



MCollier@H-R_Enterprises.com 575-909-0326

Soil Assessment and Closure Report

West Shugart 31 Federal Com #003
Incident# nMLB1215858916
Eddy County, New Mexico

Prepared For:

Cimarex Energy Co. of Colorado
6001 Deauville Blvd. Suite 300N
Midland, TX 79706

Prepared By:

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

August 1, 2024

Mr. Mike Bratcher
New Mexico Oil Conservation District
1220 S. St. Francis Dr.
Santa Fe, NM 87505

Subject: **Soil Assessment and Closure Report**
West Shugart 31 Federal Com #003
Eddy County, NM

To whom it may concern,

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

Site Information

The West Shugart 31 Federal Com #003 is located approximately 15-miles South of Loco Hills, New Mexico. The legal location for this release is Unit Letter D, Section 31, Township 18 South and Range 31 East in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.7086 North and -103.91695 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 Simona gravelly fine sandy loam, 0 to 3 percent slopes. The referenced soil data is attached in [Appendix II](#). Drainage courses in this area are typically dry. The project site is not located in a high Karst potential area (Karst Potential Map, [Appendix I](#)).

Groundwater and Site Characterization

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

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

Approximate Depth to Groundwater	92 Feet/BGS
----------------------------------	-------------

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

As this was a site assessment in an area where groundwater data is not within the recommended 0.5-mile radius, the closure criteria for this site is as follows:

Table I			
Closure Criteria for Soils Impacted by a Release			
Minimum depth below any point within the horizontal boundary of the release to ground water less than 10,000 mg/l TDS	Constituent	Method*	Limit**
≤ 50 feet	Chloride **	EPA 300.0 or SM4500 CIB	600 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	100 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

Incident Description

On May 11, 2012, a valve closed on the production equipment causing the pressure relief valve to release, causing crude oil to spray inside the bermed containment area and the pasture area behind the containment. A total of 6 barrels (bbls) of crude oil was released with a total of 0 bbls being recovered.

Original Work Plan Summary

According to a work plan submitted to the NMOCD on July 06, 2012, a site assessment showed TPH contamination extended vertically to a depth of 0.5-foot BGS at sample point S-1 and only surface impact at sample point S-2. The work plan also stated that Micro-Blaze, a bioremediation agent, was applied to the impacted areas. For reference see the Soil Assessment and Remediation Work Plan from 2012 in [Appendix III](#).

Current Soil Assessment Activities

H&R mobilized personnel to begin soil assessment activities of the impacted area. Grab samples were obtained by way of an air rotary drill in 1-foot intervals to a total depth of 4-foot BGS and transported to Cardinal Laboratory for analysis and the results of that analysis are presented in the table below. Sampling locations are illustrated on the Site Assessment Map in [Appendix I](#). Photographic documentation of the sample locations is attached in [Appendix IV](#). A complete laboratory report can be found in [Appendix V](#).

Table 1: Confirmation Soil Samples Analysis

Sample ID	Sample Date	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
NMOCD Table 1 Closure Criteria 19.15.29 NMAC			50 mg/kg	10 mg/kg	100 mg/kg			100 mg/kg	600 mg/kg
S-1	7/26/2024	0-1'	ND	ND	ND	ND	ND	0	16
		2'	ND	ND	ND	ND	ND	0	16
		3'	ND	ND	ND	ND	ND	0	112
		4'	ND	ND	ND	ND	ND	0	96
BH-1	7/26/2024	0-1'	ND	ND	ND	ND	ND	0	ND
		2'	ND	ND	ND	ND	ND	0	32
		3'	ND	ND	ND	ND	ND	0	48
		4'	ND	ND	ND	ND	ND	0	112
BH-2	7/26/2024	0-1'	ND	ND	ND	ND	ND	0	32
		2'	ND	ND	ND	ND	ND	0	32
		3'	ND	ND	ND	ND	ND	0	48
		4'	ND	ND	ND	ND	ND	0	96
BH-3	7/26/2024	0-1'	ND	ND	ND	ND	ND	0	32
		2'	ND	ND	ND	ND	ND	0	32
		3'	ND	ND	ND	ND	ND	0	48
		4'	ND	ND	ND	ND	ND	0	64
BH-4	7/26/2024	0-1'	ND	ND	ND	ND	ND	0	32
		2'	ND	ND	ND	ND	ND	0	112
		3'	ND	ND	ND	ND	ND	0	32
		4'	ND	ND	ND	ND	ND	0	64
BH-5	7/26/2024	0-1'	ND	ND	ND	ND	ND	0	32
		2'	ND	ND	ND	ND	ND	0	96
		3'	ND	ND	ND	ND	ND	0	48
		4'	ND	ND	ND	ND	ND	0	64
BH-6	7/26/2024	0-1'	ND	ND	ND	ND	ND	0	48
		2'	ND	ND	ND	ND	ND	0	96
		3'	ND	ND	ND	ND	ND	0	48
		4'	ND	ND	ND	ND	ND	0	48
H-1	7/26/2024	0-1'	ND	ND	ND	ND	ND	0	16
H-2	7/26/2024	0-1'	ND	ND	ND	ND	ND	0	32
H-3	7/26/2024	0-1'	ND	ND	ND	ND	ND	0	32
H-4	7/26/2024	0-1'	ND	ND	ND	ND	ND	0	16
H-5	7/27/2024	0-1'	ND	ND	ND	ND	ND	0	16
H-6	7/28/2024	0-1'	ND	ND	ND	ND	ND	0	16
H-7	7/29/2024	0-1'	ND	ND	ND	ND	ND	0	16

ND = Analyte Not Detected S = Vertical Hand Auger Sample Point BH = Vertical Bore Hole Sample Point H = Horizontal Sample Point

Closure

Based on the soil assessment results 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

Michael Collier
Environmental Project Manager

Attachments:

Appendix I Site Maps
Appendix II Soil Survey, Groundwater Data, FEMA Flood Zone
Appendix III NMOCD Correspondence
Appendix IV Photographic Documentation
Appendix V Laboratory Reports

APPENDIX I

SITE MAPS

KARST MAP

TOPOGRAPHIC MAP

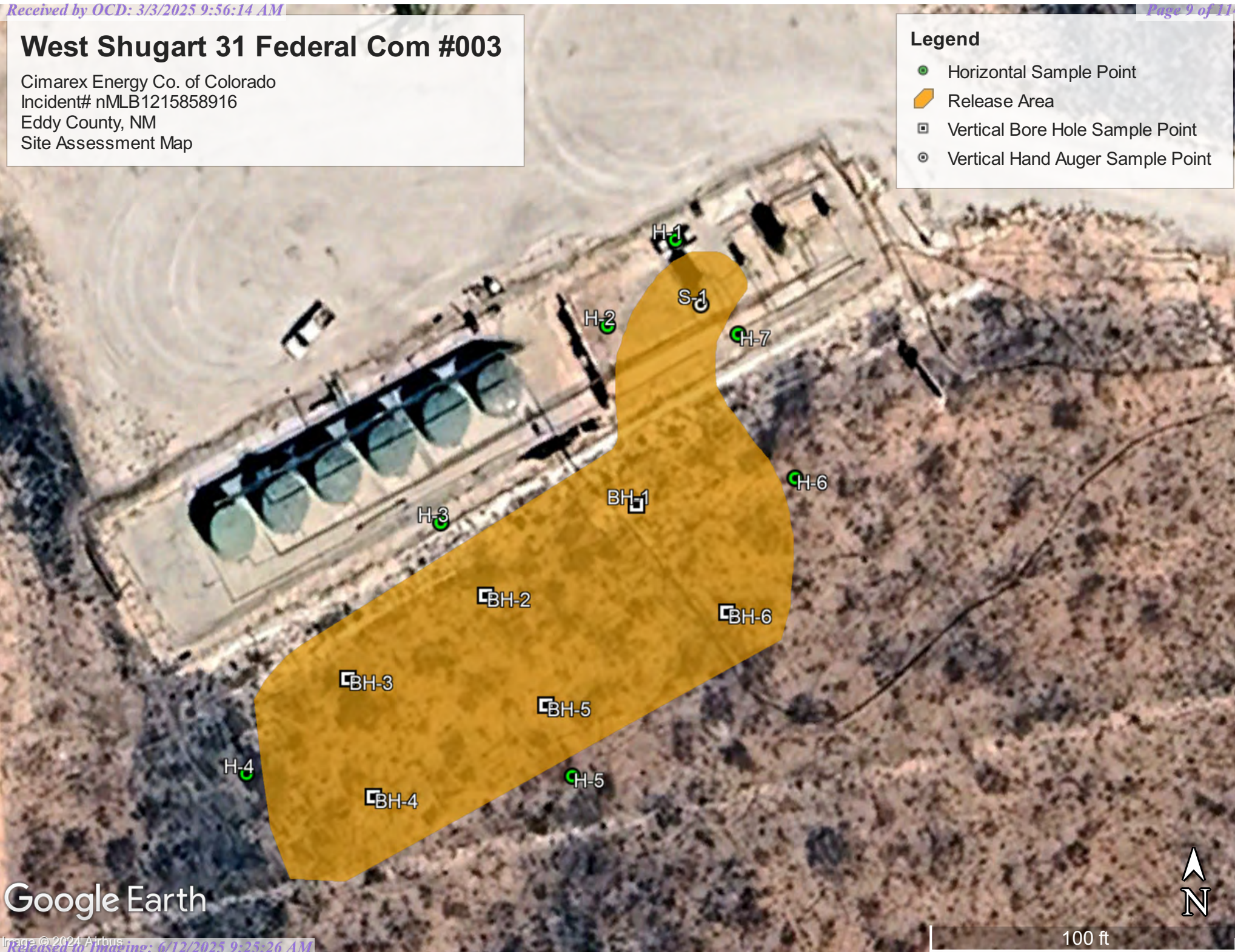
LOCATOR MAP

West Shugart 31 Federal Com #003

Cimarex Energy Co. of Colorado
Incident# nMLB1215858916
Eddy County, NM
Site Assessment Map

Legend

- Horizontal Sample Point
- Release Area
- Vertical Bore Hole Sample Point
- Vertical Hand Auger Sample Point



Google Earth

100 ft

West Shugart 31 Federal Com #003

Cimarex Energy Co. of Colorado
Incident# nMLB1215858916
Eddy County, NM
Karst Potential Map

Legend

-  High
-  Low
-  Medium
-  West Shugart 31 Federal Com #003

 West Shugart 31 Federal Com #003

Google Earth


3000 ft

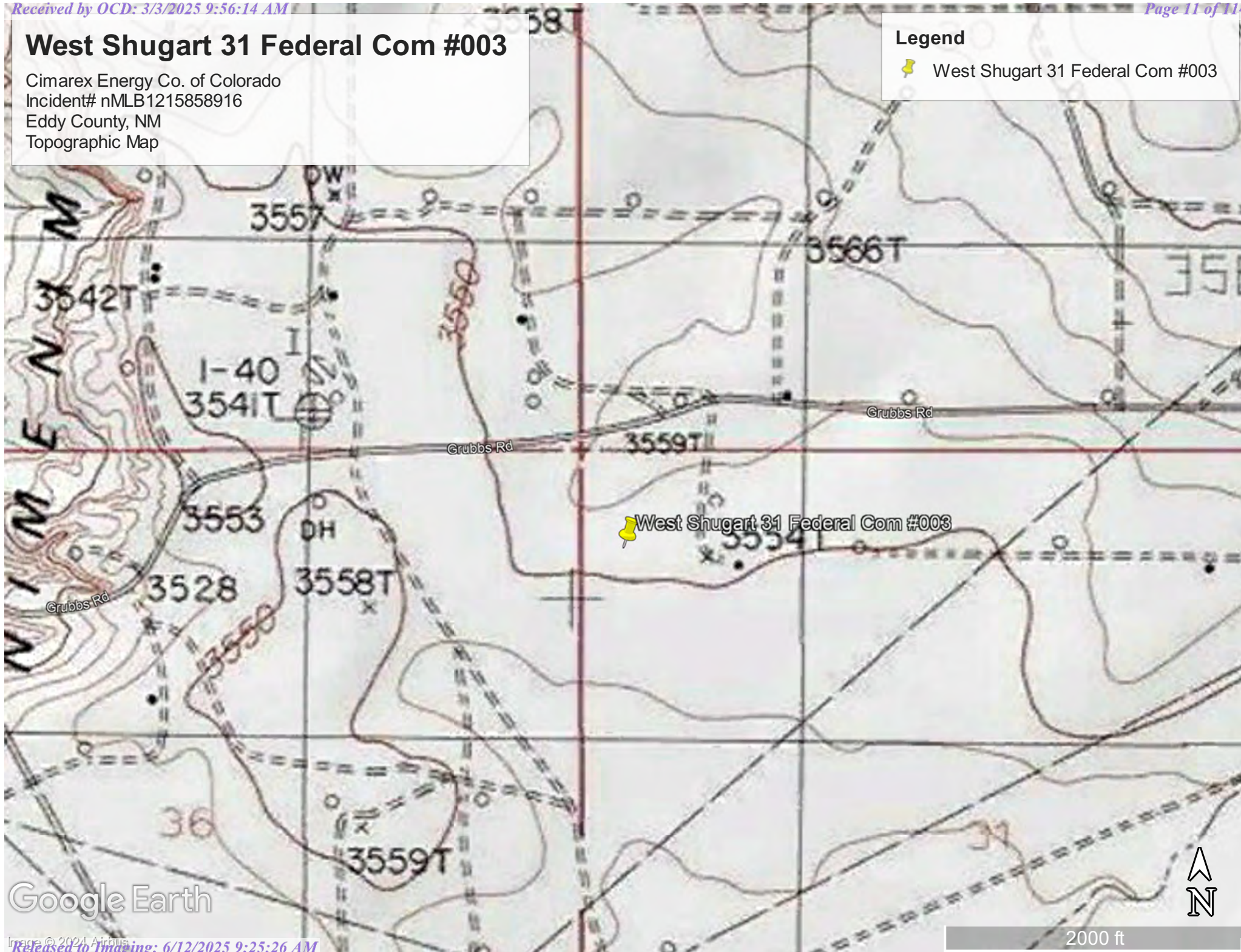


West Shugart 31 Federal Com #003

Cimarex Energy Co. of Colorado
Incident# nMLB1215858916
Eddy County, NM
Topographic Map

Legend

 West Shugart 31 Federal Com #003




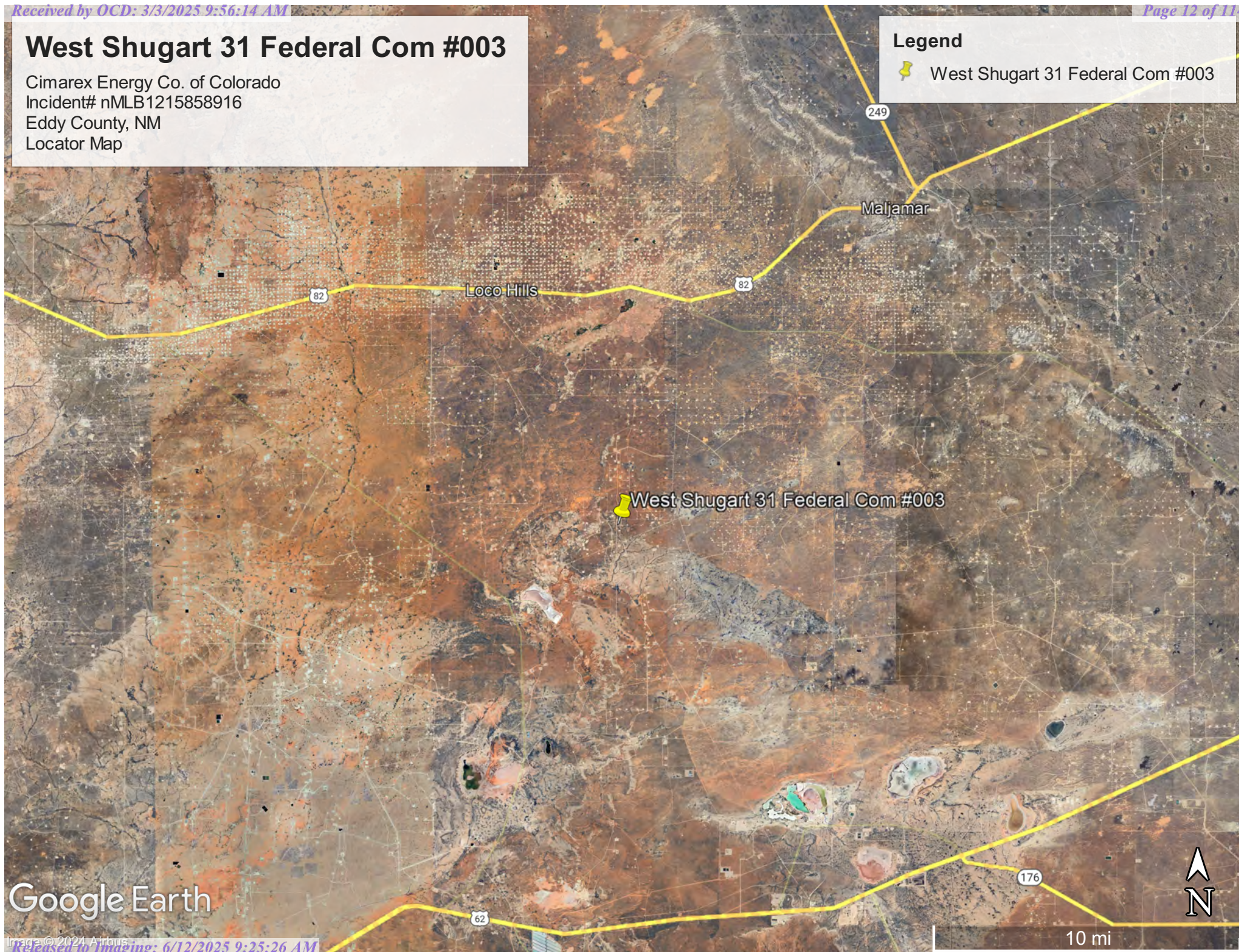
Google Earth

West Shugart 31 Federal Com #003

Cimarex Energy Co. of Colorado
Incident# nMLB1215858916
Eddy County, NM
Locator Map

Legend

 West Shugart 31 Federal Com #003

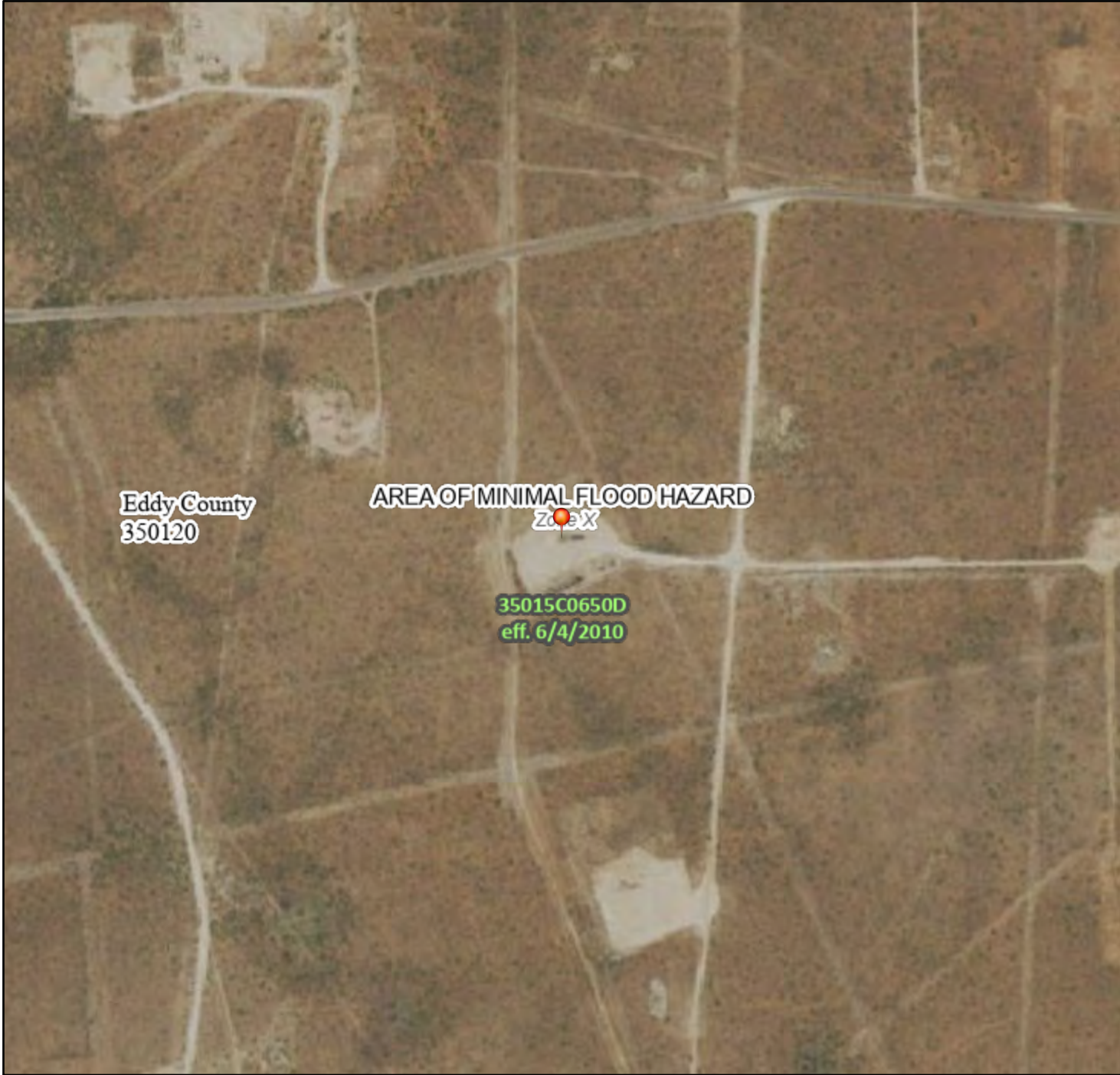


Google Earth

National Flood Hazard Layer FIRMMette



103°55'16"W 32°42'49"N



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

1:6,000

103°54'39"W 32°42'18"N

Released to Imaging: 6/12/2025 9:25:26 AM

Basemap Imagery Source: USGS National Map 2023

Legend

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

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5
		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 7/1/2024 at 11:52 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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

APPENDIX II

GROUNDWATER DATA

SOIL SURVEY

FEMA FLOOD ZONE



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
CP 00767 POD1		CP	ED	3	2	35	18S	30E	599300	3619158*		2333	500		
CP 01907 POD1		CP	ED	4	2	2	18	19S	31E	603017	3614737		5050		
CP 00853 POD1	O	CP	ED	2	4	28	18S	30E	596472	3620340*		5177	350		
CP 00647 POD1	O	CP	ED	4	2	2	15	19S	30E	598235	3614621*		5991	200	92 108
CP 01985 POD1		CP	ED	2	4	2	17	19S	31E	604666	3614438		5991	55	
CP 01943 POD1		CP	ED	1	3	1	20	19S	31E	603217	3612883		6892	55	
CP 00357 POD1		CP	ED	4	4	1	24	19S	30E	600667	3612631*		7013	630	
CP 00357 POD2		CP	ED	4	3	1	24	19S	30E	600265	3612627*		7081	630	
CP 00722 POD2		CP	ED	2	1	1	25	19S	30E	600276	3611620*		8071	350	65 285
CP 01941 POD1		CP	ED	3	2	2	29	19S	31E	604524	3611512		8585	55	54 1
RA 11590 POD1		RA	ED	2	1	3	32	17S	31E	603315	3628545		9126	158	
CP 00725 POD1		CP	ED	1	3	3	28	19S	31E	604906	3610473*		9692	231	
RA 11590 POD4		RA	ED	4	1	1	32	17S	31E	603308	3629253		9821	55	
RA 11590 POD3		RA	ED	3	1	2	32	17S	31E	603932	3629260		9955	60	

Average Depth to Water: **70 feet**

Minimum Depth: **54 feet**

Maximum Depth: **92 feet**

Record Count: 14

Basin/County Search:

County: Eddy

UTM NAD83 Radius Search (in meters):

Easting (X): 601594.2

Northing (Y): 3619582.66

Radius: 10000

*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.

7/1/24 9:51 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

Map Unit Description: Simona gravelly fine sandy loam, 0 to 3 percent slopes---Eddy Area,
New Mexico

Eddy Area, New Mexico

SG—Simona gravelly fine sandy loam, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 1w5w

Elevation: 2,750 to 5,000 feet

Mean annual precipitation: 8 to 16 inches

Mean annual air temperature: 57 to 70 degrees F

Frost-free period: 180 to 230 days

Farmland classification: Not prime farmland

Map Unit Composition

Simona and similar soils: 95 percent

Minor components: 5 percent

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

Description of Simona

Setting

Landform: Plains, alluvial fans

Landform position (three-dimensional): Rise

Down-slope shape: Convex, linear

Across-slope shape: Linear

Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 19 inches: gravelly fine sandy loam

H2 - 19 to 23 inches: indurated

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: 7 to 20 inches to petrocalcic

Drainage class: Well drained

Runoff class: Very high

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 15 percent

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

Sodium adsorption ratio, maximum: 1.0

Available water supply, 0 to 60 inches: Very low (about 2.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: D

Ecological site: R070BD002NM - Shallow Sandy

Map Unit Description: Simona gravelly fine sandy loam, 0 to 3 percent slopes---Eddy Area,
New Mexico

Hydric soil rating: No

Minor Components

Simona

Percent of map unit: 4 percent

Ecological site: R070BD002NM - Shallow Sandy

Hydric soil rating: No

Playa

Percent of map unit: 1 percent

Landform: Playas

Landform position (three-dimensional): Talf

Down-slope shape: Concave, convex

Across-slope shape: Concave, linear

Ecological site: R070BC017NM - Bottomland

Hydric soil rating: Yes

Data Source Information

Soil Survey Area: Eddy Area, New Mexico

Survey Area Data: Version 19, Sep 7, 2023

APPENDIX III

NMOCD CORRESPONDENCE & 2012 Work Plan

District I
1625 N French Dr., Hobbs, NM 88240
District II
1301 W Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87401
District IV
1220 S St Francis Dr., Santa Fe, NM 87505



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

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

n/MLB/215858916

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company-Cimarex Energy	162683	Contact- James Tinney
Address-600 N Marienfeld Ste 600, Midland TX 79701		Telephone No. 575 706 0095
Facility Name-West Shugart 31 fed com 3H		Facility Type- Tank battery

Surface Owner	Mineral Owner	Lease No.NM-0560352
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LOCATION OF RELEASE

30-015-37350

Unit Letter	Section 31	Township 18S	Range 31E	Feet from the 660	North/South Line North	Feet from the 280	East/West Line West	County - Eddy
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Latitude-32.7086 Longitude- 103.91695

NATURE OF RELEASE

Type of Release- crude oil	Volume of Release--6 bbls	Volume Recovered-0 bbls
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	Doc: 5/11/2012 If YES, To Whom? BLM-Jim Amos (left message) BLM on call number. Mike Bratch -NMOCD-(left message)	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken

Valve closed on production equipment causing PRV(pressure release valve) to release, causing hydro carbons to spray inside berm area and behind battery
Called for vac truck and picked up standing oil inside berm and around equipment.

Describe Area Affected and Cleanup Action Taken

Inside berm area and pasture behind battery, cleaned up standing oil, planned to spray micro-blaze on pasture. Notified Talon, LLP to do assessment and work plane.

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

Signature: <i>James Tinney</i>	OIL CONSERVATION DIVISION	
Printed Name: James Tinney	Signed By: <i>Mike Bratch</i> Approved by District Supervisor	
Title: Production Foreman	Approval Date: JUN 06 2012	Expiration Date:
E-mail Address: jtinney@cimarex.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 5-15-12 Phone: 575-706-0095	Remediation per OCD Rules & Guidelines. SUBMIT REMEDIATION PROPOSAL NOT LATER THAN: 7/6/2012	

* Attach Additional Sheets If Necessary

2RP-1155

OCD Permitting

Home Operator Data Action Status Action Search Results Action Status Item Details

[NOTIFY] Notification Of Sampling (C-141N) Application

Submission Information

Submission ID:	366691	Districts:	Artesia
Operator:	[162683] CIMAREX ENERGY CO. OF COLORADO	Counties:	Eddy
Description:	CIMAREX ENERGY CO. OF COLORADO [162683] , WEST SHUGART 31 FEDERAL COM #003 , nMLB1215858916		
Status:	APPROVED		
Status Date:	07/24/2024		
References (2):	30-015-37350, nMLB1215858916		

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	nMLB1215858916
Incident Name	NMLB1215858916 WEST SHUGART 31 FEDERAL COM #003 @ 30-015-37350
Incident Type	Oil Release
Incident Status	Remediation Plan Approved
Incident Well	[30-015-37350] WEST SHUGART 31 FEDERAL COM #003

Location of Release Source

Site Name	WEST SHUGART 31 FEDERAL COM #003
Date Release Discovered	05/11/2012
Surface Owner	Federal

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	1,000
What is the estimated number of samples that will be gathered	8
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	07/26/2024
Time sampling will commence	08:00 AM
<div>Warning: Notification can not be less than two business days prior to conducting final sampling.</div>	
Please provide any information necessary for observers to contact samplers	Michael Collier - 575-909-0326
Please provide any information necessary for navigation to sampling site	32.7093887,-103.9160461 - Site assessment samples to delineate the historic spill area.

Acknowledgments

This submission type does not have acknowledgments, at this time.

Comments

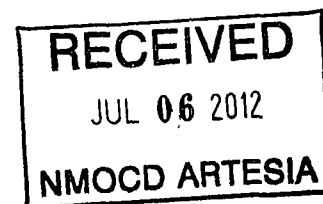
No comments found for this submission.

Conditions

Summary: *Iluig (7/24/2024)*, Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

Reasons

No reasons found for this submission.



July 2, 2012

Mr. Mike Bratcher
NMOCD District 2
 811 S. 1st Street
 Artesia, NM 88210

AMARILLO
 921 North Bivins
 Amarillo Texas 79107
 Phone 806 467 0607
 Fax 806 467 0622

ARTESIA
 408 West Texas Ave
 Artesia, New Mexico 88210
 Phone 575 746 8768
 Fax 575 746 8905

AUSTIN
 911 West Anderson Lane
 Suite 202
 Austin, Texas 78757
 Phone 512 989.3428
 Fax 512 989 3487

HOBBS
 318 East Taylor Street
 Hobbs, New Mexico 88240
 Phone 575 393 4261
 Fax 575 393 4658

MIDLAND
 2901 State Hwy 349
 Midland, Texas 79706
 Phone 432 522 2133
 Fax 432 522 2180

SAN ANTONIO
 11 Commercial Place
 Schertz, Texas 78154
 Phone 210 265 8025
 Fax 210 568 2191

TULSA
 525 South Main Street
 Suite 535
 Tulsa, Oklahoma 74103
 Phone 918 742 0871
 Fax 918 382 0232

ENVIRONMENTAL CONSULTING
 ENGINEERING
 DRILLING
 CONSTRUCTION
 SPILL MANAGEMENT
 GENERAL CONTRACTING

Subject: **Soil Assessment and Remediation Work Plan**
 Cimarex Energy
 West Shugart 31 Federal Com No. 3
 API # 30-015-37350

Dear Mr. Bratcher,

Cimarex Energy has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the referenced West Shugart 31 Federal Com No. 3 release. Talon's soil assessment results and proposed remediation activities consist of the following:

Background Information

The West Shugart 31 Federal Com No. 3 is located approximately thirty-one (31) miles southeast of Artesia, New Mexico. The legal location for the site is Section 31, Township 18 South and Range 31 East in Eddy County, New Mexico. More Specifically the latitude and longitude for the release are 32.709384 North and -103.916043 West.

According to the soil survey provided by the United States Department of Agriculture National Resources Conservation Services, the soil in this area is made up of Simona gravelly fine sandy loam with 0 to 3 percent slopes. The local surface and shallow geology, Quaternary Age sedimentary deposits, is comprised of alluvium and eolian sands underlain by gravelly fine sandy loam and hard caliches. According to the Texaco/Chevron Eddy County Water Trend Data Map (2005) the depth to groundwater is approximately 175-feet deep.

The ranking for this site is 0 based on the as following:

Depth to ground water	>100'
Wellhead Protection Area	>1000'
Distance to surface water body	>1000'

Incident Description

On May 11, 2012 a valve closed on the production equipment causing a pressure release valve (PRV) to malfunction causing 6 barrels hydrocarbons to spray inside the berm and behind the tank battery in the pasture. A site plan illustrating the work area is attached.

Toll Free: 866.742.0742
www.talonlpe.com

Actions Taken

On May 15, 2012 Talon/LPE mobilized personnel to begin assessment and soil sampling activities for the construction of a work plan. Grab soil samples were collected utilizing a hand auger. Grab soil samples were collected from the surface of the impacted areas to a depth of 1-foot deep. The impacted area was then treated using a total of 500 gallons of fresh water and Micro-Blaze, a bio-remediation agent.

All soil samples were collected by Talon personnel wearing clean nitrile gloves. The samples were placed in laboratory provided sample containers, iced and transported to Cardinal Laboratories in Hobbs, New Mexico. The samples were tested for TPH (Total Petroleum Hydrocarbons) using EPA Method 8015M, volatile organics (BTEX) using EPA Method 8021B and analysis of Chlorides using Method SM4500CL-B. The complete laboratory report is attached as Appendix II.

Analytical Results

Analytical results received from Cardinal Laboratories are summarized below:

May 18, 2012

<u>Sample</u>	<u>Depth</u>	<u>Location</u>	<u>Chlorides</u>	<u>BTEX</u>	<u>TPH (mg/kg)</u>
S-1	0'	Bermed Area	656	10.53	14,024
	0.5'		128	<0.150	33.7
	1'		704	<0.150	<10
S-2	0'	Pasture	448	<0.150	5,210
	0.5'		32	<0.150	32.6
	1'		32	<0.150	79.7

For this site's ranking, New Mexico Oil Conservation District action level criterion for BTEX is 50 mg/kg, Benzene is 10 mg/kg and TPH is 5,000 mg/kg. The chloride remediation standard is considered to be 1,000 mg/kg.

Summary

- Groundwater in the project vicinity is greater than 100-feet below land surface per the New Mexico State Engineer Database.
- Based upon the results of the laboratory data obtained for this investigation, the vertical impacts of the hydrocarbon release have been documented to extend 0.5-feet below ground surface.

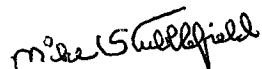
Proposed Remedial Actions

- Confirmation samples will be collected from the treated (Micro-Blazed) overspray area located in the tank battery and pasture in 60 days.
- If analytical results report the TPH to be above the Recommended Remedial Action Levels (RRAL's) for the area, a total of 500-gallons of fresh water and Micro Blaze will be re-applied to the impacted areas. Follow up samples will be obtained in 60 days.
- When analytical results for soil samples collected from the treated area report the TPH to be under the RRAL for the area a final report documenting all field activities and lab reports will be provided to the NMOCD Artesia Office including Form C-141.

If we can provide additional information or be of further assistance please contact our office at 575.746.8768.

Respectfully submitted,

TALON/LPE



Mike Stubblefield
Project Manager



David J. Adkins
District Manager

APPENDIX I
INITIAL C-141

District I
1625 N French Dr , Hobbs, NM 88240
District II
1301 W Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S St Francis Dr , Santa Fe, NM 87505

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

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company-Cimarex Energy	Contact- James Tinney
Address-600 N Marienfeld Ste 600, Midland TX 79701	Telephone No 575 706 0095
Facility Name-West Shugart 31 fed com 3H	Facility Type- Tank battery
Surface Owner	Mineral Owner
Lease No.NM-0560352	

LOCATION OF RELEASE

Unit Letter	Section 31	Township 18S	Range 31E	Feet from the 660	North/South Line North	Feet from the 280	East/West Line West	County - Eddy
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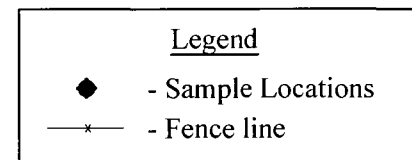
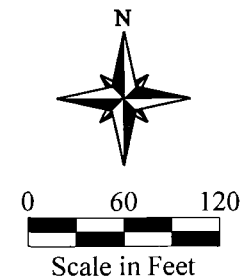
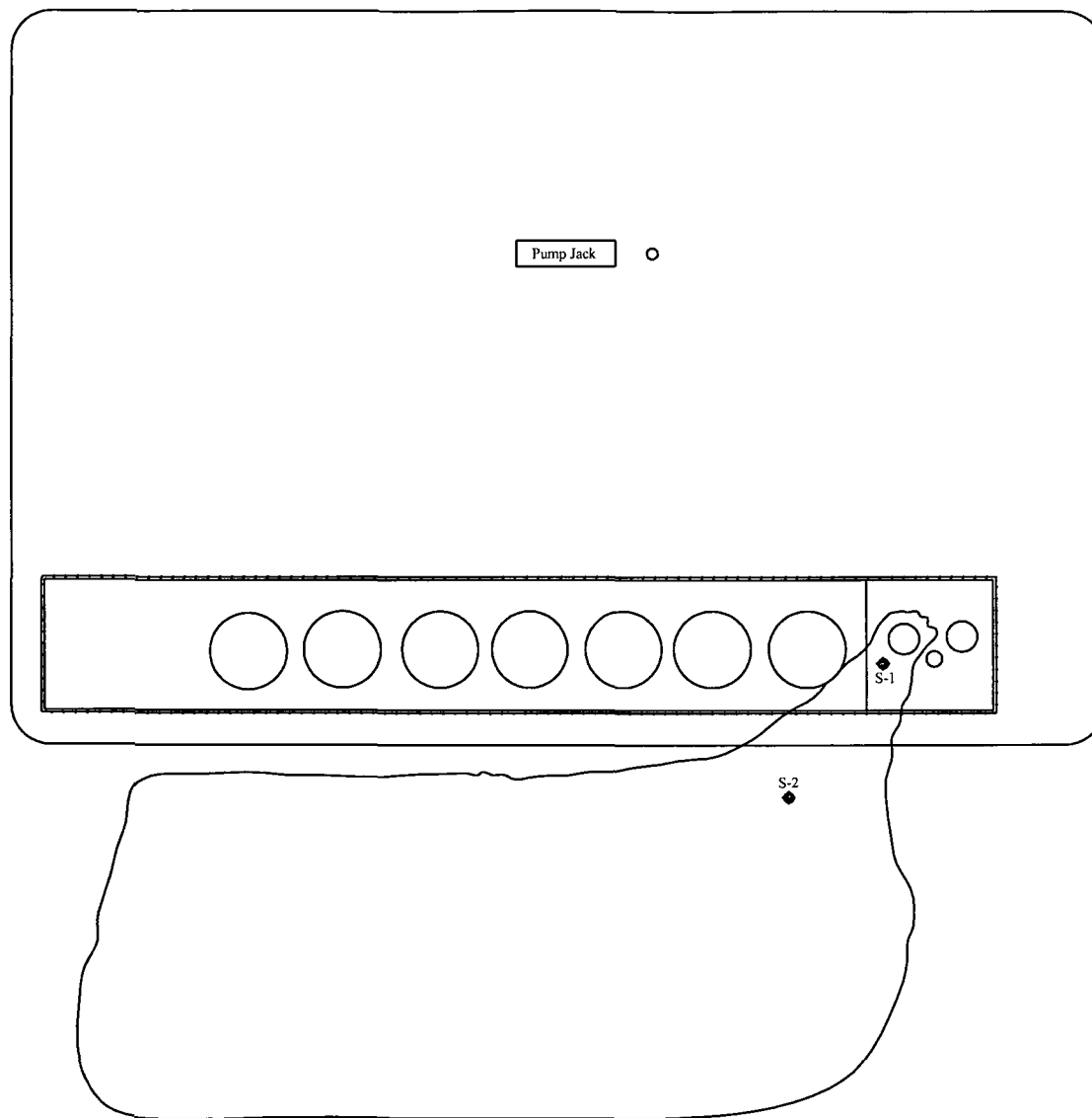
Latitude-32.7086 Longitude- 103 91695

NATURE OF RELEASE

Type of Release- crude oil	Volume of Release--6 bbls	Volume Recovered-0 bbls
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? BLM-Jim Amos (left message) BLM on call number Mike Bratch -NMOCD-(left message)	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.*		
Describe Cause of Problem and Remedial Action Taken Valve closed on production equipment causing PRV(pressure release valve) to release, causing hydro carbons to spray inside berm area and behind battery Called for vac truck and picked up standing oil inside berm and around equipment.		
Describe Area Affected and Cleanup Action Taken Inside berm area and pasture behind battery, cleaned up standing oil, planned to spray micro-blaze on pasture Notified Talon, LLP to do assessment and work plane.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		
Signature.	OIL CONSERVATION DIVISION	
Printed Name James Tinney	Approved by District Supervisor -	
Title: Production Foreman	Approval Date:	Expiration Date:
E-mail Address. jtinney@cimarex.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date 5-15-12 Phone. 575-706-0095		

* Attach Additional Sheets If Necessary

SITE MAP



Date: 06/06/2012

Scale: 1" = 120'

Drawn By: TJS

West Shugart 31 Fed Com #3H
Cimarex Energy Company
Artesia, New Mexico
Figure 1 - Site Plan

APPENDIX II
LABORATORY RESULTS



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

May 18, 2012

MIKE STUBBLEFIELD

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: WEST SHUGART 31 FEDERAL COM NO 3H

Enclosed are the results of analyses for samples received by the laboratory on 05/16/12 10:10

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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, appearing to read "Coley D. Keene", written in a cursive style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

TALON LPE
 MIKE STUBBLEFIELD
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	05/16/2012	Sampling Date:	05/15/2012
Reported:	05/18/2012	Sampling Type:	Soil
Project Name:	WEST SHUGART 31 FEDERAL COM NO. :	Sampling Condition:	Cool & Intact
Project Number:	701162.018.01	Sample Received By:	Jodi Henson
Project Location:	SEC 31-T18S-R31E		

Sample ID: S-1 0' BGS BERMED AREA (H201093-01)

BTEX 8021B		mg/kg	Analyzed By: ZZZ					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/17/2012	ND	2.14	107	2.00	4.14	
Toluene*	0.430	0.050	05/17/2012	ND	2.24	112	2.00	4.57	
Ethylbenzene*	2.79	0.050	05/17/2012	ND	2.22	111	2.00	4.16	
Total Xylenes*	7.31	0.150	05/17/2012	ND	6.86	114	6.00	4.40	

Surrogate 4-Bromofluorobenzene (PIC) 149 % 64 4-134

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	05/17/2012	ND	400	100	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	294	50.0	05/16/2012	ND	205	103	200	5.10	
DRO >C10-C28	14000	50.0	05/16/2012	ND	222	111	200	26.6	

Surrogate 1-Chlorooctane 207 % 55 5-154

Surrogate 1-Chlorooctadecane 1060 % 57 6-158

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 MIKE STUBBLEFIELD
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	05/16/2012	Sampling Date:	05/15/2012
Reported:	05/18/2012	Sampling Type:	Soil
Project Name:	WEST SHUGART 31 FEDERAL COM NO. 1	Sampling Condition:	Cool & Intact
Project Number:	701162 018.01	Sample Received By:	Jodi Henson
Project Location:	SEC.31-T18S-R31E		

Sample ID: S-1 .5' BGS BERMED AREA (H201093-02)

BTEX 8021B		mg/kg		Analyzed By: ZZZ						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/17/2012	ND	2.14	107	2.00	4.14		
Toluene*	<0.050	0.050	05/17/2012	ND	2.24	112	2.00	4.57		
Ethylbenzene*	<0.050	0.050	05/17/2012	ND	2.22	111	2.00	4.16		
Total Xylenes*	<0.150	0.150	05/17/2012	ND	6.86	114	6.00	4.40		

Surrogate 4-Bromofluorobenzene (PIE) 114 % 64.4-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	05/17/2012	ND	400	100	400	0.00		
TPH 8015M		mg/kg		Analyzed By: MS						

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/16/2012	ND	205	103	200	5.10	
DRO >C10-C28	33.7	10.0	05/16/2012	ND	222	111	200	26.6	

Surrogate 1-Chlorooctane 93.8 % 55.5-154

Surrogate 1-Chlorooctadecane 101 % 57.6-158

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 MIKE STUBBLEFIELD
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	05/16/2012	Sampling Date:	05/15/2012
Reported:	05/18/2012	Sampling Type:	Soil
Project Name:	WEST SHUGART 31 FEDERAL COM NO 2	Sampling Condition:	Cool & Intact
Project Number:	701162.018.01	Sample Received By:	Jodi Henson
Project Location:	SEC.31-T18S-R31E		

Sample ID: S-1 1' BGS BERMED AREA (H201093-03)

BTEX 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/17/2012	ND	2.14	107	2.00	4.14	
Toluene*	<0.050	0.050	05/17/2012	ND	2.24	112	2.00	4.57	
Ethylbenzene*	<0.050	0.050	05/17/2012	ND	2.22	111	2.00	4.16	
Total Xylenes*	<0.150	0.150	05/17/2012	ND	6.86	114	6.00	4.40	

Surrogate 4-Bromofluorobenzene (PIL) 118 % 64.4-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	05/17/2012	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/16/2012	ND	205	103	200	5.10	
DRO >C10-C28	<10.0	10.0	05/16/2012	ND	222	111	200	26.6	

Surrogate 1-Chlorooctane 91.5 % 55.5-154

Surrogate 1-Chlorooctadecane 99.7 % 57.6-158

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 MIKE STUBBLEFIELD
 408 W. TEXAS AVE
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	05/16/2012	Sampling Date:	05/15/2012
Reported:	05/18/2012	Sampling Type:	Soil
Project Name:	WEST SHUGART 31 FEDERAL COM NO. 1	Sampling Condition:	Cool & Intact
Project Number:	701162.018.01	Sample Received By:	Jodi Henson
Project Location:	SEC.31-T18S-R31E		

Sample ID: S-2 0' BGS PASTURE (H201093-04)

BTEX 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/18/2012	ND	2.26	113	2.00	0.638	
Toluene*	<0.050	0.050	05/18/2012	ND	2.39	120	2.00	2.28	
Ethylbenzene*	<0.050	0.050	05/18/2012	ND	2.40	120	2.00	2.75	
Total Xylenes*	<0.150	0.150	05/18/2012	ND	7.46	124	6.00	3.79	

Surrogate 4-Bromofluorobenzene (PIC) 113 % 64.4-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	05/17/2012	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	05/16/2012	ND	205	103	200	5.10		
DRO >C10-C28	5210	10.0	05/16/2012	ND	222	111	200	26.6		

Surrogate 1-Chlorooctane 90.8 % 55.5-154

Surrogate 1-Chlorooctadecane 514 % 57.6-158

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 MIKE STUBBLEFIELD
 408 W. TEXAS AVE
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	05/16/2012	Sampling Date:	05/15/2012
Reported:	05/18/2012	Sampling Type:	Soil
Project Name:	WEST SHUGART 31 FEDERAL COM NO. 1	Sampling Condition:	Cool & Intact
Project Number:	701162.018.01	Sample Received By:	Jodi Henson
Project Location:	SEC.31-T18S-R31E		

Sample ID: S-2 .5' BGS PASTURE (H201093-05)

BTEX 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/18/2012	ND	2.26	113	2.00	0.638	
Toluene*	<0.050	0.050	05/18/2012	ND	2.39	120	2.00	2.28	
Ethylbenzene*	<0.050	0.050	05/18/2012	ND	2.40	120	2.00	2.75	
Total Xylenes*	<0.150	0.150	05/18/2012	ND	7.46	124	6.00	3.79	

Surrogate 4-Bromofluorobenzene (PIL) 113 % 64.4-134

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/17/2012	ND	400	100	400	3.92		

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/16/2012	ND	205	103	200	5.10	
DRO >C10-C28	32.6	10.0	05/16/2012	ND	222	111	200	26.6	

Surrogate 1-Chlorooctane 83.8 % 55.5-154

Surrogate 1-Chlorooctadecane 94.4 % 57.6-158

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 MIKE STUBBLEFIELD
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	05/16/2012	Sampling Date:	05/15/2012
Reported:	05/18/2012	Sampling Type:	Soil
Project Name:	WEST SHUGART 31 FEDERAL COM NO. 2	Sampling Condition:	Cool & Intact
Project Number:	701162.018.01	Sample Received By:	Jodi Henson
Project Location:	SEC.31-T18S-R31E		

Sample ID: S-2 1' BGS PASTURE (H201093-06)

BTEx 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/18/2012	ND	2.26	113	2.00	0.638	
Toluene*	<0.050	0.050	05/18/2012	ND	2.39	120	2.00	2.28	
Ethylbenzene*	<0.050	0.050	05/18/2012	ND	2.40	120	2.00	2.75	
Total Xylenes*	<0.150	0.150	05/18/2012	ND	7.46	124	6.00	3.79	

Surrogate 4-Bromofluorobenzene (PIL) 114 % 64.4-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/17/2012	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/17/2012	ND	194	97.2	200	3.47	
DRO >C10-C28	79.7	10.0	05/17/2012	ND	184	92.1	200	7.51	

Surrogate 1-Chlorooctane 91.6 % 55.5-154

Surrogate 1-Chlorooctadecane 113 % 57.6-158

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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A handwritten signature in black ink, reading "C. D. Keene", written over a horizontal line.

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]

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

Page 9 of 9

District I

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

District II

811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 366691

QUESTIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 366691
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nMLB1215858916
Incident Name	NMLB1215858916 WEST SHUGART 31 FEDERAL COM #003 @ 30-015-37350
Incident Type	Oil Release
Incident Status	Remediation Plan Approved
Incident Well	[30-015-37350] WEST SHUGART 31 FEDERAL COM #003

Location of Release Source	
Site Name	WEST SHUGART 31 FEDERAL COM #003
Date Release Discovered	05/11/2012
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	1,000
What is the estimated number of samples that will be gathered	8
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	07/26/2024
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Michael Collier - 575-909-0326
Please provide any information necessary for navigation to sampling site	32.7093887,-103.9160461 - Site assessment samples to delineate the historic spill area.

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Energy, Minerals and Natural Resources
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Santa Fe, NM 87505

CONDITIONS

Action 366691

CONDITIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 366691
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
lluig	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	7/24/2024

Bratcher, Mike, EMNRD

From: Bratcher, Mike, EMNRD
Sent: Wednesday, July 11, 2012 1:56 PM
To: jtinney@cimarex.com; 'Michael Stubblefield'
Subject: Cimarex West Shugart 31 Fed 3 release

Reference: Cimarex Energy * West Shugart 31 Fed 3 * 30-015-37350 * D-31-18s-31e * Eddy County, New Mexico
OCD Tracking Number: **2RP-1155** * Date of release: 5/11/12

Greetings,

NMOCD District 2 office is in receipt of a proposal for remediation of a release of produced fluids, as referenced above. The proposal is approved with the following conditions/stipulations:

- Notify OCD District 2 office 48 hours prior to commencement of remedial activities.
- Notify OCD District 2 office 48 hours prior to obtaining samples when the analyses will be submitted to OCD.
- Like approval by BLM or any other regulatory authority as may be applicable.

OCD approval does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

If you have any questions or concerns, please contact me.

Mike Bratcher

NMOCD District 2
811 S. First Street
Artesia, NM 88210
575-748-1283 Ext. 108
575-626-0857
mike.bratcher@state.nm.us

Bratcher, Mike, EMNRD

From: Microsoft Outlook
To: jtinney@cimarex.com; Michael Stubblefield
Sent: Wednesday, July 11, 2012 1:57 PM
Subject: Relayed. Cimarex West Shugart 31 Fed 3 release

Delivery to these recipients or groups is complete, but no delivery notification was sent by the destination server:

jtinney@cimarex.com (jtinney@cimarex.com)

Michael Stubblefield (mstubblefield@talonlpe.com)

Subject: Cimarex West Shugart 31 Fed 3 release

Bratcher, Mike, EMNRD

From: Michael Stubblefield [mstubblefield@talonlpe.com]
Sent: Tuesday, May 15, 2012 11:47 AM
To: jamos@blm.gov
Cc: Bratcher, Mike, EMNRD; James Tinney
Subject: Treatment using Micro-blaze at the Cimarex Energy West Shugart 31 Federal Com. No.3

Dear Mr. Amos,

On 5/15/2012 after 1:00pm Talon/LPE will mobilize to the Cimarex Energy West Shugart 31 Federal Com. No.3 release. The impacted area affected by the release will be treated using Micro-Blaze. IF further information is required please contact me.

Mike Stubblefield
Project Manager
Talon/LPE
408 West Texas Avenue
Artesia, New Mexico 88210
(575) 746.8768 phone
(575) 746.8905 fax
(575) 441.7254 cell
www.talonlpe.com



Better Business Bureau Torch Award for Marketplace Ethics: 2010 Winner, 2009 Finalist
Staples Foundation for Learning Hall of Fame Recipient: 2010
ICIC and Business Week- Top 100: 2010, 2009, 2008, 2007, 2006
Inc. 500/5000: 2011, 2010, 2009, 2008, 2007

Bratcher, Mike, EMNRD

From: Michael Stubblefield [mstubblefield@talonlpe.com]
Sent: Tuesday, May 22, 2012 11:09 AM
To: Bratcher, Mike, EMNRD
Subject: FW: WEST SHUGART 31 FEDERAL COM NO 3H
Attachments: H201093 TALON.pdf; 012.JPG

Dear Mr. Bratcher,

Talon/LPE is sending the analytical results for the soil samples collected on 5/15/2012 at the Cimarex Energy Company West Shugart 31 Federal Com. No.3H tank battery release. A work plan will be constructed based upon the analytical results. Talon/LPE has attached photos taken during the soil sampling and treatment using micro blaze at the West Shugart 31 Federal tank battery release. The site photo for the soil sample location labeled S-1, which was collected from the impacted area located near the heater treater, shows dry soil at less than 1" under the surface of the release. If further information is requested please contact me.

Mike Stubblefield
Project Manager
Talon/LPE
408 West Texas Avenue
Artesia, New Mexico 88210
(575) 746.8768 phone
(575) 746.8905 fax
(575) 441.7254 cell
www.talonlpe.com



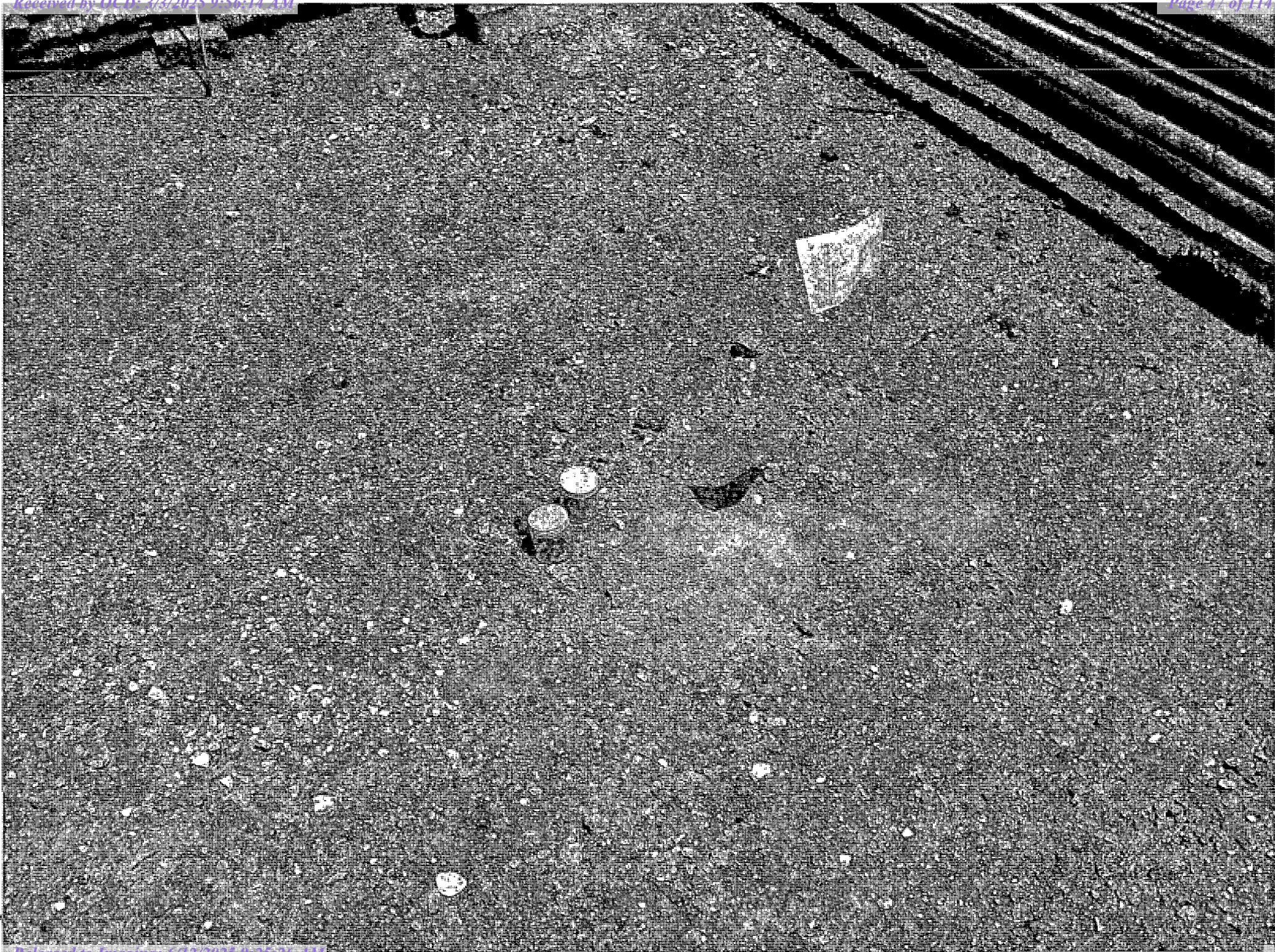
Better Business Bureau Torch Award for Marketplace Ethics: 2010 Winner, 2009 Finalist
Staples Foundation for Learning Hall of Fame Recipient: 2010
ICIC and Business Week- Top 100: 2010, 2009, 2008, 2007, 2006
Inc. 500/5000: 2011, 2010, 2009, 2008, 2007

From: Celey Keene [<mailto:celey.keene@cardinallabsnm.com>]
Sent: Friday, May 18, 2012 3:26 PM
To: Michael Stubblefield; David Adkins; Kimberly M. Wilson
Subject: WEST SHUGART 31 FEDERAL COM NO 3H

THANK YOU,

Celey Keene
Lab Director
Cardinal Laboratories
101 East Marland
Hobbs, NM 88240
T: (575) 393-2326
F: (575) 393-2476
e-mail: celey.keene@cardinallabsnm.com

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

May 18, 2012

MIKE STUBBLEFIELD

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: WEST SHUGART 31 FEDERAL COM NO. 3H

Enclosed are the results of analyses for samples received by the laboratory on 05/16/12 10:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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,

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

TALON LPE
 MIKE STUBBLEFIELD
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received	05/16/2012	Sampling Date:	05/15/2012
Reported.	05/18/2012	Sampling Type:	Soil
Project Name	WEST SHUGART 31 FEDERAL COM NO. 2	Sampling Condition:	Cool & Intact
Project Number:	701162.018.01	Sample Received By	Jodi Henson
Project Location	SEC.31-T18S-R31E		

Sample ID: S-1 0' BGS BERMED AREA (H201093-01)

BTEX 8021B		mg/kg		Analyzed By: ZZZ				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/17/2012	ND	2.14	107	2.00	4.14	
Toluene*	0.430	0.050	05/17/2012	ND	2.24	112	2.00	4.57	
Ethylbenzene*	2.79	0.050	05/17/2012	ND	2.22	111	2.00	4.16	
Total Xylenes*	7.31	0.150	05/17/2012	ND	6.86	114	6.00	4.40	

Surrogate 4-Bromofluorobenzene (PIE) 149 % 64.4-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	05/17/2012	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	294	50.0	05/16/2012	ND	205	103	200	5.10	
DRO >C10-C28	14000	50.0	05/16/2012	ND	222	111	200	26.6	

Surrogate 1-Chlorooctane 207 % 55.5-154

Surrogate 1-Chlorooctadecane 1060 % 57.6-158

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 MIKE STUBBLEFIELD
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	05/16/2012	Sampling Date:	05/15/2012
Reported:	05/18/2012	Sampling Type:	Soil
Project Name:	WEST SHUGART 31 FEDERAL COM NO. 1	Sampling Condition:	Cool & Intact
Project Number	701162.018.01	Sample Received By	Jodi Henson
Project Location	SEC.31-T18S-R31E		

Sample ID: S-1 .5' BGS BERMED AREA (H201093-02)

BTEX 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/17/2012	ND	2.14	107	2.00	4.14	
Toluene*	<0.050	0.050	05/17/2012	ND	2.24	112	2.00	4.57	
Ethylbenzene*	<0.050	0.050	05/17/2012	ND	2.22	111	2.00	4.16	
Total Xylenes*	<0.150	0.150	05/17/2012	ND	6.86	114	6.00	4.40	

Surrogate 4-Bromofluorobenzene (PIE) 114 % 64.4-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	05/17/2012	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/16/2012	ND	205	103	200	5.10	
DRO >C10-C28	33.7	10.0	05/16/2012	ND	222	111	200	26.6	

Surrogate 1-Chlorooctane 93.8 % 55.5-154

Surrogate 1-Chlorooctadecane 101 % 57.6-158

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Analytical Results For:

TALON LPE
 MIKE STUBBLEFIELD
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To (575) 745-8905

Received	05/16/2012	Sampling Date	05/15/2012
Reported:	05/18/2012	Sampling Type	Soil
Project Name	WEST SHUGART 31 FEDERAL COM NO. 1	Sampling Condition	Cool & Intact
Project Number:	701162.018.01	Sample Received By:	Jodi Henson
Project Location:	SEC.31-T18S-R31E		

Sample ID: S-1 1' BGS BERMED AREA (H201093-03)

BTEX 8021B		mg/kg		Analyzed By: ZZZ						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/17/2012	ND	2.14	107	2.00	4.14		
Toluene*	<0.050	0.050	05/17/2012	ND	2.24	112	2.00	4.57		
Ethylbenzene*	<0.050	0.050	05/17/2012	ND	2.22	111	2.00	4.16		
Total Xylenes*	<0.150	0.150	05/17/2012	ND	6.86	114	6.00	4.40		

Surrogate 4-Bromofluorobenzene (PIL) 118 % 64.4-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	704	16.0	05/17/2012	ND	400	100	400	3.92		
TPH 8015M		mg/kg		Analyzed By: MS						

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	05/16/2012	ND	205	103	200	5.10		
DRO >C10-C28	<10.0	10.0	05/16/2012	ND	222	111	200	26.6		

Surrogate 1-Chlorooctane 91.5 % 55.5-154

Surrogate 1-Chlorooctadecane 99.7 % 57.6-158

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 MIKE STUBBLEFIELD
 408 W. TEXAS AVE
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	05/16/2012	Sampling Date:	05/15/2012
Reported:	05/18/2012	Sampling Type:	Soil
Project Name:	WEST SHUGART 31 FEDERAL COM NO. 1	Sampling Condition:	Cool & Intact
Project Number:	701162.018.01	Sample Received By:	Jodi Henson
Project Location:	SEC.31-T18S-R31E		

Sample ID: S-2 0' BGS PASTURE (H201093-04)

BTEX 8021B	mg/kg	Analyzed By: ZZZ							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/18/2012	ND	2.26	113	2.00	0.638	
Toluene*	<0.050	0.050	05/18/2012	ND	2.39	120	2.00	2.28	
Ethylbenzene*	<0.050	0.050	05/18/2012	ND	2.40	120	2.00	2.75	
Total Xylenes*	<0.150	0.150	05/18/2012	ND	7.46	124	6.00	3.79	

Surrogate 4-Bromofluorobenzene (PIE) 113 % 64.4-134

Chloride, SM4500Cl-B	mg/kg	Analyzed By: HM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	05/17/2012	ND	400	100	400	3.92	
TPH 8015M	mg/kg	Analyzed By: MS							S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/16/2012	ND	205	103	200	5.10	
DRO >C10-C28	5210	10.0	05/16/2012	ND	222	111	200	26.6	

Surrogate 1-Chlorooctane 90.8 % 55.5-154

Surrogate 1-Chlorooctadecane 514 % 57.6-158

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 MIKE STUBBLEFIELD
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	05/16/2012	Sampling Date	05/15/2012
Reported:	05/18/2012	Sampling Type	Soil
Project Name:	WEST SHUGART 31 FEDERAL COM NO. 1	Sampling Condition:	Cool & Intact
Project Number:	701162.018.01	Sample Received By:	Jodi Henson
Project Location:	SEC.31-T18S-R31E		

Sample ID: S-2 .5' BGS PASTURE (H201093-05)

BTX 8021B		mg/kg		Analyzed By: ZZZ						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2012	ND	2.26	113	2.00	0.638		
Toluene*	<0.050	0.050	05/18/2012	ND	2.39	120	2.00	2.28		
Ethylbenzene*	<0.050	0.050	05/18/2012	ND	2.40	120	2.00	2.75		
Total Xylenes*	<0.150	0.150	05/18/2012	ND	7.46	124	6.00	3.79		

Surrogate 4-Bromofluorobenzene (PIC) 113 % 64.4-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/17/2012	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	05/16/2012	ND	205	103	200	5.10		
DRO >C10-C28	32.6	10.0	05/16/2012	ND	222	111	200	26.6		

Surrogate 1-Chlorooctane 83.8 % 55.5-154

Surrogate 1-Chlorooctadecane 94.4 % 57.6-158

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 MIKE STUBBLEFIELD
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To (575) 745-8905

Received	05/16/2012	Sampling Date.	05/15/2012
Reported	05/18/2012	Sampling Type:	Soil
Project Name	WEST SHUGART 31 FEDERAL COM NO. 1	Sampling Condition.	Cool & Intact
Project Number.	701162.018.01	Sample Received By:	Jodi Henson
Project Location	SEC.31-T18S-R31E		

Sample ID: S-2 1' BGS PASTURE (H201093-06)

BTEX 8021B		mg/kg		Analyzed By: ZZZ						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2012	ND	2.26	113	2.00	0.638		
Toluene*	<0.050	0.050	05/18/2012	ND	2.39	120	2.00	2.28		
Ethylbenzene*	<0.050	0.050	05/18/2012	ND	2.40	120	2.00	2.75		
Total Xylenes*	<0.150	0.150	05/18/2012	ND	7.46	124	6.00	3.79		

Surrogate 4-Bromofluorobenzene (PIC) 114 % 64.4-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/17/2012	ND	400	100	400	3.92	
TPH 8015M		mg/kg		Analyzed By: MS					

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	05/17/2012	ND	194	97.2	200	3.47		
DRO >C10-C28	79.7	10.0	05/17/2012	ND	184	92.1	200	7.51		

Surrogate 1-Chlorooctane 91.6 % 55.5-154

Surrogate 1-Chlorooctadecane 113 % 57.6-158

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect
- 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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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <u>Talon / LPE</u>				BILL TO				ANALYSIS REQUEST																									
Project Manager: <u>Michelle Steelhill</u>				P.O. #.																													
Address: <u>408 West Texas Ave.</u>				Company: <u>Talon / LPE</u>																													
City: <u>Alamogordo</u> State: <u>NM</u> Zip: <u>88210</u>				Attn.																													
Phone #: <u>505-441-7254</u> Fax #.				Address																													
Project #: <u>701162.018.01</u> Project Owner: <u>Cimarron Energy</u>				City																													
Project Name: <u>West Shugart 31 Federal Com. No 3H</u>				State: Zip																													
Project Location: <u>sec. 31-T18S-R31E</u>				Phone #																													
Sampler Name: <u>Michelle Steelhill</u>				Fax #																													
FOR LAB USE ONLY				MATRIX				PRESERV				SAMPLING																					
Lab I.D.		Sample I.D.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER		ACID/BASE		ICE / COOL		OTHER		DATE		TIME		W5108		80210		Total Chlorides	
H201013		5-1 0.5ggs bermed Area		5																				5/15/2012		1:55 PM							
2		5-1 0.5ggs bermed Area		5																				5/15/2012		2:01 PM							
3		5-1 1' ggs bermed Area		5																				5/15/2012		2:08 PM							
4		5-2 0.5ggs pasture		5																				5/15/2012		2:22 PM							
5		5-2 0.5ggs pasture		5																				5/15/2012		2:29 PM							
6		5-2 1' ggs pasture		5																				5/15/2012		2:35 PM							

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Relinquished By: <u>Michelle Steelhill</u>	Date: <u>5/16/2012</u>	Received By: <u>[Signature]</u>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By: <u>[Signature]</u>	Time: <u>10:10</u>	Received By: <u>[Signature]</u>	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - <u>Other</u>			REMARKS	
Sample Condition: Cool: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			CHECKED BY: (Initials) <u>[Signature]</u>	

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

APPENDIX IV

PHOTOGRAPHIC DOCUMENTATION

PHOTOGRAPHIC DOCUMENTATION

SAMPLE LOCATION PHOTOGRAPHS

S-1



BH-1

PHOTOGRAPHIC DOCUMENTATION



BH-2



BH-3

PHOTOGRAPHIC DOCUMENTATION



BH-4



BH-5

PHOTOGRAPHIC DOCUMENTATION



BH-6



H-1

PHOTOGRAPHIC DOCUMENTATION

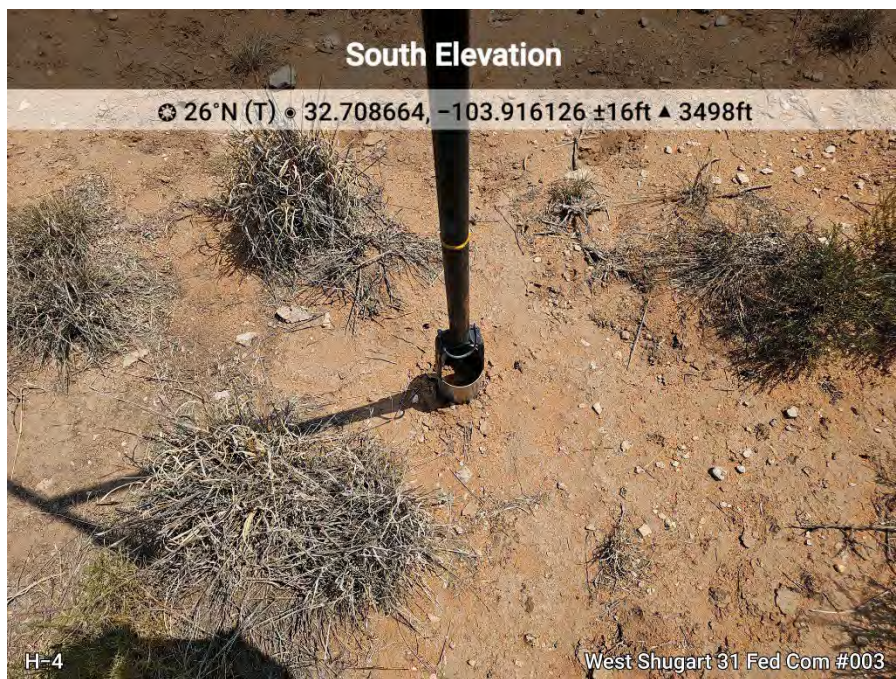


H-2

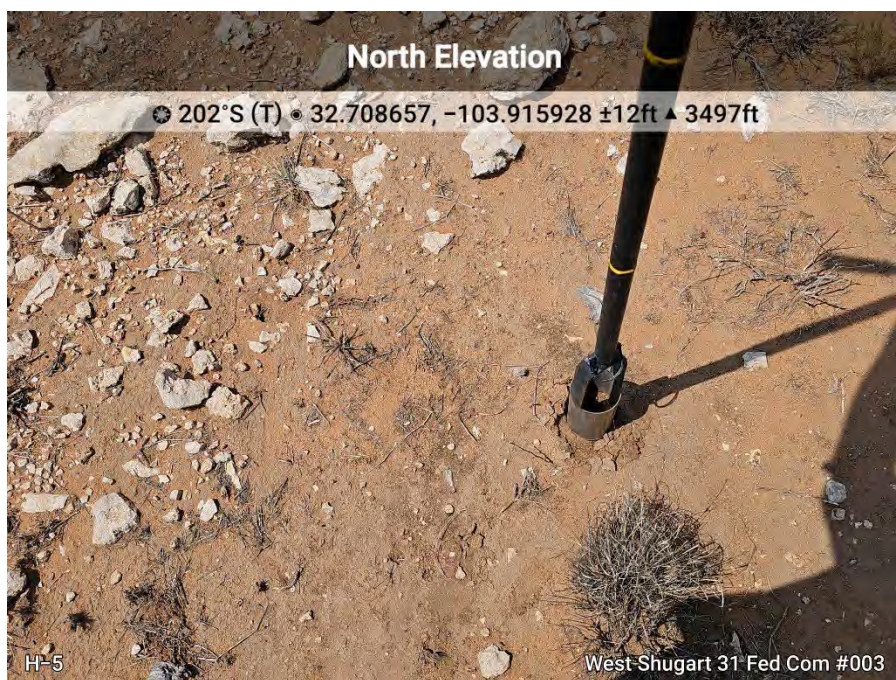


H-3

PHOTOGRAPHIC DOCUMENTATION

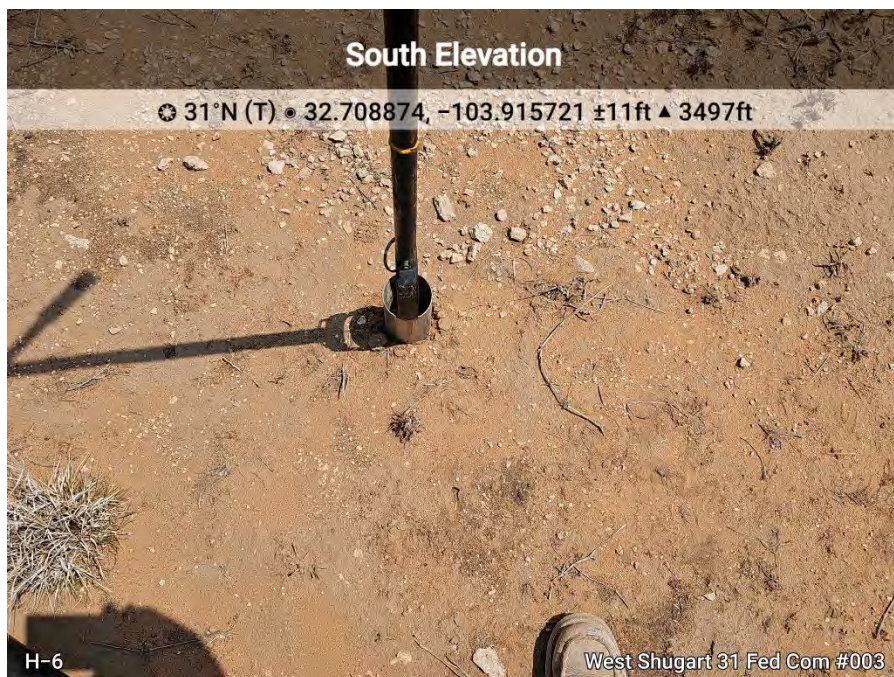


H-4



H-5

PHOTOGRAPHIC DOCUMENTATION



H-6



H-7

APPENDIX V

LABORATORY REPORT



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

July 31, 2024

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

RE: WEST SHUGART 31 FEDERAL #003 (SHUGART)

Enclosed are the results of analyses for samples received by the laboratory on 07/26/24 13:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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:	07/26/2024	Sampling Date:	07/26/2024
Reported:	07/31/2024	Sampling Type:	Soil
Project Name:	WEST SHUGART 31 FEDERAL #003 (SHL)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	COTERRA - EDDY COUNTY, NM		

Sample ID: S - 1 0-1' (H244472-01)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/29/2024	ND	1.96	98.1	2.00	2.95		
Toluene*	<0.050	0.050	07/29/2024	ND	1.89	94.5	2.00	3.27		
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	1.98	99.1	2.00	3.41		
Total Xylenes*	<0.150	0.150	07/29/2024	ND	5.81	96.9	6.00	3.37		
Total BTEX	<0.300	0.300	07/29/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	07/29/2024	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	07/29/2024	ND	187	93.3	200	6.50	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	190	95.1	200	4.55	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 70.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 57.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/26/2024	Sampling Date:	07/26/2024
Reported:	07/31/2024	Sampling Type:	Soil
Project Name:	WEST SHUGART 31 FEDERAL #003 (SHL)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	COTERRA - EDDY COUNTY, NM		

Sample ID: S - 1 2' (H244472-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/29/2024	ND	1.96	98.1	2.00	2.95		
Toluene*	<0.050	0.050	07/29/2024	ND	1.89	94.5	2.00	3.27		
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	1.98	99.1	2.00	3.41		
Total Xylenes*	<0.150	0.150	07/29/2024	ND	5.81	96.9	6.00	3.37		
Total BTEx	<0.300	0.300	07/29/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	07/29/2024	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	07/29/2024	ND	187	93.3	200	6.50	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	190	95.1	200	4.55	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 91.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/26/2024	Sampling Date:	07/26/2024
Reported:	07/31/2024	Sampling Type:	Soil
Project Name:	WEST SHUGART 31 FEDERAL #003 (SHL)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	COTERRA - EDDY COUNTY, NM		

Sample ID: S - 1 3' (H244472-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/29/2024	ND	1.89	94.3	2.00	0.468		
Toluene*	<0.050	0.050	07/29/2024	ND	1.86	93.2	2.00	0.891		
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	1.96	97.8	2.00	1.13		
Total Xylenes*	<0.150	0.150	07/29/2024	ND	5.77	96.1	6.00	1.10		
Total BTEx	<0.300	0.300	07/29/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	07/29/2024	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	07/29/2024	ND	187	93.3	200	6.50	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	190	95.1	200	4.55	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 95.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/26/2024	Sampling Date:	07/26/2024
Reported:	07/31/2024	Sampling Type:	Soil
Project Name:	WEST SHUGART 31 FEDERAL #003 (SHL)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	COTERRA - EDDY COUNTY, NM		

Sample ID: S - 1 4' (H244472-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/29/2024	ND	1.89	94.3	2.00	0.468		
Toluene*	<0.050	0.050	07/29/2024	ND	1.86	93.2	2.00	0.891		
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	1.96	97.8	2.00	1.13		
Total Xylenes*	<0.150	0.150	07/29/2024	ND	5.77	96.1	6.00	1.10		
Total BTEx	<0.300	0.300	07/29/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	07/29/2024	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	07/29/2024	ND	187	93.3	200	6.50	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	190	95.1	200	4.55	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 80.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/26/2024	Sampling Date:	07/26/2024
Reported:	07/31/2024	Sampling Type:	Soil
Project Name:	WEST SHUGART 31 FEDERAL #003 (SHL)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	COTERRA - EDDY COUNTY, NM		

Sample ID: BH - 1 0-1' (H244472-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/29/2024	ND	1.89	94.3	2.00	0.468		
Toluene*	<0.050	0.050	07/29/2024	ND	1.86	93.2	2.00	0.891		
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	1.96	97.8	2.00	1.13		
Total Xylenes*	<0.150	0.150	07/29/2024	ND	5.77	96.1	6.00	1.10		
Total BTEx	<0.300	0.300	07/29/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.0 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/29/2024	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	07/29/2024	ND	187	93.3	200	6.50	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	190	95.1	200	4.55	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 86.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.6 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/26/2024	Sampling Date:	07/26/2024
Reported:	07/31/2024	Sampling Type:	Soil
Project Name:	WEST SHUGART 31 FEDERAL #003 (SHL)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	COTERRA - EDDY COUNTY, NM		

Sample ID: BH - 1 2' (H244472-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/29/2024	ND	1.89	94.3	2.00	0.468		
Toluene*	<0.050	0.050	07/29/2024	ND	1.86	93.2	2.00	0.891		
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	1.96	97.8	2.00	1.13		
Total Xylenes*	<0.150	0.150	07/29/2024	ND	5.77	96.1	6.00	1.10		
Total BTEx	<0.300	0.300	07/29/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	07/29/2024	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	07/29/2024	ND	187	93.3	200	6.50	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	190	95.1	200	4.55	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 92.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/26/2024	Sampling Date:	07/26/2024
Reported:	07/31/2024	Sampling Type:	Soil
Project Name:	WEST SHUGART 31 FEDERAL #003 (SHL)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	COTERRA - EDDY COUNTY, NM		

Sample ID: BH - 1 3' (H244472-07)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/29/2024	ND	1.89	94.3	2.00	0.468		
Toluene*	<0.050	0.050	07/29/2024	ND	1.86	93.2	2.00	0.891		
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	1.96	97.8	2.00	1.13		
Total Xylenes*	<0.150	0.150	07/29/2024	ND	5.77	96.1	6.00	1.10		
Total BTEx	<0.300	0.300	07/29/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	07/29/2024	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	07/29/2024	ND	187	93.3	200	6.50	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	190	95.1	200	4.55	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 86.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/26/2024	Sampling Date:	07/26/2024
Reported:	07/31/2024	Sampling Type:	Soil
Project Name:	WEST SHUGART 31 FEDERAL #003 (SHL)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	COTERRA - EDDY COUNTY, NM		

Sample ID: BH - 1 4' (H244472-08)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/29/2024	ND	1.89	94.3	2.00	0.468		
Toluene*	<0.050	0.050	07/29/2024	ND	1.86	93.2	2.00	0.891		
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	1.96	97.8	2.00	1.13		
Total Xylenes*	<0.150	0.150	07/29/2024	ND	5.77	96.1	6.00	1.10		
Total BTEx	<0.300	0.300	07/29/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	07/30/2024	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	07/29/2024	ND	187	93.3	200	6.50	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	190	95.1	200	4.55	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/26/2024	Sampling Date:	07/26/2024
Reported:	07/31/2024	Sampling Type:	Soil
Project Name:	WEST SHUGART 31 FEDERAL #003 (SHL)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	COTERRA - EDDY COUNTY, NM		

Sample ID: BH - 2 0-1' (H244472-09)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/29/2024	ND	1.89	94.3	2.00	0.468		
Toluene*	<0.050	0.050	07/29/2024	ND	1.86	93.2	2.00	0.891		
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	1.96	97.8	2.00	1.13		
Total Xylenes*	<0.150	0.150	07/29/2024	ND	5.77	96.1	6.00	1.10		
Total BTEX	<0.300	0.300	07/29/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	07/30/2024	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	07/29/2024	ND	187	93.3	200	6.50	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	190	95.1	200	4.55	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 85.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/26/2024	Sampling Date:	07/26/2024
Reported:	07/31/2024	Sampling Type:	Soil
Project Name:	WEST SHUGART 31 FEDERAL #003 (SHL)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	COTERRA - EDDY COUNTY, NM		

Sample ID: BH - 2 2' (H244472-10)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/29/2024	ND	1.89	94.3	2.00	0.468		
Toluene*	<0.050	0.050	07/29/2024	ND	1.86	93.2	2.00	0.891		
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	1.96	97.8	2.00	1.13		
Total Xylenes*	<0.150	0.150	07/29/2024	ND	5.77	96.1	6.00	1.10		
Total BTEx	<0.300	0.300	07/29/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	07/30/2024	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	07/29/2024	ND	187	93.3	200	6.50	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	190	95.1	200	4.55	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/26/2024	Sampling Date:	07/26/2024
Reported:	07/31/2024	Sampling Type:	Soil
Project Name:	WEST SHUGART 31 FEDERAL #003 (SHL)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	COTERRA - EDDY COUNTY, NM		

Sample ID: BH - 2 3' (H244472-11)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/29/2024	ND	1.89	94.3	2.00	0.468		
Toluene*	<0.050	0.050	07/29/2024	ND	1.86	93.2	2.00	0.891		
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	1.96	97.8	2.00	1.13		
Total Xylenes*	<0.150	0.150	07/29/2024	ND	5.77	96.1	6.00	1.10		
Total BTEx	<0.300	0.300	07/29/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	07/30/2024	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	07/29/2024	ND	187	93.3	200	6.50	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	190	95.1	200	4.55	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 79.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/26/2024	Sampling Date:	07/26/2024
Reported:	07/31/2024	Sampling Type:	Soil
Project Name:	WEST SHUGART 31 FEDERAL #003 (SHL)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	COTERRA - EDDY COUNTY, NM		

Sample ID: BH - 2 4' (H244472-12)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/29/2024	ND	1.89	94.3	2.00	0.468		
Toluene*	<0.050	0.050	07/29/2024	ND	1.86	93.2	2.00	0.891		
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	1.96	97.8	2.00	1.13		
Total Xylenes*	<0.150	0.150	07/29/2024	ND	5.77	96.1	6.00	1.10		
Total BTEx	<0.300	0.300	07/29/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	07/30/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/30/2024	ND	187	93.3	200	6.50	
DRO >C10-C28*	<10.0	10.0	07/30/2024	ND	190	95.1	200	4.55	
EXT DRO >C28-C36	<10.0	10.0	07/30/2024	ND					

Surrogate: 1-Chlorooctane 91.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/26/2024	Sampling Date:	07/26/2024
Reported:	07/31/2024	Sampling Type:	Soil
Project Name:	WEST SHUGART 31 FEDERAL #003 (SHL)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	COTERRA - EDDY COUNTY, NM		

Sample ID: BH - 3 0-1' (H244472-13)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/29/2024	ND	1.89	94.3	2.00	0.468		
Toluene*	<0.050	0.050	07/29/2024	ND	1.86	93.2	2.00	0.891		
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	1.96	97.8	2.00	1.13		
Total Xylenes*	<0.150	0.150	07/29/2024	ND	5.77	96.1	6.00	1.10		
Total BTX	<0.300	0.300	07/29/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	07/30/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	193	96.5	200	1.47	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	191	95.7	200	6.29	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 84.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/26/2024	Sampling Date:	07/26/2024
Reported:	07/31/2024	Sampling Type:	Soil
Project Name:	WEST SHUGART 31 FEDERAL #003 (SHL)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	COTERRA - EDDY COUNTY, NM		

Sample ID: BH - 3 2' (H244472-14)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/29/2024	ND	1.89	94.3	2.00	0.468		
Toluene*	<0.050	0.050	07/29/2024	ND	1.86	93.2	2.00	0.891		
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	1.96	97.8	2.00	1.13		
Total Xylenes*	<0.150	0.150	07/29/2024	ND	5.77	96.1	6.00	1.10		
Total BTEX	<0.300	0.300	07/29/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	07/30/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	193	96.5	200	1.47	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	191	95.7	200	6.29	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 65.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/26/2024	Sampling Date:	07/26/2024
Reported:	07/31/2024	Sampling Type:	Soil
Project Name:	WEST SHUGART 31 FEDERAL #003 (SHL)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	COTERRA - EDDY COUNTY, NM		

Sample ID: BH - 3 3' (H244472-15)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/29/2024	ND	1.89	94.3	2.00	0.468		
Toluene*	<0.050	0.050	07/29/2024	ND	1.86	93.2	2.00	0.891		
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	1.96	97.8	2.00	1.13		
Total Xylenes*	<0.150	0.150	07/29/2024	ND	5.77	96.1	6.00	1.10		
Total BTEx	<0.300	0.300	07/29/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	07/30/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	193	96.5	200	1.47	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	191	95.7	200	6.29	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 79.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/26/2024	Sampling Date:	07/26/2024
Reported:	07/31/2024	Sampling Type:	Soil
Project Name:	WEST SHUGART 31 FEDERAL #003 (SHL)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	COTERRA - EDDY COUNTY, NM		

Sample ID: BH - 3 4' (H244472-16)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/29/2024	ND	1.89	94.3	2.00	0.468	
Toluene*	<0.050	0.050	07/29/2024	ND	1.86	93.2	2.00	0.891	
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	1.96	97.8	2.00	1.13	
Total Xylenes*	<0.150	0.150	07/29/2024	ND	5.77	96.1	6.00	1.10	
Total BTEx	<0.300	0.300	07/29/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/30/2024	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	193	96.5	200	1.47	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	191	95.7	200	6.29	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 99.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/26/2024	Sampling Date:	07/26/2024
Reported:	07/31/2024	Sampling Type:	Soil
Project Name:	WEST SHUGART 31 FEDERAL #003 (SHL)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	COTERRA - EDDY COUNTY, NM		

Sample ID: BH - 4 0-1' (H244472-17)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/29/2024	ND	1.89	94.3	2.00	0.468		
Toluene*	<0.050	0.050	07/29/2024	ND	1.86	93.2	2.00	0.891		
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	1.96	97.8	2.00	1.13		
Total Xylenes*	<0.150	0.150	07/29/2024	ND	5.77	96.1	6.00	1.10		
Total BTEx	<0.300	0.300	07/29/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	07/30/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	193	96.5	200	1.47	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	191	95.7	200	6.29	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 94.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/26/2024	Sampling Date:	07/26/2024
Reported:	07/31/2024	Sampling Type:	Soil
Project Name:	WEST SHUGART 31 FEDERAL #003 (SHL)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	COTERRA - EDDY COUNTY, NM		

Sample ID: BH - 4 2' (H244472-18)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/29/2024	ND	1.89	94.3	2.00	0.468		
Toluene*	<0.050	0.050	07/29/2024	ND	1.86	93.2	2.00	0.891		
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	1.96	97.8	2.00	1.13		
Total Xylenes*	<0.150	0.150	07/29/2024	ND	5.77	96.1	6.00	1.10		
Total BTEx	<0.300	0.300	07/29/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	07/30/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	193	96.5	200	1.47	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	191	95.7	200	6.29	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 94.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/26/2024	Sampling Date:	07/26/2024
Reported:	07/31/2024	Sampling Type:	Soil
Project Name:	WEST SHUGART 31 FEDERAL #003 (SHL)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	COTERRA - EDDY COUNTY, NM		

Sample ID: BH - 4 3' (H244472-19)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/29/2024	ND	1.89	94.3	2.00	0.468		
Toluene*	<0.050	0.050	07/29/2024	ND	1.86	93.2	2.00	0.891		
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	1.96	97.8	2.00	1.13		
Total Xylenes*	<0.150	0.150	07/29/2024	ND	5.77	96.1	6.00	1.10		
Total BTEX	<0.300	0.300	07/29/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	07/30/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	193	96.5	200	1.47	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	191	95.7	200	6.29	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 94.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/26/2024	Sampling Date:	07/26/2024
Reported:	07/31/2024	Sampling Type:	Soil
Project Name:	WEST SHUGART 31 FEDERAL #003 (SHL)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	COTERRA - EDDY COUNTY, NM		

Sample ID: BH - 4 4' (H244472-20)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/30/2024	ND	1.89	94.3	2.00	0.468		
Toluene*	<0.050	0.050	07/30/2024	ND	1.86	93.2	2.00	0.891		
Ethylbenzene*	<0.050	0.050	07/30/2024	ND	1.96	97.8	2.00	1.13		
Total Xylenes*	<0.150	0.150	07/30/2024	ND	5.77	96.1	6.00	1.10		
Total BTX	<0.300	0.300	07/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	07/30/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	193	96.5	200	1.47	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	191	95.7	200	6.29	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 87.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/26/2024	Sampling Date:	07/26/2024
Reported:	07/31/2024	Sampling Type:	Soil
Project Name:	WEST SHUGART 31 FEDERAL #003 (SHL)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	COTERRA - EDDY COUNTY, NM		

Sample ID: BH - 5 0-1' (H244472-21)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/30/2024	ND	1.89	94.3	2.00	0.468		
Toluene*	<0.050	0.050	07/30/2024	ND	1.86	93.2	2.00	0.891		
Ethylbenzene*	<0.050	0.050	07/30/2024	ND	1.96	97.8	2.00	1.13		
Total Xylenes*	<0.150	0.150	07/30/2024	ND	5.77	96.1	6.00	1.10		
Total BTEX	<0.300	0.300	07/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	07/30/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	193	96.5	200	1.47	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	191	95.7	200	6.29	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 82.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/26/2024	Sampling Date:	07/26/2024
Reported:	07/31/2024	Sampling Type:	Soil
Project Name:	WEST SHUGART 31 FEDERAL #003 (SHL)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	COTERRA - EDDY COUNTY, NM		

Sample ID: BH - 5 2' (H244472-22)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/30/2024	ND	1.89	94.3	2.00	0.468		
Toluene*	<0.050	0.050	07/30/2024	ND	1.86	93.2	2.00	0.891		
Ethylbenzene*	<0.050	0.050	07/30/2024	ND	1.96	97.8	2.00	1.13		
Total Xylenes*	<0.150	0.150	07/30/2024	ND	5.77	96.1	6.00	1.10		
Total BTEX	<0.300	0.300	07/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	07/30/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	193	96.5	200	1.47	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	191	95.7	200	6.29	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 78.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/26/2024	Sampling Date:	07/26/2024
Reported:	07/31/2024	Sampling Type:	Soil
Project Name:	WEST SHUGART 31 FEDERAL #003 (SHL)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	COTERRA - EDDY COUNTY, NM		

Sample ID: BH - 5 3' (H244472-23)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/29/2024	ND	2.12	106	2.00	3.61	
Toluene*	<0.050	0.050	07/29/2024	ND	2.17	108	2.00	5.66	QR-03
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	2.30	115	2.00	4.70	QM-07, QR-03
Total Xylenes*	<0.150	0.150	07/29/2024	ND	6.87	115	6.00	4.36	QM-07, QR-03
Total BTX	<0.300	0.300	07/29/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	07/30/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	193	96.5	200	1.47	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	191	95.7	200	6.29	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 80.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/26/2024	Sampling Date:	07/26/2024
Reported:	07/31/2024	Sampling Type:	Soil
Project Name:	WEST SHUGART 31 FEDERAL #003 (SHL)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	COTERRA - EDDY COUNTY, NM		

Sample ID: BH - 5 4' (H244472-24)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/29/2024	ND	2.12	106	2.00	3.61	
Toluene*	<0.050	0.050	07/29/2024	ND	2.17	108	2.00	5.66	
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	2.30	115	2.00	4.70	
Total Xylenes*	<0.150	0.150	07/29/2024	ND	6.87	115	6.00	4.36	
Total BTEX	<0.300	0.300	07/29/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	07/30/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	193	96.5	200	1.47	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	191	95.7	200	6.29	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 85.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/26/2024	Sampling Date:	07/26/2024
Reported:	07/31/2024	Sampling Type:	Soil
Project Name:	WEST SHUGART 31 FEDERAL #003 (SHL)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	COTERRA - EDDY COUNTY, NM		

Sample ID: BH - 6 0-1' (H244472-25)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/29/2024	ND	2.12	106	2.00	3.61		
Toluene*	<0.050	0.050	07/29/2024	ND	2.17	108	2.00	5.66		
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	2.30	115	2.00	4.70		
Total Xylenes*	<0.150	0.150	07/29/2024	ND	6.87	115	6.00	4.36		
Total BTEX	<0.300	0.300	07/29/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	07/30/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	193	96.5	200	1.47	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	191	95.7	200	6.29	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 93.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/26/2024	Sampling Date:	07/26/2024
Reported:	07/31/2024	Sampling Type:	Soil
Project Name:	WEST SHUGART 31 FEDERAL #003 (SHL)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	COTERRA - EDDY COUNTY, NM		

Sample ID: BH - 6 2' (H244472-26)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/29/2024	ND	2.12	106	2.00	3.61		
Toluene*	<0.050	0.050	07/29/2024	ND	2.17	108	2.00	5.66		
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	2.30	115	2.00	4.70		
Total Xylenes*	<0.150	0.150	07/29/2024	ND	6.87	115	6.00	4.36		
Total BTEx	<0.300	0.300	07/29/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	07/30/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	193	96.5	200	1.47	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	191	95.7	200	6.29	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 88.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/26/2024	Sampling Date:	07/26/2024
Reported:	07/31/2024	Sampling Type:	Soil
Project Name:	WEST SHUGART 31 FEDERAL #003 (SHL)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	COTERRA - EDDY COUNTY, NM		

Sample ID: BH - 6 3' (H244472-27)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/29/2024	ND	2.12	106	2.00	3.61		
Toluene*	<0.050	0.050	07/29/2024	ND	2.17	108	2.00	5.66		
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	2.30	115	2.00	4.70		
Total Xylenes*	<0.150	0.150	07/29/2024	ND	6.87	115	6.00	4.36		
Total BTEX	<0.300	0.300	07/29/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	07/30/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	193	96.5	200	1.47	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	191	95.7	200	6.29	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 79.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/26/2024	Sampling Date:	07/26/2024
Reported:	07/31/2024	Sampling Type:	Soil
Project Name:	WEST SHUGART 31 FEDERAL #003 (SHL)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	COTERRA - EDDY COUNTY, NM		

Sample ID: BH - 6 4' (H244472-28)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/29/2024	ND	2.12	106	2.00	3.61		
Toluene*	<0.050	0.050	07/29/2024	ND	2.17	108	2.00	5.66		
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	2.30	115	2.00	4.70		
Total Xylenes*	<0.150	0.150	07/29/2024	ND	6.87	115	6.00	4.36		
Total BTEX	<0.300	0.300	07/29/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	07/30/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	193	96.5	200	1.47	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	191	95.7	200	6.29	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 90.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/26/2024	Sampling Date:	07/26/2024
Reported:	07/31/2024	Sampling Type:	Soil
Project Name:	WEST SHUGART 31 FEDERAL #003 (SHL)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	COTERRA - EDDY COUNTY, NM		

Sample ID: H - 1 0-1' (H244472-29)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/29/2024	ND	2.12	106	2.00	3.61		
Toluene*	<0.050	0.050	07/29/2024	ND	2.17	108	2.00	5.66		
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	2.30	115	2.00	4.70		
Total Xylenes*	<0.150	0.150	07/29/2024	ND	6.87	115	6.00	4.36		
Total BTEx	<0.300	0.300	07/29/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/30/2024	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	193	96.5	200	1.47	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	191	95.7	200	6.29	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 96.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/26/2024	Sampling Date:	07/26/2024
Reported:	07/31/2024	Sampling Type:	Soil
Project Name:	WEST SHUGART 31 FEDERAL #003 (SHL)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	COTERRA - EDDY COUNTY, NM		

Sample ID: H - 2 0-1' (H244472-30)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/29/2024	ND	2.12	106	2.00	3.61	
Toluene*	<0.050	0.050	07/29/2024	ND	2.17	108	2.00	5.66	
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	2.30	115	2.00	4.70	
Total Xylenes*	<0.150	0.150	07/29/2024	ND	6.87	115	6.00	4.36	
Total BTEX	<0.300	0.300	07/29/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	07/30/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	193	96.5	200	1.47	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	191	95.7	200	6.29	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 94.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/26/2024	Sampling Date:	07/26/2024
Reported:	07/31/2024	Sampling Type:	Soil
Project Name:	WEST SHUGART 31 FEDERAL #003 (SHL)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	COTERRA - EDDY COUNTY, NM		

Sample ID: H - 3 0-1' (H244472-31)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/29/2024	ND	2.12	106	2.00	3.61	
Toluene*	<0.050	0.050	07/29/2024	ND	2.17	108	2.00	5.66	
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	2.30	115	2.00	4.70	
Total Xylenes*	<0.150	0.150	07/29/2024	ND	6.87	115	6.00	4.36	
Total BTEX	<0.300	0.300	07/29/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	07/30/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	193	96.5	200	1.47	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	191	95.7	200	6.29	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 79.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.0 % 49.1-148

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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:	07/26/2024	Sampling Date:	07/26/2024
Reported:	07/31/2024	Sampling Type:	Soil
Project Name:	WEST SHUGART 31 FEDERAL #003 (SHL)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	COTERRA - EDDY COUNTY, NM		

Sample ID: H - 4 0-1' (H244472-32)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/29/2024	ND	2.12	106	2.00	3.61		
Toluene*	<0.050	0.050	07/29/2024	ND	2.17	108	2.00	5.66		
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	2.30	115	2.00	4.70		
Total Xylenes*	<0.150	0.150	07/29/2024	ND	6.87	115	6.00	4.36		
Total BTX	<0.300	0.300	07/29/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	07/30/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	193	96.5	200	1.47	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	191	95.7	200	6.29	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 76.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.0 % 49.1-148

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Analytical Results For:

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

Received:	07/26/2024	Sampling Date:	07/26/2024
Reported:	07/31/2024	Sampling Type:	Soil
Project Name:	WEST SHUGART 31 FEDERAL #003 (SHL)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	COTERRA - EDDY COUNTY, NM		

Sample ID: H - 5 0-1' (H244472-33)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/29/2024	ND	2.12	106	2.00	3.61	
Toluene*	<0.050	0.050	07/29/2024	ND	2.17	108	2.00	5.66	
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	2.30	115	2.00	4.70	
Total Xylenes*	<0.150	0.150	07/29/2024	ND	6.87	115	6.00	4.36	
Total BTX	<0.300	0.300	07/29/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/30/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	187	93.7	200	1.33	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	198	99.1	200	2.21	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 78.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.7 % 49.1-148

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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:	07/26/2024	Sampling Date:	07/26/2024
Reported:	07/31/2024	Sampling Type:	Soil
Project Name:	WEST SHUGART 31 FEDERAL #003 (SHL)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	COTERRA - EDDY COUNTY, NM		

Sample ID: H - 6 0-1' (H244472-34)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/29/2024	ND	2.12	106	2.00	3.61	
Toluene*	<0.050	0.050	07/29/2024	ND	2.17	108	2.00	5.66	
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	2.30	115	2.00	4.70	
Total Xylenes*	<0.150	0.150	07/29/2024	ND	6.87	115	6.00	4.36	
Total BTEX	<0.300	0.300	07/29/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	07/30/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	187	93.7	200	1.33	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	198	99.1	200	2.21	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 90.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.6 % 49.1-148

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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:	07/26/2024	Sampling Date:	07/26/2024
Reported:	07/31/2024	Sampling Type:	Soil
Project Name:	WEST SHUGART 31 FEDERAL #003 (SHL)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	COTERRA - EDDY COUNTY, NM		

Sample ID: H - 7 0-1' (H244472-35)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/30/2024	ND	2.12	106	2.00	3.61		
Toluene*	<0.050	0.050	07/30/2024	ND	2.17	108	2.00	5.66		
Ethylbenzene*	<0.050	0.050	07/30/2024	ND	2.30	115	2.00	4.70		
Total Xylenes*	<0.150	0.150	07/30/2024	ND	6.87	115	6.00	4.36		
Total BTEx	<0.300	0.300	07/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	07/30/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	187	93.7	200	1.33	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	198	99.1	200	2.21	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					

Surrogate: 1-Chlorooctane 86.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.6 % 49.1-148

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Notes and Definitions

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

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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]

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
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[illegible]

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: H&R Enterprises Project Manager: Michael Collier Address: City: State: Zip: Phone #: Fax #: Project #: Project Owner: Cimarex Energy Project Name: West Shugart 31 Federal #003 (Shugart) Project Location: Eddy County, NM Sampler Name: M. Collier				P.O. #: Company: Cimarex Energy Attn: Laci Luig Address: City: State: Zip: Phone #: Fax #: Matrix: PRESERV. SAMPLING				BILL TO				ANALYSIS REQUEST			
(575) 393-2326 FAX (575) 393-2416															
Relinquished By: <u>M. Collier</u> Date: <u>7-24-24</u> Received By: <u>Stedriguey</u>															
Relinquished By: _____ Date: _____ Received By: _____															
Delivered By: (Circle One) Observed Temp. °C: <u>19.1</u> Sample Condition: <u>OK</u> CHECKED BY: (Initials) <u>SK</u>															
Sampler - UPS - Bus - Other: _____ Corrected Temp. °C: _____ Cool <input type="checkbox"/> Infect <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No															
Thermometer ID: <u>4444</u> # <u>140</u> Correction Factor: <u>0.0</u> °C <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No															
REMARKS: Pg 3 of 4															
Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: _____															
All Results are emailed. Please provide Email address: _____															

Well	Depth	Time	Temp	Pressure	Flow	Notes
30	H-2 0-1'					
31	BH-5 0-1'					
32	BH-5 2'					
33	BH-5 3'					
34	BH-5 4'					
35	BH-6 0-1'					
36	BH-6 2'					
37	BH-6 3'					
38	BH-6 4'					
39	H-1 0-1'					

Well	Depth	Time	Temp	Pressure	Flow	Notes
30	H-2 0-1'					
31	BH-5 0-1'					
32	BH-5 2'					
33	BH-5 3'					
34	BH-5 4'					
35	BH-6 0-1'					
36	BH-6 2'					
37	BH-6 3'					
38	BH-6 4'					
39	H-1 0-1'					

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: H&R Enterprises

Project Manager: Michael Collier

Address:

City: State: Zip:

Phone #: Fax #:

Project #:

Project Name: West Shugart 31 Federal #003 (Shugart)

Project Location: Eddy County, NM

Sample Name: M. Collier

Lab I.D.

BILL TO

P.O. #:

Company: Cimarex Energy

Attn: Laci Luit

Address:

City: State: Zip:

Phone #: Fax #:

Relinquished By: M. Collier

Relinquished Date: 2-24-24

Relinquished Time: 1330

Relinquished By: Shodriq

Relinquished Date: 2-24-24

Relinquished Time: 1330

Relinquished By: Shodriq

Relinquished Date: 2-24-24

Relinquished Time: 1330

Received By: Shodriq

Received Date: 2-24-24

Received Time: 1330

Received By: Shodriq

Received Date: 2-24-24

Received Time: 1330

Received By: Shodriq

Received Date: 2-24-24

Received Time: 1330

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Observed Temp. °C: 19.0

Corrected Temp. °C:

Sample Condition:

Checked By: SR

Thermometer ID: #140

Correction Factor: -0.1

Verbal Result: ☐ Yes ☐ No

Add'l Phone #:

REMARKS: Pg 4 of 4

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Page 41 of 41

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS

Action 438139

QUESTIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 438139
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nMLB1215858916
Incident Name	NMLB1215858916 WEST SHUGART 31 FEDERAL COM #003 @ 30-015-37350
Incident Type	Oil Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-015-37350] WEST SHUGART 31 FEDERAL COM #003

Location of Release Source

Please answer all the questions in this group.

Site Name	WEST SHUGART 31 FEDERAL COM #003
Date Release Discovered	05/11/2012
Surface Owner	Federal

Incident Details

Please answer all the questions in this group.

Incident Type	Oil Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

Crude Oil Released (bbls) Details	Cause: Equipment Failure Valve Crude Oil Released: 6 BBL Recovered: 0 BBL Lost: 6 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	Not answered.
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 438139

QUESTIONS (continued)

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 438139
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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.

I hereby agree and sign off to the above statement	Name: Ashton Thielke Title: EHS Specialist Email: Ashton.Thielke@coterra.com Date: 03/03/2025
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QUESTIONS, Page 3

Action 438139

QUESTIONS (continued)

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 438139
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS**Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). 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 in feet below ground surface (ft bgs)	Between 75 and 100 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Between 1 and 5 (mi.)
An (non-karst) unstable area	Between 1000 (ft.) and ½ (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride (EPA 300.0 or SM4500 Cl B)	112
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0
GRO+DRO (EPA SW-846 Method 8015M)	0
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	05/11/2012
On what date will (or did) the final sampling or liner inspection occur	07/26/2024
On what date will (or was) the remediation complete(d)	07/26/2024
What is the estimated surface area (in square feet) that will be reclaimed	15000
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	0
What is the estimated volume (in cubic yards) that will be remediated	0

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 4

Action 438139

QUESTIONS (continued)

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 438139
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	<i>Not answered.</i>
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	<i>Not answered.</i>
(In Situ) Soil Vapor Extraction	<i>Not answered.</i>
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	<i>Not answered.</i>
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	<i>Not answered.</i>
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	<i>Not answered.</i>
Ground Water Abatement pursuant to 19.15.30 NMAC	<i>Not answered.</i>
OTHER (Non-listed remedial process)	Yes
Other Non-listed Remedial Process. Please specify	Due to this being a historical release, it was not known if any remediation took place onsite. Following a site assessment, it was determined that no remediation needs to take place onsite as all soil samples resulted in concentrations less than Table 1 NMAV 19.15.29.12/13.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
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.	
I hereby agree and sign off to the above statement	Name: Ashton Thielke Title: EHS Specialist Email: Ashton.Thielke@coterra.com Date: 03/03/2025
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 438139

QUESTIONS (continued)

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 438139
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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Action 438139

QUESTIONS (continued)

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 438139
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	366691
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	07/26/2024
What was the (estimated) number of samples that were to be gathered	8
What was the sampling surface area in square feet	1000

Remediation Closure Request	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	0
What was the total volume (cubic yards) remediated	0
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	0
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	<p>Due to this being a historical release, it was not known if any remediation took place onsite. Following a site assessment, it was determined that no remediation needs to take place onsite as all soil samples resulted in concentrations less than Table 1 NMAV 19.15.29.12/13. The pasture and well pad area will all be reclaimed and reseeded when the location is P/A'd. The Pasture shows native growth in vegetation, but will be reseeded again in the future.</p>
<p><i>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 (in .pdf format) 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.</i></p>	
<p>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.</p>	
I hereby agree and sign off to the above statement	<p>Name: Ashton Thielke Title: EHS Specialist Email: Ashton.Thielke@coterra.com Date: 03/03/2025</p>

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Action 438139

QUESTIONS (continued)

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
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	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 438139

CONDITIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 438139
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	This Remediation Closure Report is approved. Areas reasonably needed for production or subsequent drilling operations will need to be reclaimed and revegetated as soon as they are no longer reasonably needed. A report for reclamation and revegetation will need to be submitted and approved prior to this incident receiving the final status of "Restoration Complete".	6/12/2025