities

H&R mobilized personnel to begin site assessment, and sampling activities. Grab samples were obtained by way of hand auger, from the old tank battery as well as outside the old tank battery area on all 4 sides. Samples were transported to Cardinal Laboratory for analysis, and the results are presented in the following data table. Initial site assessment sampling locations are illustrated on Site Assessment Map in [Appendix I](#). Photographs of the sample locations 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
S-1	3/9/2023	0-1'	ND	ND	ND	ND	ND	0	32
		2'	ND	ND	ND	ND	ND	0	16
		3'	ND	ND	ND	ND	ND	0	ND
		4'	ND	ND	ND	ND	ND	0	ND
S-2	3/9/2023	0-1'	ND	ND	ND	ND	ND	0	ND
		2'	ND	ND	ND	ND	ND	0	ND
		3'	ND	ND	ND	ND	ND	0	ND
		4'	ND	ND	ND	ND	ND	0	ND
S-3	3/9/2023	0-1'	ND	ND	ND	ND	ND	0	ND
		2'	ND	ND	ND	ND	ND	0	ND
		3'	ND	ND	ND	ND	ND	0	ND
		4'	ND	ND	ND	ND	ND	0	ND
H-1	3/9/2023	0-1'	ND	ND	ND	ND	ND	0	32
H-2	3/9/2023	0-1'	ND	ND	ND	ND	ND	0	80
H-3	3/9/2023	0-1'	ND	ND	ND	ND	ND	0	96
H-4	3/9/2023	0-1'	ND	ND	ND	ND	ND	0	48

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

Based on the results of our site assessment, all contaminated soil was removed during the reclamation process and no remediation is needed.

## Closure

Based on the site assessment and 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

A handwritten signature in black ink, appearing to read "Michael Collier".

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**



# Laughlin #007

Cimarex Energy Co. of Colorado  
Incident# 1RP-4877  
Lea County, NM  
Site Assessment Map

## Legend

-  1RP-4877 Release Area
-  Horizontal Sample
-  Vertical Sample

H-1  
S-3  
S-2  
S-1  
H-2  
CH-4  
CH-3



100 ft

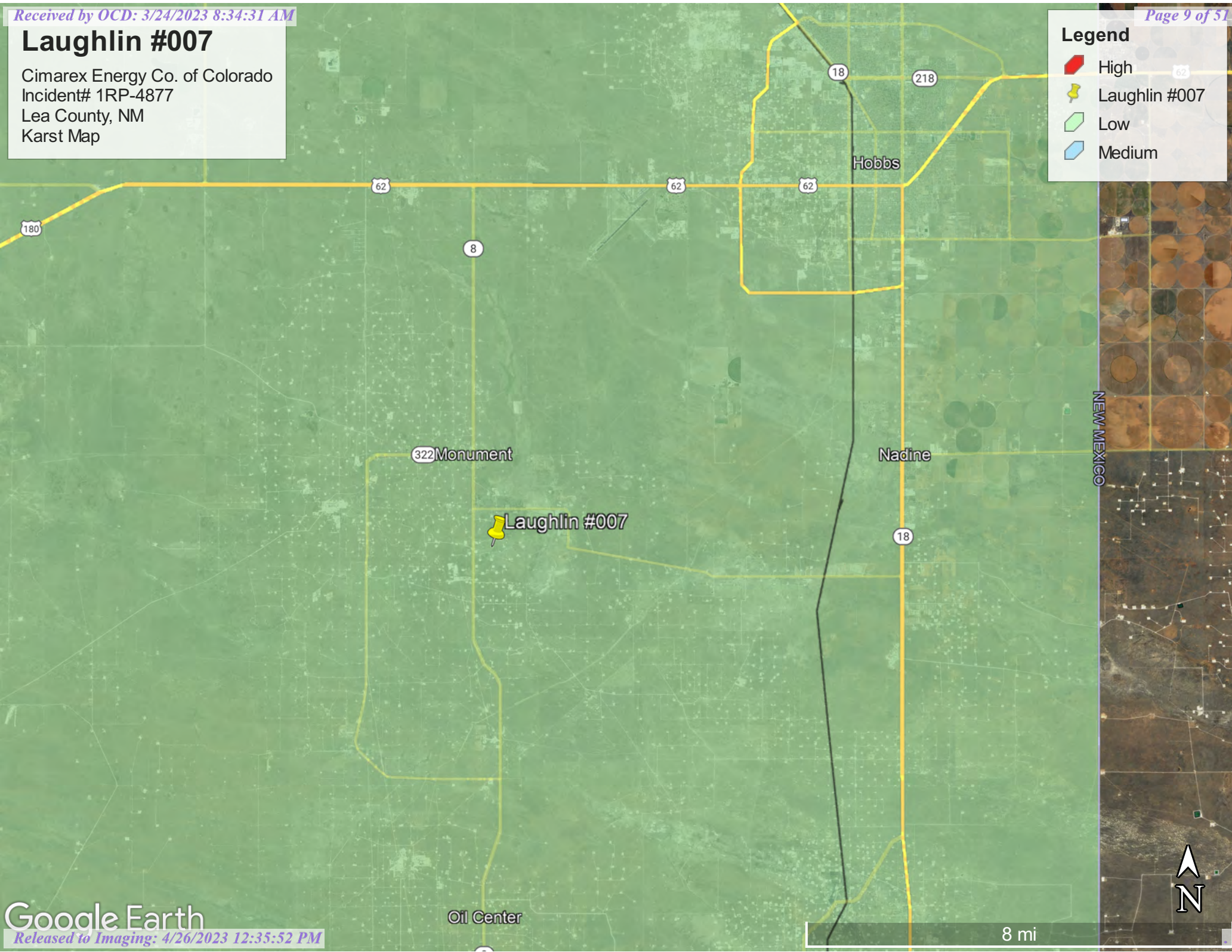


# Laughlin #007

Cimarex Energy Co. of Colorado  
Incident# 1RP-4877  
Lea County, NM  
Karst Map

## Legend

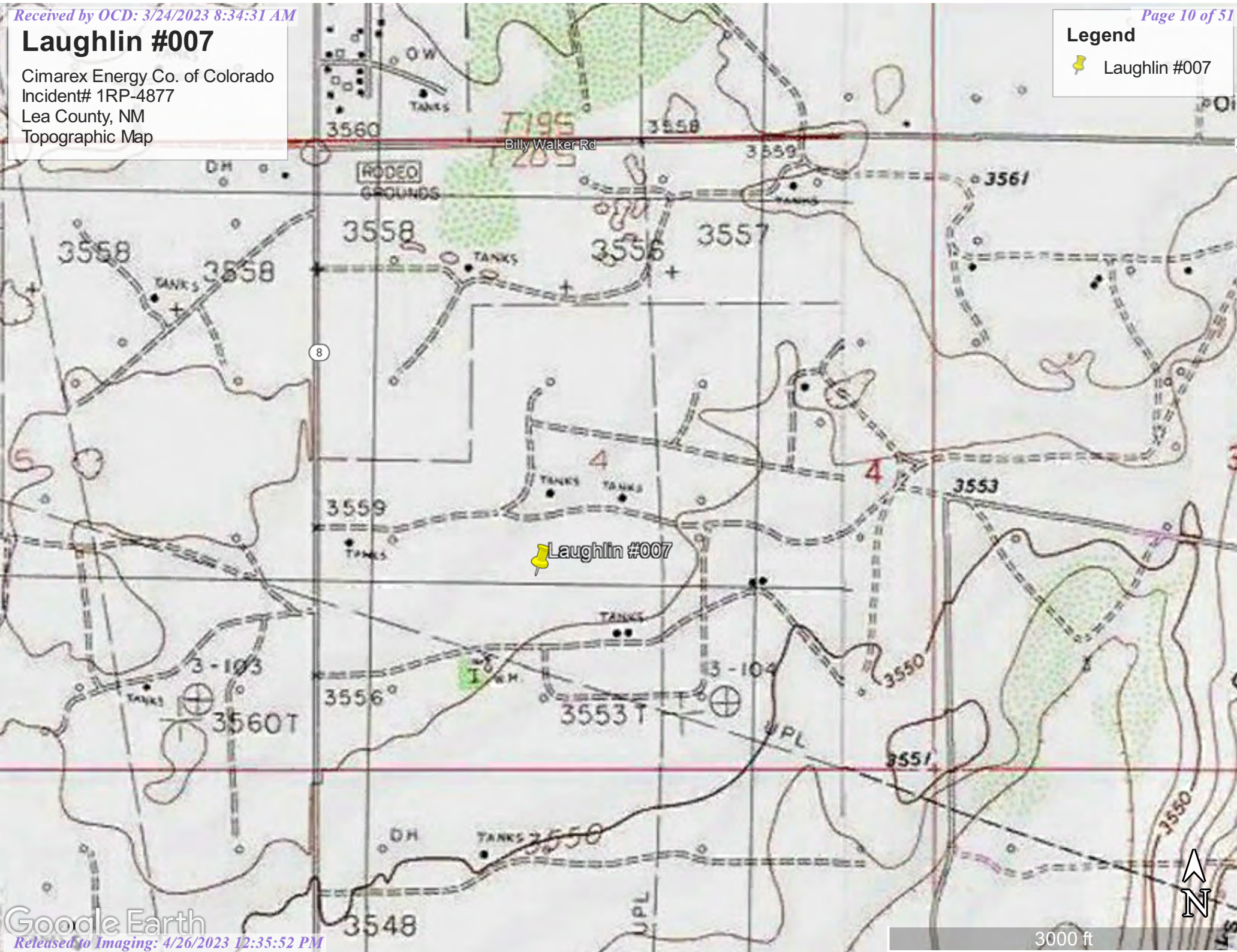
-  High
-  Laughlin #007
-  Low
-  Medium





Cimarex Energy Co. of Colorado  
Incident# 1RP-4877  
Lea County, NM  
Topographic Map

 Laughlin #007






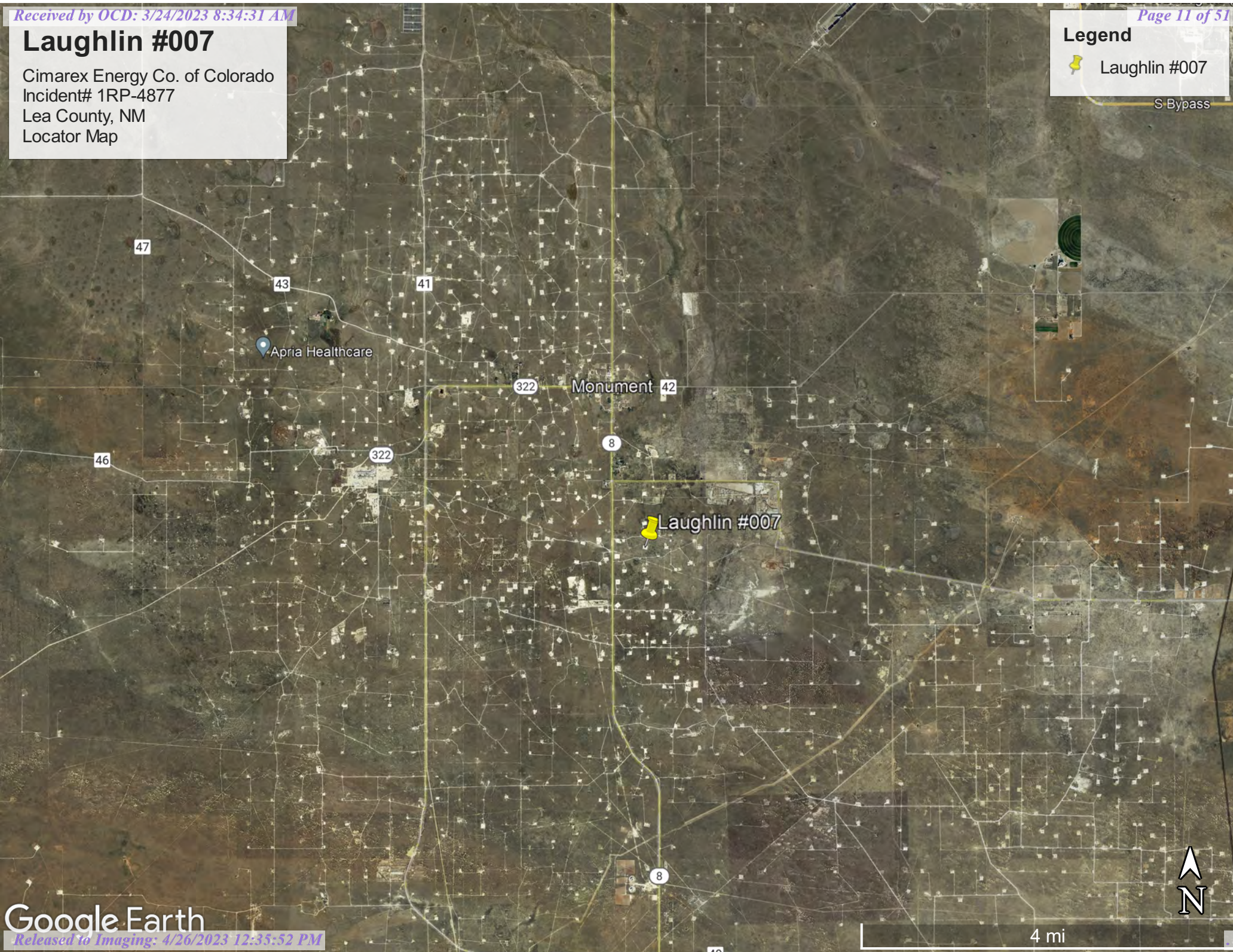
# Laughlin #007

Cimarex Energy Co. of Colorado  
Incident# 1RP-4877  
Lea County, NM  
Locator Map

## Legend

 Laughlin #007

S Bypass





## **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="#">L_05980</a>		L	LE	1	4	3	04	20S	37E	663319	3608017*	<input type="checkbox"/>	217	95	
<a href="#">L_10069</a>		L	LE			1	04	20S	37E	663205	3608920*	<input type="checkbox"/>	717	39	22 17
<a href="#">L_02139</a>		L	LE	2	2	2	08	20S	37E	662721	3607604*	<input type="checkbox"/>	906	80	38 42
<a href="#">L_05447</a>		L	LE		2	2	05	20S	37E	662594	3609117*	<input type="checkbox"/>	1189	50	28 22
<a href="#">L_09779</a>		L	LE	2	2	2	05	20S	37E	662693	3609216*	<input type="checkbox"/>	1206	50	40 10
<a href="#">L_02278</a>		L	LE		3	4	05	20S	37E	662212	3607902*	<input type="checkbox"/>	1213	65	37 28
<a href="#">L_02488</a>		L	LE		3	2	05	20S	37E	662199	3608709*	<input type="checkbox"/>	1277	63	32 31
<a href="#">L_01904</a>		L	LE	3	3	3	33	19S	37E	662888	3609430*	<input type="checkbox"/>	1302	82	29 53
<a href="#">L_03988</a>	R	L	LE	3	3	3	33	19S	37E	662888	3609430*	<input type="checkbox"/>	1302	75	29 46
<a href="#">L_04448 POD2</a>		L	LE	3	3	3	33	19S	37E	662888	3609430*	<input type="checkbox"/>	1302	46	36 10
<a href="#">L_08501</a>		L	LE	4	3	4	33	19S	37E	663892	3609441*	<input type="checkbox"/>	1318	43	29 14
<a href="#">L_03993</a>		L	LE		3	3	33	19S	37E	662989	3609531*	<input type="checkbox"/>	1363	75	29 46
<a href="#">L_04842</a>		L	LE		3	3	33	19S	37E	662989	3609531*	<input type="checkbox"/>	1363	60	35 25
<a href="#">L_09129</a>		L	LE		3	4	33	19S	37E	663793	3609542*	<input type="checkbox"/>	1379	52	43 9
<a href="#">L_07620</a>		L	LE	4	4	2	08	20S	37E	662728	3607000*	<input type="checkbox"/>	1388	70	27 43
<a href="#">L_07620 S</a>		L	LE	4	4	2	08	20S	37E	662728	3607000*	<input type="checkbox"/>	1388	75	35 40
<a href="#">L_09127</a>		L	LE	3	4	4	33	19S	37E	664094	3609447*	<input type="checkbox"/>	1414	52	40 12
<a href="#">L_09128</a>		L	LE	1	3	3	33	19S	37E	662888	3609630*	<input type="checkbox"/>	1489	30	26 4
<a href="#">L_01256</a>		L	LE	3	4	4	32	19S	37E	662486	3609424*	<input type="checkbox"/>	1496	46	32 14
<a href="#">L_04405</a>		L	LE			3	33	19S	37E	663190	3609732*	<input type="checkbox"/>	1519	45	37 8
<a href="#">L_04806</a>		L	LE			3	33	19S	37E	663190	3609732*	<input type="checkbox"/>	1519	60	35 25
<a href="#">L_04809</a>		L	LE			3	33	19S	37E	663190	3609732*	<input type="checkbox"/>	1519	60	35 25
<a href="#">L_04929</a>		L	LE			3	33	19S	37E	663190	3609732*	<input type="checkbox"/>	1519	55	27 28
<a href="#">L_06761</a>		L	LE			3	33	19S	37E	663190	3609732*	<input type="checkbox"/>	1519	50	27 23
<a href="#">L_00744</a>		L	LE	4	4	4	33	19S	37E	664294	3609447*	<input type="checkbox"/>	1525	80	42 38
<a href="#">L_00744 S</a>		L	LE	4	4	4	33	19S	37E	664294	3609447*	<input type="checkbox"/>	1525	90	26 64
<a href="#">L_03738</a>		L	LE		4	4	33	19S	37E	664195	3609548*	<input type="checkbox"/>	1553	72	31 41
<a href="#">L_07619</a>		L	LE	2	2	4	08	20S	37E	662734	3606797*	<input type="checkbox"/>	1567	70	30 40
<a href="#">L_10150</a>		L	LE		1	4	09	20S	37E	663842	3606715*	<input type="checkbox"/>	1578	46	30 16
<a href="#">L_02102</a>		L	LE		4	3	05	20S	37E	661809	3607897*	<input type="checkbox"/>	1606	70	46 24



<a href="#">L_01253</a>		L	LE	1	3	2	08	20S	37E	662125	3607195*	<input type="checkbox"/>	1624	81	45	36
<a href="#">L_07513 S2</a>		L	LE			4	33	19S	37E	663994	3609743*	<input type="checkbox"/>	1636	45	35	10
<a href="#">L_07513</a>		L	LE	3	1	4	33	19S	37E	663685	3609843*	<input type="checkbox"/>	1646	45	35	10
<a href="#">L_09681</a>		L	LE	3	1	4	33	19S	37E	663685	3609843*	<input type="checkbox"/>	1646	52	39	13
<a href="#">L_00744 S3</a>		L	LE	2	4	4	33	19S	37E	664294	3609647*	<input type="checkbox"/>	1689	50	27	23
<a href="#">L_09594</a>		L	LE		2	4	08	20S	37E	662635	3606698*	<input type="checkbox"/>	1699	80		
<a href="#">L_03938</a>		L	LE			4	32	19S	37E	662386	3609719*	<input type="checkbox"/>	1795	40	25	15
<a href="#">L_02483</a>		L	LE	4	4	1	08	20S	37E	661922	3606990*	<input type="checkbox"/>	1911	84	34	50
<a href="#">L_07513 S</a>		L	LE	3	1	3	34	19S	37E	664490	3609855*	<input type="checkbox"/>	1971	44	25	19
<a href="#">L_09590</a>		L	LE			4	08	20S	37E	662440	3606491*	<input type="checkbox"/>	1973	70	35	35
<a href="#">L_09590</a>	R	L	LE			4	08	20S	37E	662440	3606491*	<input type="checkbox"/>	1973	70	35	35
<a href="#">L_09590 POD2</a>		L	LE			4	08	20S	37E	662440	3606491*	<input type="checkbox"/>	1973	66	30	36
<a href="#">L_12457 POD1</a>		L	LE	4	4	3	34	19S	37E	665007	3609413	<input type="checkbox"/>	2013	74	60	14
<a href="#">L_01450</a>		L	LE		3	1	05	20S	37E	661393	3608698*	<input type="checkbox"/>	2043	80	20	60
<a href="#">L_01817</a>		L	LE		1	4	32	19S	37E	662178	3609920*	<input type="checkbox"/>	2078	85	12	73
<a href="#">L_00744 S2</a>		L	LE			3	34	19S	37E	664798	3609755*	<input type="checkbox"/>	2085	50		
<a href="#">L_01572 POD1</a>		L	LE	1	3	3	05	20S	37E	661305	3607991*	<input type="checkbox"/>	2089	70		
<a href="#">L_10166 POD1</a>		L	LE	4	4	3	34	19S	37E	665098	3609459*	<input type="checkbox"/>	2114	35		
<a href="#">L_10166 POD2</a>		L	LE	4	4	3	34	19S	37E	665098	3609459*	<input type="checkbox"/>	2114	35		
<a href="#">L_10166 POD3</a>		L	LE	4	4	3	34	19S	37E	665098	3609459*	<input type="checkbox"/>	2114	35		
<a href="#">L_02497</a>		L	LE	3	3	3	05	20S	37E	661305	3607791*	<input type="checkbox"/>	2121	75	35	40
<a href="#">L_02463</a>		L	LE	1	2	3	08	20S	37E	661729	3606787*	<input type="checkbox"/>	2190	86	30	56
<a href="#">L_07626</a>		L	LE	1	1	4	32	19S	37E	662077	3610019*	<input type="checkbox"/>	2218	30		
<a href="#">L_00010</a>		L	LE		4	2	32	19S	37E	662574	3610327*	<input type="checkbox"/>	2251			
<a href="#">L_02274</a>		L	LE		3	1	08	20S	37E	661420	3607085*	<input type="checkbox"/>	2268	70	38	32
<a href="#">L_10397</a>		L	LE			1	33	19S	37E	663177	3610534*	<input type="checkbox"/>	2317	34	13	21
<a href="#">L_05049</a>		L	LE			3	32	19S	37E	661581	3609707*	<input type="checkbox"/>	2331	50	27	23
<a href="#">L_04619</a>		L	LE	3	2	4	06	20S	37E	660897	3608188*	<input type="checkbox"/>	2484	86	36	50
<a href="#">L_06796</a>		L	LE		1	2	33	19S	37E	663773	3610747*	<input type="checkbox"/>	2552	80		
<a href="#">L_13491 POD1</a>		L	LE	3	1	3	32	19S	37E	661329	3609819	<input type="checkbox"/>	2599	30		
<a href="#">L_01145 POD1</a>		L	LE	4	1	4	06	20S	37E	660695	3608182*	<input type="checkbox"/>	2686	75	35	40
<a href="#">L_02553</a>		L	LE	4	3	4	06	20S	37E	660701	3607779*	<input type="checkbox"/>	2717	85	40	45
<a href="#">L_00743 POD6</a>		L	LE		1	1	34	19S	37E	664578	3610759*	<input type="checkbox"/>	2802	44	21	23
<a href="#">L_00743 POD6</a>	R	L	LE		1	1	34	19S	37E	664578	3610759*	<input type="checkbox"/>	2802	44	21	23
<a href="#">L_00743 S</a>		L	LE		1	1	34	19S	37E	664578	3610759*	<input type="checkbox"/>	2802	46	21	25
<a href="#">L_00743 S</a>	R	L	LE		1	1	34	19S	37E	664578	3610759*	<input type="checkbox"/>	2802	46	21	25
<a href="#">L_00743 S2</a>		L	LE		1	1	34	19S	37E	664578	3610759*	<input type="checkbox"/>	2802	46	21	25
<a href="#">L_00743 S2</a>	R	L	LE		1	1	34	19S	37E	664578	3610759*	<input type="checkbox"/>	2802	46	21	25
<a href="#">L_09768</a>		L	LE		1	1	34	19S	37E	664578	3610759*	<input type="checkbox"/>	2802	39	24	15

<a href="#">L_10391</a>		L	LE	1	1	34	19S	37E	664578	3610759*	<input type="text"/>	2802	44	21	23	
<a href="#">L_03380</a>		L	LE	2	1	2	32	19S	37E	662265	3610822*	<input type="text"/>	2826	40	35	5
<a href="#">L_08803</a>		L	LE	1	1	1	34	19S	37E	664477	3610858*	<input type="text"/>	2851	41	25	16
<a href="#">L_02460</a>		L	LE		1	2	07	20S	37E	660609	3607477*	<input type="text"/>	2871	82	38	44
<a href="#">L_00743</a>		L	LE	2	1	1	34	19S	37E	664677	3610858*	<input type="text"/>	2934	40	20	20
<a href="#">L_00743</a>	R	L	LE	2	1	1	34	19S	37E	664677	3610858*	<input type="text"/>	2934	40	20	20
<a href="#">L_00743 S4</a>		L	LE	2	1	1	34	19S	37E	664677	3610858*	<input type="text"/>	2934	40	20	20
<a href="#">L_00743 S4</a>	R	L	LE	2	1	1	34	19S	37E	664677	3610858*	<input type="text"/>	2934	40	20	20
<a href="#">L_10403</a>		L	LE	2	1	1	34	19S	37E	664677	3610858*	<input type="text"/>	2934	41	20	21
<a href="#">L_03982</a>		L	LE		3	3	28	19S	37E	662964	3611135*	<input type="text"/>	2939	43	31	12
<a href="#">L_02533</a>		L	LE		3	2	07	20S	37E	660616	3607074*	<input type="text"/>	2995	82	34	48

Average Depth to Water:30 feet

Minimum Depth:12 feet

Maximum Depth:60 feet

Record Count: 80

Basin/County Search:

County: Lea

UTMNAD83 Radius Search (in meters):

Easting (X): 663381.37Northing (Y): 3608225Radius: 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.

3/20/23 8:11 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

Map Unit Description: Ratliff-Wink fine sandy loams---Lea County, New Mexico

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## Lea County, New Mexico

### MN—Ratliff-Wink fine sandy loams

#### Map Unit Setting

*National map unit symbol:* dmqf

*Elevation:* 3,000 to 3,900 feet

*Mean annual precipitation:* 10 to 15 inches

*Mean annual air temperature:* 60 to 62 degrees F

*Frost-free period:* 190 to 205 days

*Farmland classification:* Farmland of statewide importance

#### Map Unit Composition

*Ratliff and similar soils:* 45 percent

*Wink and similar soils:* 40 percent

*Minor components:* 15 percent

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

#### Description of Ratliff

##### Setting

*Landform:* Plains

*Landform position (three-dimensional):* Dip

*Down-slope shape:* Convex

*Across-slope shape:* Convex

*Parent material:* Calcareous alluvium and/or calcareous eolian deposits derived from sedimentary rock

##### Typical profile

*A - 0 to 4 inches:* fine sandy loam

*Bw - 4 to 22 inches:* clay loam

*Bk - 22 to 60 inches:* clay loam

##### Properties and qualities

*Slope:* 0 to 3 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 to high (0.60 to 2.00 in/hr)

*Depth to water table:* More than 80 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Calcium carbonate, maximum content:* 50 percent

*Gypsum, maximum content:* 1 percent

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

*Sodium adsorption ratio, maximum:* 2.0

*Available water supply, 0 to 60 inches:* Moderate (about 8.1 inches)

Map Unit Description: Ratliff-Wink fine sandy loams---Lea County, New Mexico

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**Interpretive groups**

*Land capability classification (irrigated):* 4e  
*Land capability classification (nonirrigated):* 6c  
*Hydrologic Soil Group:* B  
*Ecological site:* R070BC007NM - Loamy  
*Hydric soil rating:* No

**Description of Wink****Setting**

*Landform:* Plains  
*Landform position (three-dimensional):* Dip  
*Down-slope shape:* Convex  
*Across-slope shape:* Convex  
*Parent material:* Calcareous sandy alluvium and/or calcareous sandy eolian deposits derived from sedimentary rock

**Typical profile**

*A - 0 to 12 inches:* fine sandy loam  
*Bk - 12 to 23 inches:* sandy loam  
*B<sub>Ck</sub> - 23 to 60 inches:* sandy loam

**Properties and qualities**

*Slope:* 0 to 3 percent  
*Depth to restrictive feature:* More than 80 inches  
*Drainage class:* Well drained  
*Runoff class:* Very low  
*Capacity of the most limiting layer to transmit water (K<sub>sat</sub>):* High (2.00 to 6.00 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 30 percent  
*Gypsum, maximum content:* 1 percent  
*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)  
*Sodium adsorption ratio, maximum:* 2.0  
*Available water supply, 0 to 60 inches:* Low (about 4.7 inches)

**Interpretive groups**

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 7e  
*Hydrologic Soil Group:* A  
*Ecological site:* R070BD004NM - Sandy  
*Hydric soil rating:* No

**Minor Components****Kermit**

*Percent of map unit:* 6 percent  
*Ecological site:* R070BC022NM - Sandhills  
*Hydric soil rating:* No

Map Unit Description: Ratliff-Wink fine sandy loams---Lea County, New Mexico

---

**Maljamar**

*Percent of map unit:* 5 percent

*Ecological site:* R070BD003NM - Loamy Sand

*Hydric soil rating:* No

**Palomas**

*Percent of map unit:* 4 percent

*Ecological site:* R070BD003NM - Loamy Sand

*Hydric soil rating:* No

## Data Source Information

Soil Survey Area: Lea County, New Mexico

Survey Area Data: Version 19, Sep 8, 2022



# National Flood Hazard Layer FIRMette



103°15'51"W 32°36'13"N



## Legend

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

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped



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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 3/20/2023 at 10:15 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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

# **APPENDIX III**

**INITIAL C-141**

**FINAL C-141**



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

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

Form C-141  
Revised August 8, 2011

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

### Release Notification and Corrective Action

#### OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: Cimarex Energy Co. of Colorado	Contact: Gloria Garza
Address: 600 N Marienfeld Ste 600 Midland TX	Telephone No. 432-234-3204
Facility Name: Laughlin 7	Facility Type: Battery

Surface Owner: <b>Fee</b>	Mineral Owner:	API No. 30-025-35891
---------------------------	----------------	----------------------

#### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
K	4	20S	37E	1650	S	1875	W	Lea

Latitude 32.59951 \_ Longitude -103.25903 \_

#### NATURE OF RELEASE

Type of Release : Produced water	Volume : 25 BBLS	Volume Recovered: 15 BBLS
Source of Release : Check valve malfunctioned	Date and Hour of Occurrence: 10/31/2017	Date and Hour of Discovery: 10/31/2017
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Olivia Yu, Kristen Houston, and Amber Groves	
By Whom? Gloria Garza	Date and Hour: 11/1/2017 2:39 PM	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.\*

**RECEIVED**

**By Olivia Yu at 1:26 pm, Nov 20, 2017**

Describe Cause of Problem and Remedial Action Taken.\*

Check valve on water transfer pump malfunctioned in the open position after well was shut in on tubing and casing allowing water to flow into water tank.

Describe Area Affected and Cleanup Action Taken.\*

The affected area is the ground surrounding the tanks. All fluids were contained within firewall.  
We will delineate and submit a work plan to remediate.

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

Signature: <i>Gloria Garza</i>	<u>OIL CONSERVATION DIVISION</u>	
Printed Name: Gloria Garza	Approved by Environmental Specialist: <i>[Signature]</i>	
Title: ESH Specialist	Approval Date: <b>11/20/2017</b>	Expiration Date:
E-mail Address: ggarza@cimarex.com	Conditions of Approval: <b>see attached directive</b>	Attached <input checked="" type="checkbox"/>
Date: 11.20.2017 Phone: 432-234-3204		

Attach Additional Sheets If Necessary

**1RP-4877**

**pOY1732449824**

**nOY1732449643**

Operator/Responsible Party,

The OCD has received the form C-141 you provided on \_11/20/2017\_ regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number \_1RP-4877\_ has been assigned. **Please refer to this case number in all future correspondence.**

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

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

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. **As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District \_1\_ office in \_\_Hobbs\_\_ on or before \_12/20/2017\_. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.**

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

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

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

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

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

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

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

**Jim Griswold**

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



Incident ID	
District RP	
Facility ID	
Application ID	

## Site Assessment/Characterization

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

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

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

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

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

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

State of New Mexico  
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_  
Signature: Jac. Lj Date: \_\_\_\_\_  
email: \_\_\_\_\_ Telephone: \_\_\_\_\_

**OCD Only**

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

Incident ID	
District RP	
Facility ID	
Application ID	

## Closure

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

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

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

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

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


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

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

### OCD Only

Received by: 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: 04/26/2023

Printed Name: Jennifer Nobui Title: Environmental Specialist A

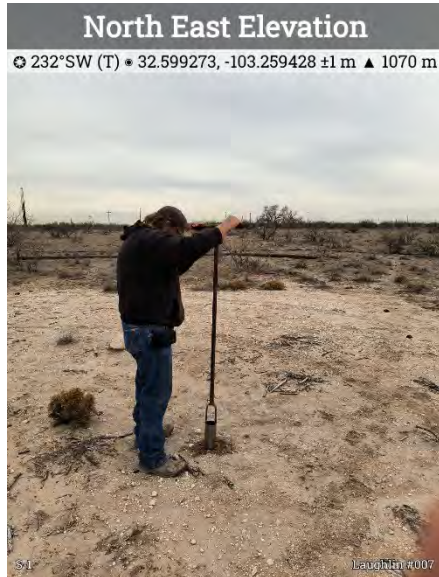
# **APPENDIX IV**

## **PHOTOGRAPHIC DOCUMENTATION**

PHOTOGRAPHIC DOCUMENTATION

SAMPLE LOCATION PHOTOGRAPHS

S-1



S-2



S-3



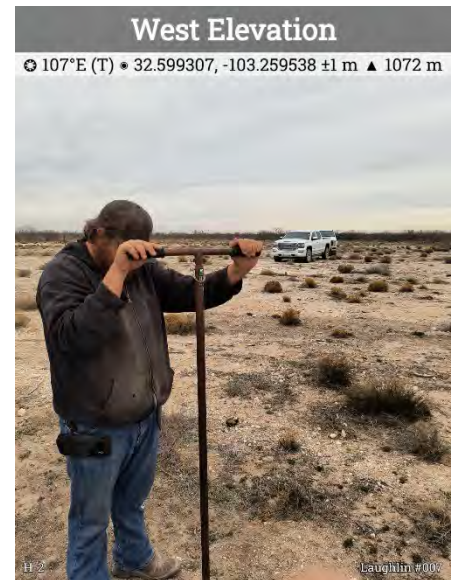


PHOTOGRAPHIC DOCUMENTATION

H-1



H-2



H-3



H-4



# **APPENDIX V**

## **LABORATORY REPORTS**



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

---

March 15, 2023

MICHAEL COLLIER

H & R ENTERPRISES

1010 GAMBLIN ROAD

HOBBS, NM 88240

RE: LAUGHLIN #007 (LAU)

Enclosed are the results of analyses for samples received by the laboratory on 03/10/23 11:17.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' 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: 03/10/2023  
 Reported: 03/15/2023  
 Project Name: LAUGHLIN #007 (LAU)  
 Project Number: NOT GIVEN  
 Project Location: CIMAREX - LEA COUNTY, NM

Sampling Date: 03/09/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S - 1 0-1' (H231111-01)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/13/2023	ND	1.94	97.1	2.00	8.97	
Toluene*	<0.050	0.050	03/13/2023	ND	1.99	99.4	2.00	9.90	
Ethylbenzene*	<0.050	0.050	03/13/2023	ND	1.97	98.3	2.00	8.98	
Total Xylenes*	<0.150	0.150	03/13/2023	ND	6.09	102	6.00	10.1	
Total BTEx	<0.300	0.300	03/13/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	32.0	16.0	03/10/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2023	ND	200	100	200	1.35	
DRO >C10-C28*	<10.0	10.0	03/10/2023	ND	239	119	200	1.88	
EXT DRO >C28-C36	<10.0	10.0	03/10/2023	ND					

Surrogate: 1-Chlorooctane 84.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 03/10/2023  
 Reported: 03/15/2023  
 Project Name: LAUGHLIN #007 (LAU)  
 Project Number: NOT GIVEN  
 Project Location: CIMAREX - LEA COUNTY, NM

Sampling Date: 03/09/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S - 1 2' (H231111-02)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/13/2023	ND	1.94	97.1	2.00	8.97		
Toluene*	<0.050	0.050	03/13/2023	ND	1.99	99.4	2.00	9.90		
Ethylbenzene*	<0.050	0.050	03/13/2023	ND	1.97	98.3	2.00	8.98		
Total Xylenes*	<0.150	0.150	03/13/2023	ND	6.09	102	6.00	10.1		
Total BTX	<0.300	0.300	03/13/2023	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	16.0	16.0	03/10/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2023	ND	200	100	200	1.35	
DRO >C10-C28*	<10.0	10.0	03/10/2023	ND	239	119	200	1.88	
EXT DRO >C28-C36	<10.0	10.0	03/10/2023	ND					

Surrogate: 1-Chlorooctane 90.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 03/10/2023  
 Reported: 03/15/2023  
 Project Name: LAUGHLIN #007 (LAU)  
 Project Number: NOT GIVEN  
 Project Location: CIMAREX - LEA COUNTY, NM

Sampling Date: 03/09/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S - 1 3' (H231111-03)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/13/2023	ND	1.94	97.1	2.00	8.97		
Toluene*	<0.050	0.050	03/13/2023	ND	1.99	99.4	2.00	9.90		
Ethylbenzene*	<0.050	0.050	03/13/2023	ND	1.97	98.3	2.00	8.98		
Total Xylenes*	<0.150	0.150	03/13/2023	ND	6.09	102	6.00	10.1		
Total BTEx	<0.300	0.300	03/13/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	03/10/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2023	ND	200	100	200	1.35	
DRO >C10-C28*	<10.0	10.0	03/10/2023	ND	239	119	200	1.88	
EXT DRO >C28-C36	<10.0	10.0	03/10/2023	ND					

Surrogate: 1-Chlorooctane 81.3 % 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: 03/10/2023  
 Reported: 03/15/2023  
 Project Name: LAUGHLIN #007 (LAU)  
 Project Number: NOT GIVEN  
 Project Location: CIMAREX - LEA COUNTY, NM

Sampling Date: 03/09/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S - 1 4' (H231111-04)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/13/2023	ND	1.94	97.1	2.00	8.97		
Toluene*	<0.050	0.050	03/13/2023	ND	1.99	99.4	2.00	9.90		
Ethylbenzene*	<0.050	0.050	03/13/2023	ND	1.97	98.3	2.00	8.98		
Total Xylenes*	<0.150	0.150	03/13/2023	ND	6.09	102	6.00	10.1		
Total BTX	<0.300	0.300	03/13/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/10/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2023	ND	200	100	200	1.35	
DRO >C10-C28*	<10.0	10.0	03/10/2023	ND	239	119	200	1.88	
EXT DRO >C28-C36	<10.0	10.0	03/10/2023	ND					

Surrogate: 1-Chlorooctane 82.6 % 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: 03/10/2023  
 Reported: 03/15/2023  
 Project Name: LAUGHLIN #007 (LAU)  
 Project Number: NOT GIVEN  
 Project Location: CIMAREX - LEA COUNTY, NM

Sampling Date: 03/09/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S - 2 0-1' (H231111-05)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/13/2023	ND	1.94	97.1	2.00	8.97	
Toluene*	<0.050	0.050	03/13/2023	ND	1.99	99.4	2.00	9.90	
Ethylbenzene*	<0.050	0.050	03/13/2023	ND	1.97	98.3	2.00	8.98	
Total Xylenes*	<0.150	0.150	03/13/2023	ND	6.09	102	6.00	10.1	
Total BTEX	<0.300	0.300	03/13/2023	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	<16.0	16.0	03/10/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2023	ND	200	100	200	1.35	
DRO >C10-C28*	<10.0	10.0	03/10/2023	ND	239	119	200	1.88	
EXT DRO >C28-C36	<10.0	10.0	03/10/2023	ND					

Surrogate: 1-Chlorooctane 89.5 % 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: 03/10/2023  
 Reported: 03/15/2023  
 Project Name: LAUGHLIN #007 (LAU)  
 Project Number: NOT GIVEN  
 Project Location: CIMAREX - LEA COUNTY, NM

Sampling Date: 03/09/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S - 2 2' (H231111-06)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/13/2023	ND	1.94	97.1	2.00	8.97		
Toluene*	<0.050	0.050	03/13/2023	ND	1.99	99.4	2.00	9.90		
Ethylbenzene*	<0.050	0.050	03/13/2023	ND	1.97	98.3	2.00	8.98		
Total Xylenes*	<0.150	0.150	03/13/2023	ND	6.09	102	6.00	10.1		
Total BTX	<0.300	0.300	03/13/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	03/10/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2023	ND	200	100	200	1.35	
DRO >C10-C28*	<10.0	10.0	03/10/2023	ND	239	119	200	1.88	
EXT DRO >C28-C36	<10.0	10.0	03/10/2023	ND					

Surrogate: 1-Chlorooctane 88.9 % 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: 03/10/2023  
 Reported: 03/15/2023  
 Project Name: LAUGHLIN #007 (LAU)  
 Project Number: NOT GIVEN  
 Project Location: CIMAREX - LEA COUNTY, NM

Sampling Date: 03/09/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S - 2 3' (H231111-07)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/13/2023	ND	1.94	97.1	2.00	8.97		
Toluene*	<0.050	0.050	03/13/2023	ND	1.99	99.4	2.00	9.90		
Ethylbenzene*	<0.050	0.050	03/13/2023	ND	1.97	98.3	2.00	8.98		
Total Xylenes*	<0.150	0.150	03/13/2023	ND	6.09	102	6.00	10.1		
Total BTX	<0.300	0.300	03/13/2023	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	<16.0	16.0	03/10/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2023	ND	200	100	200	1.35	
DRO >C10-C28*	<10.0	10.0	03/10/2023	ND	239	119	200	1.88	
EXT DRO >C28-C36	<10.0	10.0	03/10/2023	ND					

Surrogate: 1-Chlorooctane 93.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 03/10/2023  
 Reported: 03/15/2023  
 Project Name: LAUGHLIN #007 (LAU)  
 Project Number: NOT GIVEN  
 Project Location: CIMAREX - LEA COUNTY, NM

Sampling Date: 03/09/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S - 2 4' (H231111-08)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/13/2023	ND	1.94	97.1	2.00	8.97		
Toluene*	<0.050	0.050	03/13/2023	ND	1.99	99.4	2.00	9.90		
Ethylbenzene*	<0.050	0.050	03/13/2023	ND	1.97	98.3	2.00	8.98		
Total Xylenes*	<0.150	0.150	03/13/2023	ND	6.09	102	6.00	10.1		
Total BTX	<0.300	0.300	03/13/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	03/10/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2023	ND	200	100	200	1.35	
DRO >C10-C28*	<10.0	10.0	03/10/2023	ND	239	119	200	1.88	
EXT DRO >C28-C36	<10.0	10.0	03/10/2023	ND					

Surrogate: 1-Chlorooctane 85.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 03/10/2023  
 Reported: 03/15/2023  
 Project Name: LAUGHLIN #007 (LAU)  
 Project Number: NOT GIVEN  
 Project Location: CIMAREX - LEA COUNTY, NM

Sampling Date: 03/09/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S - 3 0-1' (H231111-09)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/13/2023	ND	1.94	96.8	2.00	6.32		
Toluene*	<0.050	0.050	03/13/2023	ND	1.98	99.0	2.00	6.65		
Ethylbenzene*	<0.050	0.050	03/13/2023	ND	2.03	101	2.00	7.07		
Total Xylenes*	<0.150	0.150	03/13/2023	ND	6.38	106	6.00	7.12		
Total BTEx	<0.300	0.300	03/13/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 128 % 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	03/10/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2023	ND	200	100	200	1.35	
DRO >C10-C28*	<10.0	10.0	03/10/2023	ND	239	119	200	1.88	
EXT DRO >C28-C36	<10.0	10.0	03/10/2023	ND					

Surrogate: 1-Chlorooctane 84.9 % 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: 03/10/2023  
 Reported: 03/15/2023  
 Project Name: LAUGHLIN #007 (LAU)  
 Project Number: NOT GIVEN  
 Project Location: CIMAREX - LEA COUNTY, NM

Sampling Date: 03/09/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S - 3 2' (H231111-10)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/13/2023	ND	1.94	96.8	2.00	6.32		
Toluene*	<0.050	0.050	03/13/2023	ND	1.98	99.0	2.00	6.65		
Ethylbenzene*	<0.050	0.050	03/13/2023	ND	2.03	101	2.00	7.07		
Total Xylenes*	<0.150	0.150	03/13/2023	ND	6.38	106	6.00	7.12		
Total BTEx	<0.300	0.300	03/13/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 131 % 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	03/10/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2023	ND	229	114	200	0.970	
DRO >C10-C28*	<10.0	10.0	03/11/2023	ND	224	112	200	0.100	
EXT DRO >C28-C36	<10.0	10.0	03/11/2023	ND					

Surrogate: 1-Chlorooctane 92.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 03/10/2023  
 Reported: 03/15/2023  
 Project Name: LAUGHLIN #007 (LAU)  
 Project Number: NOT GIVEN  
 Project Location: CIMAREX - LEA COUNTY, NM

Sampling Date: 03/09/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S - 3 3' (H231111-11)**

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/13/2023	ND	1.94	96.8	2.00	6.32	
Toluene*	<0.050	0.050	03/13/2023	ND	1.98	99.0	2.00	6.65	
Ethylbenzene*	<0.050	0.050	03/13/2023	ND	2.03	101	2.00	7.07	
Total Xylenes*	<0.150	0.150	03/13/2023	ND	6.38	106	6.00	7.12	
Total BTX	<0.300	0.300	03/13/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 132 % 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	03/10/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2023	ND	229	114	200	0.970	
DRO >C10-C28*	<10.0	10.0	03/11/2023	ND	224	112	200	0.100	
EXT DRO >C28-C36	<10.0	10.0	03/11/2023	ND					

Surrogate: 1-Chlorooctane 93.7 % 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: 03/10/2023  
 Reported: 03/15/2023  
 Project Name: LAUGHLIN #007 (LAU)  
 Project Number: NOT GIVEN  
 Project Location: CIMAREX - LEA COUNTY, NM

Sampling Date: 03/09/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S - 3 4' (H231111-12)**

BTX 8021B		mg/kg	Analyzed By: JH/					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/13/2023	ND	1.94	96.8	2.00	6.32	
Toluene*	<0.050	0.050	03/13/2023	ND	1.98	99.0	2.00	6.65	
Ethylbenzene*	<0.050	0.050	03/13/2023	ND	2.03	101	2.00	7.07	
Total Xylenes*	<0.150	0.150	03/13/2023	ND	6.38	106	6.00	7.12	
Total BTX	<0.300	0.300	03/13/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 135 % 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	03/10/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2023	ND	229	114	200	0.970	
DRO >C10-C28*	<10.0	10.0	03/11/2023	ND	224	112	200	0.100	
EXT DRO >C28-C36	<10.0	10.0	03/11/2023	ND					

Surrogate: 1-Chlorooctane 91.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 03/10/2023  
 Reported: 03/15/2023  
 Project Name: LAUGHLIN #007 (LAU)  
 Project Number: NOT GIVEN  
 Project Location: CIMAREX - LEA COUNTY, NM

Sampling Date: 03/09/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: H - 1 0-1' (H231111-13)**

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/13/2023	ND	1.94	96.8	2.00	6.32	
Toluene*	<0.050	0.050	03/13/2023	ND	1.98	99.0	2.00	6.65	
Ethylbenzene*	<0.050	0.050	03/13/2023	ND	2.03	101	2.00	7.07	
Total Xylenes*	<0.150	0.150	03/13/2023	ND	6.38	106	6.00	7.12	
Total BTX	<0.300	0.300	03/13/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 127 % 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	03/10/2023	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	03/11/2023	ND	229	114	200	0.970	
DRO >C10-C28*	<10.0	10.0	03/11/2023	ND	224	112	200	0.100	
EXT DRO >C28-C36	<10.0	10.0	03/11/2023	ND					

Surrogate: 1-Chlorooctane 92.6 % 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: 03/10/2023  
 Reported: 03/15/2023  
 Project Name: LAUGHLIN #007 (LAU)  
 Project Number: NOT GIVEN  
 Project Location: CIMAREX - LEA COUNTY, NM

Sampling Date: 03/09/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: H - 2 0-1' (H231111-14)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/13/2023	ND	1.94	96.8	2.00	6.32		
Toluene*	<0.050	0.050	03/13/2023	ND	1.98	99.0	2.00	6.65		
Ethylbenzene*	<0.050	0.050	03/13/2023	ND	2.03	101	2.00	7.07		
Total Xylenes*	<0.150	0.150	03/13/2023	ND	6.38	106	6.00	7.12		
Total BTEx	<0.300	0.300	03/13/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 129 % 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	03/10/2023	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	03/11/2023	ND	229	114	200	0.970	
DRO >C10-C28*	<10.0	10.0	03/11/2023	ND	224	112	200	0.100	
EXT DRO >C28-C36	<10.0	10.0	03/11/2023	ND					

Surrogate: 1-Chlorooctane 92.4 % 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: 03/10/2023  
 Reported: 03/15/2023  
 Project Name: LAUGHLIN #007 (LAU)  
 Project Number: NOT GIVEN  
 Project Location: CIMAREX - LEA COUNTY, NM

Sampling Date: 03/09/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: H - 3 0-1' (H231111-15)**

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/13/2023	ND	1.94	96.8	2.00	6.32		
Toluene*	<0.050	0.050	03/13/2023	ND	1.98	99.0	2.00	6.65		
Ethylbenzene*	<0.050	0.050	03/13/2023	ND	2.03	101	2.00	7.07		
Total Xylenes*	<0.150	0.150	03/13/2023	ND	6.38	106	6.00	7.12		
Total BTX	<0.300	0.300	03/13/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 131 % 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	03/10/2023	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	03/11/2023	ND	229	114	200	0.970	
DRO >C10-C28*	<10.0	10.0	03/11/2023	ND	224	112	200	0.100	
EXT DRO >C28-C36	<10.0	10.0	03/11/2023	ND					

Surrogate: 1-Chlorooctane 84.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.6 % 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: 03/10/2023  
 Reported: 03/15/2023  
 Project Name: LAUGHLIN #007 (LAU)  
 Project Number: NOT GIVEN  
 Project Location: CIMAREX - LEA COUNTY, NM

Sampling Date: 03/09/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: H - 4 0-1' (H231111-16)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/13/2023	ND	1.94	96.8	2.00	6.32		
Toluene*	<0.050	0.050	03/13/2023	ND	1.98	99.0	2.00	6.65		
Ethylbenzene*	<0.050	0.050	03/13/2023	ND	2.03	101	2.00	7.07		
Total Xylenes*	<0.150	0.150	03/13/2023	ND	6.38	106	6.00	7.12		
Total BTEx	<0.300	0.300	03/13/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 126 % 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	03/10/2023	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	03/11/2023	ND	229	114	200	0.970	
DRO >C10-C28*	<10.0	10.0	03/11/2023	ND	224	112	200	0.100	
EXT DRO >C28-C36	<10.0	10.0	03/11/2023	ND					

Surrogate: 1-Chlorooctane 93.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

---

Celey D. Keene, Lab Director/Quality Manager





### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

**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 200438

CONDITIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 600 N. Marienfeld Street Midland, TX 79701	OGRID: 162683
	Action Number: 200438
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	4/26/2023