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Remediation and Closure Report

State LF 30 #001
Incident# nPLM1004341848
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

December 19, 2022

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

Subject: **Remediation and Closure Report**
State LF 30 #001
Incident# nPLM1004341848
Lea County, NM

Dear 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.

The remediation activities conducted in this report originally were to address the incident that occurred on 3/1/2022 (nAPP2206125036), but after completing historical research on this site it was determined that both spills overlap each other.

Site Information

The State LF 30 #001 is located approximately 15.7 miles West of Lovington, New Mexico. The legal location for this release is Unit Letter H, Section 30, Township 16 South and Range 34 East in Lea County, New Mexico. More specifically the latitude and longitude for the release are 32.89473 North and -103.59395 West. Site plans are presented in [Appendix I](#).

According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Service, the soil in this area is made up of Kimbrough-Lea complex, dry, 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 120-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	120 Feet/BGS
---	---------------------

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

Due to groundwater data not being current, an exploratory water bore was drilled at the location to a depth of 55-feet BGS on October 24, 2022. During the drilling process no water was encountered, nor when gauged when drilling was completed. On October 28, 2022, gauging was performed to determine any presence of groundwater. No groundwater was detected. See Soil Bore Log in [Appendix II](#) for soil characterization of bore hole.

As this is a remediation in an area with a depth to groundwater of greater 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**
51-100 feet	Chloride **	EPA 300.0 or SM4500 CIB	10,000 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2,500 mg/kg
	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 25, 2009, the valve on the oil tank froze and broke, causing the discharge of its contents into the bermed area. One hundred-three (103) barrels of crude oil were released with forty-seven (47) barrels recovered. One hundred (100) barrels of produced water were released with seventy-two (72) barrels recovered.

Site Assessment and Remediation Activities

H&R mobilized personnel to begin site assessment and sampling activities of the location. Grab samples were obtained by way of test trenching the tank battery. Samples collected were transported to Cardinal Laboratories for analysis. Results of that analysis are shown below in Table 1. Test trench locations are illustrated on Test Trench Map, [Appendix I](#).

Table 1: Initial Soil Samples Analysis

Sample ID	Sample Date	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
NMOCD Table 1 Closure Criteria 19.15.29 NMAC			50 mg/kg	10 mg/kg	1000 mg/kg		2500 mg/kg	2500 mg/kg	10,000mg/kg
TT-1	3/17/2022	4'	868	ND	9530	2450	ND	11980	32
		8'	778	ND	15200	4700	ND	19900	32
	4/19/2022	10'	ND	ND	ND	ND	ND	0	32
		12'	ND	ND	ND	ND	ND	0	16
TT-2	3/17/2022	4'	761	ND	15200	4360	ND	19560	32
		8'	604	ND	12500	4640	ND	17140	32
TT-3	3/17/2022	4'	154	ND	622	218	ND	840	16
		8'	16.7	ND	624	981	ND	1605	32
TT-4	4/19/2022	0-1'	ND	ND	ND	11.5	ND	11.5	304
		4'	1.73	ND	89.7	267	ND	356.7	32
TT-6	4/19/2022	0-1'	ND	ND	ND	ND	ND	0	48
		4'	ND	ND	ND	ND	ND	0	32
BG	4/19/2022	0-1'	ND	ND	ND	ND	ND	0	ND

ND = Analyte Not Detected TT = Test Trench BG = Background

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

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	1000 mg/kg		2500 mg/kg	2500 mg/kg	10,000 mg/kg
S-1	10/24/2022	12'	ND	ND	ND	50	ND	50	48
S-2	10/24/2022	12'	ND	ND	ND	88.5	ND	88.5	32
S-3	10/24/2022	12'	ND	ND	ND	101	ND	101	32
S-4	10/24/2022	12'	ND	ND	ND	58.8	ND	58.8	48
S-5	10/24/2022	12'	ND	ND	ND	38.7	ND	38.7	64
S-6	10/24/2022	12'	ND	ND	ND	104	ND	104	48
S-7	10/24/2022	12'	ND	ND	ND	117	ND	117	16
S-8	10/24/2022	12'	ND	ND	ND	155	ND	155	48
S-9	10/24/2022	12'	ND	ND	ND	98.4	ND	98.4	48
S-10	10/24/2022	12'	ND	ND	ND	81.6	ND	81.6	32
S-11	10/24/2022	12'	ND	ND	ND	ND	ND	0	48
S-12	10/24/2022	12'	ND	ND	ND	ND	ND	0	48
S-13	10/24/2022	12'	ND	ND	ND	ND	ND	0	48
S-14	10/24/2022	12'	ND	ND	ND	ND	ND	0	32
S-15	10/24/2022	12'	ND	ND	ND	ND	ND	0	32
S-16	10/24/2022	12'	ND	ND	ND	ND	ND	0	48
S-17	10/24/2022	12'	ND	ND	ND	ND	ND	0	32
S-18	10/24/2022	12'	ND	ND	ND	ND	ND	0	48
SW-1	10/24/2022	12'	ND	ND	ND	ND	ND	0	80
SW-2	10/24/2022	12'	ND	ND	ND	ND	ND	0	48
SW-3	10/24/2022	12'	ND	ND	ND	ND	ND	0	48
SW-4	10/24/2022	12'	ND	ND	ND	ND	ND	0	64
SW-5	10/24/2022	12'	ND	ND	ND	ND	ND	0	64
SW-6	10/24/2022	12'	ND	ND	ND	ND	ND	0	32
SW-7	10/24/2022	12'	ND	ND	ND	ND	ND	0	80
SW-8	10/24/2022	12'	ND	ND	ND	ND	ND	0	64
SW-9	10/24/2022	12'	ND	ND	ND	ND	ND	0	48
SW-10	10/24/2022	12'	ND	ND	ND	ND	ND	0	64
SW-11	10/24/2022	12'	ND	ND	ND	ND	ND	0	48
SW-12	10/24/2022	12'	ND	ND	ND	ND	ND	0	80
SW-13	10/24/2022	12'	ND	ND	ND	ND	ND	0	48
SW-14	10/24/2022	12'	ND	ND	ND	ND	ND	0	32
SW-15	10/24/2022	12'	ND	ND	ND	ND	ND	0	80
SW-16	10/24/2022	12'	ND		ND	ND	ND	0	32
BG-1	10/24/2022	0-1'	ND	ND	ND	ND	ND	0	96
BG-2	10/24/2022	0-1'	ND	ND	ND	ND	ND	0	112
BG-3	10/24/2022	0-1'	ND	ND	ND	11.6	ND	11.6	64
BG-4	10/24/2022	0-1'	ND	ND	ND	15.8	ND	15.8	16

ND = Analyte Not Detected SW = Sidewall BG = Background

Remedial Actions

- The impacted areas in the vicinity of sample points TT-1 through TT-4 were excavated to a total depth of 12-feet BGS.
- Composite confirmation samples were obtained from the sidewalls and bottoms of the excavated areas and transported to Cardinal Laboratories to verify that all contaminants above closure criteria had been removed. The results are shown on Table 2 and the corresponding lab reports may be found in [Appendix V](#).
- All the excavated material (1980yds) 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 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, Water Bore Map, Soil Bore Log

Appendix III Initial and Final C-141

Appendix IV Boring Logs

Appendix V Photographic Documentation

Appendix VI Laboratory Data

APPENDIX I

SITE MAPS

KARST MAP



TOPOGRAPHIC MAP

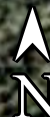
LOCATOR MAP

State LF 30 #001

Cimarex Energy Co. of Colorado
Incident# nAPP2206125036
Lea County, NM
Test Trench Map

Legend

-  Impact Area
-  Test Trench





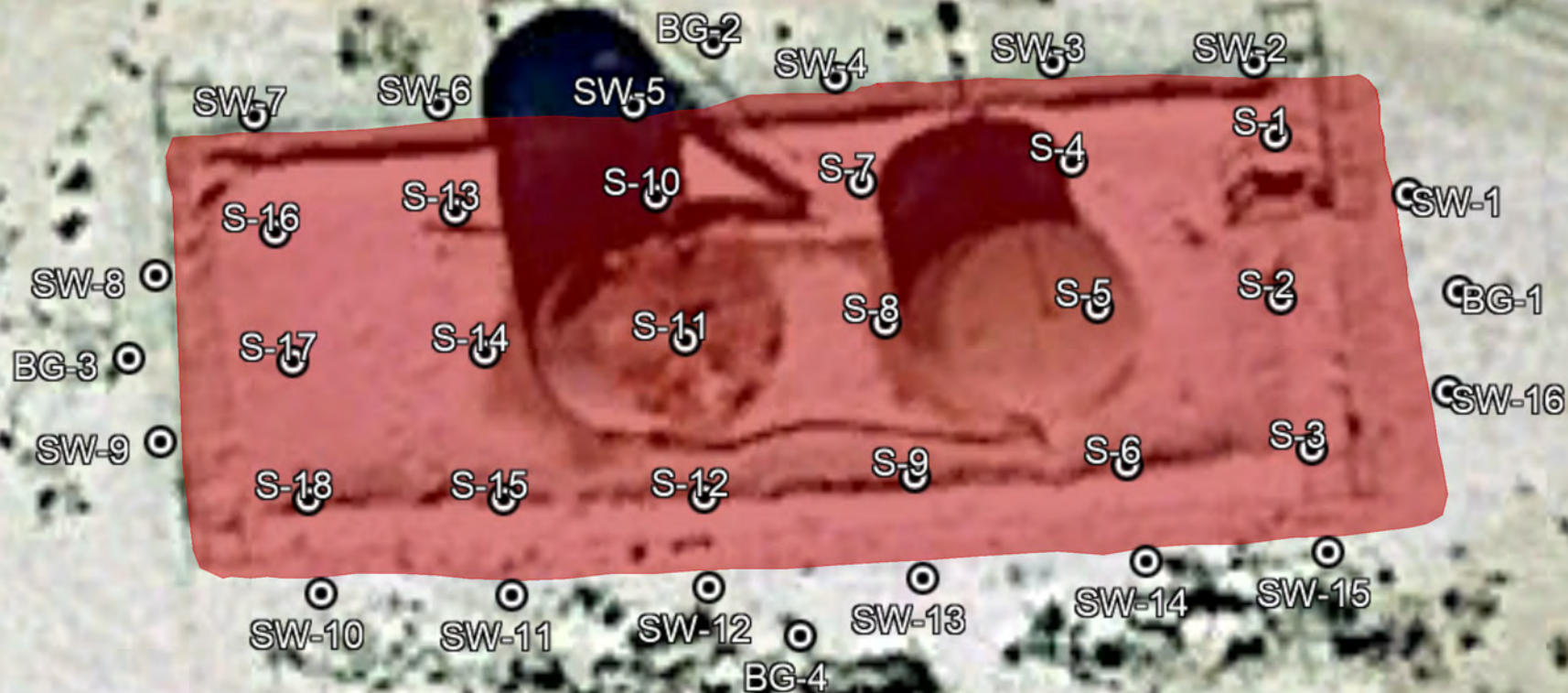
100 ft

State LF 30 #001

Cimarex Energy Co. of Colorado
Incident# nAPP2206125036
Lea County, NM
Confirmation Sample Map

Legend

-  12ft. Excavation
-  Composite Confirmation Sample



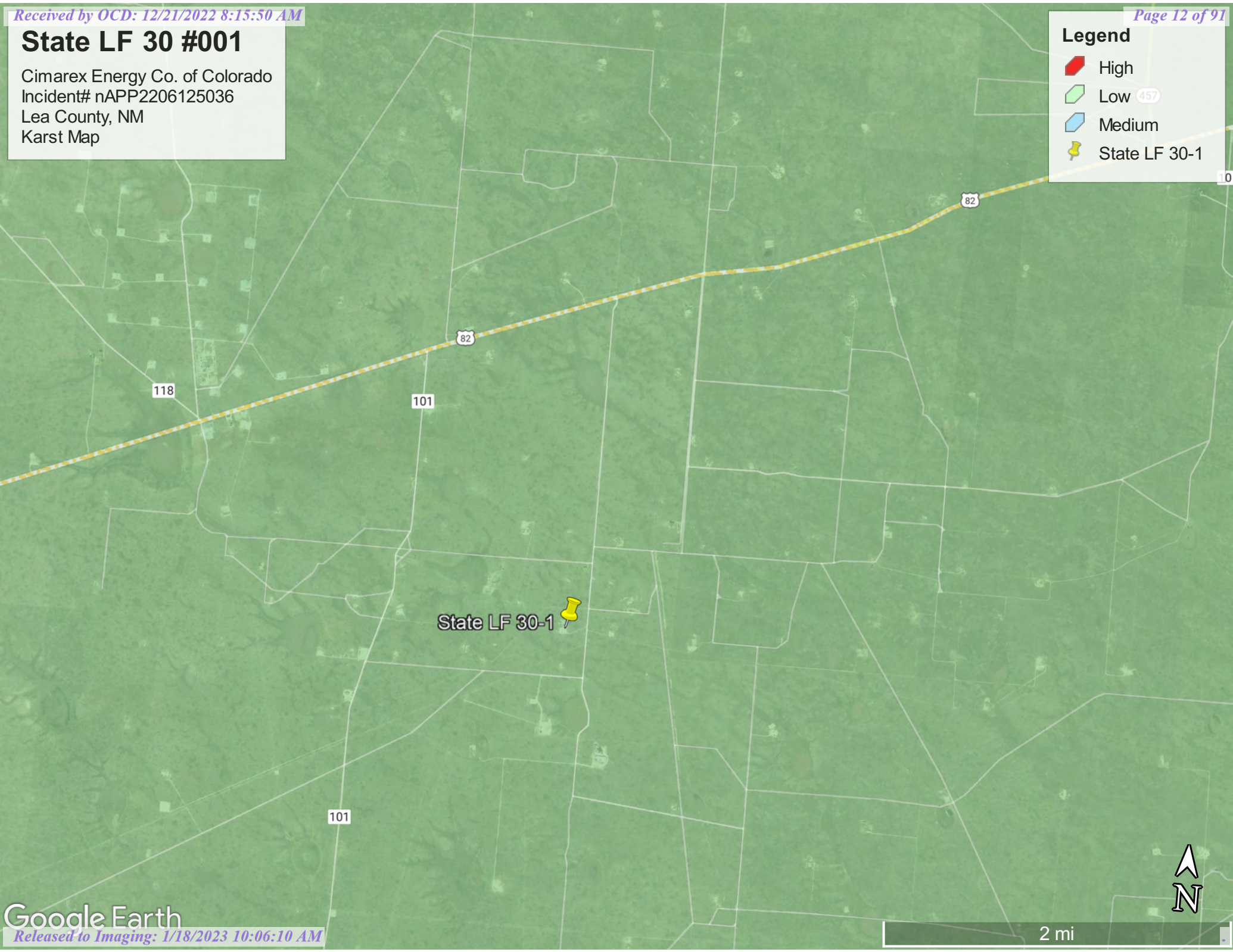
50 ft

State LF 30 #001

Cimarex Energy Co. of Colorado
Incident# nAPP2206125036
Lea County, NM
Karst Map

Legend

- High
- Low
- Medium
- State LF 30-1

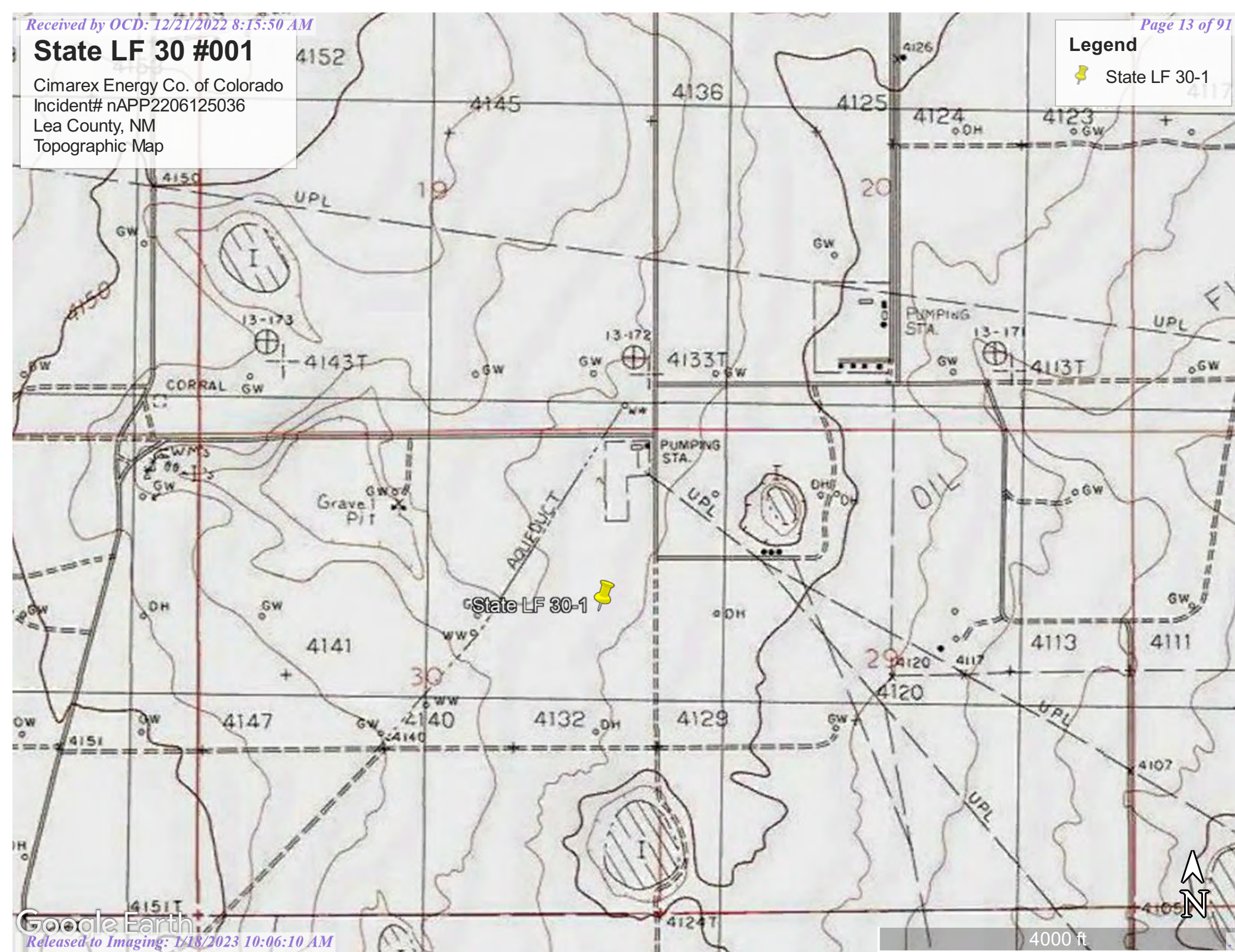


State LF 30 #001

Cimarex Energy Co. of Colorado
Incident# nAPP2206125036
Lea County, NM
Topographic Map

Legend


 State LF 30-1

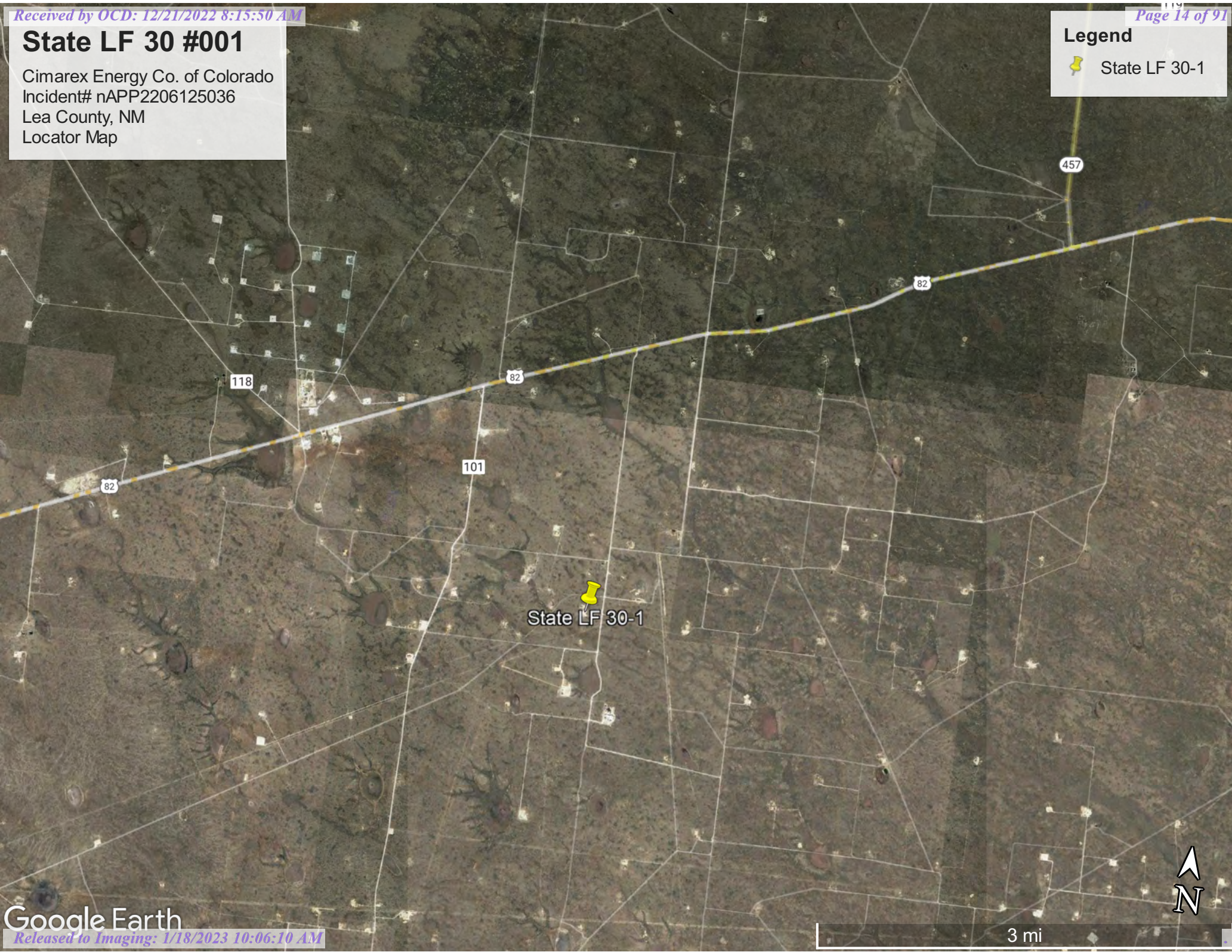


State LF 30 #001

Cimarex Energy Co. of Colorado
Incident# nAPP2206125036
Lea County, NM
Locator Map

Legend

 State LF 30-1



APPENDIX II

GROUNDWATER DATA

SOIL SURVEY

FEMA FLOOD ZONE

WATER BORE MAP

SOIL BORE LOG



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Q Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
L_03529		L	LE	4	3	2	30	16S	34E	631224	3640386*	318	260	120	140
L_03306		L	LE		2	2	30	16S	34E	631521	3640897*	403	190	125	65
L_03477		L	LE	3	3	2	30	16S	34E	631024	3640386*	510	150	115	35
L_03529 S		L	LE	1	1	4	30	16S	34E	631030	3640184*	582	260	170	90
L_03427		L	LE	1	1	1	29	16S	34E	631822	3641003*	590	170	118	52
L_03529 S2		L	LE	4	4	4	19	16S	34E	631614	3641198*	710	262	116	146
L_03476		L	LE		2	1	30	16S	34E	630717	3640882*	895	166	115	51
L_05298		L	LE			3	30	16S	34E	630606	3639870*	1109	145	94	51
L_03490		L	LE		4	3	20	16S	34E	632319	3641314*	1142	167	110	57
L_09169		L	LE	3	1	1	32	16S	34E	631846	3639195*	1338	180	60	120
L_03571		L	LE		2	3	20	16S	34E	632314	3641716*	1455	150	110	40
L_03397		L	LE		2	2	25	16S	33E	629987	3640869*	1581	160	124	36
L_10289		L	LE		2	2	25	16S	33E	629987	3640869*	1581	200		
L_03544		L	LE				20	16S	34E	632521	3641909*	1731	152	100	52
L_03527		L	LE	1	2	2	36	16S	33E	629907	3639359*	1974	278	125	153
L_04049		L	LE		3	1	28	16S	34E	633537	3640532*	2014	160	118	42
L_03377		L	LE		3	2	20	16S	34E	632710	3642125*	2017	200	125	75
L_03722		L	LE	3	3	3	21	16S	34E	633424	3641235*	2040	150	100	50
L_03574		L	LE		2	1	25	16S	33E	629182	3640855*	2369	160	115	45
L_10742		L	LE		4	3	17	16S	34E	632296	3642922*	2548	210	105	105
L_03909		L	LE		3	1	25	16S	33E	628785	3640445*	2738	180	120	60
L_04566 POD4		L	LE		2	4	18	16S	34E	631486	3643309*	2815	242	170	72
L_03144		L	LE		4	4	13	16S	33E	629961	3642880*	2852	202	130	72
L_05690		L	LE		4	4	32	16S	34E	633170	3638112*	2895	465	100	365

Average Depth to Water: **116 feet**

Minimum Depth: **60 feet**

Maximum Depth: **170 feet**

Record Count: 24

Basin/County Search:

County: Lea

UTMNAD83 Radius Search (in meters):

Easting (X): 631523.36 Northing (Y): 3640493.58 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.

3/10/22 11:35 AM WATER COLUMN/ AVERAGE DEPTH TO WATER

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

Lea County, New Mexico

KU—Kimbrough-Lea complex, dry, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 2tw46

Elevation: 2,500 to 4,800 feet

Mean annual precipitation: 14 to 16 inches

Mean annual air temperature: 57 to 63 degrees F

Frost-free period: 180 to 220 days

Farmland classification: Not prime farmland

Map Unit Composition

Kimbrough and similar soils: 45 percent

Lea and similar soils: 25 percent

Minor components: 30 percent

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

Description of Kimbrough

Setting

Landform: Playa rims, plains

Down-slope shape: Convex, linear

Across-slope shape: Concave, linear

Parent material: Loamy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 3 inches: gravelly loam

Bw - 3 to 10 inches: loam

Bkkm1 - 10 to 16 inches: cemented material

Bkkm2 - 16 to 80 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: 4 to 18 inches to petrocalcic

Drainage class: Well drained

Runoff class: High

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

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 95 percent

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

Sodium adsorption ratio, maximum: 1.0

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

Interpretive groups

Land capability classification (irrigated): None specified

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

Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: D
Ecological site: R077DY049TX - Very Shallow 12-17" PZ
Hydric soil rating: No

Description of Lea

Setting

Landform: Plains
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Calcareous, loamy eolian deposits from the blackwater draw formation of pleistocene age over indurated caliche of pliocene age

Typical profile

A - 0 to 10 inches: loam
Bk - 10 to 18 inches: loam
Bkk - 18 to 26 inches: gravelly fine sandy loam
Bkkm - 26 to 80 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 22 to 30 inches to petrocalcic
Drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 90 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 3.0
Available water supply, 0 to 60 inches: Very low (about 2.9 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: D
Ecological site: R077DY047TX - Sandy Loam 12-17" PZ
Hydric soil rating: No

Minor Components

Douro

Percent of map unit: 12 percent
Landform: Plains
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: R077DY047TX - Sandy Loam 12-17" PZ
Other vegetative classification: Unnamed (G077DH000TX)
Hydric soil rating: No

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

Kenhill

Percent of map unit: 12 percent

Landform: Plains

Down-slope shape: Linear

Across-slope shape: Linear

Ecological site: R077DY038TX - Clay Loam 12-17" PZ

Hydric soil rating: No

Spraberry

Percent of map unit: 6 percent

Landform: Playa rims, plains

Down-slope shape: Convex, linear

Across-slope shape: Linear

Ecological site: R077DY049TX - Very Shallow 12-17" PZ

Other vegetative classification: Unnamed (G077DH000TX)

Hydric soil rating: No

Data Source Information

Soil Survey Area: Lea County, New Mexico

Survey Area Data: Version 18, Sep 10, 2021



National Flood Hazard Layer FIRMMette



103°35'56"W 32°53'56"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

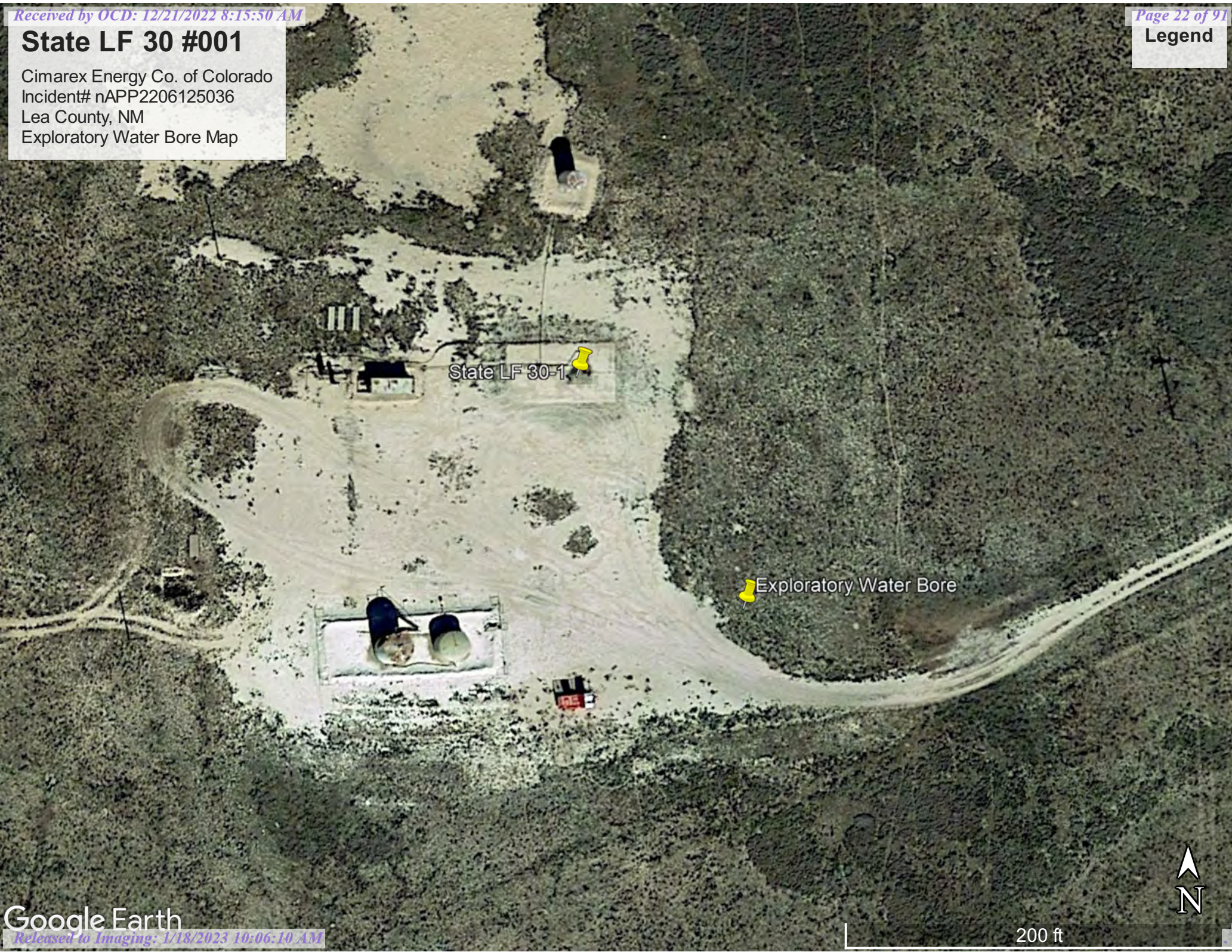
The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **11/8/2022 at 12:53 PM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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

State LF 30 #001

Cimarex Energy Co. of Colorado
Incident# nAPP2206125036
Lea County, NM
Exploratory Water Bore Map

Legend



SOIL BORE LOG

Project:	State LF 30 #001	Date:	October 24, 2022
Type:	Exploratory Water Bore	Location:	State LF 30 #001

Depth	Soil Type	Classification	Comments
0-5'	Caliche	N/A	
5-10'	Caliche	N/A	
10-15'	Caliche	N/A	
15-20'	Caliche	N/A	
20-25'	Caliche	N/A	
25-30'	Caliche	N/A	
30-35'	Caliche	N/A	
35-40'	Caliche	N/A	
40-45'	Caliche	N/A	
45-50'	Caliche	N/A	
50-55'	Caliche	N/A	10/24/22- No groundwater present
			10/28/22- No groundwater present

APPENDIX III

INITIAL C-141

FINAL C-141

NMOCD CORRESPONDENCE

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

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

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

Incident ID	nPLM1004341848
District RP	
Facility ID	
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) nPLM1004341848
Contact mailing address: 600 N Marienfeld Street, Ste. 600 Midland, TX 79701	

Location of Release Source

Latitude 32.89473 _____ Longitude -103.59395 _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: State LF 30 001	Site Type: Battery
Date Release Discovered: 12/25/2009	API# (if applicable)

Unit Letter	Section	Township	Range	County
H	30	16S	34E	Lea

Surface Owner: ☒ State ☐ Federal ☐ Tribal ☐ Private (Name: _____)

Nature and Volume of Release

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

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 103	Volume Recovered (bbls) 47
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 100	Volume Recovered (bbls) 72
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" 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

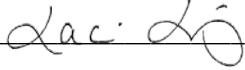
The valve on the oil tank froze and broke causing the discharge of its contents into the bermed area.

Incident ID	nPLM1004341848
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Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? Total amount of release greater than 25 barrels.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? By: Unknown To: Unknown By: Unknown	

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: 12/19/2022
email: laci.luig@coterra.com	Telephone: (432) 208-3035
<u>OCD Only</u>	
Received by: _____	Date: _____

Incident ID	nPLM1004341848
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Facility ID	
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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?	<u>>55</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

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

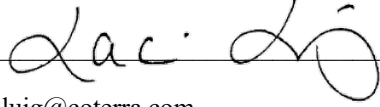
If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods,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

State of New Mexico
Oil Conservation Division

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Printed Name: Laci Luig _____ Title: ESH Specialist _____
Signature:  _____ Date: 12/19/2022 _____
email: laci.luig@coterra.com _____ Telephone: (432) 208-3035 _____

OCD Only

Received by: Jocelyn Harimon _____ Date: 12/21/2022 _____

Incident ID	nPLM1004341848
District RP	
Facility ID	
Application ID	

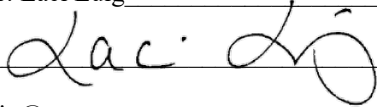
Closure

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

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

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

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

Printed Name: Laci Luig Title: ESH Specialist
Signature:  Date: 12/19/2022
email: laci.luig@coterra.com Telephone: (432) 208-3035

OCD Only

Received by: Jocelyn Harimon Date: 12/21/2022

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

Closure Approved by:  Date: 01/18/2023
Printed Name: Jennifer Nobui Title: Environmental Specialist A

From: [Laci Luig](#)
To: [NMOCD Spill Notifications](#); [Ryan Mann - NM SLO](#)
Cc: [Jim Hawley](#); [Michael Collier](#)
Subject: nAPP2206125036 State LF 30-1 confirmation sampling
Date: Thursday, October 13, 2022 8:22:40 AM

Good morning,

This email serves as notification for confirmation sampling on the State LF 30-1. Sampling is scheduled to begin as early as Monday, October 17th. H&R Enterprises will be onsite for confirmation sampling.

Thank you,



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

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

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APPENDIX IV

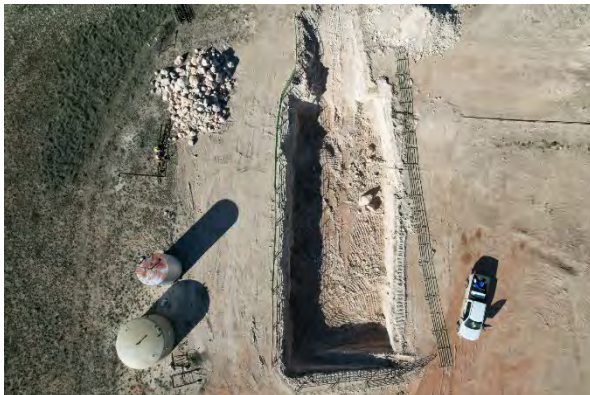
PHOTOGRAPHIC DOCUMENTATION

PHOTOGRAPHIC DOCUMENTATION

INITIAL PHOTOGRAPHS



EXCAVATION PHOTOGRAPHS



PHOTOGRAPHIC DOCUMENTATION

FINAL PHOTOGRAPHS



PHOTOGRAPHIC DOCUMENTATION

EXPLORATORY WATER BORE



APPENDIX V

LABORATORY REPORTS



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

April 22, 2022

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

RE: STATE LF 30 #1

Enclosed are the results of analyses for samples received by the laboratory on 04/20/22 15:22.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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.

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: 04/20/2022
 Reported: 04/22/2022
 Project Name: STATE LF 30 #1
 Project Number: NEW SPILL
 Project Location: CIMAREX - LEA CO NM

Sampling Date: 04/19/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: TT - 1 10' (H221630-01)

BTX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/21/2022	ND	1.96	98.1	2.00	4.15		
Toluene*	<0.050	0.050	04/21/2022	ND	1.93	96.7	2.00	4.45		
Ethylbenzene*	<0.050	0.050	04/21/2022	ND	1.85	92.6	2.00	4.12		
Total Xylenes*	<0.150	0.150	04/21/2022	ND	5.81	96.9	6.00	3.61		
Total BTX	<0.300	0.300	04/21/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/21/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/22/2022	ND	203	101	200	1.46	
DRO >C10-C28*	<10.0	10.0	04/22/2022	ND	203	102	200	4.63	
EXT DRO >C28-C36	<10.0	10.0	04/22/2022	ND					

Surrogate: 1-Chlorooctane 104 % 66.9-136

Surrogate: 1-Chlorooctadecane 103 % 59.5-142

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: 04/20/2022
 Reported: 04/22/2022
 Project Name: STATE LF 30 #1
 Project Number: NEW SPILL
 Project Location: CIMAREX - LEA CO NM

Sampling Date: 04/19/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: TT - 1 12' (H221630-02)

BTX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/21/2022	ND	1.96	98.1	2.00	4.15	
Toluene*	<0.050	0.050	04/21/2022	ND	1.93	96.7	2.00	4.45	
Ethylbenzene*	<0.050	0.050	04/21/2022	ND	1.85	92.6	2.00	4.12	
Total Xylenes*	<0.150	0.150	04/21/2022	ND	5.81	96.9	6.00	3.61	
Total BTX	<0.300	0.300	04/21/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	04/21/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/22/2022	ND	203	101	200	1.46	
DRO >C10-C28*	<10.0	10.0	04/22/2022	ND	203	102	200	4.63	
EXT DRO >C28-C36	<10.0	10.0	04/22/2022	ND					

Surrogate: 1-Chlorooctane 104 % 66.9-136

Surrogate: 1-Chlorooctadecane 106 % 59.5-142

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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: 04/20/2022
 Reported: 04/22/2022
 Project Name: STATE LF 30 #1
 Project Number: NEW SPILL
 Project Location: CIMAREX - LEA CO NM

Sampling Date: 04/19/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: TT - 4 0-1' (H221630-03)

BTX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/21/2022	ND	1.96	98.1	2.00	4.15	
Toluene*	<0.050	0.050	04/21/2022	ND	1.93	96.7	2.00	4.45	
Ethylbenzene*	<0.050	0.050	04/21/2022	ND	1.85	92.6	2.00	4.12	
Total Xylenes*	<0.150	0.150	04/21/2022	ND	5.81	96.9	6.00	3.61	
Total BTX	<0.300	0.300	04/21/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	04/21/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/22/2022	ND	203	101	200	1.46	
DRO >C10-C28*	11.5	10.0	04/22/2022	ND	203	102	200	4.63	
EXT DRO >C28-C36	<10.0	10.0	04/22/2022	ND					

Surrogate: 1-Chlorooctane 95.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 94.5 % 59.5-142

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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: 04/20/2022
 Reported: 04/22/2022
 Project Name: STATE LF 30 #1
 Project Number: NEW SPILL
 Project Location: CIMAREX - LEA CO NM

Sampling Date: 04/19/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: TT - 4 4' (H221630-04)

BTX 8021B		mg/kg		Analyzed By: MS/					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/21/2022	ND	1.96	98.1	2.00	4.15		
Toluene*	<0.050	0.050	04/21/2022	ND	1.93	96.7	2.00	4.45		
Ethylbenzene*	0.173	0.050	04/21/2022	ND	1.85	92.6	2.00	4.12	GC-NC1	
Total Xylenes*	1.56	0.150	04/21/2022	ND	5.81	96.9	6.00	3.61	GC-NC1	
Total BTX	1.73	0.300	04/21/2022	ND					GC-NC1	

Surrogate: 4-Bromofluorobenzene (PID) 164 % 69.9-140

Chloride, SM4500CI-B			mg/kg					Analyzed By: AC	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/21/2022	ND	416	104	400	3.77	

TPH 8015M			mg/kg					Analyzed By: CK	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	89.7	10.0	04/22/2022	ND	203	101	200	1.46	
DRO >C10-C28*	267	10.0	04/22/2022	ND	203	102	200	4.63	
EXT DRO >C28-C36	<10.0	10.0	04/22/2022	ND					

Surrogate: 1-Chlorooctane 112 % 66.9-136

Surrogate: 1-Chlorooctadecane 101 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/20/2022
 Reported: 04/22/2022
 Project Name: STATE LF 30 #1
 Project Number: NEW SPILL
 Project Location: CIMAREX - LEA CO NM

Sampling Date: 04/19/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: TT - 6 0-1' (H221630-05)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/21/2022	ND	1.96	98.1	2.00	4.15		
Toluene*	<0.050	0.050	04/21/2022	ND	1.93	96.7	2.00	4.45		
Ethylbenzene*	<0.050	0.050	04/21/2022	ND	1.85	92.6	2.00	4.12		
Total Xylenes*	<0.150	0.150	04/21/2022	ND	5.81	96.9	6.00	3.61		
Total BTEx	<0.300	0.300	04/21/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	04/21/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/22/2022	ND	203	101	200	1.46	
DRO >C10-C28*	<10.0	10.0	04/22/2022	ND	203	102	200	4.63	
EXT DRO >C28-C36	<10.0	10.0	04/22/2022	ND					

Surrogate: 1-Chlorooctane 94.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 93.1 % 59.5-142

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 04/20/2022
 Reported: 04/22/2022
 Project Name: STATE LF 30 #1
 Project Number: NEW SPILL
 Project Location: CIMAREX - LEA CO NM

Sampling Date: 04/19/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: TT - 6 4' (H221630-06)

BTX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/21/2022	ND	1.96	98.1	2.00	4.15	
Toluene*	<0.050	0.050	04/21/2022	ND	1.93	96.7	2.00	4.45	
Ethylbenzene*	<0.050	0.050	04/21/2022	ND	1.85	92.6	2.00	4.12	
Total Xylenes*	<0.150	0.150	04/21/2022	ND	5.81	96.9	6.00	3.61	
Total BTX	<0.300	0.300	04/21/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/21/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/22/2022	ND	203	101	200	1.46	
DRO >C10-C28*	<10.0	10.0	04/22/2022	ND	203	102	200	4.63	
EXT DRO >C28-C36	<10.0	10.0	04/22/2022	ND					

Surrogate: 1-Chlorooctane 104 % 66.9-136

Surrogate: 1-Chlorooctadecane 105 % 59.5-142

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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: 04/20/2022
 Reported: 04/22/2022
 Project Name: STATE LF 30 #1
 Project Number: NEW SPILL
 Project Location: CIMAREX - LEA CO NM

Sampling Date: 04/19/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BG 0-1' (H221630-07)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/21/2022	ND	1.96	98.1	2.00	4.15		
Toluene*	<0.050	0.050	04/21/2022	ND	1.93	96.7	2.00	4.45		
Ethylbenzene*	<0.050	0.050	04/21/2022	ND	1.85	92.6	2.00	4.12		
Total Xylenes*	<0.150	0.150	04/21/2022	ND	5.81	96.9	6.00	3.61		
Total BTEx	<0.300	0.300	04/21/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/21/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/22/2022	ND	203	101	200	1.46	
DRO >C10-C28*	<10.0	10.0	04/22/2022	ND	203	102	200	4.63	
EXT DRO >C28-C36	<10.0	10.0	04/22/2022	ND					

Surrogate: 1-Chlorooctane 92.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 94.0 % 59.5-142

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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.
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.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
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

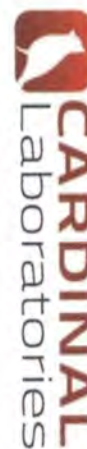
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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

[illegible]



Company Name: H&R Enterprises

FOR LAB USE ONLY
Lab I.D.

Sample I.D.

1221632

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4-7

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101

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affiliates or successors arising

Relinquished By:

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Relinquished By:

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Delivered By: (Circle)

Sampler - UPS - Bu

FORM-006

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FORM-006 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

October 25, 2022

MICHAEL COLLIER

H & R ENTERPRISES

1010 GAMBLIN ROAD

HOBBS, NM 88240

RE: STATE LF 30-1 (LF)

Enclosed are the results of analyses for samples received by the laboratory on 10/24/22 12:25.

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.

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, flowing 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:	10/24/2022	Sampling Date:	10/24/2022
Reported:	10/25/2022	Sampling Type:	Soil
Project Name:	STATE LF 30-1 (LF)	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA COUNTY, NM		

Sample ID: S - 1 12' (H224982-01)

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	10/24/2022	ND	1.97	98.4	2.00	7.43	
Toluene*	<0.025	0.025	10/24/2022	ND	2.01	100	2.00	10.9	
Ethylbenzene*	<0.025	0.025	10/24/2022	ND	2.21	110	2.00	4.87	
Total Xylenes*	<0.075	0.075	10/24/2022	ND	6.71	112	6.00	5.14	
Total BTEX	<0.150	0.150	10/24/2022	ND					

Surrogate: Dibromofluoromethane 104 % 84-115
 Surrogate: Toluene-d8 102 % 95.3-106
 Surrogate: 4-Bromofluorobenzene 103 % 85.1-109

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	10/25/2022	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	10/24/2022	ND	231	116	200	3.63	QM-07
DRO >C10-C28*	50.0	10.0	10/24/2022	ND	200	99.8	200	13.5	
EXT DRO >C28-C36	<10.0	10.0	10/24/2022	ND					

Surrogate: 1-Chlorooctane 91.7 % 45.3-161
 Surrogate: 1-Chlorooctadecane 117 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/24/2022
 Reported: 10/25/2022
 Project Name: STATE LF 30-1 (LF)
 Project Number: NOT GIVEN
 Project Location: CIMAREX - LEA COUNTY, NM

Sampling Date: 10/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 2 12' (H224982-02)

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	10/24/2022	ND	1.97	98.4	2.00	7.43		
Toluene*	<0.025	0.025	10/24/2022	ND	2.01	100	2.00	10.9		
Ethylbenzene*	<0.025	0.025	10/24/2022	ND	2.21	110	2.00	4.87		
Total Xylenes*	<0.075	0.075	10/24/2022	ND	6.71	112	6.00	5.14		
Total BTEx	<0.150	0.150	10/24/2022	ND						

Surrogate: Dibromofluoromethane 99.8 % 84-115
 Surrogate: Toluene-d8 95.7 % 95.3-106
 Surrogate: 4-Bromofluorobenzene 107 % 85.1-109

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	10/25/2022	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	10/24/2022	ND	231	116	200	3.63	
DRO >C10-C28*	88.5	10.0	10/24/2022	ND	200	99.8	200	13.5	
EXT DRO >C28-C36	<10.0	10.0	10/24/2022	ND					

Surrogate: 1-Chlorooctane 107 % 45.3-161
 Surrogate: 1-Chlorooctadecane 132 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/24/2022
 Reported: 10/25/2022
 Project Name: STATE LF 30-1 (LF)
 Project Number: NOT GIVEN
 Project Location: CIMAREX - LEA COUNTY, NM

Sampling Date: 10/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 3 12' (H224982-03)

BTX 8260B		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/24/2022	ND	1.97	98.4	2.00	7.43	
Toluene*	<0.025	0.025	10/24/2022	ND	2.01	100	2.00	10.9	
Ethylbenzene*	<0.025	0.025	10/24/2022	ND	2.21	110	2.00	4.87	
Total Xylenes*	<0.075	0.075	10/24/2022	ND	6.71	112	6.00	5.14	
Total BTX	<0.150	0.150	10/24/2022	ND					

Surrogate: Dibromofluoromethane 104 % 84-115
 Surrogate: Toluene-d8 98.4 % 95.3-106
 Surrogate: 4-Bromofluorobenzene 112 % 85.1-109

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	10/25/2022	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	10/24/2022	ND	231	116	200	3.63	
DRO >C10-C28*	101	10.0	10/24/2022	ND	200	99.8	200	13.5	
EXT DRO >C28-C36	<10.0	10.0	10/24/2022	ND					

Surrogate: 1-Chlorooctane 105 % 45.3-161
 Surrogate: 1-Chlorooctadecane 127 % 46.3-178

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/24/2022
 Reported: 10/25/2022
 Project Name: STATE LF 30-1 (LF)
 Project Number: NOT GIVEN
 Project Location: CIMAREX - LEA COUNTY, NM

Sampling Date: 10/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 4 12' (H224982-04)

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	10/24/2022	ND	1.97	98.4	2.00	7.43		
Toluene*	<0.025	0.025	10/24/2022	ND	2.01	100	2.00	10.9		
Ethylbenzene*	<0.025	0.025	10/24/2022	ND	2.21	110	2.00	4.87		
Total Xylenes*	<0.075	0.075	10/24/2022	ND	6.71	112	6.00	5.14		
Total BTEx	<0.150	0.150	10/24/2022	ND						

Surrogate: Dibromofluoromethane 106 % 84-115
 Surrogate: Toluene-d8 100 % 95.3-106
 Surrogate: 4-Bromofluorobenzene 105 % 85.1-109

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	10/25/2022	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	10/24/2022	ND	231	116	200	3.63	
DRO >C10-C28*	58.8	10.0	10/24/2022	ND	200	99.8	200	13.5	
EXT DRO >C28-C36	<10.0	10.0	10/24/2022	ND					

Surrogate: 1-Chlorooctane 102 % 45.3-161
 Surrogate: 1-Chlorooctadecane 129 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/24/2022
 Reported: 10/25/2022
 Project Name: STATE LF 30-1 (LF)
 Project Number: NOT GIVEN
 Project Location: CIMAREX - LEA COUNTY, NM

Sampling Date: 10/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 5 12' (H224982-05)

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	10/24/2022	ND	1.97	98.4	2.00	7.43	
Toluene*	<0.025	0.025	10/24/2022	ND	2.01	100	2.00	10.9	
Ethylbenzene*	<0.025	0.025	10/24/2022	ND	2.21	110	2.00	4.87	
Total Xylenes*	<0.075	0.075	10/24/2022	ND	6.71	112	6.00	5.14	
Total BTEx	<0.150	0.150	10/24/2022	ND					

Surrogate: Dibromofluoromethane 103 % 84-115
 Surrogate: Toluene-d8 98.3 % 95.3-106
 Surrogate: 4-Bromofluorobenzene 107 % 85.1-109

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	10/25/2022	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	10/24/2022	ND	231	116	200	3.63	
DRO >C10-C28*	38.7	10.0	10/24/2022	ND	200	99.8	200	13.5	
EXT DRO >C28-C36	<10.0	10.0	10/24/2022	ND					

Surrogate: 1-Chlorooctane 98.2 % 45.3-161
 Surrogate: 1-Chlorooctadecane 121 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/24/2022
 Reported: 10/25/2022
 Project Name: STATE LF 30-1 (LF)
 Project Number: NOT GIVEN
 Project Location: CIMAREX - LEA COUNTY, NM

Sampling Date: 10/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 6 12' (H224982-06)

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	10/24/2022	ND	1.97	98.4	2.00	7.43		
Toluene*	<0.025	0.025	10/24/2022	ND	2.01	100	2.00	10.9		
Ethylbenzene*	<0.025	0.025	10/24/2022	ND	2.21	110	2.00	4.87		
Total Xylenes*	<0.075	0.075	10/24/2022	ND	6.71	112	6.00	5.14		
Total BTEx	<0.150	0.150	10/24/2022	ND						

Surrogate: Dibromofluoromethane 101 % 84-115
 Surrogate: Toluene-d8 96.4 % 95.3-106
 Surrogate: 4-Bromofluorobenzene 108 % 85.1-109

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	10/25/2022	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	10/24/2022	ND	231	116	200	3.63	
DRO >C10-C28*	104	10.0	10/24/2022	ND	200	99.8	200	13.5	
EXT DRO >C28-C36	<10.0	10.0	10/24/2022	ND					

Surrogate: 1-Chlorooctane 104 % 45.3-161
 Surrogate: 1-Chlorooctadecane 131 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/24/2022
 Reported: 10/25/2022
 Project Name: STATE LF 30-1 (LF)
 Project Number: NOT GIVEN
 Project Location: CIMAREX - LEA COUNTY, NM

Sampling Date: 10/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 7 12' (H224982-07)

BTX 8260B		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/24/2022	ND	1.97	98.4	2.00	7.43	
Toluene*	<0.025	0.025	10/24/2022	ND	2.01	100	2.00	10.9	
Ethylbenzene*	<0.025	0.025	10/24/2022	ND	2.21	110	2.00	4.87	
Total Xylenes*	<0.075	0.075	10/24/2022	ND	6.71	112	6.00	5.14	
Total BTX	<0.150	0.150	10/24/2022	ND					

Surrogate: Dibromofluoromethane 106 % 84-115
 Surrogate: Toluene-d8 98.4 % 95.3-106
 Surrogate: 4-Bromofluorobenzene 110 % 85.1-109

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	10/25/2022	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	10/24/2022	ND	231	116	200	3.63	
DRO >C10-C28*	117	10.0	10/24/2022	ND	200	99.8	200	13.5	
EXT DRO >C28-C36	<10.0	10.0	10/24/2022	ND					

Surrogate: 1-Chlorooctane 108 % 45.3-161
 Surrogate: 1-Chlorooctadecane 134 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/24/2022	Sampling Date:	10/24/2022
Reported:	10/25/2022	Sampling Type:	Soil
Project Name:	STATE LF 30-1 (LF)	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA COUNTY, NM		

Sample ID: S - 8 12' (H224982-08)

BTX 8260B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/24/2022	ND	1.97	98.4	2.00	7.43	
Toluene*	<0.025	0.025	10/24/2022	ND	2.01	100	2.00	10.9	
Ethylbenzene*	<0.025	0.025	10/24/2022	ND	2.21	110	2.00	4.87	
Total Xylenes*	<0.075	0.075	10/24/2022	ND	6.71	112	6.00	5.14	
Total BTX	<0.150	0.150	10/24/2022	ND					

Surrogate: Dibromofluoromethane 107 % 84-115
 Surrogate: Toluene-d8 101 % 95.3-106
 Surrogate: 4-Bromofluorobenzene 110 % 85.1-109

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	10/25/2022	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	10/24/2022	ND	231	116	200	3.63	
DRO >C10-C28*	155	10.0	10/24/2022	ND	200	99.8	200	13.5	
EXT DRO >C28-C36	<10.0	10.0	10/24/2022	ND					

Surrogate: 1-Chlorooctane 114 % 45.3-161
 Surrogate: 1-Chlorooctadecane 144 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/24/2022
 Reported: 10/25/2022
 Project Name: STATE LF 30-1 (LF)
 Project Number: NOT GIVEN
 Project Location: CIMAREX - LEA COUNTY, NM

Sampling Date: 10/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 9 12' (H224982-09)

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	10/24/2022	ND	1.97	98.4	2.00	7.43		
Toluene*	<0.025	0.025	10/24/2022	ND	2.01	100	2.00	10.9		
Ethylbenzene*	<0.025	0.025	10/24/2022	ND	2.21	110	2.00	4.87		
Total Xylenes*	<0.075	0.075	10/24/2022	ND	6.71	112	6.00	5.14		
Total BTEX	<0.150	0.150	10/24/2022	ND						

Surrogate: Dibromofluoromethane 104 % 84-115
 Surrogate: Toluene-d8 100 % 95.3-106
 Surrogate: 4-Bromofluorobenzene 108 % 85.1-109

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	10/25/2022	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	10/24/2022	ND	231	116	200	3.63	
DRO >C10-C28*	98.4	10.0	10/24/2022	ND	200	99.8	200	13.5	
EXT DRO >C28-C36	<10.0	10.0	10/24/2022	ND					

Surrogate: 1-Chlorooctane 106 % 45.3-161
 Surrogate: 1-Chlorooctadecane 139 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/24/2022
 Reported: 10/25/2022
 Project Name: STATE LF 30-1 (LF)
 Project Number: NOT GIVEN
 Project Location: CIMAREX - LEA COUNTY, NM

Sampling Date: 10/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 10 12' (H224982-10)

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	10/24/2022	ND	1.97	98.4	2.00	7.43	
Toluene*	<0.025	0.025	10/24/2022	ND	2.01	100	2.00	10.9	
Ethylbenzene*	<0.025	0.025	10/24/2022	ND	2.21	110	2.00	4.87	
Total Xylenes*	<0.075	0.075	10/24/2022	ND	6.71	112	6.00	5.14	
Total BTEx	<0.150	0.150	10/24/2022	ND					

Surrogate: Dibromofluoromethane 101 % 84-115
 Surrogate: Toluene-d8 97.3 % 95.3-106
 Surrogate: 4-Bromofluorobenzene 108 % 85.1-109

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	10/25/2022	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	10/24/2022	ND	231	116	200	3.63	
DRO >C10-C28*	81.6	10.0	10/24/2022	ND	200	99.8	200	13.5	
EXT DRO >C28-C36	<10.0	10.0	10/24/2022	ND					

Surrogate: 1-Chlorooctane 105 % 45.3-161
 Surrogate: 1-Chlorooctadecane 131 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/24/2022
 Reported: 10/25/2022
 Project Name: STATE LF 30-1 (LF)
 Project Number: NOT GIVEN
 Project Location: CIMAREX - LEA COUNTY, NM

Sampling Date: 10/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 11 12' (H224982-11)

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	10/24/2022	ND	1.97	98.4	2.00	7.43		
Toluene*	<0.025	0.025	10/24/2022	ND	2.01	100	2.00	10.9		
Ethylbenzene*	<0.025	0.025	10/24/2022	ND	2.21	110	2.00	4.87		
Total Xylenes*	<0.075	0.075	10/24/2022	ND	6.71	112	6.00	5.14		
Total BTEX	<0.150	0.150	10/24/2022	ND						

Surrogate: Dibromofluoromethane 98.9 % 84-115
 Surrogate: Toluene-d8 99.5 % 95.3-106
 Surrogate: 4-Bromofluorobenzene 103 % 85.1-109

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	10/25/2022	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	10/24/2022	ND	231	116	200	3.63	
DRO >C10-C28*	<10.0	10.0	10/24/2022	ND	200	99.8	200	13.5	
EXT DRO >C28-C36	<10.0	10.0	10/24/2022	ND					

Surrogate: 1-Chlorooctane 113 % 45.3-161
 Surrogate: 1-Chlorooctadecane 136 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/24/2022
 Reported: 10/25/2022
 Project Name: STATE LF 30-1 (LF)
 Project Number: NOT GIVEN
 Project Location: CIMAREX - LEA COUNTY, NM

Sampling Date: 10/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 12 12' (H224982-12)

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	10/24/2022	ND	1.97	98.4	2.00	7.43	
Toluene*	<0.025	0.025	10/24/2022	ND	2.01	100	2.00	10.9	
Ethylbenzene*	<0.025	0.025	10/24/2022	ND	2.21	110	2.00	4.87	
Total Xylenes*	<0.075	0.075	10/24/2022	ND	6.71	112	6.00	5.14	
Total BTEX	<0.150	0.150	10/24/2022	ND					

Surrogate: Dibromofluoromethane 101 % 84-115
 Surrogate: Toluene-d8 103 % 95.3-106
 Surrogate: 4-Bromofluorobenzene 105 % 85.1-109

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	10/25/2022	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	10/24/2022	ND	231	116	200	3.63	
DRO >C10-C28*	<10.0	10.0	10/24/2022	ND	200	99.8	200	13.5	
EXT DRO >C28-C36	<10.0	10.0	10/24/2022	ND					

Surrogate: 1-Chlorooctane 111 % 45.3-161
 Surrogate: 1-Chlorooctadecane 138 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/24/2022
 Reported: 10/25/2022
 Project Name: STATE LF 30-1 (LF)
 Project Number: NOT GIVEN
 Project Location: CIMAREX - LEA COUNTY, NM

Sampling Date: 10/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 13 12' (H224982-13)

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	10/25/2022	ND	1.97	98.4	2.00	7.43	
Toluene*	<0.025	0.025	10/25/2022	ND	2.01	100	2.00	10.9	
Ethylbenzene*	<0.025	0.025	10/25/2022	ND	2.21	110	2.00	4.87	
Total Xylenes*	<0.075	0.075	10/25/2022	ND	6.71	112	6.00	5.14	
Total BTEx	<0.150	0.150	10/25/2022	ND					

Surrogate: Dibromofluoromethane 97.8 % 84-115
 Surrogate: Toluene-d8 99.3 % 95.3-106
 Surrogate: 4-Bromofluorobenzene 103 % 85.1-109

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	10/25/2022	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	10/24/2022	ND	231	116	200	3.63	
DRO >C10-C28*	<10.0	10.0	10/24/2022	ND	200	99.8	200	13.5	
EXT DRO >C28-C36	<10.0	10.0	10/24/2022	ND					

Surrogate: 1-Chlorooctane 114 % 45.3-161
 Surrogate: 1-Chlorooctadecane 142 % 46.3-178

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/24/2022
 Reported: 10/25/2022
 Project Name: STATE LF 30-1 (LF)
 Project Number: NOT GIVEN
 Project Location: CIMAREX - LEA COUNTY, NM

Sampling Date: 10/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 14 12' (H224982-14)

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	10/25/2022	ND	1.97	98.4	2.00	7.43	
Toluene*	<0.025	0.025	10/25/2022	ND	2.01	100	2.00	10.9	
Ethylbenzene*	<0.025	0.025	10/25/2022	ND	2.21	110	2.00	4.87	
Total Xylenes*	<0.075	0.075	10/25/2022	ND	6.71	112	6.00	5.14	
Total BTEx	<0.150	0.150	10/25/2022	ND					

Surrogate: Dibromofluoromethane 97.9 % 84-115

Surrogate: Toluene-d8 99.5 % 95.3-106

Surrogate: 4-Bromofluorobenzene 99.4 % 85.1-109

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	10/25/2022	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	10/24/2022	ND	231	116	200	3.63	
DRO >C10-C28*	<10.0	10.0	10/24/2022	ND	200	99.8	200	13.5	
EXT DRO >C28-C36	<10.0	10.0	10/24/2022	ND					

Surrogate: 1-Chlorooctane 103 % 45.3-161

Surrogate: 1-Chlorooctadecane 125 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/24/2022
 Reported: 10/25/2022
 Project Name: STATE LF 30-1 (LF)
 Project Number: NOT GIVEN
 Project Location: CIMAREX - LEA COUNTY, NM

Sampling Date: 10/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 15 12' (H224982-15)

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	10/25/2022	ND	1.97	98.4	2.00	7.43	
Toluene*	<0.025	0.025	10/25/2022	ND	2.01	100	2.00	10.9	
Ethylbenzene*	<0.025	0.025	10/25/2022	ND	2.21	110	2.00	4.87	
Total Xylenes*	<0.075	0.075	10/25/2022	ND	6.71	112	6.00	5.14	
Total BTEX	<0.150	0.150	10/25/2022	ND					

Surrogate: Dibromofluoromethane 99.1 % 84-115
 Surrogate: Toluene-d8 101 % 95.3-106
 Surrogate: 4-Bromofluorobenzene 102 % 85.1-109

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	10/25/2022	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	10/25/2022	ND	231	116	200	3.63	
DRO >C10-C28*	<10.0	10.0	10/25/2022	ND	200	99.8	200	13.5	
EXT DRO >C28-C36	<10.0	10.0	10/25/2022	ND					

Surrogate: 1-Chlorooctane 107 % 45.3-161
 Surrogate: 1-Chlorooctadecane 131 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/24/2022
 Reported: 10/25/2022
 Project Name: STATE LF 30-1 (LF)
 Project Number: NOT GIVEN
 Project Location: CIMAREX - LEA COUNTY, NM

Sampling Date: 10/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 16 12' (H224982-16)

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	10/25/2022	ND	1.97	98.4	2.00	7.43	
Toluene*	<0.025	0.025	10/25/2022	ND	2.01	100	2.00	10.9	
Ethylbenzene*	<0.025	0.025	10/25/2022	ND	2.21	110	2.00	4.87	
Total Xylenes*	<0.075	0.075	10/25/2022	ND	6.71	112	6.00	5.14	
Total BTEx	<0.150	0.150	10/25/2022	ND					

Surrogate: Dibromofluoromethane 102 % 84-115

Surrogate: Toluene-d8 103 % 95.3-106

Surrogate: 4-Bromofluorobenzene 102 % 85.1-109

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	10/25/2022	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	10/25/2022	ND	231	116	200	3.63	
DRO >C10-C28*	<10.0	10.0	10/25/2022	ND	200	99.8	200	13.5	
EXT DRO >C28-C36	<10.0	10.0	10/25/2022	ND					

Surrogate: 1-Chlorooctane 104 % 45.3-161

Surrogate: 1-Chlorooctadecane 129 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/24/2022
 Reported: 10/25/2022
 Project Name: STATE LF 30-1 (LF)
 Project Number: NOT GIVEN
 Project Location: CIMAREX - LEA COUNTY, NM

Sampling Date: 10/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 17 12' (H224982-17)

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	10/25/2022	ND	1.97	98.4	2.00	7.43	
Toluene*	<0.025	0.025	10/25/2022	ND	2.01	100	2.00	10.9	
Ethylbenzene*	<0.025	0.025	10/25/2022	ND	2.21	110	2.00	4.87	
Total Xylenes*	<0.075	0.075	10/25/2022	ND	6.71	112	6.00	5.14	
Total BTEX	<0.150	0.150	10/25/2022	ND					

Surrogate: Dibromofluoromethane 99.9 % 84-115
 Surrogate: Toluene-d8 101 % 95.3-106
 Surrogate: 4-Bromofluorobenzene 100 % 85.1-109

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	10/25/2022	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	10/25/2022	ND	231	116	200	3.63	
DRO >C10-C28*	<10.0	10.0	10/25/2022	ND	200	99.8	200	13.5	
EXT DRO >C28-C36	<10.0	10.0	10/25/2022	ND					

Surrogate: 1-Chlorooctane 108 % 45.3-161
 Surrogate: 1-Chlorooctadecane 132 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/24/2022
 Reported: 10/25/2022
 Project Name: STATE LF 30-1 (LF)
 Project Number: NOT GIVEN
 Project Location: CIMAREX - LEA COUNTY, NM

Sampling Date: 10/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 18 12' (H224982-18)

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	10/25/2022	ND	1.97	98.4	2.00	7.43	
Toluene*	<0.025	0.025	10/25/2022	ND	2.01	100	2.00	10.9	
Ethylbenzene*	<0.025	0.025	10/25/2022	ND	2.21	110	2.00	4.87	
Total Xylenes*	<0.075	0.075	10/25/2022	ND	6.71	112	6.00	5.14	
Total BTEX	<0.150	0.150	10/25/2022	ND					

Surrogate: Dibromofluoromethane 98.9 % 84-115
 Surrogate: Toluene-d8 99.4 % 95.3-106
 Surrogate: 4-Bromofluorobenzene 103 % 85.1-109

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	10/25/2022	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	10/25/2022	ND	231	116	200	3.63	
DRO >C10-C28*	<10.0	10.0	10/25/2022	ND	200	99.8	200	13.5	
EXT DRO >C28-C36	<10.0	10.0	10/25/2022	ND					

Surrogate: 1-Chlorooctane 106 % 45.3-161
 Surrogate: 1-Chlorooctadecane 132 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/24/2022
 Reported: 10/25/2022
 Project Name: STATE LF 30-1 (LF)
 Project Number: NOT GIVEN
 Project Location: CIMAREX - LEA COUNTY, NM

Sampling Date: 10/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 1 12' (H224982-19)

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	10/25/2022	ND	1.97	98.4	2.00	7.43	
Toluene*	<0.025	0.025	10/25/2022	ND	2.01	100	2.00	10.9	
Ethylbenzene*	<0.025	0.025	10/25/2022	ND	2.21	110	2.00	4.87	
Total Xylenes*	<0.075	0.075	10/25/2022	ND	6.71	112	6.00	5.14	
Total BTEx	<0.150	0.150	10/25/2022	ND					

Surrogate: Dibromofluoromethane 99.4 % 84-115

Surrogate: Toluene-d8 99.9 % 95.3-106

Surrogate: 4-Bromofluorobenzene 103 % 85.1-109

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	10/25/2022	ND	416	104	400	3.77	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	10/25/2022	ND	231	116	200	3.63	
DRO >C10-C28*	<10.0	10.0	10/25/2022	ND	200	99.8	200	13.5	
EXT DRO >C28-C36	<10.0	10.0	10/25/2022	ND					

Surrogate: 1-Chlorooctane 104 % 45.3-161

Surrogate: 1-Chlorooctadecane 127 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/24/2022
 Reported: 10/25/2022
 Project Name: STATE LF 30-1 (LF)
 Project Number: NOT GIVEN
 Project Location: CIMAREX - LEA COUNTY, NM

Sampling Date: 10/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 2 12' (H224982-20)

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	10/25/2022	ND	1.97	98.4	2.00	7.43	
Toluene*	<0.025	0.025	10/25/2022	ND	2.01	100	2.00	10.9	
Ethylbenzene*	<0.025	0.025	10/25/2022	ND	2.21	110	2.00	4.87	
Total Xylenes*	<0.075	0.075	10/25/2022	ND	6.71	112	6.00	5.14	
Total BTEx	<0.150	0.150	10/25/2022	ND					

Surrogate: Dibromofluoromethane 102 % 84-115
 Surrogate: Toluene-d8 105 % 95.3-106
 Surrogate: 4-Bromofluorobenzene 104 % 85.1-109

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	10/25/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/25/2022	ND	231	116	200	3.63	
DRO >C10-C28*	<10.0	10.0	10/25/2022	ND	200	99.8	200	13.5	
EXT DRO >C28-C36	<10.0	10.0	10/25/2022	ND					

Surrogate: 1-Chlorooctane 96.5 % 45.3-161
 Surrogate: 1-Chlorooctadecane 120 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/24/2022
 Reported: 10/25/2022
 Project Name: STATE LF 30-1 (LF)
 Project Number: NOT GIVEN
 Project Location: CIMAREX - LEA COUNTY, NM

Sampling Date: 10/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 3 12' (H224982-21)

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	10/25/2022	ND	1.96	97.8	2.00	1.63		
Toluene*	<0.025	0.025	10/25/2022	ND	2.13	106	2.00	2.63		
Ethylbenzene*	<0.025	0.025	10/25/2022	ND	2.16	108	2.00	1.48		
Total Xylenes*	<0.075	0.075	10/25/2022	ND	6.71	112	6.00	2.59		
Total BTEx	<0.150	0.150	10/25/2022	ND						

Surrogate: Dibromofluoromethane 102 % 83.7-114
 Surrogate: Toluene-d8 103 % 95.3-107
 Surrogate: 4-Bromofluorobenzene 104 % 50.9-150

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	10/25/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/24/2022	ND	204	102	200	0.189	
DRO >C10-C28*	<10.0	10.0	10/24/2022	ND	190	94.8	200	0.585	
EXT DRO >C28-C36	<10.0	10.0	10/24/2022	ND					

Surrogate: 1-Chlorooctane 102 % 45.3-161
 Surrogate: 1-Chlorooctadecane 114 % 46.3-178

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/24/2022
 Reported: 10/25/2022
 Project Name: STATE LF 30-1 (LF)
 Project Number: NOT GIVEN
 Project Location: CIMAREX - LEA COUNTY, NM

Sampling Date: 10/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 4 12' (H224982-22)

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	10/25/2022	ND	1.96	97.8	2.00	1.63	
Toluene*	<0.025	0.025	10/25/2022	ND	2.13	106	2.00	2.63	
Ethylbenzene*	<0.025	0.025	10/25/2022	ND	2.16	108	2.00	1.48	
Total Xylenes*	<0.075	0.075	10/25/2022	ND	6.71	112	6.00	2.59	
Total BTEx	<0.150	0.150	10/25/2022	ND					

Surrogate: Dibromofluoromethane 103 % 83.7-114
 Surrogate: Toluene-d8 103 % 95.3-107
 Surrogate: 4-Bromofluorobenzene 103 % 50.9-150

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	10/25/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/24/2022	ND	204	102	200	0.189	
DRO >C10-C28*	<10.0	10.0	10/24/2022	ND	190	94.8	200	0.585	
EXT DRO >C28-C36	<10.0	10.0	10/24/2022	ND					

Surrogate: 1-Chlorooctane 122 % 45.3-161
 Surrogate: 1-Chlorooctadecane 137 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/24/2022
 Reported: 10/25/2022
 Project Name: STATE LF 30-1 (LF)
 Project Number: NOT GIVEN
 Project Location: CIMAREX - LEA COUNTY, NM

Sampling Date: 10/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 5 12' (H224982-23)

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	10/25/2022	ND	1.96	97.8	2.00	1.63	
Toluene*	<0.025	0.025	10/25/2022	ND	2.13	106	2.00	2.63	
Ethylbenzene*	<0.025	0.025	10/25/2022	ND	2.16	108	2.00	1.48	
Total Xylenes*	<0.075	0.075	10/25/2022	ND	6.71	112	6.00	2.59	
Total BTEx	<0.150	0.150	10/25/2022	ND					

Surrogate: Dibromofluoromethane 101 % 83.7-114

Surrogate: Toluene-d8 103 % 95.3-107

Surrogate: 4-Bromofluorobenzene 103 % 50.9-150

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	10/25/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/24/2022	ND	204	102	200	0.189	
DRO >C10-C28*	<10.0	10.0	10/24/2022	ND	190	94.8	200	0.585	
EXT DRO >C28-C36	<10.0	10.0	10/24/2022	ND					

Surrogate: 1-Chlorooctane 109 % 45.3-161

Surrogate: 1-Chlorooctadecane 123 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/24/2022
 Reported: 10/25/2022
 Project Name: STATE LF 30-1 (LF)
 Project Number: NOT GIVEN
 Project Location: CIMAREX - LEA COUNTY, NM

Sampling Date: 10/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 6 12' (H224982-24)

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	10/25/2022	ND	1.96	97.8	2.00	1.63	
Toluene*	<0.025	0.025	10/25/2022	ND	2.13	106	2.00	2.63	
Ethylbenzene*	<0.025	0.025	10/25/2022	ND	2.16	108	2.00	1.48	
Total Xylenes*	<0.075	0.075	10/25/2022	ND	6.71	112	6.00	2.59	
Total BTEx	<0.150	0.150	10/25/2022	ND					

Surrogate: Dibromofluoromethane 97.6 % 83.7-114
 Surrogate: Toluene-d8 99.8 % 95.3-107
 Surrogate: 4-Bromofluorobenzene 102 % 50.9-150

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	10/25/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/24/2022	ND	204	102	200	0.189	
DRO >C10-C28*	<10.0	10.0	10/24/2022	ND	190	94.8	200	0.585	
EXT DRO >C28-C36	<10.0	10.0	10/24/2022	ND					

Surrogate: 1-Chlorooctane 113 % 45.3-161
 Surrogate: 1-Chlorooctadecane 126 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/24/2022
 Reported: 10/25/2022
 Project Name: STATE LF 30-1 (LF)
 Project Number: NOT GIVEN
 Project Location: CIMAREX - LEA COUNTY, NM

Sampling Date: 10/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 7 12' (H224982-25)

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	10/25/2022	ND	1.96	97.8	2.00	1.63	
Toluene*	<0.025	0.025	10/25/2022	ND	2.13	106	2.00	2.63	
Ethylbenzene*	<0.025	0.025	10/25/2022	ND	2.16	108	2.00	1.48	
Total Xylenes*	<0.075	0.075	10/25/2022	ND	6.71	112	6.00	2.59	
Total BTEx	<0.150	0.150	10/25/2022	ND					

Surrogate: Dibromofluoromethane 97.8 % 83.7-114
 Surrogate: Toluene-d8 99.2 % 95.3-107
 Surrogate: 4-Bromofluorobenzene 103 % 50.9-150

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	10/25/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/24/2022	ND	204	102	200	0.189	
DRO >C10-C28*	<10.0	10.0	10/24/2022	ND	190	94.8	200	0.585	
EXT DRO >C28-C36	<10.0	10.0	10/24/2022	ND					

Surrogate: 1-Chlorooctane 123 % 45.3-161
 Surrogate: 1-Chlorooctadecane 138 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/24/2022
 Reported: 10/25/2022
 Project Name: STATE LF 30-1 (LF)
 Project Number: NOT GIVEN
 Project Location: CIMAREX - LEA COUNTY, NM

Sampling Date: 10/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 8 12' (H224982-26)

BTX 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	10/25/2022	ND	1.96	97.8	2.00	1.63	
Toluene*	<0.025	0.025	10/25/2022	ND	2.13	106	2.00	2.63	
Ethylbenzene*	<0.025	0.025	10/25/2022	ND	2.16	108	2.00	1.48	
Total Xylenes*	<0.075	0.075	10/25/2022	ND	6.71	112	6.00	2.59	
Total BTX	<0.150	0.150	10/25/2022	ND					

Surrogate: Dibromofluoromethane 103 % 83.7-114
 Surrogate: Toluene-d8 102 % 95.3-107
 Surrogate: 4-Bromofluorobenzene 102 % 50.9-150

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/25/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/24/2022	ND	204	102	200	0.189	
DRO >C10-C28*	<10.0	10.0	10/24/2022	ND	190	94.8	200	0.585	
EXT DRO >C28-C36	<10.0	10.0	10/24/2022	ND					

Surrogate: 1-Chlorooctane 131 % 45.3-161
 Surrogate: 1-Chlorooctadecane 148 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/24/2022
 Reported: 10/25/2022
 Project Name: STATE LF 30-1 (LF)
 Project Number: NOT GIVEN
 Project Location: CIMAREX - LEA COUNTY, NM

Sampling Date: 10/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 9 12' (H224982-27)

BTX 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	10/25/2022	ND	1.96	97.8	2.00	1.63	
Toluene*	<0.025	0.025	10/25/2022	ND	2.13	106	2.00	2.63	
Ethylbenzene*	<0.025	0.025	10/25/2022	ND	2.16	108	2.00	1.48	
Total Xylenes*	<0.075	0.075	10/25/2022	ND	6.71	112	6.00	2.59	
Total BTX	<0.150	0.150	10/25/2022	ND					

Surrogate: Dibromofluoromethane 103 % 83.7-114

Surrogate: Toluene-d8 103 % 95.3-107

Surrogate: 4-Bromofluorobenzene 103 % 50.9-150

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	10/25/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/24/2022	ND	204	102	200	0.189	
DRO >C10-C28*	<10.0	10.0	10/24/2022	ND	190	94.8	200	0.585	
EXT DRO >C28-C36	<10.0	10.0	10/24/2022	ND					

Surrogate: 1-Chlorooctane 120 % 45.3-161

Surrogate: 1-Chlorooctadecane 133 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/24/2022
 Reported: 10/25/2022
 Project Name: STATE LF 30-1 (LF)
 Project Number: NOT GIVEN
 Project Location: CIMAREX - LEA COUNTY, NM

Sampling Date: 10/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 10 12' (H224982-28)

BTX 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	10/25/2022	ND	1.96	97.8	2.00	1.63	
Toluene*	<0.025	0.025	10/25/2022	ND	2.13	106	2.00	2.63	
Ethylbenzene*	<0.025	0.025	10/25/2022	ND	2.16	108	2.00	1.48	
Total Xylenes*	<0.075	0.075	10/25/2022	ND	6.71	112	6.00	2.59	
Total BTX	<0.150	0.150	10/25/2022	ND					

Surrogate: Dibromofluoromethane 98.7 % 83.7-114
 Surrogate: Toluene-d8 99.3 % 95.3-107
 Surrogate: 4-Bromofluorobenzene 102 % 50.9-150

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	10/25/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/24/2022	ND	204	102	200	0.189	
DRO >C10-C28*	<10.0	10.0	10/24/2022	ND	190	94.8	200	0.585	
EXT DRO >C28-C36	<10.0	10.0	10/24/2022	ND					

Surrogate: 1-Chlorooctane 124 % 45.3-161
 Surrogate: 1-Chlorooctadecane 139 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/24/2022
 Reported: 10/25/2022
 Project Name: STATE LF 30-1 (LF)
 Project Number: NOT GIVEN
 Project Location: CIMAREX - LEA COUNTY, NM

Sampling Date: 10/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 11 12' (H224982-29)

BTX 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	10/25/2022	ND	1.96	97.8	2.00	1.63		
Toluene*	<0.025	0.025	10/25/2022	ND	2.13	106	2.00	2.63		
Ethylbenzene*	<0.025	0.025	10/25/2022	ND	2.16	108	2.00	1.48		
Total Xylenes*	<0.075	0.075	10/25/2022	ND	6.71	112	6.00	2.59		
Total BTX	<0.150	0.150	10/25/2022	ND						

Surrogate: Dibromofluoromethane 102 % 83.7-114
 Surrogate: Toluene-d8 101 % 95.3-107
 Surrogate: 4-Bromofluorobenzene 103 % 50.9-150

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	10/25/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/24/2022	ND	204	102	200	0.189	
DRO >C10-C28*	<10.0	10.0	10/24/2022	ND	190	94.8	200	0.585	
EXT DRO >C28-C36	<10.0	10.0	10/24/2022	ND					

Surrogate: 1-Chlorooctane 105 % 45.3-161
 Surrogate: 1-Chlorooctadecane 117 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/24/2022
 Reported: 10/25/2022
 Project Name: STATE LF 30-1 (LF)
 Project Number: NOT GIVEN
 Project Location: CIMAREX - LEA COUNTY, NM

Sampling Date: 10/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 12 12' (H224982-30)

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	10/25/2022	ND	1.96	97.8	2.00	1.63	
Toluene*	<0.025	0.025	10/25/2022	ND	2.13	106	2.00	2.63	
Ethylbenzene*	<0.025	0.025	10/25/2022	ND	2.16	108	2.00	1.48	
Total Xylenes*	<0.075	0.075	10/25/2022	ND	6.71	112	6.00	2.59	
Total BTEx	<0.150	0.150	10/25/2022	ND					

Surrogate: Dibromofluoromethane 103 % 83.7-114
 Surrogate: Toluene-d8 102 % 95.3-107
 Surrogate: 4-Bromofluorobenzene 103 % 50.9-150

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	10/25/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/24/2022	ND	204	102	200	0.189	
DRO >C10-C28*	<10.0	10.0	10/24/2022	ND	190	94.8	200	0.585	
EXT DRO >C28-C36	<10.0	10.0	10/24/2022	ND					

Surrogate: 1-Chlorooctane 112 % 45.3-161
 Surrogate: 1-Chlorooctadecane 125 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/24/2022
 Reported: 10/25/2022
 Project Name: STATE LF 30-1 (LF)
 Project Number: NOT GIVEN
 Project Location: CIMAREX - LEA COUNTY, NM

Sampling Date: 10/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 13 12' (H224982-31)

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	10/25/2022	ND	1.96	97.8	2.00	1.63	
Toluene*	<0.025	0.025	10/25/2022	ND	2.13	106	2.00	2.63	
Ethylbenzene*	<0.025	0.025	10/25/2022	ND	2.16	108	2.00	1.48	
Total Xylenes*	<0.075	0.075	10/25/2022	ND	6.71	112	6.00	2.59	
Total BTEx	<0.150	0.150	10/25/2022	ND					

Surrogate: Dibromofluoromethane 102 % 83.7-114
 Surrogate: Toluene-d8 100 % 95.3-107
 Surrogate: 4-Bromofluorobenzene 102 % 50.9-150

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	10/25/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/24/2022	ND	204	102	200	0.189	
DRO >C10-C28*	<10.0	10.0	10/24/2022	ND	190	94.8	200	0.585	
EXT DRO >C28-C36	<10.0	10.0	10/24/2022	ND					

Surrogate: 1-Chlorooctane 113 % 45.3-161
 Surrogate: 1-Chlorooctadecane 124 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/24/2022
 Reported: 10/25/2022
 Project Name: STATE LF 30-1 (LF)
 Project Number: NOT GIVEN
 Project Location: CIMAREX - LEA COUNTY, NM

Sampling Date: 10/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 14 12' (H224982-32)

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	10/25/2022	ND	1.96	97.8	2.00	1.63	
Toluene*	<0.025	0.025	10/25/2022	ND	2.13	106	2.00	2.63	
Ethylbenzene*	<0.025	0.025	10/25/2022	ND	2.16	108	2.00	1.48	
Total Xylenes*	<0.075	0.075	10/25/2022	ND	6.71	112	6.00	2.59	
Total BTEx	<0.150	0.150	10/25/2022	ND					

Surrogate: Dibromofluoromethane 101 % 83.7-114
 Surrogate: Toluene-d8 101 % 95.3-107
 Surrogate: 4-Bromofluorobenzene 102 % 50.9-150

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	10/25/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/25/2022	ND	204	102	200	0.189	
DRO >C10-C28*	<10.0	10.0	10/25/2022	ND	190	94.8	200	0.585	
EXT DRO >C28-C36	<10.0	10.0	10/25/2022	ND					

Surrogate: 1-Chlorooctane 112 % 45.3-161
 Surrogate: 1-Chlorooctadecane 122 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/24/2022
 Reported: 10/25/2022
 Project Name: STATE LF 30-1 (LF)
 Project Number: NOT GIVEN
 Project Location: CIMAREX - LEA COUNTY, NM

Sampling Date: 10/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 15 12' (H224982-33)

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	10/25/2022	ND	1.96	97.8	2.00	1.63	
Toluene*	<0.025	0.025	10/25/2022	ND	2.13	106	2.00	2.63	
Ethylbenzene*	<0.025	0.025	10/25/2022	ND	2.16	108	2.00	1.48	
Total Xylenes*	<0.075	0.075	10/25/2022	ND	6.71	112	6.00	2.59	
Total BTEx	<0.150	0.150	10/25/2022	ND					

Surrogate: Dibromofluoromethane 99.2 % 83.7-114
 Surrogate: Toluene-d8 99.2 % 95.3-107
 Surrogate: 4-Bromofluorobenzene 102 % 50.9-150

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	10/25/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/25/2022	ND	204	102	200	0.189	
DRO >C10-C28*	<10.0	10.0	10/25/2022	ND	190	94.8	200	0.585	
EXT DRO >C28-C36	<10.0	10.0	10/25/2022	ND					

Surrogate: 1-Chlorooctane 115 % 45.3-161
 Surrogate: 1-Chlorooctadecane 127 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/24/2022
 Reported: 10/25/2022
 Project Name: STATE LF 30-1 (LF)
 Project Number: NOT GIVEN
 Project Location: CIMAREX - LEA COUNTY, NM

Sampling Date: 10/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 16 12' (H224982-34)

BTX 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	10/25/2022	ND	1.96	97.8	2.00	1.63	
Toluene*	<0.025	0.025	10/25/2022	ND	2.13	106	2.00	2.63	
Ethylbenzene*	<0.025	0.025	10/25/2022	ND	2.16	108	2.00	1.48	
Total Xylenes*	<0.075	0.075	10/25/2022	ND	6.71	112	6.00	2.59	
Total BTX	<0.150	0.150	10/25/2022	ND					

Surrogate: Dibromofluoromethane 101 % 83.7-114
 Surrogate: Toluene-d8 100 % 95.3-107
 Surrogate: 4-Bromofluorobenzene 102 % 50.9-150

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	10/25/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/25/2022	ND	204	102	200	0.189	
DRO >C10-C28*	<10.0	10.0	10/25/2022	ND	190	94.8	200	0.585	
EXT DRO >C28-C36	<10.0	10.0	10/25/2022	ND					

Surrogate: 1-Chlorooctane 121 % 45.3-161
 Surrogate: 1-Chlorooctadecane 135 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/24/2022
 Reported: 10/25/2022
 Project Name: STATE LF 30-1 (LF)
 Project Number: NOT GIVEN
 Project Location: CIMAREX - LEA COUNTY, NM

Sampling Date: 10/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BG - 1 0-1' (H224982-35)

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	10/25/2022	ND	1.96	97.8	2.00	1.63	
Toluene*	<0.025	0.025	10/25/2022	ND	2.13	106	2.00	2.63	
Ethylbenzene*	<0.025	0.025	10/25/2022	ND	2.16	108	2.00	1.48	
Total Xylenes*	<0.075	0.075	10/25/2022	ND	6.71	112	6.00	2.59	
Total BTEX	<0.150	0.150	10/25/2022	ND					

Surrogate: Dibromofluoromethane 101 % 83.7-114
 Surrogate: Toluene-d8 102 % 95.3-107
 Surrogate: 4-Bromofluorobenzene 102 % 50.9-150

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	10/25/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/25/2022	ND	204	102	200	0.189	
DRO >C10-C28*	<10.0	10.0	10/25/2022	ND	190	94.8	200	0.585	
EXT DRO >C28-C36	<10.0	10.0	10/25/2022	ND					

Surrogate: 1-Chlorooctane 113 % 45.3-161
 Surrogate: 1-Chlorooctadecane 127 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/24/2022
 Reported: 10/25/2022
 Project Name: STATE LF 30-1 (LF)
 Project Number: NOT GIVEN
 Project Location: CIMAREX - LEA COUNTY, NM

Sampling Date: 10/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BG - 2 0-1' (H224982-36)

BTX 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	10/25/2022	ND	1.96	97.8	2.00	1.63	
Toluene*	<0.025	0.025	10/25/2022	ND	2.13	106	2.00	2.63	
Ethylbenzene*	<0.025	0.025	10/25/2022	ND	2.16	108	2.00	1.48	
Total Xylenes*	<0.075	0.075	10/25/2022	ND	6.71	112	6.00	2.59	
Total BTX	<0.150	0.150	10/25/2022	ND					

Surrogate: Dibromofluoromethane 103 % 83.7-114
 Surrogate: Toluene-d8 102 % 95.3-107
 Surrogate: 4-Bromofluorobenzene 102 % 50.9-150

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	10/25/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/25/2022	ND	204	102	200	0.189	
DRO >C10-C28*	<10.0	10.0	10/25/2022	ND	190	94.8	200	0.585	
EXT DRO >C28-C36	<10.0	10.0	10/25/2022	ND					

Surrogate: 1-Chlorooctane 106 % 45.3-161
 Surrogate: 1-Chlorooctadecane 117 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/24/2022
 Reported: 10/25/2022
 Project Name: STATE LF 30-1 (LF)
 Project Number: NOT GIVEN
 Project Location: CIMAREX - LEA COUNTY, NM

Sampling Date: 10/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BG - 3 0-1' (H224982-37)

BTX 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	10/25/2022	ND	1.96	97.8	2.00	1.63	
Toluene*	<0.025	0.025	10/25/2022	ND	2.13	106	2.00	2.63	
Ethylbenzene*	<0.025	0.025	10/25/2022	ND	2.16	108	2.00	1.48	
Total Xylenes*	<0.075	0.075	10/25/2022	ND	6.71	112	6.00	2.59	
Total BTX	<0.150	0.150	10/25/2022	ND					

Surrogate: Dibromofluoromethane 103 % 83.7-114
 Surrogate: Toluene-d8 102 % 95.3-107
 Surrogate: 4-Bromofluorobenzene 102 % 50.9-150

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	10/25/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/25/2022	ND	204	102	200	0.189	
DRO >C10-C28*	11.6	10.0	10/25/2022	ND	190	94.8	200	0.585	
EXT DRO >C28-C36	<10.0	10.0	10/25/2022	ND					

Surrogate: 1-Chlorooctane 113 % 45.3-161
 Surrogate: 1-Chlorooctadecane 129 % 46.3-178

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/24/2022
 Reported: 10/25/2022
 Project Name: STATE LF 30-1 (LF)
 Project Number: NOT GIVEN
 Project Location: CIMAREX - LEA COUNTY, NM

Sampling Date: 10/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BG - 4 0-1' (H224982-38)

BTX 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	10/25/2022	ND	1.96	97.8	2.00	1.63	
Toluene*	<0.025	0.025	10/25/2022	ND	2.13	106	2.00	2.63	
Ethylbenzene*	<0.025	0.025	10/25/2022	ND	2.16	108	2.00	1.48	
Total Xylenes*	<0.075	0.075	10/25/2022	ND	6.71	112	6.00	2.59	
Total BTX	<0.150	0.150	10/25/2022	ND					

Surrogate: Dibromofluoromethane 102 % 83.7-114
 Surrogate: Toluene-d8 101 % 95.3-107
 Surrogate: 4-Bromofluorobenzene 101 % 50.9-150

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	10/25/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/25/2022	ND	204	102	200	0.189	
DRO >C10-C28*	15.8	10.0	10/25/2022	ND	190	94.8	200	0.585	
EXT DRO >C28-C36	<10.0	10.0	10/25/2022	ND					

Surrogate: 1-Chlorooctane 110 % 45.3-161
 Surrogate: 1-Chlorooctadecane 126 % 46.3-178

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-04	The RPD for the BS/BSD was outside of historical limits.
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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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



terpñses

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinalmail.usm.mn.edu



Company Name: H&R Enterprises

[illegible]

Relinquished By: 	Date: 3-4-22	Received By: 	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
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Company Name: H&R Enterprises

[illegible]

Relinquished By:

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



Company Name: H&R Enterprises

[illegible]

Relinquished By:

Date: 7/4/20

Received By:

Verbal Result: ☐ Yes ☐ No

Add'l Phone #:

Relinquished By:

Date:

Received By:

REMARKS: PG 4 of 4 48HR RUSH

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

Observed Temp. °C	Corrected Temp. °C
20.0	19.8
20.5	20.3
21.0	20.8
21.5	21.3
22.0	21.8
22.5	22.3
23.0	22.8
23.5	23.3
24.0	23.8
24.5	24.3
25.0	24.8
25.5	25.3
26.0	25.8
26.5	26.3
27.0	26.8
27.5	27.3
28.0	27.8
28.5	28.3
29.0	28.8
29.5	29.3
30.0	29.8
30.5	30.3
31.0	30.8
31.5	31.3
32.0	31.8
32.5	32.3
33.0	32.8
33.5	33.3
34.0	33.8
34.5	34.3
35.0	34.8
35.5	35.3
36.0	35.8
36.5	36.3
37.0	36.8
37.5	37.3
38.0	37.8
38.5	38.3
39.0	38.8
39.5	39.3
40.0	39.8
40.5	40.3
41.0	40.8
41.5	41.3
42.0	41.8
42.5	42.3
43.0	42.8
43.5	43.3
44.0	43.8
44.5	44.3
45.0	44.8
45.5	45.3
46.0	45.8
46.5	46.3
47.0	46.8
47.5	47.3
48.0	47.8
48.5	48.3
49.0	48.8
49.5	49.3
50.0	49.8
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51.0	50.8
51.5	51.3
52.0	51.8
52.5	52.3
53.0	52.8
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54.0	53.8
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67.0	66.8
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68.0	67.8
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71.0	70.8
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73.0	72.8
73.5	73.3
74.0	73.8
74.5	74.3
75.0	74.8
75.5	75.3
76.0	75.8
76.5	76.3
77.0	76.8
77.5	77.3
78.0	77.8
78.5	78.3
79.0	78.8
79.5	79.3
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80.5	80.3
81.0	80.8
81.5	81.3
82.0	81.8
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83.0	82.8
83.5	83.3
84.0	83.8
84.5	84.3
85.0	84.8
85.5	85.3
86.0	85.8
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87.0	86.8
87.5	87.3
88.0	87.8
88.5	88.3
89.0	88.8
89.5	89.3
90.0	89.8
90.5	90.3
91.0	90.8
91.5	91.3
92.0	91.8
92.5	92.3
93.0	92.8
93.5	93.3
94.0	93.8
94.5	94.3

8	8
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CHECKED BY:
(Initials)

Turnaround Time	Standard	Bacteria (only) Sample Condition
	<input type="checkbox"/>	

Sample Condition

FORM-006 R 3.2 10/07/21

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1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
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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 169219

CONDITIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 600 N. Marienfeld Street Midland, TX 79701	OGRID: 162683
	Action Number: 169219
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	1/18/2023