



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

Soil Assessment and Closure Report

Gadwall 18 Federal Com #003
Incident# nJMW1234241521
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

March 17, 2025

Mr. Mike Bratcher
NMOCD
1220 S. St. Francis Dr.
Santa Fe, NM 87505

Subject: **Soil Assessment and Closure Report**
Gadwall 18 Federal Com #003
Eddy County, NM

Dear Mr. Bratcher,

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

Site Information

The Gadwall 18 Federal Com #003 is located approximately 17 miles South of Carlsbad, New Mexico. The legal location for this release is Unit Letter D, Section 18, Township 25 South and Range 27 East in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.1362762 North and -104.2353287 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 Reagan-Upton association, 0 to 9 percent slopes. The referenced soil data is attached in [Appendix II](#). Drainage courses in this area are typically dry. The project site is in a high Karst potential area (Karst Map, [Appendix I](#)).

Groundwater and Site Characterization

The New Mexico Office of the State Engineer web site indicates that the nearest reported depth to groundwater is 14-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	14 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 is a site assessment in a high karst area, as well as being in an area with a depth to groundwater of less than 50-feet BGS, the closure criteria for this site are as follows:

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

Incident Description

On October 23, 2012, it was discovered that an illegal dump had occurred on the Northwest corner of the well pad. This illegal dump released approximately 120 barrels (bbls) of produced water. A total of 55 bbls of produced water was recovered.

Site Assessment Activities

H&R mobilized personnel to begin soil assessment sampling activities of the historical release area. Grab samples were obtained by way of test trenching the release area. The samples collected were transported to Cardinal Laboratory for analysis and the results are presented in the following data table. Soil assessment sampling locations are illustrated on Soil Assessment Map, [Appendix I](#). Photographic documentation is attached in [Appendix IV](#). Complete laboratory reports can be found in [Appendix V](#).

Table 1: Site Assessment 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
TT-1	3/7/2025	0-1'	ND	ND	ND	ND	ND	0	400
		2'	ND	ND	ND	ND	ND	0	336
		3'	ND	ND	ND	ND	ND	0	256
		4'	ND	ND	ND	ND	ND	0	128
TT-2	3/7/2025	0-1'	ND	ND	ND	ND	ND	0	224
		2'	ND	ND	ND	ND	ND	0	240
		3'	ND	ND	ND	ND	ND	0	128
		4'	ND	ND	ND	ND	ND	0	80
TT-3	3/7/2025	0-1'	ND	ND	ND	ND	ND	0	224
		2'	ND	ND	ND	ND	ND	0	320
		3'	ND	ND	ND	ND	ND	0	256
		4'	ND	ND	ND	ND	ND	0	224
H-1	3/7/2025	0-1'	ND	ND	ND	ND	ND	0	112
H-2	3/7/2025	0-1'	ND	ND	ND	ND	ND	0	128
H-3	3/7/2025	0-1'	ND	ND	ND	ND	ND	0	96
H-4	3/7/2025	0-1'	ND	ND	ND	ND	ND	0	224
ND = Analyte Not Detected TT = Vertical Test Trench Sample Point H = Horizontal Sample Point									

Based on our sampling results, we believe the site was previously remediated in 2012 and a closure report was not submitted to the NMOCD.

Reclamation Actions

This pad was reclaimed prior to remediation efforts beginning on the open incident but, it was not reclaimed to industry standards. Once the remediation efforts were completed, the entire pad as well as the access road were reclaimed and brought up to industry standards. Photographic documentation of the final reclamation are attached in [Appendix IV](#).

Closure

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

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

Respectfully submitted,

H&R Enterprises, LLC

Michael Collier

Michael Collier
Environmental Project Manager

Attachments:

Appendix I Site Maps
Appendix II Soil Survey, Groundwater Data, FEMA Flood Zone
Appendix III Initial and Final C-141
Appendix IV Photographic Documentation
Appendix V Laboratory Report

APPENDIX I

SITE MAPS

KARST MAP

TOPOGRAPHIC MAP

LOCATOR MAP

Gadwall 18 Federal Com #003

Cimarex Energy Co. of Colorado
Incident# nJMW1234241521
Eddy County, NM
Soil Assessment Map

Legend





- Horizontal Sample Point
- ▣ Vertical Test Trench Sample Point



Gadwall 18 Federal Com #003

Cimarex Energy Co. of Colorado
Incident# nJMW1234241521
Eddy County, NM
Karst Potential Map

Legend

-  Gadwall 18 Federal Com #003
-  High
-  Low
-  Medium

Gadwall 18 Federal Com #003

Google Earth

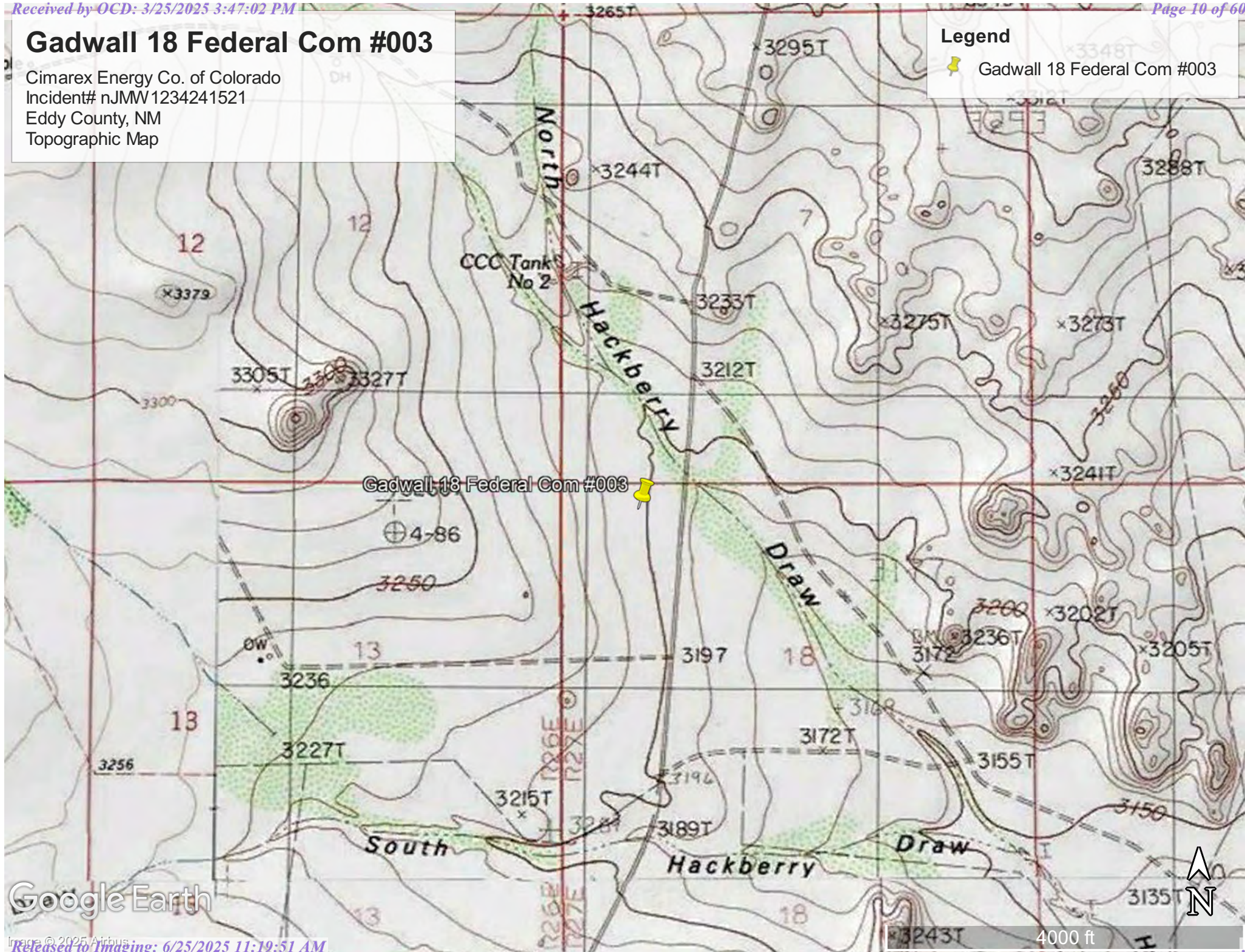
Image © 2025 Airbus



2 mi

Cimarex Energy Co. of Colorado
Incident# nJMW1234241521
Eddy County, NM
Topographic Map


 Gadwall 18 Federal Com #003

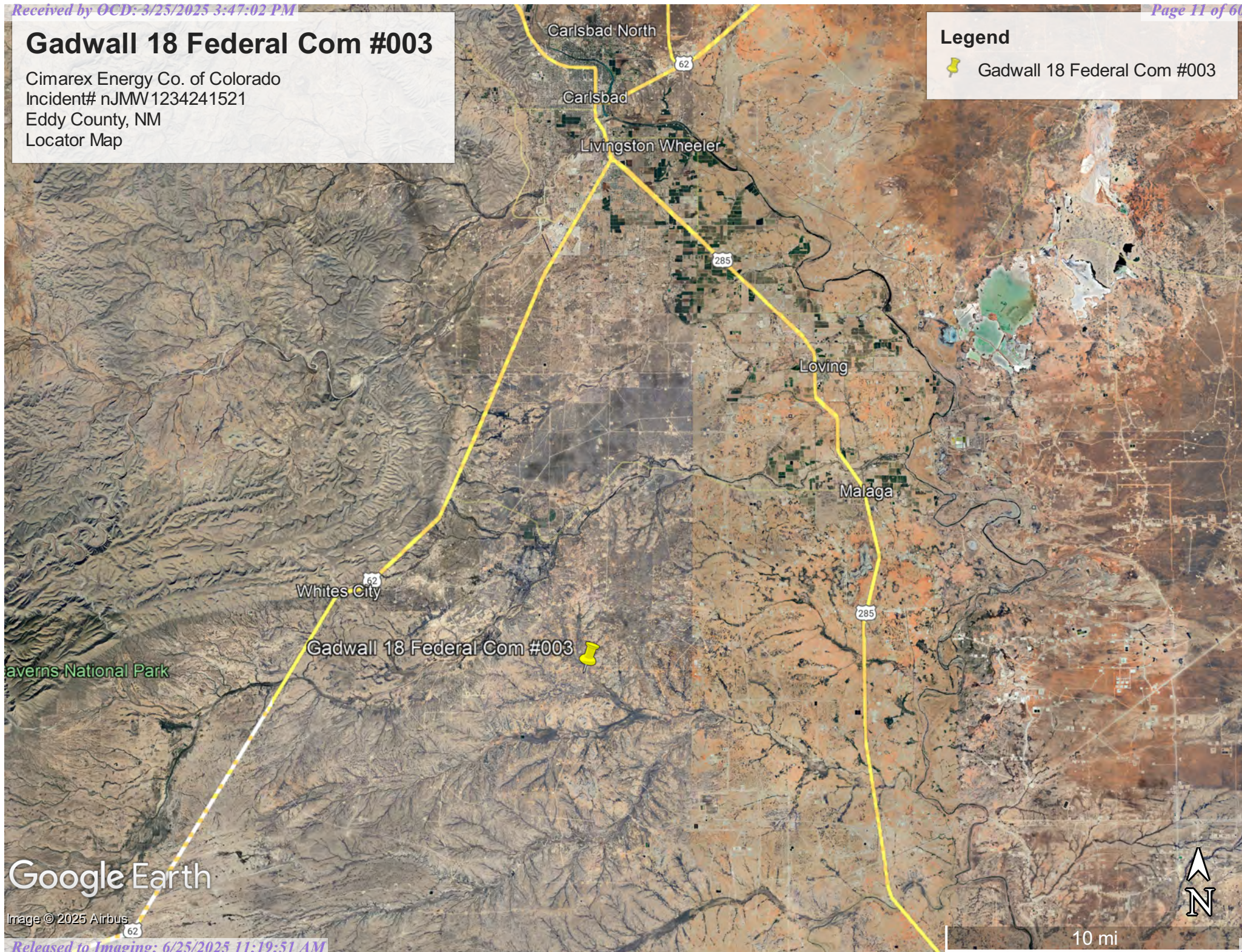


Gadwall 18 Federal Com #003

Cimarex Energy Co. of Colorado
Incident# nJMW1234241521
Eddy County, NM
Locator Map

Legend

 Gadwall 18 Federal Com #003



Google Earth

Image © 2025 Airbus

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
C_03654 POD1		CUB	ED	2	3	1	24	25S	26E	570654	3553773	<input type="checkbox"/>	2605		
C_03261 POD1		CUB	ED	3	2	1	20	25S	27E	574007	3554006*	<input type="checkbox"/>	2608	351	
C_03569 POD1		CUB	ED	2	1	1	14	25S	26E	568862	3555746	<input type="checkbox"/>	3331	30	0 30
C_02221		CUB	ED	4	3	2	25	25S	26E	571412	3551961*	<input type="checkbox"/>	3993	35	
C_02220		CUB	ED	3	1	2	26	25S	26E	569598	3552352*	<input type="checkbox"/>	4375	35	
C_01013		C	ED			4	25	25S	26E	571505	3551456*	<input type="checkbox"/>	4474	245	
C_03655 POD3		CUB	ED	1	4	4	22	25S	26E	568458	3553019	<input type="checkbox"/>	4700		
C_04329 POD1		C	ED	2	2	2	27	25S	26E	568577	3552567	<input type="checkbox"/>	4900	57	14 43

Average Depth to Water: **7 feet**

Minimum Depth: **0 feet**

Maximum Depth: **14 feet**

Record Count: 8

Basin/County Search:

County: Eddy

UTMNAD83 Radius Search (in meters):

Easting (X): 572190.21

Northing (Y): 3555877.56

Radius: 5000

*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.

11/28/23 9:49 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

Map Unit Description: Reagan-Upton association, 0 to 9 percent slopes---Eddy Area, New Mexico

Eddy Area, New Mexico

RE—Reagan-Upton association, 0 to 9 percent slopes

Map Unit Setting

National map unit symbol: 1w5d

Elevation: 1,100 to 5,400 feet

Mean annual precipitation: 6 to 14 inches

Mean annual air temperature: 60 to 64 degrees F

Frost-free period: 180 to 240 days

Farmland classification: Farmland of statewide importance

Map Unit Composition

Reagan and similar soils: 70 percent

Upton and similar soils: 25 percent

Minor components: 5 percent

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

Description of Reagan

Setting

Landform: Fan remnants, alluvial fans

Landform position (three-dimensional): Rise

Down-slope shape: Convex, linear

Across-slope shape: Linear

Parent material: Alluvium and/or eolian deposits

Typical profile

H1 - 0 to 8 inches: loam

H2 - 8 to 60 inches: loam

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water

(Ksat): Moderately high to high (0.60 to 2.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 40 percent

Maximum salinity: Very slightly saline to moderately saline (2.0 to 8.0 mmhos/cm)

Sodium adsorption ratio, maximum: 1.0

Available water supply, 0 to 60 inches: Moderate (about 8.2 inches)

Interpretive groups

Land capability classification (irrigated): 2e

Land capability classification (nonirrigated): 6e

Map Unit Description: Reagan-Upton association, 0 to 9 percent slopes---Eddy Area, New Mexico

Hydrologic Soil Group: B
Ecological site: R042CY153NM - Loamy
Hydric soil rating: No

Description of Upton

Setting

Landform: Ridges, fans
Landform position (three-dimensional): Side slope, rise
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Residuum weathered from limestone

Typical profile

H1 - 0 to 9 inches: gravelly loam
H2 - 9 to 13 inches: gravelly loam
H3 - 13 to 21 inches: cemented
H4 - 21 to 60 inches: very gravelly loam

Properties and qualities

Slope: 0 to 9 percent
Depth to restrictive feature: 7 to 20 inches to petrocalcic
Drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Low to moderately high (0.01 to 0.60 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 75 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Very low (about 1.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: D
Ecological site: R042CY159NM - Shallow Loamy
Hydric soil rating: No

Minor Components

Atoka

Percent of map unit: 3 percent
Ecological site: R070BC007NM - Loamy
Hydric soil rating: No

Pima

Percent of map unit: 2 percent
Ecological site: R070BC017NM - Bottomland

Map Unit Description: Reagan-Upton association, 0 to 9 percent slopes---Eddy Area, New Mexico

Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico

Survey Area Data: Version 19, Sep 7, 2023

National Flood Hazard Layer FIRMette



104°14'26"W 32°8'26"N



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

1:6,000

104°13'48"W 32°7'55"N

Released to Imaging: 6/25/2025 11:19:51 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 Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped



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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 3/17/2025 at 7:36 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

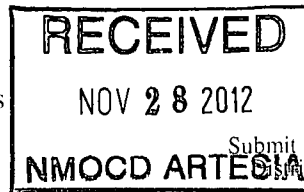
This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory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

APPENDIX III

NMOCD CORRESPONDENCE

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

nJM W 1234241521

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	Cimarex Energy 162683	Contact	Terry D. Ainsworth
Address	600 Marienfeld Midland, TX 79701	Telephone No.	(575) 390-1388
Facility Name	Gadwall 18 FC 3	Facility Type	oil well

Surface Owner	Mineral Owner	Lease No.	NM 2575
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LOCATION OF RELEASE

API: 30-015-39964

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
D	18	25S	27E	330	North	810	West	Eddy

Latitude N 32'08" 10.680" Longitude W 104'14" 06.052"

NATURE OF RELEASE

Type of Release	Produced water	Volume of Release	120 bbls	Volume Recovered	55 bbls
Source of Release	Illegal dumping	Date and Hour of Occurrence	11/23/2012 PM	Date and Hour of Discovery	11/24/2012 1:00 PM
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Email to Terry Gregston and Mike Bratcher		
By Whom?	Terry D. Ainsworth	Date and Hour	11/24/2012 3:00 PM		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

The pumper, Justin Reeves arrived on location Sunday morning and found what looked like someone unloaded a load of produced water.

Justin Reeves 575 390 8564

Describe Area Affected and Cleanup Action Taken.*

The illegal dump was found on the NW corner of the location. We fenced it off to keep the cattle out. SESI is lined out to make the one call and come out and catch samples. I will let BLM and NMOC D know when we get this scheduled. Area is approximately 40' x 25'

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOC D 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 NMOC D 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, NMOC D 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: Terry D. Ainsworth	Approved by District Supervisor:	Signed By <u>Mike Bratcher</u>
Title: Senior Production Foreman	Approval Date: DEC 07 2012	Expiration Date:
E-mail Address: tainsworth@cimarex.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 11/24/2012 Phone: 575-390-1388	Remediation per OCD Rules & Guidelines. SUBMIT REMEDIATION PROPOSAL NOT LATER THAN: January 7 th 2013	

* Attach Additional Sheets If Necessary

2RP-1434

Bratcher, Mike, EMNRD

From: Terry Ainsworth <TAinsworth@cimarex.com>
Sent: Sunday, November 25, 2012 3:04 PM
To: Bratcher, Mike, EMNRD; tgregsto@blm.gov
Cc: Kim Barton; Max Pfaff; Tim Brewer
Subject: Undesired Event Gadwall 18 FC 3

All – I don't have all the details yet. When the pumper arrived on location today he discovered a pool of produced water right off the NW corner of the location.

Looks like it could possibly be a full load of water. We have a truck on its way to pick up what we can. I can send a back hoe out in the morning and try to scoop up the contaminated material the best we can. Then we can catch some samples and see what else we need to do to clean this up.

I contacted the Eddy County Sheriff's Dept. They sent a Deputy out to take a report. He left his card with the report number on it.

I will get a report out to everyone after we see how much we recover and after I get the pictures from the pumper.



Terry D. Ainsworth

Sr. Production Foreman
Permian Basin Region

Cimarex Energy

cell (575) 390-1388
Office (575) 628-3447
fax (575) 628-3566

From: [Laci Luig](#)
To: [Michael Collier](#)
Subject: FW: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 439420
Date: Friday, March 7, 2025 8:45:02 AM

[Laci Luig](#)
(432) 208-3035

From: Ashton Thielke <Ashton.Thielke@coterra.com>
Sent: Wednesday, March 5, 2025 3:57 PM
To: DL_Permian Environmental <DL_PermianEnvironmental@coterra.com>
Subject: FW: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 439420

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Wednesday, March 5, 2025 3:56:09 PM (UTC-06:00) Central Time (US & Canada)
To: Ashton Thielke <Ashton.Thielke@coterra.com>
Subject: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 439420

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 Ashton Thielke 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#) nJMW1234241521.

The sampling event is expected to take place:

When: 03/07/2025 @ 15:00

Where: D-18-25S-27E Lot: 1 330 FNL 810 FWL (32.1362762,-104.2353287)

Additional Information: A site assessment of the historical release on this well pad will take place to determine if remediation is required or if the area was cleaned up historically. If contamination is found during the site assessment, an excavation and remediation will take place shortly thereafter.

Additional Instructions: 32.1362762,-104.2353287

H&R Enterprises will be onsite to conduct the site assessment
(575) 909-0326

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

TEST TRENCH/HORIZONTAL SAMPLE POINT PHOTOGRAPHS



TT-1



TT-2

PHOTOGRAPHIC DOCUMENTATION



TT-3



H-1

PHOTOGRAPHIC DOCUMENTATION



H-2



H-3

PHOTOGRAPHIC DOCUMENTATION



H-4

RECLAMATION PHOTOGRAPHS



PHOTOGRAPHIC DOCUMENTATION

2022 Co Rd 748, Carlsbad, NM 88220, USA

☉ 123°E (T) • 32.136602, -104.235625 ±9ft ▲ 3133ft



2024 Co Rd 748, Carlsbad, NM 88220, USA

☉ 270°W (T) • 32.13592, -104.233745 ±9ft ▲ 3120ft



PHOTOGRAPHIC DOCUMENTATION



PHOTOGRAPHIC DOCUMENTATION



APPENDIX V

LABORATORY REPORT



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

March 12, 2025

MICHAEL COLLIER

H & R ENTERPRISES

1010 GAMBLIN ROAD

HOBBS, NM 88240

RE: GADWALL 18 FEDERAL COM #003 (GAD)

Enclosed are the results of analyses for samples received by the laboratory on 03/10/25 14:54.

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, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/10/2025	Sampling Date:	03/07/2025
Reported:	03/12/2025	Sampling Type:	Soil
Project Name:	GADWALL 18 FEDERAL COM #003 (GAC	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX - EDDY CO NM		

Sample ID: TT - 1 0-1' (H251395-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2025	ND	1.90	95.2	2.00	3.59	
Toluene*	<0.050	0.050	03/11/2025	ND	2.05	103	2.00	0.986	
Ethylbenzene*	<0.050	0.050	03/11/2025	ND	2.28	114	2.00	0.648	
Total Xylenes*	<0.150	0.150	03/11/2025	ND	6.92	115	6.00	0.254	
Total BTX	<0.300	0.300	03/11/2025	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	400	16.0	03/11/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2025	ND	205	102	200	0.779	
DRO >C10-C28*	<10.0	10.0	03/11/2025	ND	196	98.1	200	0.0830	
EXT DRO >C28-C36	<10.0	10.0	03/11/2025	ND					

Surrogate: 1-Chlorooctane 117 % 44.4-145

Surrogate: 1-Chlorooctadecane 120 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/10/2025	Sampling Date:	03/07/2025
Reported:	03/12/2025	Sampling Type:	Soil
Project Name:	GADWALL 18 FEDERAL COM #003 (GAC	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX - EDDY CO NM		

Sample ID: TT - 1 2' (H251395-02)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/11/2025	ND	1.90	95.2	2.00	3.59		
Toluene*	<0.050	0.050	03/11/2025	ND	2.05	103	2.00	0.986		
Ethylbenzene*	<0.050	0.050	03/11/2025	ND	2.28	114	2.00	0.648		
Total Xylenes*	<0.150	0.150	03/11/2025	ND	6.92	115	6.00	0.254		
Total BTX	<0.300	0.300	03/11/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	03/11/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/11/2025	ND	205	102	200	0.779		
DRO >C10-C28*	<10.0	10.0	03/11/2025	ND	196	98.1	200	0.0830		
EXT DRO >C28-C36	<10.0	10.0	03/11/2025	ND						

Surrogate: 1-Chlorooctane 126 % 44.4-145

Surrogate: 1-Chlorooctadecane 128 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/10/2025	Sampling Date:	03/07/2025
Reported:	03/12/2025	Sampling Type:	Soil
Project Name:	GADWALL 18 FEDERAL COM #003 (GAC	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX - EDDY CO NM		

Sample ID: TT - 1 3' (H251395-03)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/11/2025	ND	1.90	95.2	2.00	3.59		
Toluene*	<0.050	0.050	03/11/2025	ND	2.05	103	2.00	0.986		
Ethylbenzene*	<0.050	0.050	03/11/2025	ND	2.28	114	2.00	0.648		
Total Xylenes*	<0.150	0.150	03/11/2025	ND	6.92	115	6.00	0.254		
Total BTX	<0.300	0.300	03/11/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	256	16.0	03/11/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2025	ND	205	102	200	0.779	
DRO >C10-C28*	<10.0	10.0	03/11/2025	ND	196	98.1	200	0.0830	
EXT DRO >C28-C36	<10.0	10.0	03/11/2025	ND					

Surrogate: 1-Chlorooctane 131 % 44.4-145

Surrogate: 1-Chlorooctadecane 133 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/10/2025	Sampling Date:	03/07/2025
Reported:	03/12/2025	Sampling Type:	Soil
Project Name:	GADWALL 18 FEDERAL COM #003 (GAC	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX - EDDY CO NM		

Sample ID: TT - 1 4' (H251395-04)

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	03/11/2025	ND	1.90	95.2	2.00	3.59		
Toluene*	<0.050	0.050	03/11/2025	ND	2.05	103	2.00	0.986		
Ethylbenzene*	<0.050	0.050	03/11/2025	ND	2.28	114	2.00	0.648		
Total Xylenes*	<0.150	0.150	03/11/2025	ND	6.92	115	6.00	0.254		
Total BTEX	<0.300	0.300	03/11/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	128	16.0	03/11/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2025	ND	205	102	200	0.779	
DRO >C10-C28*	<10.0	10.0	03/11/2025	ND	196	98.1	200	0.0830	
EXT DRO >C28-C36	<10.0	10.0	03/11/2025	ND					

Surrogate: 1-Chlorooctane 136 % 44.4-145

Surrogate: 1-Chlorooctadecane 140 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/10/2025	Sampling Date:	03/07/2025
Reported:	03/12/2025	Sampling Type:	Soil
Project Name:	GADWALL 18 FEDERAL COM #003 (GAC	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX - EDDY CO NM		

Sample ID: TT - 2 0-1' (H251395-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/11/2025	ND	1.90	95.2	2.00	3.59		
Toluene*	<0.050	0.050	03/11/2025	ND	2.05	103	2.00	0.986		
Ethylbenzene*	<0.050	0.050	03/11/2025	ND	2.28	114	2.00	0.648		
Total Xylenes*	<0.150	0.150	03/11/2025	ND	6.92	115	6.00	0.254		
Total BTEX	<0.300	0.300	03/11/2025	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	224	16.0	03/11/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2025	ND	205	102	200	0.779	
DRO >C10-C28*	<10.0	10.0	03/11/2025	ND	196	98.1	200	0.0830	
EXT DRO >C28-C36	<10.0	10.0	03/11/2025	ND					

Surrogate: 1-Chlorooctane 134 % 44.4-145

Surrogate: 1-Chlorooctadecane 140 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/10/2025	Sampling Date:	03/07/2025
Reported:	03/12/2025	Sampling Type:	Soil
Project Name:	GADWALL 18 FEDERAL COM #003 (GAC	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX - EDDY CO NM		

Sample ID: TT - 2 2' (H251395-06)

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	03/11/2025	ND	1.90	95.2	2.00	3.59		
Toluene*	<0.050	0.050	03/11/2025	ND	2.05	103	2.00	0.986		
Ethylbenzene*	<0.050	0.050	03/11/2025	ND	2.28	114	2.00	0.648		
Total Xylenes*	<0.150	0.150	03/11/2025	ND	6.92	115	6.00	0.254		
Total BTEx	<0.300	0.300	03/11/2025	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	240	16.0	03/11/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2025	ND	205	102	200	0.779	
DRO >C10-C28*	<10.0	10.0	03/11/2025	ND	196	98.1	200	0.0830	
EXT DRO >C28-C36	<10.0	10.0	03/11/2025	ND					

Surrogate: 1-Chlorooctane 125 % 44.4-145

Surrogate: 1-Chlorooctadecane 129 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/10/2025	Sampling Date:	03/07/2025
Reported:	03/12/2025	Sampling Type:	Soil
Project Name:	GADWALL 18 FEDERAL COM #003 (GAC	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX - EDDY CO NM		

Sample ID: TT - 2 3' (H251395-07)

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	03/11/2025	ND	1.90	95.2	2.00	3.59		
Toluene*	<0.050	0.050	03/11/2025	ND	2.05	103	2.00	0.986		
Ethylbenzene*	<0.050	0.050	03/11/2025	ND	2.28	114	2.00	0.648		
Total Xylenes*	<0.150	0.150	03/11/2025	ND	6.92	115	6.00	0.254		
Total BTEX	<0.300	0.300	03/11/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	128	16.0	03/11/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/11/2025	ND	205	102	200	0.779		
DRO >C10-C28*	<10.0	10.0	03/11/2025	ND	196	98.1	200	0.0830		
EXT DRO >C28-C36	<10.0	10.0	03/11/2025	ND						

Surrogate: 1-Chlorooctane 139 % 44.4-145

Surrogate: 1-Chlorooctadecane 144 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/10/2025	Sampling Date:	03/07/2025
Reported:	03/12/2025	Sampling Type:	Soil
Project Name:	GADWALL 18 FEDERAL COM #003 (GAC	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX - EDDY CO NM		

Sample ID: TT - 2 4' (H251395-08)

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	03/11/2025	ND	1.90	95.2	2.00	3.59		
Toluene*	<0.050	0.050	03/11/2025	ND	2.05	103	2.00	0.986		
Ethylbenzene*	<0.050	0.050	03/11/2025	ND	2.28	114	2.00	0.648		
Total Xylenes*	<0.150	0.150	03/11/2025	ND	6.92	115	6.00	0.254		
Total BTEX	<0.300	0.300	03/11/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	80.0	16.0	03/11/2025	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	03/11/2025	ND	205	102	200	0.779		
DRO >C10-C28*	<10.0	10.0	03/11/2025	ND	196	98.1	200	0.0830		
EXT DRO >C28-C36	<10.0	10.0	03/11/2025	ND						

Surrogate: 1-Chlorooctane 124 % 44.4-145

Surrogate: 1-Chlorooctadecane 129 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/10/2025	Sampling Date:	03/07/2025
Reported:	03/12/2025	Sampling Type:	Soil
Project Name:	GADWALL 18 FEDERAL COM #003 (GAC	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX - EDDY CO NM		

Sample ID: TT - 3 0-1' (H251395-09)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/11/2025	ND	1.90	95.2	2.00	3.59		
Toluene*	<0.050	0.050	03/11/2025	ND	2.05	103	2.00	0.986		
Ethylbenzene*	<0.050	0.050	03/11/2025	ND	2.28	114	2.00	0.648		
Total Xylenes*	<0.150	0.150	03/11/2025	ND	6.92	115	6.00	0.254		
Total BTEx	<0.300	0.300	03/11/2025	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	224	16.0	03/11/2025	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	03/11/2025	ND	205	102	200	0.779	
DRO >C10-C28*	<10.0	10.0	03/11/2025	ND	196	98.1	200	0.0830	
EXT DRO >C28-C36	<10.0	10.0	03/11/2025	ND					

Surrogate: 1-Chlorooctane 138 % 44.4-145

Surrogate: 1-Chlorooctadecane 140 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/10/2025	Sampling Date:	03/07/2025
Reported:	03/12/2025	Sampling Type:	Soil
Project Name:	GADWALL 18 FEDERAL COM #003 (GAC	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX - EDDY CO NM		

Sample ID: TT - 3 2' (H251395-10)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/11/2025	ND	1.90	95.2	2.00	3.59		
Toluene*	<0.050	0.050	03/11/2025	ND	2.05	103	2.00	0.986		
Ethylbenzene*	<0.050	0.050	03/11/2025	ND	2.28	114	2.00	0.648		
Total Xylenes*	<0.150	0.150	03/11/2025	ND	6.92	115	6.00	0.254		
Total BTEX	<0.300	0.300	03/11/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	320	16.0	03/11/2025	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	03/11/2025	ND	205	102	200	0.779		
DRO >C10-C28*	<10.0	10.0	03/11/2025	ND	196	98.1	200	0.0830		
EXT DRO >C28-C36	<10.0	10.0	03/11/2025	ND						

Surrogate: 1-Chlorooctane 125 % 44.4-145

Surrogate: 1-Chlorooctadecane 128 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/10/2025	Sampling Date:	03/07/2025
Reported:	03/12/2025	Sampling Type:	Soil
Project Name:	GADWALL 18 FEDERAL COM #003 (GAC	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX - EDDY CO NM		

Sample ID: TT - 3 3' (H251395-11)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/11/2025	ND	1.90	95.2	2.00	3.59		
Toluene*	<0.050	0.050	03/11/2025	ND	2.05	103	2.00	0.986		
Ethylbenzene*	<0.050	0.050	03/11/2025	ND	2.28	114	2.00	0.648		
Total Xylenes*	<0.150	0.150	03/11/2025	ND	6.92	115	6.00	0.254		
Total BTX	<0.300	0.300	03/11/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	256	16.0	03/11/2025	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	03/11/2025	ND	205	102	200	0.779	
DRO >C10-C28*	<10.0	10.0	03/11/2025	ND	196	98.1	200	0.0830	
EXT DRO >C28-C36	<10.0	10.0	03/11/2025	ND					

Surrogate: 1-Chlorooctane 114 % 44.4-145

Surrogate: 1-Chlorooctadecane 117 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/10/2025	Sampling Date:	03/07/2025
Reported:	03/12/2025	Sampling Type:	Soil
Project Name:	GADWALL 18 FEDERAL COM #003 (GAC	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX - EDDY CO NM		

Sample ID: TT - 3 4' (H251395-12)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/11/2025	ND	1.90	95.2	2.00	3.59		
Toluene*	<0.050	0.050	03/11/2025	ND	2.05	103	2.00	0.986		
Ethylbenzene*	<0.050	0.050	03/11/2025	ND	2.28	114	2.00	0.648		
Total Xylenes*	<0.150	0.150	03/11/2025	ND	6.92	115	6.00	0.254		
Total BTX	<0.300	0.300	03/11/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	224	16.0	03/11/2025	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	03/11/2025	ND	205	102	200	0.779	
DRO >C10-C28*	<10.0	10.0	03/11/2025	ND	196	98.1	200	0.0830	
EXT DRO >C28-C36	<10.0	10.0	03/11/2025	ND					

Surrogate: 1-Chlorooctane 131 % 44.4-145

Surrogate: 1-Chlorooctadecane 134 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/10/2025	Sampling Date:	03/07/2025
Reported:	03/12/2025	Sampling Type:	Soil
Project Name:	GADWALL 18 FEDERAL COM #003 (GAC	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX - EDDY CO NM		

Sample ID: H - 1 0-1' (H251395-13)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/11/2025	ND	1.90	95.2	2.00	3.59		
Toluene*	<0.050	0.050	03/11/2025	ND	2.05	103	2.00	0.986		
Ethylbenzene*	<0.050	0.050	03/11/2025	ND	2.28	114	2.00	0.648		
Total Xylenes*	<0.150	0.150	03/11/2025	ND	6.92	115	6.00	0.254		
Total BTX	<0.300	0.300	03/11/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	03/11/2025	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	03/11/2025	ND	205	102	200	0.779	
DRO >C10-C28*	<10.0	10.0	03/11/2025	ND	196	98.1	200	0.0830	
EXT DRO >C28-C36	<10.0	10.0	03/11/2025	ND					

Surrogate: 1-Chlorooctane 134 % 44.4-145

Surrogate: 1-Chlorooctadecane 135 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/10/2025	Sampling Date:	03/07/2025
Reported:	03/12/2025	Sampling Type:	Soil
Project Name:	GADWALL 18 FEDERAL COM #003 (GAC	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX - EDDY CO NM		

Sample ID: H - 2 0-1' (H251395-14)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/11/2025	ND	1.90	95.2	2.00	3.59		
Toluene*	<0.050	0.050	03/11/2025	ND	2.05	103	2.00	0.986		
Ethylbenzene*	<0.050	0.050	03/11/2025	ND	2.28	114	2.00	0.648		
Total Xylenes*	<0.150	0.150	03/11/2025	ND	6.92	115	6.00	0.254		
Total BTEX	<0.300	0.300	03/11/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	128	16.0	03/11/2025	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	03/11/2025	ND	205	102	200	0.779		
DRO >C10-C28*	<10.0	10.0	03/11/2025	ND	196	98.1	200	0.0830		
EXT DRO >C28-C36	<10.0	10.0	03/11/2025	ND						

Surrogate: 1-Chlorooctane 127 % 44.4-145

Surrogate: 1-Chlorooctadecane 127 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/10/2025	Sampling Date:	03/07/2025
Reported:	03/12/2025	Sampling Type:	Soil
Project Name:	GADWALL 18 FEDERAL COM #003 (GAC	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX - EDDY CO NM		

Sample ID: H - 3 0-1' (H251395-15)

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	03/11/2025	ND	1.90	95.2	2.00	3.59		
Toluene*	<0.050	0.050	03/11/2025	ND	2.05	103	2.00	0.986		
Ethylbenzene*	<0.050	0.050	03/11/2025	ND	2.28	114	2.00	0.648		
Total Xylenes*	<0.150	0.150	03/11/2025	ND	6.92	115	6.00	0.254		
Total BTEX	<0.300	0.300	03/11/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	96.0	16.0	03/11/2025	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	03/11/2025	ND	205	102	200	0.779		
DRO >C10-C28*	<10.0	10.0	03/11/2025	ND	196	98.1	200	0.0830		
EXT DRO >C28-C36	<10.0	10.0	03/11/2025	ND						

Surrogate: 1-Chlorooctane 137 % 44.4-145

Surrogate: 1-Chlorooctadecane 140 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/10/2025	Sampling Date:	03/07/2025
Reported:	03/12/2025	Sampling Type:	Soil
Project Name:	GADWALL 18 FEDERAL COM #003 (GAC	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX - EDDY CO NM		

Sample ID: H - 4 0-1' (H251395-16)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/11/2025	ND	1.90	95.2	2.00	3.59		
Toluene*	<0.050	0.050	03/11/2025	ND	2.05	103	2.00	0.986		
Ethylbenzene*	<0.050	0.050	03/11/2025	ND	2.28	114	2.00	0.648		
Total Xylenes*	<0.150	0.150	03/11/2025	ND	6.92	115	6.00	0.254		
Total BTX	<0.300	0.300	03/11/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	224	16.0	03/11/2025	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	03/11/2025	ND	205	102	200	0.779	
DRO >C10-C28*	<10.0	10.0	03/11/2025	ND	196	98.1	200	0.0830	
EXT DRO >C28-C36	<10.0	10.0	03/11/2025	ND					

Surrogate: 1-Chlorooctane 137 % 44.4-145

Surrogate: 1-Chlorooctadecane 139 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



ANALYSIS REQUEST

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: H&R Enterprises		BILL TO		ANALYSIS REQUEST											
Project Manager: Michael Collier		P.O. #:													
Address:		Company: Coterra Energy													
City:		Attn: Laci Luig													
State:		Address:													
Zip:															
Phone #:		City:													
Fax #:		State:													
Project #:		Zip:													
Project Name: Gadwall 18 Federal Com #003 (Gad)		Phone #:													
Project Location: Eddy County, NM		Fax #:													
Sampler Name: Michael Collier															
FROM LAB USE ONLY		MATRIX		PRESERV.		SAMPLING									
Lab I.D.		P													

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Relinquished By: <u>APRILE</u>	Date: <u>3.10.05</u>	Received By: <u>APRILE</u>	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: <u>1454</u>		All Results are emailed. Please provide Email address:	
Relinquished By:	Date:	Received By:	REMARKS: Pg 2 of 2	
	Time:		<u>40-HR RUSH</u>	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C <u>58.1</u> Corrected Temp. °C <u>61.1</u>	Sample Condition Cool <input type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/>	CHECKED BY: (Initials) <u>AD</u>	Thermometer Type: Standard <input type="checkbox"/> Electronic (only) Sample Condition <u>Check</u> Cool <input checked="" type="checkbox"/> Moist <input type="checkbox"/> Observed Temp. °C Thermometer ID <u>4431111111</u> Correction Factor <u>45°C x 1.0 3-</u>
				<input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No Corrected Temp. °C

FORM-006 R 3.2 10/07/21

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

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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 445594

QUESTIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 445594
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Prerequisites	
Incident ID (n#)	nJMW1234241521
Incident Name	NJMW1234241521 GADWALL 18 FEDERAL COM #003 (11.23.2012) @ 30-015-39964
Incident Type	Produced Water Release
Incident Status	Reclamation Report Received
Incident Well	[30-015-39964] GADWALL 18 FEDERAL COM #003

Location of Release Source	
<i>Please answer all the questions in this group.</i>	
Site Name	GADWALL 18 FEDERAL COM #003 (11.23.2012)
Date Release Discovered	11/23/2012
Surface Owner	Federal

Incident Details	
<i>Please answer all the questions in this group.</i>	
Incident Type	Produced Water 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	
<i>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.</i>	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Human Error Other (Specify) Produced Water Released: 120 BBL Recovered: 55 BBL Lost: 65 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
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 445594

QUESTIONS (continued)

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 445594
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

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	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
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: 03/25/2025
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QUESTIONS, Page 3

Action 445594

QUESTIONS (continued)

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 445594
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Site Characterization	
<i>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.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Less than or equal 25 (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 300 and 500 (ft.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Zero feet, overlying, or within area
Categorize the risk of this well / site being in a karst geology	High
A 100-year floodplain	Between 300 and 500 (ft.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan	
<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>	
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)	400
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
<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>	
On what estimated date will the remediation commence	11/23/2012
On what date will (or did) the final sampling or liner inspection occur	03/07/2025
On what date will (or was) the remediation complete(d)	03/07/2025
What is the estimated surface area (in square feet) that will be reclaimed	112000
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
<i>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.</i>	
<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 4

Action 445594

QUESTIONS (continued)

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 445594
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

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	No remediation occurred at this time as assessment samples from the historical release proved that there is no impact left onsite and all contamination was removed during the historical spill clean up.
<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: 03/25/2025
<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 445594

QUESTIONS (continued)

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 445594
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

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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QUESTIONS, Page 6

Action 445594

QUESTIONS (continued)

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 445594
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	439420
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/07/2025
What was the (estimated) number of samples that were to be gathered	4
What was the sampling surface area in square feet	350

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	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	112000
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	No remediation occurred at this time as assessment samples from the historical release proved that there is no impact left onsite and all contamination was removed during the historical spill clean up. The entire well pad and access road were reclaimed and blocked off from vehicle traffic.

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	Name: Ashton Thielke Title: EHS Specialist Email: Ashton.Thielke@coterra.com Date: 03/25/2025
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QUESTIONS, Page 7

Action 445594

QUESTIONS (continued)

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 445594
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Reclamation Report	
<i>Only answer the questions in this group if all reclamation steps have been completed.</i>	
Requesting a reclamation approval with this submission	Yes
What was the total reclamation surface area (in square feet) for this site	112000
What was the total volume of replacement material (in cubic yards) for this site	0
<i>Per Paragraph (1) of Subsection D of 19.15.29.13 NMAC the reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. The soil cover must include a top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater.</i>	
Is the soil top layer complete and is it suitable material to establish vegetation	Yes
On what (estimated) date will (or was) the reseeded commence(d)	03/12/2025
Summarize any additional reclamation activities not included by answers (above)	No remediation occurred at this time as assessment samples from the historical release proved that there is no impact left onsite and all contamination was removed during the historical spill clean up. The entire well pad and access road were reclaimed and blocked off from vehicle traffic.
<i>The responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseeded plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 NMAC.</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. 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	Name: Ashton Thielke Title: EHS Specialist Email: Ashton.Thielke@coterra.com Date: 03/25/2025

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QUESTIONS, Page 8

Action 445594

QUESTIONS (continued)

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 445594
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Revegetation Report	
<i>Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.</i>	
Requesting a restoration complete approval with this submission	No
<i>Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.</i>	

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CONDITIONS

Action 445594

CONDITIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 445594
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	The reclamation report has been approved pursuant to 19.15.29.13 E. NMAC. The acceptance of this 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; or if the location fails to revegetate properly. In addition, the OCD approval does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.	6/25/2025