

MCollier@H-R Enterprises.com 575-909-0326

Remediation and Closure Report

West Shugart 31 Federal Com #003 Incident# nAPP2415731979 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

July 3, 2024

Mrs. Crisha Morgan **Bureau of Land Management** 620 E. Green St. Carlsbad, NM 88220

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

Subject: **Remediation 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 32.70919 North and -103.91561 West. Site plans are presented in Appendix 1.

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 Map, Appendix I).

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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 ⊠No Yes Within 300 feet of any continuously flowing watercourse or any other significant watercourse Yes No Within 200 feet of any lakebed, sinkhole, or a playa lake ⊠No Yes Within 300 feet from an occupied permanent residence, school, hospital, institution, or church ⊠No Within 500 feet of a spring or a private, domestic fresh water well Yes used by less than five households for domestic or stock watering purposes ⊠No Yes Within 1000 feet of any freshwater well or spring Yes ⊠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 Yes No Within 300 feet of a wetland No Yes Within the area overlying a subsurface mine Yes No Within an unstable area Yes \boxtimes No Within a 100-year floodplain

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

	Tak	ole I	
	Closure Criteria for Soil	s Impacted by a Release	
Minimum depth below any point within the horizontal boundary of the release to ground water less than 10,000 mg/I 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 June 04, 2024, it was discovered that a hole had developed in the buried flowline running from the wellhead to the separator causing the release of 11 barrels (bbls) of fluid onto the well pad. A total of 5 bbls of crude oil and 6 bbls of produced water were released with a total of 1 bbl of crude oil being recovered.

Remediation Activities

H&R mobilized personnel to begin remediation and sampling activities of the impacted area. Composite confirmation samples were collected from the bottom and sidewalls of the excavated area and transported to Cardinal Laboratory for analysis and the results of that analysis are presented in the table below. Sampling locations and excavation dimensions are illustrated on Confirmation Sample Map, Appendix I. Photographic documentation of the project is attached in Appendix IV. Complete laboratory reports 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 19.15.2 NMAC		teria 19.15.29	50 mg/kg	10 mg/kg		100 mg/kg		100 mg/kg	600 mg/kg
S-1	6/25/2024	2'	ND	ND	ND	42.1	ND	42.1	176
S-2	6/25/2024	2'	ND	ND	ND	23.9	ND	23.9	160
S-3	6/25/2024	2'	ND	ND	ND	37.7	ND	37.7	192
S-4	6/25/2024	2'	ND	ND	ND	49.4	ND	49.4	176
SW-1	6/25/2024	2'	ND	ND	ND	56.8	ND	56.8	208
SW-2	6/25/2024	2'	ND	ND	ND	62.9	12.1	75	208
SW-3	6/25/2024	2'	ND	ND	ND	65.3	13.2	78.5	192

ND = Analyte Not Detected S = Bottom Composite Sample SW = Sidewall Composite Sample

Based on the results of our remedial actions and confirmation sampling, all contaminated soil above closure criteria was removed and no further remedial actions are necessary.

Remedial Actions

- The impacted areas in the vicinity of sample points S-1 through S-4 were excavated to a total depth of 2-feet BGS.
- Composite confirmation samples were obtained from the bottom and sidewalls of the excavated area to verify that all contaminants above closure criteria had been removed.
- All the excavated material (approximately 40 cubic yards) was hauled to Lea Land, a NMOCD approved solid waste disposal facility.
- The excavated area on the well pad were backfilled with new caliche at depth and brought to grade, machine compacted and contoured to match the surrounding location.

H&R Enterprises, LLC (575) 909-0326 / (575) 605-3471

Released to Imaging: 7/8/2024 3:45:34 PM

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Closure

Based on the remedial actions taken and confirmation sampling 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

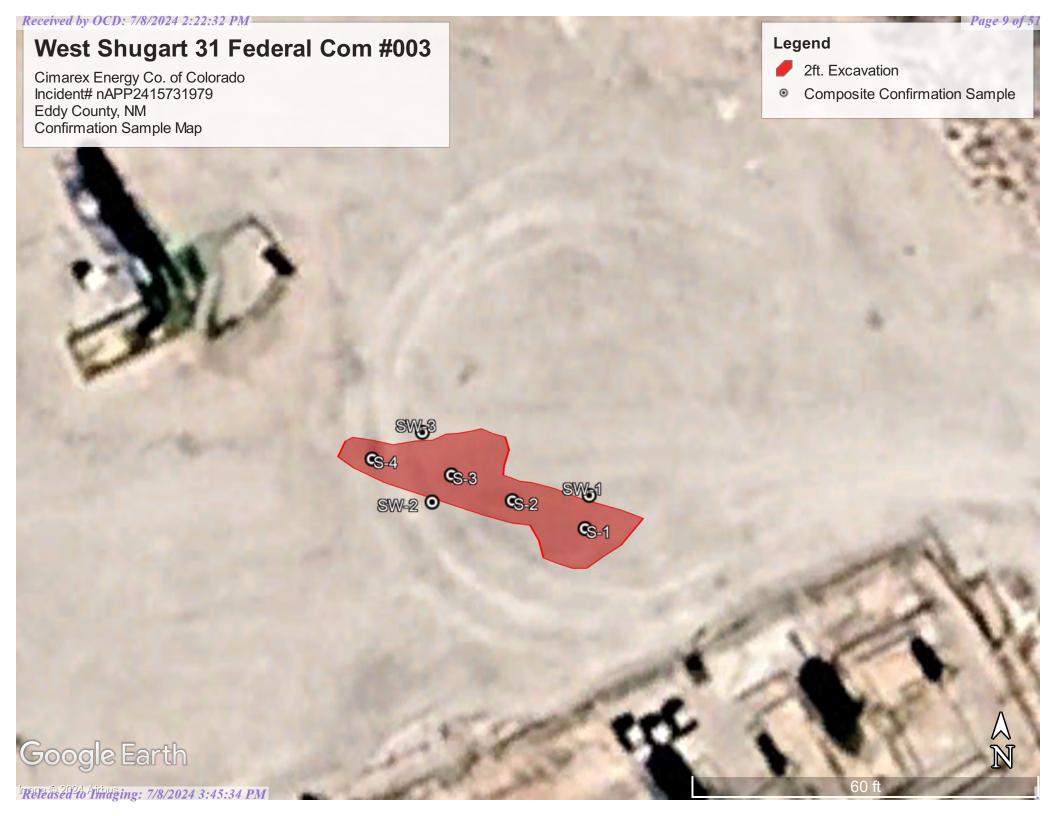
APPENDIX I

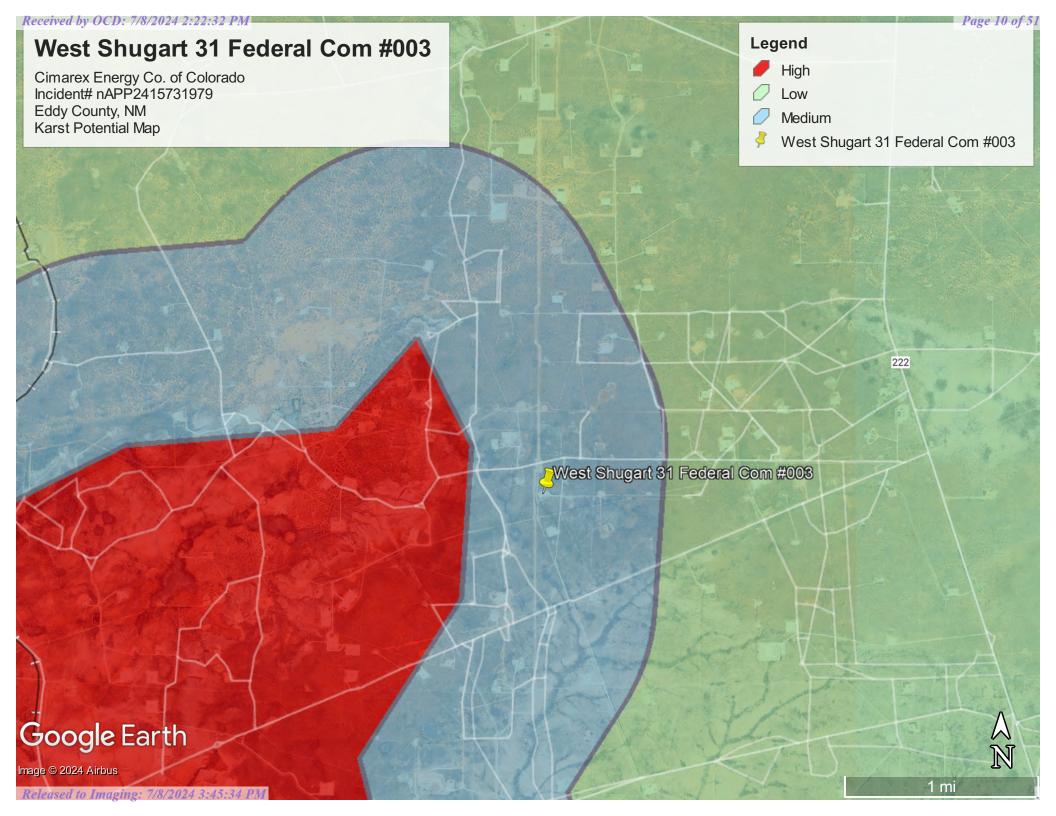
SITE MAPS

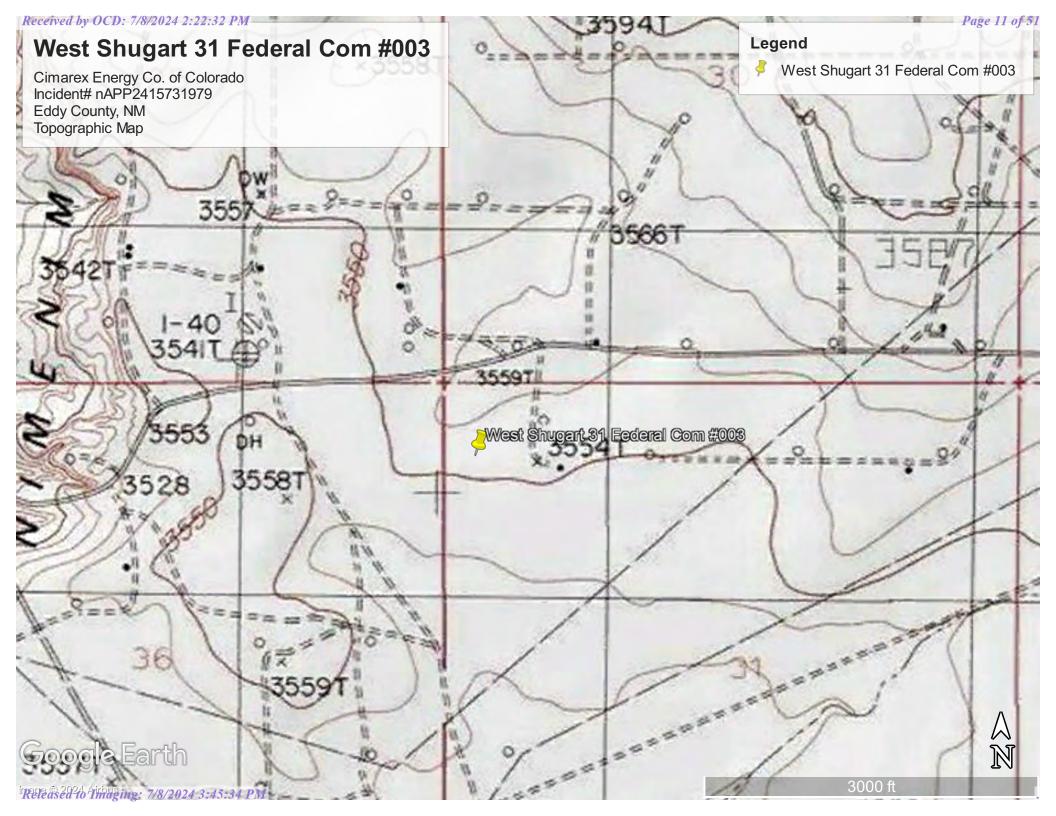
KARST MAP

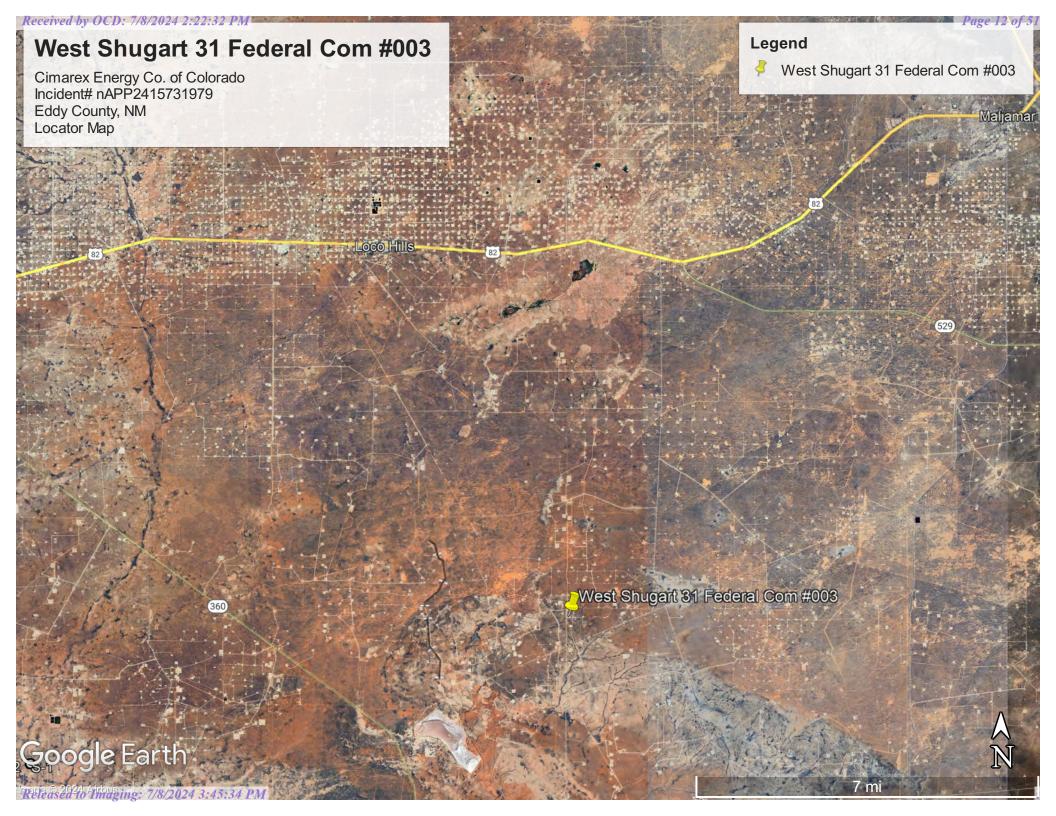
TOPOGRAPHIC MAP

LOCATOR MAP









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													
		Sub-		Q	Q	Q									Water
POD Number	Code	basin	County	64	16	4 S	Sec	Tws	Rng	X	Y	DistanceDep	thWellDep	thWater (Column
<u>CP 00767 POD1</u>		CP	ED		3	2	35	18S	30E	599300	3619158*	2333	500		
<u>CP 01907 POD1</u>		CP	ED	4	2	2	18	19S	31E	603017	3614737	5050			
<u>CP 00853 POD1</u>	O	CP	ED		2	4 2	28	18S	30E	596472	3620340*	5177	350		
<u>CP 00647 POD1</u>	O	CP	ED	4	2	2	15	19S	30E	598235	3614621*	5991	200	92	108
<u>CP 01985 POD1</u>		CP	ED	2	4	2	17	19S	31E	604666	3614438	5991	55		
<u>CP 01943 POD1</u>		CP	ED	1	3	1 2	20	19S	31E	603217	3612883	6892	55		
CP 00357 POD1		CP	ED	4	4	1 2	24	19S	30E	600667	3612631*	7013	630		
<u>CP 00357 POD2</u>		CP	ED	4	3	1 2	24	19S	30E	600265	3612627*	7081	630		
<u>CP 00722 POD2</u>		CP	ED	2	1	1 2	25	19S	30E	600276	3611620*	8071	350	65	285
<u>CP 01941 POD1</u>		CP	ED	3	2	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 2	28	19S	31E	604906	3610473*	9692	231		
RA 11590 POD4		RA	ED	4	1	1 3	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

92 feet

Minimum Depth:

54 feet

Maximum Depth:

Record Count: 14

Basin/County Search:

County: Eddy

UTMNAD83 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

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)

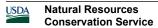
Interpretive groups

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

Received by OCD: 7/8/2024 2:22:32 PM National Flood Hazard Layer FIRMette





Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT Without Base Flood Elevation (BFE)

With BFE or Depth Zone AE, AO, AH, VE, AR SPECIAL FLOOD HAZARD AREAS Regulatory Floodway

> 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

OTHER AREAS OF FLOOD HAZARD

Area with Flood Risk due to Levee Zone D NO SCREEN Area of Minimal Flood Hazard Zone X

Effective LOMRs

OTHER AREAS Area of Undetermined Flood Hazard Zone D

- - - Channel, Culvert, or Storm Sewer **GENERAL** STRUCTURES | LILLIL Levee, Dike, or Floodwall

> 20.2 Cross Sections with 1% Annual Chance Water Surface Elevation **Coastal Transect** Base Flood Elevation Line (BFE)

Limit of Study **Jurisdiction Boundary** — --- Coastal Transect Baseline

OTHER **Profile Baseline FEATURES** Hydrographic Feature

Digital Data Available

No Digital Data Available MAP PANELS

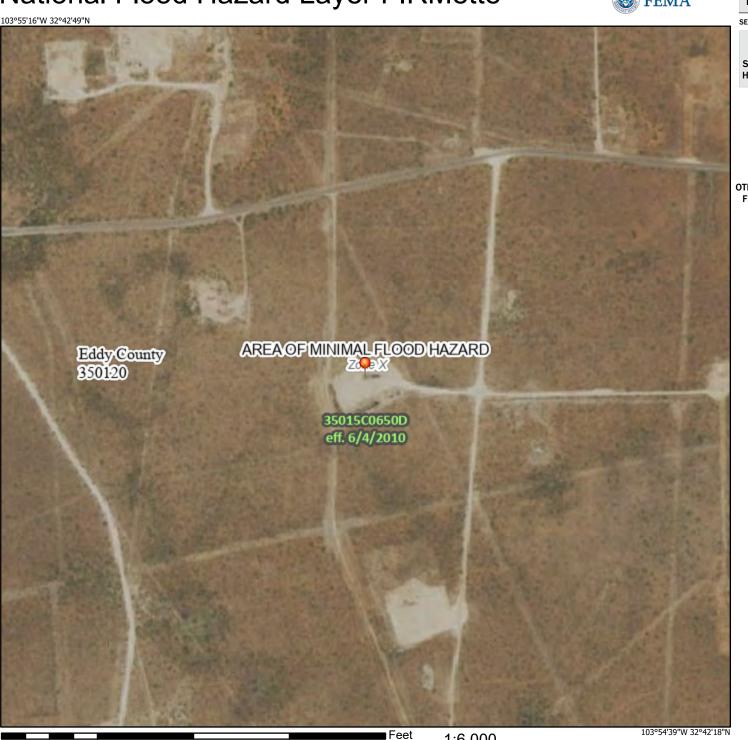
Unmapped

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 III

NMOCD CORRESPONDENCE

SIGN-IN HELP

Searches

Districts:

Counties:

Operator Data

Artesia

Eddy

Hearing Fee Application

OCD Permitting

Operator Data

Action Search Results

Action Status Item Details

[C-141] Initial C-141 (C-141-V-INITIAL) Application

Submission Information

Submission ID:

351061

[162683] CIMAREX ENERGY CO. OF COLORADO

Description: CIMAREX ENERGY CO. OF COLORADO [162683]

, West Shugart 31 Federal Com 3

, nAPP2415731979

Status: APPROVED

Status Date: 06/05/2024

fAPP2202649749, nAPP2415731979 References (2):

Forms

Operator:

Attachments: **Volume Calculation**

Questions

Prerequisites

Incident ID (n#) nAPP2415731979

NAPP2415731979 WEST SHUGART 31 FEDERAL COM 3 @ 0 Incident Name

Oil Release Incident Type

Initial C-141 Received Incident Status

Incident Facility [fAPP2202649749] SHUGART WEST 31 FEDERAL 3H,4H

Location of Release Source

Please answer all the questions in this group.

West Shugart 31 Federal Com 3 Site Name

Date Release Discovered 06/04/2024 Surface Owner Federal

Incident Details

Please answer all the questions in this group.

Oil Release Incident Type Did this release result in a fire or is the result of a fire No Did this release result in any injuries Nο Has this release reached or does it have a reasonable probability of reaching a No watercourse Has this release endangered or does it have a reasonable probability of endangering No public health

SIGN-IN HELP

Searches **Operator Data Hearing Fee Application**

Nature and Volume of Release

Other Released Details

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

Produced Water Released (bbls) Details

Is the concentration of chloride in the produced water >10,000 mg/l

Condensate Released (bbls) Details Natural Gas Vented (Mcf) Details Natural Gas Flared (Mcf) Details

Are there additional details for the questions above (i.e. any answer containing

Other, Specify, Unknown, and/or Fire, or any negative lost amounts)

Cause: Equipment Failure | Flow Line - Production | Crude Oil | Released: 5 BBL | Recovered: 1 BBL | Lost: 4

Cause: Equipment Failure | Flow Line - Production | Produced Water | Released: 6 BBL | Recovered: 0 BBL | I

Not answered. Not answered. Not answered.

. A hole in the buried flowline running from the wellhead to the separator developed a hole and released a total onto the well pad. A vac truck was able to recover 1 barrel of fluid from the pad. The well was shut-in until the f replaced. An environmental consultant will be contacted to remediate the impacted area on the well pad. Relea fluid (5 barrels oil + 6 barrels water) Recovered: 1 barrel fluid

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 Reasons why this would be considered a submission for a notification of a major

No

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 The impacted area has been secured to protect human health and the environment True True

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices

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 following the commence of the commence 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 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 1 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 sho 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 do 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: Laci Luig

Title: ES&H Specialist

Email: DL_PermianEnvironmental@coterra.com

Date: 06/05/2024

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)

Not answered.

What method was used to determine the depth to ground water

Not answered.

Did this release impact groundwater or surface water Not answered. 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

Not answered.

SIGN-IN HELP

		Searches	Operator Data	Hearing Fee Application
Incorporated municipal boundaries or a defined municipal fresh water well field	Not answered.			
A wetland	Not answered.			
A subsurface mine	Not answered.			
An (non-karst) unstable area	Not answered.			
Categorize the risk of this well / site being in a karst geology	Not answered.			
A 100-year floodplain	Not answered.			
Did the release impact areas not on an exploration, development, production, or storage site	Not answered.			
Remediation Plan				
Please answer all the questions that apply or are indicated. This information must be provided to the apply or are indicated.	opropriate district office no later	than 90 days after the release	discovery date.	
Requesting a remediation plan approval with this submission	No			
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in according	dance with the physical realities	encountered during remediat	ion. If the responsible party has	s any need to significantly deviate from the re
then it should consult with the division to determine if another remediation plan submission is required.				
Acknowledgments				
This submission type does not have acknowledgments, at this time.				
Comments				
No comments found for this submission.				
Conditions				
Summary: scwells (6/5/2024), None				
Pagagana				
Reasons				
No reasons found for this submission.				
Go Back				

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EMNRD Home OCD Main Page OCD Rules Help

From: <u>Laci Luig</u>

To: <u>Michael Collier</u>; <u>Jim Hawley</u>

Subject: FW: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 356588

Date: Friday, June 21, 2024 10:11:47 AM

Sample notification for West Shugart 31 Federal 3.

Laci Luig (432) 208-3035

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>

Sent: Friday, June 21, 2024 11:10 AM

To: DL_Permian Environmental <DL_PermianEnvironmental@coterra.com>

Subject: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application

ID: 356588

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

To whom it may concern (c/o Laci Luig for CIMAREX ENERGY CO. OF COLORADO),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2415731979.

The sampling event is expected to take place:

When: 06/25/2024 @ 10:00

Where: D-31-18S-31E 0 FNL 0 FEL (32.70919,-103.91561)

Additional Information: H&R Enterprises, Michael Collier 575.909.0326

Additional Instructions: GPS: 32.70919, -103.91561

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

 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.

If you have any questions regarding this application, or don't know why you have received this

email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department 1220 South St. Francis Drive Santa Fe, NM 87505

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

APPENDIX IV

PHOTOGRAPHIC DOCUMENTATION

PHOTOGRAPHIC DOCUMENTATION

INITIAL PHOTOGRAPHS





PHOTOGRAPHIC DOCUMENTATION

EXCAVATION PHOTOGRAPHS

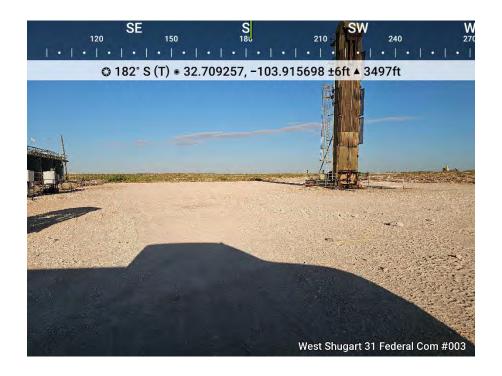




PHOTOGRAPHIC DOCUMENTATION

FINAL PHOTOGRAPHS





APPENDIX V

LABORATORY REPORT



July 02, 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 06/25/24 14:36.

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/ga/lab accredited certif.html.

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2 Regulated VOCs and Total Trihalomethanes (TTHM)

Method EPA 552.2 Total Haloacetic Acids (HAA-5)

Celey D. Keene

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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



Analytical Results For:

H & R ENTERPRISES 1010 GAMBLIN ROAD HOBBS NM, 88240 Project: WEST SHUGART 31 FEDERAL #003

Project Number: NONE GIVEN

Reported: 02-Jul-24 15:46

Project Manager: MICHAEL COLLIER

Fax To: NONE

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S - 1 2'	H243793-01	Soil	25-Jun-24 00:00	25-Jun-24 14:36
S - 2 2'	H243793-02	Soil	25-Jun-24 00:00	25-Jun-24 14:36
S - 3 2'	H243793-03	Soil	25-Jun-24 00:00	25-Jun-24 14:36
S - 4 2'	H243793-04	Soil	25-Jun-24 00:00	25-Jun-24 14:36
SW - 1 2'	H243793-05	Soil	25-Jun-24 00:00	25-Jun-24 14:36
SW - 2 2'	H243793-06	Soil	25-Jun-24 00:00	25-Jun-24 14:36
SW - 3 2'	H243793-07	Soil	25-Jun-24 00:00	25-Jun-24 14:36

07/02/24 - Client changed the sample depths (see COC). This is the revised report and will replace the one sent on 06/28/24.

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

H & R ENTERPRISES 1010 GAMBLIN ROAD HOBBS NM, 88240 Project: WEST SHUGART 31 FEDERAL #003

Project Number: NONE GIVEN

Project Manager: MICHAEL COLLIER

Fax To: NONE

Reported: 02-Jul-24 15:46

S - 1 2' H243793-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	176		16.0	mg/kg	4	4062635	CT	26-Jun-24	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4062603	JH	26-Jun-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4062603	JH	26-Jun-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4062603	JH	26-Jun-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4062603	JH	26-Jun-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4062603	JH	26-Jun-24	8021B	
Surrogate: 4-Bromofluorobenzene (PII	D)		93.7 %	71.5	-134	4062603	JH	26-Jun-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4062572	MS	26-Jun-24	8015B	
DRO >C10-C28*	42.1		10.0	mg/kg	1	4062572	MS	26-Jun-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4062572	MS	26-Jun-24	8015B	
Surrogate: 1-Chlorooctane			98.7 %	48.2	-134	4062572	MS	26-Jun-24	8015B	
Surrogate: 1-Chlorooctadecane			92.4 %	49.1	-148	4062572	MS	26-Jun-24	8015B	

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

H & R ENTERPRISES 1010 GAMBLIN ROAD HOBBS NM, 88240 Project: WEST SHUGART 31 FEDERAL #003

Project Number: NONE GIVEN

Project Manager: MICHAEL COLLIER

Fax To: NONE

Reported:

02-Jul-24 15:46

S - 2 2' H243793-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	160		16.0	mg/kg	4	4062635	CT	26-Jun-24	4500-Cl-B	
Volatile Organic Compounds b	y EPA Method 8	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4062602	ЛН	26-Jun-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4062602	JH	26-Jun-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4062602	JH	26-Jun-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4062602	JH	26-Jun-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4062602	JH	26-Jun-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			111 %	71.5	-134	4062602	JH	26-Jun-24	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4062572	MS	26-Jun-24	8015B	
DRO >C10-C28*	23.9		10.0	mg/kg	1	4062572	MS	26-Jun-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4062572	MS	26-Jun-24	8015B	
Surrogate: 1-Chlorooctane			94.9 %	48.2	-134	4062572	MS	26-Jun-24	8015B	
Surrogate: 1-Chlorooctadecane			87.7 %	49.1	-148	4062572	MS	26-Jun-24	8015B	

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

H & R ENTERPRISES 1010 GAMBLIN ROAD HOBBS NM, 88240 Project: WEST SHUGART 31 FEDERAL #003

Project Number: NONE GIVEN

Reported: 02-Jul-24 15:46

Project Manager: MICHAEL COLLIER

Fax To: NONE

S - 3 2' H243793-03 (Soil)

Cardinal Laboratories	Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Chloride 192 16.0 mg/kg 4 4062635 CT 26-Jun-24 4500-Cl-B Volatile Organic Compounds by EPA Method 8021 Benzene* <0.050				Cardina	l Laborat	tories					
Volatile Organic Compounds by EPA Method 8021 Benzene*	Inorganic Compounds										
Benzene* Co.050 Do.050 mg/kg 50 4062602 JH 26-Jun-24 8021B	Chloride	192		16.0	mg/kg	4	4062635	CT	26-Jun-24	4500-Cl-B	
Toluene* < 0.050	Volatile Organic Compounds	by EPA Method	8021								
Ethylbenzene* < 0.050	Benzene*	< 0.050		0.050	mg/kg	50	4062602	JH	26-Jun-24	8021B	
Total Xylenes* < 0.150	Toluene*	< 0.050		0.050	mg/kg	50	4062602	JH	26-Jun-24	8021B	
Total BTEX < 0.300	Ethylbenzene*	< 0.050		0.050	mg/kg	50	4062602	JH	26-Jun-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134 4062602 JH 26-Jun-24 8021B Petroleum Hydrocarbons by GC FID GRO C6-C10* < 10.0	Total Xylenes*	< 0.150		0.150	mg/kg	50	4062602	JH	26-Jun-24	8021B	
Petroleum Hydrocarbons by GC FID GRO C6-C10* 10.0 mg/kg 1 4062572 MS 26-Jun-24 8015B DRO >C10-C28* 37.7 10.0 mg/kg 1 4062572 MS 26-Jun-24 8015B EXT DRO >C28-C36 <10.0	Total BTEX	< 0.300		0.300	mg/kg	50	4062602	JH	26-Jun-24	8021B	
GRO C6-C10* <10.0 10.0 mg/kg 1 4062572 MS 26-Jun-24 8015B DRO >C10-C28* 37.7 10.0 mg/kg 1 4062572 MS 26-Jun-24 8015B EXT DRO >C28-C36 <10.0 10.0 mg/kg 1 4062572 MS 26-Jun-24 8015B Surrogate: 1-Chlorooctane 96.4 % 48.2-134 4062572 MS 26-Jun-24 8015B	Surrogate: 4-Bromofluorobenzene (PIL	D)		112 %	71.5	-134	4062602	ЈН	26-Jun-24	8021B	
DRO > C10-C28* 37.7 10.0 mg/kg 1 4062572 MS 26-Jun-24 8015B EXT DRO > C28-C36 <10.0	Petroleum Hydrocarbons by	GC FID									
EXT DRO > C28-C36	GRO C6-C10*	<10.0		10.0	mg/kg	1	4062572	MS	26-Jun-24	8015B	
Surrogate: 1-Chlorooctane 96.4 % 48.2-134 4062572 MS 26-Jun-24 8015B	DRO >C10-C28*	37.7		10.0	mg/kg	1	4062572	MS	26-Jun-24	8015B	
70177	EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4062572	MS	26-Jun-24	8015B	
Surrogate: 1-Chlorooctadecane 92.9 % 49.1-148 4062572 MS 26-Jun-24 8015B	Surrogate: 1-Chlorooctane			96.4 %	48.2	-134	4062572	MS	26-Jun-24	8015B	
	Surrogate: 1-Chlorooctadecane			92.9 %	49.1	-148	4062572	MS	26-Jun-24	8015B	

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

H & R ENTERPRISES 1010 GAMBLIN ROAD HOBBS NM, 88240

Project: WEST SHUGART 31 FEDERAL #003

Reported: 02-Jul-24 15:46 Project Number: NONE GIVEN

Project Manager: MICHAEL COLLIER

Fax To: NONE

S-4 2' H243793-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	176		16.0	mg/kg	4	4062635	CT	26-Jun-24	4500-Cl-B	
Volatile Organic Compounds	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4062602	JH	26-Jun-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4062602	JH	26-Jun-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4062602	JH	26-Jun-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4062602	JH	26-Jun-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4062602	JH	26-Jun-24	8021B	
Surrogate: 4-Bromofluorobenzene (Pl	D)		112 %	71.5	-134	4062602	ЈН	26-Jun-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4062572	MS	26-Jun-24	8015B	
DRO >C10-C28*	49.4		10.0	mg/kg	1	4062572	MS	26-Jun-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4062572	MS	26-Jun-24	8015B	
Surrogate: 1-Chlorooctane			92.9 %	48.2	-134	4062572	MS	26-Jun-24	8015B	
Surrogate: 1-Chlorooctadecane			90.6 %	49.1	-148	4062572	MS	26-Jun-24	8015B	

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

Reported:

02-Jul-24 15:46



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

Analytical Results For:

H & R ENTERPRISES 1010 GAMBLIN ROAD HOBBS NM, 88240 Project: WEST SHUGART 31 FEDERAL #003

Project Number: NONE GIVEN

Project Manager: MICHAEL COLLIER

Fax To: NONE

SW - 1 2' H243793-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Inorganic Compounds										
Chloride	208		16.0	mg/kg	4	4062635	CT	26-Jun-24	4500-Cl-B	
Volatile Organic Compound	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4062602	JH	26-Jun-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4062602	JH	26-Jun-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4062602	JH	26-Jun-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4062602	JH	26-Jun-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4062602	JH	26-Jun-24	8021B	
Surrogate: 4-Bromofluorobenzene (P.	ID)		113 %	71.5	-134	4062602	ЈН	26-Jun-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4062572	MS	26-Jun-24	8015B	
DRO >C10-C28*	56.8		10.0	mg/kg	1	4062572	MS	26-Jun-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4062572	MS	26-Jun-24	8015B	
Surrogate: 1-Chlorooctane			104 %	48.2	-134	4062572	MS	26-Jun-24	8015B	
Surrogate: 1-Chlorooctadecane			103 %	49.1	-148	4062572	MS	26-Jun-24	8015B	

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

H & R ENTERPRISES 1010 GAMBLIN ROAD HOBBS NM, 88240 Project: WEST SHUGART 31 FEDERAL #003

Project Number: NONE GIVEN

Reported: 02-Jul-24 15:46

Project Manager: MICHAEL COLLIER

Fax To: NONE

SW - 2 2' H243793-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	208		16.0	mg/kg	4	4062635	CT	26-Jun-24	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4062602	JH	26-Jun-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4062602	JH	26-Jun-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4062602	JH	26-Jun-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4062602	JH	26-Jun-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4062602	JH	26-Jun-24	8021B	
Surrogate: 4-Bromofluorobenzene (PIL))		113 %	71.5	-134	4062602	JH	26-Jun-24	8021B	
Petroleum Hydrocarbons by (GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4062572	MS	26-Jun-24	8015B	
DRO >C10-C28*	62.9		10.0	mg/kg	1	4062572	MS	26-Jun-24	8015B	
EXT DRO >C28-C36	12.1		10.0	mg/kg	1	4062572	MS	26-Jun-24	8015B	
Surrogate: 1-Chlorooctane			83.5 %	48.2	-134	4062572	MS	26-Jun-24	8015B	·
Surrogate: 1-Chlorooctadecane			79.4 %	49.1	-148	4062572	MS	26-Jun-24	8015B	

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

Reported:

02-Jul-24 15:46



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

Analytical Results For:

H & R ENTERPRISES 1010 GAMBLIN ROAD HOBBS NM, 88240 Project: WEST SHUGART 31 FEDERAL #003

Project Number: NONE GIVEN

Project Manager: MICHAEL COLLIER

Fax To: NONE

SW - 3 2' H243793-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Inorganic Compounds										
Chloride	192		16.0	mg/kg	4	4062635	CT	26-Jun-24	4500-Cl-B	
Volatile Organic Compound	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4062602	JH	26-Jun-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4062602	JH	26-Jun-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4062602	JH	26-Jun-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4062602	JH	26-Jun-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4062602	JH	26-Jun-24	8021B	
Surrogate: 4-Bromofluorobenzene (P.	ID)		113 %	71.5	-134	4062602	JH	26-Jun-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4062572	MS	26-Jun-24	8015B	
DRO >C10-C28*	65.3		10.0	mg/kg	1	4062572	MS	26-Jun-24	8015B	
EXT DRO >C28-C36	13.2		10.0	mg/kg	1	4062572	MS	26-Jun-24	8015B	
Surrogate: 1-Chlorooctane			93.2 %	48.2	-134	4062572	MS	26-Jun-24	8015B	
Surrogate: 1-Chlorooctadecane			88.9 %	49.1	-148	4062572	MS	26-Jun-24	8015B	

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Celeg D. Keine



Analytical Results For:

H & R ENTERPRISES 1010 GAMBLIN ROAD HOBBS NM, 88240 Project: WEST SHUGART 31 FEDERAL #003

Project Number: NONE GIVEN

Reported: 02-Jul-24 15:46

Project Manager: MICHAEL COLLIER

Fax To: NONE

Inorganic Compounds - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC	222	RPD	27.
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4062635 - 1:4 DI Water										
Blank (4062635-BLK1)				Prepared &	Analyzed:	26-Jun-24				
Chloride	ND	16.0	mg/kg							
LCS (4062635-BS1)				Prepared &	Analyzed:	26-Jun-24				
Chloride	416	16.0	mg/kg	400		104	80-120			
LCS Dup (4062635-BSD1)				Prepared &	: Analyzed:	26-Jun-24				
Chloride	432	16.0	mg/kg	400		108	80-120	3.77	20	

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Celey D. Keene



Analytical Results For:

H & R ENTERPRISES 1010 GAMBLIN ROAD HOBBS NM, 88240 Project: WEST SHUGART 31 FEDERAL #003

Reported:

O GAMBLIN ROAD P

Project Number: NONE GIVEN

02-Jul-24 15:46

Project Manager: MICHAEL COLLIER

Fax To: NONE

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4062602 - Volatiles										
DI 1 (10(0,000 DV VVI)				D 10		26 7 24				

Blank (4062602-BLK1)				Prepared & Anal	yzed: 26-Jun-24				
Benzene	ND	0.050	mg/kg						
Toluene	ND	0.050	mg/kg						
Ethylbenzene	ND	0.050	mg/kg						
Total Xylenes	ND	0.150	mg/kg						
Total BTEX	ND	0.300	mg/kg						
Surrogate: 4-Bromofluorobenzene (PID)	0.0540		mg/kg	0.0500	108	71.5-134			
LCS (4062602-BS1)				Prepared & Anal	yzed: 26-Jun-24				
Benzene	2.00	0.050	mg/kg	2.00	100	82.8-130			
Toluene	2.13	0.050	mg/kg	2.00	106	86-128			
Ethylbenzene	2.12	0.050	mg/kg	2.00	106	85.9-128			
m,p-Xylene	4.47	0.100	mg/kg	4.00	112	89-129			
o-Xylene	2.07	0.050	mg/kg	2.00	104	86.1-125			
Total Xylenes	6.54	0.150	mg/kg	6.00	109	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0524		mg/kg	0.0500	105	71.5-134			
LCS Dup (4062602-BSD1)				Prepared & Anal	yzed: 26-Jun-24				
Benzene	1.98	0.050	mg/kg	2.00	98.8	82.8-130	1.44	15.8	
Toluene	2.10	0.050	mg/kg	2.00	105	86-128	1.36	15.9	
Ethylbenzene	2.09	0.050	mg/kg	2.00	104	85.9-128	1.67	16	
m,p-Xylene	4.45	0.100	mg/kg	4.00	111	89-129	0.484	16.2	
o-Xylene	2.06	0.050	mg/kg	2.00	103	86.1-125	0.474	16.7	
Total Xylenes	6.51	0.150	mg/kg	6.00	109	88.2-128	0.481	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0521		mg/kg	0.0500	104	71.5-134			

Batch 4062603 - Volatiles

Blank (4062603-BLK1)			Prepared & Analyzed: 26-Jun-24
Benzene	ND	0.050	mg/kg
Toluene	ND	0.050	mg/kg
Ethylbenzene	ND	0.050	mg/kg
Total Xylenes	ND	0.150	mg/kg

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



%REC

Analytical Results For:

H & R ENTERPRISES 1010 GAMBLIN ROAD HOBBS NM, 88240

Project: WEST SHUGART 31 FEDERAL #003

Source

Reported: 02-Jul-24 15:46

RPD

Project Number: NONE GIVEN

Reporting

Project Manager: MICHAEL COLLIER

Spike

Fax To: NONE

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4062603 - Volatiles										
Blank (4062603-BLK1)				Prepared &	Analyzed:	26-Jun-24				
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		98.9	71.5-134			
LCS (4062603-BS1)				Prepared &	Analyzed:	26-Jun-24				
Benzene	2.17	0.050	mg/kg	2.00		109	82.8-130			
Toluene	2.19	0.050	mg/kg	2.00		109	86-128			
Ethylbenzene	2.30	0.050	mg/kg	2.00		115	85.9-128			
m,p-Xylene	4.70	0.100	mg/kg	4.00		118	89-129			
o-Xylene	2.34	0.050	mg/kg	2.00		117	86.1-125			
Total Xylenes	7.04	0.150	mg/kg	6.00		117	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0530		mg/kg	0.0500		106	71.5-134			
LCS Dup (4062603-BSD1)				Prepared &	Analyzed:	26-Jun-24				
Benzene	2.29	0.050	mg/kg	2.00		115	82.8-130	5.39	15.8	
Toluene	2.25	0.050	mg/kg	2.00		113	86-128	2.91	15.9	
Ethylbenzene	2.36	0.050	mg/kg	2.00		118	85.9-128	2.51	16	
m,p-Xylene	4.80	0.100	mg/kg	4.00		120	89-129	2.04	16.2	
o-Xylene	2.37	0.050	mg/kg	2.00		119	86.1-125	1.39	16.7	
Total Xylenes	7.17	0.150	mg/kg	6.00		119	88.2-128	1.82	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0526		mg/kg	0.0500		105	71.5-134			

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%REC

Analytical Results For:

H & R ENTERPRISES 1010 GAMBLIN ROAD HOBBS NM, 88240 Project: WEST SHUGART 31 FEDERAL #003

Spike

Project Number: NONE GIVEN

Source

Reported: 02-Jul-24 15:46

RPD

Project Manager: MICHAEL COLLIER

Fax To: NONE

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Reporting

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4062572 - General Prep - Organics										
Blank (4062572-BLK1)				Prepared: 2	25-Jun-24 A	nalyzed: 2	6-Jun-24			
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	49.8		mg/kg	50.0		99.5	48.2-134			
Surrogate: 1-Chlorooctadecane	47.9		mg/kg	50.0		95.8	49.1-148			
LCS (4062572-BS1)				Prepared:	25-Jun-24 A	analyzed: 2	6-Jun-24			
GRO C6-C10	179	10.0	mg/kg	200		89.3	66.4-123			
DRO >C10-C28	181	10.0	mg/kg	200		90.7	66.5-118			
Total TPH C6-C28	360	10.0	mg/kg	400		90.0	77.6-123			
Surrogate: 1-Chlorooctane	52.3		mg/kg	50.0		105	48.2-134			
Surrogate: 1-Chlorooctadecane	50.0		mg/kg	50.0		100	49.1-148			
LCS Dup (4062572-BSD1)				Prepared: 2	25-Jun-24 A	analyzed: 2	6-Jun-24			
GRO C6-C10	182	10.0	mg/kg	200		91.1	66.4-123	1.96	17.7	
DRO >C10-C28	185	10.0	mg/kg	200		92.7	66.5-118	2.26	21	
Total TPH C6-C28	368	10.0	mg/kg	400		91.9	77.6-123	2.11	18.5	
Surrogate: 1-Chlorooctane	54.6		mg/kg	50.0		109	48.2-134			
Surrogate: 1-Chlorooctadecane	52.1		mg/kg	50.0		104	49.1-148			

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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

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

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

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

QUESTIONS

Action 361730

QUESTIONS

Operator:	OGRID:
CIMAREX ENERGY CO. OF COLORADO	162683
6001 Deauville Blvd	Action Number:
Midland, TX 79706	361730
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites					
Incident ID (n#)	nAPP2415731979				
Incident Name	NAPP2415731979 WEST SHUGART 31 FEDERAL COM 3 @ 0				
Incident Type	Oil Release				
Incident Status	Remediation Closure Report Received				
Incident Facility	[fAPP2202649749] SHUGART WEST 31 FEDERAL 3H,4H				

Location of Release Source					
Please answer all the questions in this group.					
Site Name West Shugart 31 Federal Com 3					
Date Release Discovered 06/04/2024					
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 Flow Line - Production Crude Oil Released: 5 BBL Recovered: 1 BBL Lost: 4 BBL.
Produced Water Released (bbls) Details	Cause: Equipment Failure Flow Line - Production Produced Water Released: 6 BBL Recovered: 0 BBL Lost: 6 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
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)	. A hole in the buried flowline running from the wellhead to the separator developed a hole and released a total of 11 barrels fluid onto the well pad. A vac truck was able to recover 1 barrel of fluid from the pad. The well was shut-in until the flowline can be replaced. An environmental consultant will be contacted to remediate the impacted area on the well pad. Released: 11 barrels fluid (5 barrels oil + 6 barrels water) Recovered: 1 barrel fluid

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District IV

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

QUESTIONS, Page 2

Action 361730

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462	
QUEST	IONS (continued)
Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683 Action Number: 361730 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 second create as a second crea	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.
	Initiation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative o ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of evaluation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for release the OCD does not relieve the operator of liability should their operations have failed to	knowledge and understand that pursuant to OCD rules and regulations all operators are required ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Laci Luig Title: ES&H Specialist

Email: DL_PermianEnvironmental@coterra.com

Date: 06/05/2024

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

QUESTIONS, Page 3

Action 361730

QUESTIONS (continued)

Operator:	OGRID:
CIMAREX ENERGY CO. OF COLORADO	162683
6001 Deauville Blvd	Action Number:
Midland, TX 79706	361730
	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 ½ and 1 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between ½ and 1 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 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 1 and 5 (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	No

Remediation Plan		
Please answer all the questions that apply or are indicated. This information mus	st 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	
Attach a comprehensive report demonstrating the lateral and vertical extents of so	oil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delir	neated 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)	208	
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	78.5	
GRO+DRO (EPA SW-846 Method 8015M)	65.3	
BTEX (EPA SW-846 Method 8021B or 826	60B) 0	
Benzene (EPA SW-846 Method 8021B or 82	260B) 0	
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report inc which includes the anticipated timelines for beginning and completing the remed	cludes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, flation.	
On what estimated date will the remediation commence	06/24/2024	
On what date will (or did) the final sampling or liner inspection occur	r 06/25/2024	
On what date will (or was) the remediation complete(d)	06/25/2024	
What is the estimated surface area (in square feet) that will be recla	aimed 0	
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 reme	ediated 560	
What is the estimated volume (in cubic yards) that will be remediate	ed 40	
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 minima	ally 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.

District I

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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, Page 4

Action 361730

QUESTIONS (continued)

Operator:	OGRID:
CIMAREX ENERGY CO. OF COLORADO	162683
6001 Deauville Blvd	Action Number:
Midland, TX 79706	361730
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
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.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	LEA LAND LANDFILL [fEEM0112342028]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

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 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: Laci Luig Title: ES&H Specialist

Email: DL_PermianEnvironmental@coterra.com

Date: 07/08/2024

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

QUESTIONS, Page 5

Action 361730

QUESTIONS (continued)

Operator:	OGRID:
CIMAREX ENERGY CO. OF COLORADO	162683
6001 Deauville Blvd	Action Number:
Midland, TX 79706	361730
	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

District I

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

<u>District II</u> 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

<u>District III</u> 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

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, Page 6

Action 361730

QUESTIONS	(continued)

Operator:	OGRID:
CIMAREX ENERGY CO. OF COLORADO	162683
6001 Deauville Blvd	Action Number:
Midland, TX 79706	361730
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	356588
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/25/2024
What was the (estimated) number of samples that were to be gathered	8
What was the sampling surface area in square feet	575

Remediation Closure Request				
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.				
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	575			
What was the total volume (cubic yards) remediated	40			
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)	An estimated 40 cubic yards impacted soils was excavated and hauled to Lea Land for disposal. All composite confirmation samples came back clean per Table I requirements.			

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 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.

I hereby agree and sign off to the above statement

I hereby agree and sign off to the above statement

Title: ES&H Specialist
Email: DL_PermianEnvironmental@coterra.com
Date: 07/08/2024

<u>District I</u> 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

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

QUESTIONS, Page 7

Action 361730

QUESTIONS (continued)

Operator:	OGRID:
CIMAREX ENERGY CO. OF COLORADO	162683
6001 Deauville Blvd	Action Number:
Midland, TX 79706	361730
	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

District I
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CONDITIONS

Action 361730

CONDITIONS

Operator:	OGRID:
CIMAREX ENERGY CO. OF COLORADO	162683
6001 Deauville Blvd	Action Number:
Midland, TX 79706	361730
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	y Condition	Condition Date
scwells	None	7/8/2024