

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

Remediation, Reclamation, and Closure Report

Cottonwood Draw 22 Federal Com #005H API# 30-015-37431 Eddy County, New Mexico Incident ID: NKMW1106054103

Prepared For:

Cimarex Energy Co. of Colorado 600 Marienfeld St. Midland, TX 79701

Prepared By:

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

February 22, 2022

Mr. Crisha Morgan **Bureau of Land Management** 602 E. Green St. Carlsbad, NM 88240

Subject: Reclamation, Reclamation, and Closure Report

Cottonwood Draw 22 Federal Com #005H

Eddy County, NM

Dear Ms. Morgan,

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

Site Information

The Cottonwood Draw 22 Federal Com #005H is located approximately 20 miles South of Carlsbad, New Mexico. The legal location for this release is Unit Letter A, Section 22, Township 25 South and Range 26 East in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.1210938 North and -104.2726517 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 Reeves Gypsum land complex, 0 to 3 percent slopes. Drainage courses in this area are typically dry. The project site is in a high Karst potential area.

Groundwater and Site Characterization

The New Mexico Office of the Sate Engineer web site indicates that the nearest reported depth to groundwater is 44-feet below ground surface (BGS).

Approximat	e Depth to	Groundwater 44 Feet/BGS
Yes	⊠No	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
Yes	⊠No	Within 300 feet from an occupied permanent residence, school, hospital, institution, or church
Yes	⊠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
Yes	⊠No	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
Yes	⊠No	Within the area overlying a subsurface mine
Yes	⊠No	Within an unstable area
Yes	⊠No	Within a 100-year floodplain

As this is a reclamation as well as being in an area with a depth to groundwater of less than 50-feet BGS, the closure criteria for this site is as follows:

	Tal	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

Site Assessment, Remediation, and Reclamation Activities

On February 20, 2022, H&R mobilized personnel to begin site assessment, sampling, and reclamation activities of the location. Grab samples were obtained by way of test trenching in the tank battery as well as throughout the location to identify possible areas of contamination. Field chloride titrations were performed, and the results are presented in the following data table (Table 1). Laboratory analysis was also performed by Cardinal Laboratories on samples collected from test trenches 1 through 3 due to encountering possible petroleum hydrocarbon contamination. Those results are presented in the following data table (Table 1a). Initial site assessment sampling and excavation locations are illustrated on Test Trench Map, Appendix I. After remediation and reclamation was complete, 4 composite confirmation samples were collected from the Northeast, Northwest, Southeast, and Southwest quadrants of the location and sent to Cardinal Laboratories to confirm NMOCD closure criteria had been met. Before and after photographs of the location are attached in Appendix II. Complete laboratory reports can be found in Appendix III.

Table 1: Initial Soil Samples Analysis

Samula ID	Samula Data	Depth	BTEX	Benzene	GRO	DRO	MRO	Total TPH	Cl
Sample ID	Sample Date	(BGS)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	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	1/25/2022	1-2'	ND	ND	ND	ND	0	80	
TT-2	1/25/2022	5-5.5'	ND	ND	ND	ND	ND	0	528
TT-3	1/25/2022	2-3'	7.21	ND	87.6	1340	1589.6	48	
			TT = Te	est Trench ND =	Analyte Not De	etected			

Table 1a: Field Chloride Titrations

Sample ID	Date	Depth	Field Titrations (CI)
TT-4	1/25/2022	2'R	77
TT-5	1/25/2022	4'	262
TT-6	1/25/2022	4'	219
TT-7	1/25/2022	4'	283
TT-8	1/25/2022	4'	425
TT-9	1/25/2022	4'D-9'H	502
TT-10	1/25/2022	4'D-9'H	283
TT-11	1/25/2022	4'	134
TT-12	1/25/2022	4'	49
TT-13	1/25/2022	4'	141
TT-14	2/1/2022	1'R	219
TT-15	2/1/2022	2'R	126
TT-16	2/1/2022	3'R	49
TT-17	2/1/2022	1'R	232
TT-18	2/1/2022	2'R	156
TT-19	2/1/2022	2'R	283

R = Refusal w/excavator D = Vertical Depth H = Horizontal Movement

Based on the results of our site assessment and upon client authorization, further excavation activities of the impacted area commenced. Confirmation samples were collected to confirm that NMOCD closure criteria had been met, the results of which can be found in the following data table. Confirmation sample locations and excavation dimensions can be found on Confirmation Sample Map in Appendix I. Complete laboratory reports are attached in Appendix III.

Table 2: Confirmation and Final Quadrant Soil Sample Analysis

Sample ID	Sample Date	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
NMOCD Tab	ole 1 Closure Crite NMAC	eria 19.15.29	50 mg/kg	10 mg/kg		100 mg/kg		100 mg/kg	600 mg/kg
S-1	2/8/2022	5'	ND	ND	ND	11	16.7	27.7	192
S-2	2/8/2022	5'	ND	ND	ND	ND	ND	0	32
S-3	2/8/2022	5'	ND	ND	ND	ND	ND	0	128
S-4	2/8/2022	5'	ND	ND	ND	13.9	16.7	30.6	160
S-5	2/8/2022	5'	ND	ND	ND	ND	ND	0	128
S-6	2/8/2022	5'	ND	ND	ND	26.5	12.1	38.6	208
N.SW	2/8/2022	5'	ND	ND	ND	26.7	15.5	42.2	192
w.sw	2/8/2022	5'	ND	ND	ND	39.1	20.1	59.2	192
E.SW	2/8/2022	5'	ND	ND	ND	ND	ND	0	144
NE	2/15/2022	0-1'	ND	ND	ND	ND	ND	0	160
NW	2/15/2022	0-1'	ND	ND	ND	ND	ND	0	160
SE	2/15/2022	0-1'	ND	ND	ND	ND	ND	0	160
sw	2/15/2022	0-1'	ND	ND	ND	ND	ND	0	96

ND = Analyte Not Detected SW = Sidewall NE,NW,SE,SW = Final Quadrant Samples

Remedial Actions

- The impacted area in the vicinity of TT-3 was excavated to a total depth of 5 feet BGS.
- Composite confirmation samples were obtained from the sidewalls and bottoms of the
 excavated area to verify that all contaminants above closure criteria had been removed.
 The results from those samples as well as the final quadrant samples are shown on
 Table 2 and the corresponding lab reports may be found in Appendix III.
- All the excavated material (540 yards) was hauled to Lea Land, a NMOCD approved solid waste disposal facility.
- The excavated area was backfilled with surrounding soil at depth and brought to grade, ripped, and contoured to match the surrounding location.
- The location will be seeded with the appropriate BLM seed mixture in accordance with the monsoon season to ensure proper seed germination and growth.

7

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

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

Respectfully submitted,

H&R Enterprises, LLC

Michael Collier

Environmental Project Manager

Attachments:

Appendix I Site Maps

Appendix II Photographic Documentation

Appendix III Laboratory Reports

APPENDIX I

SITE/SAMPLE MAPS





APPENDIX II

PHOTOGRAPHIC DOCUMENTATION

PHOTOGRAPHIC DOCUMENTATION













PHOTOGRAPHIC DOCUMENTATION





APPENDIX III

LABORATORY REPORTS



January 27, 2022

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

RE: COTTONWOOD DRAW 22 FED COM #5H

Enclosed are the results of analyses for samples received by the laboratory on 01/26/22 10:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

Cardinal Laboratories is accreditated 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.

Celey D. Keene

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 MICHAEL COLLIER 1010 GAMBLIN ROAD HOBBS NM, 88240 Fax To: NONE

Received: 01/26/2022 Reported: 01/27/2022

COTTONWOOD DRAW 22 FED COM #5

Project Name: COTTONWOOD DRAW 22 FE
Project Number: (COTTONWOOD DRAW 22)
Project Location: CIMAREX - EDDY CO NM

Sampling Date:

01/25/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: TT - 1 1-2' (H220302-01)

DTEV 0021D

BTEX 8021B	mg/	/kg	Analyze	d By: MS/					A-01
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/26/2022	ND	2.04	102	2.00	6.04	
Toluene*	<0.050	0.050	01/26/2022	ND	1.97	98.4	2.00	5.94	
Ethylbenzene*	<0.050	0.050	01/26/2022	ND	1.94	96.9	2.00	6.26	
Total Xylenes*	<0.150	0.150	01/26/2022	ND	5.81	96.9	6.00	6.41	
Total BTEX	<0.300	0.300	01/26/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 69.9-14	0						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/27/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					A-01
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/26/2022	ND	198	99.1	200	1.41	
DRO >C10-C28*	<10.0	10.0	01/26/2022	ND	205	102	200	3.74	
EXT DRO >C28-C36	<10.0	10.0	01/26/2022	ND					
Surrogate: 1-Chlorooctane	87.9	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	87.3	% 59.5-14	2						

Applyand By MC/

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine

A_01



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: 01/26/2022 Sampling Date: 01/25/2022

Reported: 01/27/2022 Sampling Type: Soil

Project Name: COTTONWOOD DRAW 22 FED COM #5 Sampling Condition: Cool & Intact
Project Number: (COTTONWOOD DRAW 22) Sample Received By: Tamara Oldaker

Applyzod By: MC/

Project Location: CIMAREX - EDDY CO NM

Sample ID: TT - 2 5-5.5' (H220302-02)

RTFY 8021R

B1EX 8021B	mg,	кд	Anaiyze	a By: MS/					A-01
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/26/2022	ND	2.04	102	2.00	6.04	
Toluene*	<0.050	0.050	01/26/2022	ND	1.97	98.4	2.00	5.94	
Ethylbenzene*	<0.050	0.050	01/26/2022	ND	1.94	96.9	2.00	6.26	
Total Xylenes*	<0.150	0.150	01/26/2022	ND	5.81	96.9	6.00	6.41	
Total BTEX	<0.300	0.300	01/26/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	01/27/2022	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					A-01
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/26/2022	ND	198	99.1	200	1.41	
DRO >C10-C28*	<10.0	10.0	01/26/2022	ND	205	102	200	3.74	
EXT DRO >C28-C36	<10.0	10.0	01/26/2022	ND					
Surrogate: 1-Chlorooctane	67.7	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	67.4	% 59.5-14	2						

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Celey D. Keene

A-01, S-04



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: 01/26/2022

Sampling Date: 01/25/2022

Reported: 01/27/2022

Sampling Type: Soil

Project Name: COTTONWOOD DRAW 22 FED COM #5
Project Number: (COTTONWOOD DRAW 22)

CIMAREX - EDDY CO NM

mg/kg

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: TT - 3 2-3' (H220302-03)

Project Location:

BTEX 8021B

DILKOULID	9/	~9	Allalyzo	.u 5 y ,					A 01, 0 0.
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/26/2022	ND	2.04	102	2.00	6.04	
Toluene*	<0.050	0.050	01/26/2022	ND	1.97	98.4	2.00	5.94	GC-NC
Ethylbenzene*	2.86	0.050	01/26/2022	ND	1.94	96.9	2.00	6.26	GC-NC1
Total Xylenes*	4.35	0.150	01/26/2022	ND	5.81	96.9	6.00	6.41	GC-NC1
Total BTEX	7.21	0.300	01/26/2022	ND					GC-NC1
Surrogate: 4-Bromofluorobenzene (PID	360 %	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/27/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	ed By: MS					A-01
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	87.6	10.0	01/26/2022	ND	198	99.1	200	1.41	
DRO >C10-C28*	1340	10.0	01/26/2022	ND	205	102	200	3.74	
EXT DRO >C28-C36	162	10.0	01/26/2022	ND					
Surrogate: 1-Chlorooctane	95.1	% 66.9-13	6						

Analyzed By: MS/

Surrogate: 1-Chlorooctane 95.1 % 66.9-136
Surrogate: 1-Chlorooctadecane 111 % 59.5-142

Cardinal Laboratories *=Accredited Analyte

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Celeg & Freene



Notes and Definitions

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

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

nterfering compounds.

GC-NC 8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.

A-01 Sample collected in plastic bag. Results may be biased low.

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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Celey D. Keene

Date: Time:

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

Observed Temp. °C

Cool Intact
Wes Wes Sample Condition

CHECKED BY: (Initials)

Turnaround Time:

Standard Rush

Bacteria (only) Sample Condition
Cool Intact Observed Temp. °C

Yes Yes
No Corrected Temp. °C

aboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

(9/9) 393-2320 FAA (9/9) 333-24/0		
Company Name: H&R Enterprises	BILL TO	ANALYSIS REQUEST
Project Manager: Michael Collier	P.O. #:	
Address: 5120 W. Kansas St.	Company: Cimarex	
City: Hobbs State: NM Zip: 88242	Attn: Laci Luig	
Phone #: 575.909.0326/ 575.605.3471 Fax #:	Address:	
Project #: Project Owner: Cimarex Energy	Energy City:	
Project Name: Cottonwood Draw 22 Federal Com #5H (Cottonwood Draw 22)	od Draw 22) State: Zip:	
Project Location: Eddy County, NM	Phone #:	
Sampler Name: M.Collier	Fax#:	
	MATRIX PRESERV. SAMPLING	
Lab I.D. Sample I.D. (G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER	WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	BTEX TPH CHLORIDES
_	7	
2-17-2 5-5,5'	1250	
37-32-31	00'f	
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In one event shall Cardinal be liable for inclodental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,	hether based in contract or tort, shall be limited to the amount paid by the die ness made in writing and received by Cardinal within 30 days after completion business interruptions, loss of use, or loss of profits incurred by client, its sub-	of the applicable sidenies.
Relinquished By: Time: 046 Manual Manua	Received By: All Res MUUDA All Res All Reserved All Reserved	Verbal Result: Pes No Add'I Phone #: Verbal Result: Pes No Add'I Phone #: All Results are emailed. Please provide Email address: **Samples in Plastichags. The 1/27/22
Ġ		REMARKS: RUSH 24 hr



February 14, 2022

MICHAEL COLLIER

H & R ENTERPRISES

1010 GAMBLIN ROAD

HOBBS, NM 88240

RE: COTTONWOOD DRAW 22 FED COM #5H

Enclosed are the results of analyses for samples received by the laboratory on 02/11/22 12:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

Cardinal Laboratories is accreditated 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)

Celey D. Keene

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Received: 02/11/2022 Reported:

02/14/2022

COTTONWOOD DRAW 22 FED COM #5

Project Number: (COTTONWOOD DRAW 22) Project Location: CIMAREX - EDDY CO NM

Sampling Date: 02/08/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Sample ID: S - 1 5' (H220546-01)

Project Name:

BTEX 8021B	mg,	/kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2022	ND	2.01	100	2.00	6.95	
Toluene*	<0.050	0.050	02/11/2022	ND	2.01	100	2.00	6.04	
Ethylbenzene*	<0.050	0.050	02/11/2022	ND	1.94	96.9	2.00	6.59	
Total Xylenes*	<0.150	0.150	02/11/2022	ND	6.06	101	6.00	5.23	
Total BTEX	<0.300	0.300	02/11/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	02/11/2022	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/12/2022	ND	228	114	200	0.985	
DRO >C10-C28*	11.0	10.0	02/12/2022	ND	251	126	200	0.328	
EXT DRO >C28-C36	16.7	10.0	02/12/2022	ND					
Surrogate: 1-Chlorooctane	92.1	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	111 9	% 59.5-14	2						

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Analytical Results For:

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

Received: 02/11/2022

Reported: 02/14/2022

Project Name: COTTONWOOD DRAW 22 FED COM #5
Project Number: (COTTONWOOD DRAW 22)

Project Location: CIMAREX - EDDY CO NM

Sampling Date: 02/08/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S - 2 5' (H220546-02)

BTEX 8021B	mg,	/kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2022	ND	2.01	100	2.00	6.95	
Toluene*	<0.050	0.050	02/11/2022	ND	2.01	100	2.00	6.04	
Ethylbenzene*	<0.050	0.050	02/11/2022	ND	1.94	96.9	2.00	6.59	
Total Xylenes*	<0.150	0.150	02/11/2022	ND	6.06	101	6.00	5.23	
Total BTEX	<0.300	0.300	02/11/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/11/2022	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/12/2022	ND	228	114	200	0.985	
DRO >C10-C28*	<10.0	10.0	02/12/2022	ND	251	126	200	0.328	
EXT DRO >C28-C36	<10.0	10.0	02/12/2022	ND					
Surrogate: 1-Chlorooctane	111 9	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	133	% 59.5-14	2						

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Analytical Results For:

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

Received: 02/11/2022 Reported:

02/14/2022

Project Name: COTTONWOOD DRAW 22 FED COM #5 Project Number: (COTTONWOOD DRAW 22)

Project Location: CIMAREX - EDDY CO NM Sampling Date: 02/08/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact Tamara Oldaker Sample Received By:

Sample ID: S - 3 5' (H220546-03)

BTEX 8021B	mg,	'kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2022	ND	2.01	100	2.00	6.95	
Toluene*	<0.050	0.050	02/11/2022	ND	2.01	100	2.00	6.04	
Ethylbenzene*	<0.050	0.050	02/11/2022	ND	1.94	96.9	2.00	6.59	
Total Xylenes*	<0.150	0.150	02/11/2022	ND	6.06	101	6.00	5.23	
Total BTEX	<0.300	0.300	02/11/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	'kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	02/11/2022	ND	416	104	400	3.77	
TPH 8015M	mg,	'kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/12/2022	ND	228	114	200	0.985	
DRO >C10-C28*	<10.0	10.0	02/12/2022	ND	251	126	200	0.328	
EXT DRO >C28-C36	<10.0	10.0	02/12/2022	ND					
Surrogate: 1-Chlorooctane	106	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	127	% 59.5-14	2						

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02/08/2022

Analytical Results For:

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

Received: 02/11/2022 Sampling Date:

Reported: 02/14/2022 Sampling Type: Soil

Project Name: COTTONWOOD DRAW 22 FED COM #5 Sampling Condition: Cool & Intact
Project Number: (COTTONWOOD DRAW 22) Sample Received By: Tamara Oldaker

Project Location: CIMAREX - EDDY CO NM

Sample ID: S - 4 5' (H220546-04)

BTEX 8021B	mg	/kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2022	ND	2.01	100	2.00	6.95	
Toluene*	<0.050	0.050	02/11/2022	ND	2.01	100	2.00	6.04	
Ethylbenzene*	<0.050	0.050	02/11/2022	ND	1.94	96.9	2.00	6.59	
Total Xylenes*	<0.150	0.150	02/11/2022	ND	6.06	101	6.00	5.23	
Total BTEX	<0.300	0.300	02/11/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	02/11/2022	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/12/2022	ND	228	114	200	0.985	
DRO >C10-C28*	13.9	10.0	02/12/2022	ND	251	126	200	0.328	
EXT DRO >C28-C36	16.7	10.0	02/12/2022	ND					
Surrogate: 1-Chlorooctane	94.0	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	113	% 59.5-14	2						

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Analytical Results For:

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

Received: 02/11/2022 Reported:

02/14/2022

Project Name: COTTONWOOD DRAW 22 FED COM #5

Project Number: (COTTONWOOD DRAW 22) Project Location: CIMAREX - EDDY CO NM

Sampling Date: 02/08/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Sample ID: S - 5 5' (H220546-05)

BTEX 8021B	mg,	/kg	Analyze	ed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2022	ND	2.01	100	2.00	6.95	
Toluene*	<0.050	0.050	02/11/2022	ND	2.01	100	2.00	6.04	
Ethylbenzene*	<0.050	0.050	02/11/2022	ND	1.94	96.9	2.00	6.59	
Total Xylenes*	<0.150	0.150	02/11/2022	ND	6.06	101	6.00	5.23	
Total BTEX	<0.300	0.300	02/11/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	02/11/2022	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/12/2022	ND	228	114	200	0.985	
DRO >C10-C28*	<10.0	10.0	02/12/2022	ND	251	126	200	0.328	
EXT DRO >C28-C36	<10.0	10.0	02/12/2022	ND					
Surrogate: 1-Chlorooctane	101	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	120	% 59.5-14	12						

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Analytical Results For:

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

Received: 02/11/2022

ma/ka

Reported: 02/14/2022

Project Name: COTTONWOOD DRAW 22 FED COM #5

Project Number: (COTTONWOOD DRAW 22)
Project Location: CIMAREX - EDDY CO NM

Sampling Date: 02/08/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S - 6 5' (H220546-06)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2022	ND	2.01	100	2.00	6.95	
Toluene*	<0.050	0.050	02/11/2022	ND	2.01	100	2.00	6.04	
Ethylbenzene*	<0.050	0.050	02/11/2022	ND	1.94	96.9	2.00	6.59	
Total Xylenes*	<0.150	0.150	02/11/2022	ND	6.06	101	6.00	5.23	
Total BTEX	<0.300	0.300	02/11/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	02/11/2022	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/12/2022	ND	228	114	200	0.985	
DRO >C10-C28*	26.5	10.0	02/12/2022	ND	251	126	200	0.328	
EXT DRO >C28-C36	12.1	10.0	02/12/2022	ND					
Surrogate: 1-Chlorooctane	108	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	131	% 59.5-14	2						

Applyzod By: MC/

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Analytical Results For:

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

Received: 02/11/2022 Reported: 02/14/2022

02/14/2022

Project Name: COTTONWOOD DRAW 22 FED COM #5
Project Number: (COTTONWOOD DRAW 22)

Project Location: CIMAREX - EDDY CO NM

Sampling Date: 02/08/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: N. SW 5' (H220546-07)

BTEX 8021B	mg,	/kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2022	ND	2.01	100	2.00	6.95	
Toluene*	<0.050	0.050	02/11/2022	ND	2.01	100	2.00	6.04	
Ethylbenzene*	<0.050	0.050	02/11/2022	ND	1.94	96.9	2.00	6.59	
Total Xylenes*	<0.150	0.150	02/11/2022	ND	6.06	101	6.00	5.23	
Total BTEX	<0.300	0.300	02/11/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	02/11/2022	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/12/2022	ND	228	114	200	0.985	
DRO >C10-C28*	26.7	10.0	02/12/2022	ND	251	126	200	0.328	
EXT DRO >C28-C36	15.5	10.0	02/12/2022	ND					
Surrogate: 1-Chlorooctane	106	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	128	% 59.5-14	12						

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Analytical Results For:

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

Received: 02/11/2022

Reported: 02/14/2022

Project Name: COTTONWOOD DRAW 22 FED COM #5
Project Number: (COTTONWOOD DRAW 22)

Project Location: CIMAREX - EDDY CO NM

Sampling Date: 02/08/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: W. SW 5' (H220546-08)

BTEX 8021B	mg	/kg	Analyze	ed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2022	ND	2.01	100	2.00	6.95	
Toluene*	<0.050	0.050	02/11/2022	ND	2.01	100	2.00	6.04	
Ethylbenzene*	<0.050	0.050	02/11/2022	ND	1.94	96.9	2.00	6.59	
Total Xylenes*	<0.150	0.150	02/11/2022	ND	6.06	101	6.00	5.23	
Total BTEX	<0.300	0.300	02/11/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	02/11/2022	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/12/2022	ND	228	114	200	0.985	
DRO >C10-C28*	39.1	10.0	02/12/2022	ND	251	126	200	0.328	
EXT DRO >C28-C36	20.1	10.0	02/12/2022	ND					
Surrogate: 1-Chlorooctane	108	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	130	% 59.5-14	2						

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Analytical Results For:

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

Received: 02/11/2022 Reported: 02/14/2022

02/14/2022

Project Name: COTTONWOOD DRAW 22 FED COM #5
Project Number: (COTTONWOOD DRAW 22)

ma/ka

Project Location: CIMAREX - EDDY CO NM

Sampling Date: 02/08/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: E. SW 5' (H220546-09)

RTFY 8021R

B1EX 8021B	mg	/ kg	Anaiyze	a By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2022	ND	2.01	100	2.00	6.95	
Toluene*	<0.050	0.050	02/11/2022	ND	2.01	100	2.00	6.04	
Ethylbenzene*	<0.050	0.050	02/11/2022	ND	1.94	96.9	2.00	6.59	
Total Xylenes*	<0.150	0.150	02/11/2022	ND	6.06	101	6.00	5.23	
Total BTEX	<0.300	0.300	02/11/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	02/11/2022	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/12/2022	ND	228	114	200	0.985	
DRO >C10-C28*	<10.0	10.0	02/12/2022	ND	251	126	200	0.328	
EXT DRO >C28-C36	<10.0	10.0	02/12/2022	ND					
Surrogate: 1-Chlorooctane	102	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	122	% 59.5-14	2						

Applyzod By: MC/

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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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Celeg D. Freene

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



(5/5) 393-2326 FAX (5/5) 393-24/6	-AX (5/5) 393-2	476	1								3	111						ANAL VEIC	5		DECLIEST	έĺ	3	1				1	
Project Manager: M. Couler	767							O.	P.O. #:	*	1			\dashv	4	-	-	—¦ ?	1			18		_		_		\Box	
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City:	State:	Zip:						A	5	7	5	Attn: LACI LUIL					_												
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Project #:	Project Owner: CIMAREX	CI	38	X				Ω	City:																				
Project Name: COTTONWOOD ORAN 22 FED#5H		Consumed 22)	She	B	23			St	State:	**		Zip:						,											
Project Location: EDDY COUNTY, N.M.								P	Phone #:	e #						_							_						
Sampler Name: M. COLLIER								Ŧ	Fax #:			×	K																
FOR LAB USE ONLY			_		×	MATRIX	<u>~</u>	ı	꿁	PRESERV.	뛩	/. SAMPLING	LING					_											
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February 21, 2022

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

RE: COTTONWOOD DRAW 22 FED COM #5H

Enclosed are the results of analyses for samples received by the laboratory on 02/16/22 8:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated 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)

Celey D. Keene

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Received: 02/16/2022 Reported:

02/21/2022

Project Name: Project Number:

DTEV 0021D

(COTTONWOOD 22) CIMAREX - EDDY CO NM

Project Location:

COTTONWOOD DRAW 22 FED COM #5

Sampling Condition: Sample Received By:

Sampling Date:

Sampling Type:

02/15/2022

Soil

Cool & Intact

Tamara Oldaker

Sample ID: NE 0-1' (H220589-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/18/2022	ND	1.93	96.4	2.00	14.0	
Toluene*	<0.050	0.050	02/18/2022	ND	1.91	95.5	2.00	14.7	
Ethylbenzene*	<0.050	0.050	02/18/2022	ND	1.84	92.0	2.00	14.9	
Total Xylenes*	<0.150	0.150	02/18/2022	ND	5.69	94.8	6.00	15.6	
Total BTEX	<0.300	0.300	02/18/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	02/17/2022	ND	432	108	400	7.69	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/18/2022	ND	219	110	200	3.38	
DRO >C10-C28*	<10.0	10.0	02/18/2022	ND	216	108	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	02/18/2022	ND					
Surrogate: 1-Chlorooctane	77.5	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	81.5	% 59.5-14	2						

Applyand By MC/

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Celey D. Keine



Analytical Results For:

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

Received: 02/16/2022 Reported:

02/21/2022

COTTONWOOD DRAW 22 FED COM #5

Project Number: Project Location:

Project Name:

(COTTONWOOD 22) CIMAREX - EDDY CO NM Sampling Date:

02/15/2022

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Sample ID: NW 0-1' (H220589-02)

BTEX 8021B	mg,	/kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/18/2022	ND	1.93	96.4	2.00	14.0	
Toluene*	<0.050	0.050	02/18/2022	ND	1.91	95.5	2.00	14.7	
Ethylbenzene*	<0.050	0.050	02/18/2022	ND	1.84	92.0	2.00	14.9	
Total Xylenes*	<0.150	0.150	02/18/2022	ND	5.69	94.8	6.00	15.6	
Total BTEX	<0.300	0.300	02/18/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	02/17/2022	ND	432	108	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/18/2022	ND	219	110	200	3.38	
DRO >C10-C28*	<10.0	10.0	02/18/2022	ND	216	108	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	02/18/2022	ND					
Surrogate: 1-Chlorooctane	70.5	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	73.4	% 59.5-14	2						

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Celeg D. Keene



Analytical Results For:

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

Received: 02/16/2022 Reported:

02/21/2022

Project Name: COTTONWOOD DRAW 22 FED COM #5 Project Number: (COTTONWOOD 22)

CIMAREX - EDDY CO NM Project Location:

Sampling Date: 02/15/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Sample ID: SE 0-1' (H220589-03)

BTEX 8021B	mg	/kg	Analyze	ed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/19/2022	ND	1.93	96.4	2.00	14.0	
Toluene*	<0.050	0.050	02/19/2022	ND	1.91	95.5	2.00	14.7	
Ethylbenzene*	<0.050	0.050	02/19/2022	ND	1.84	92.0	2.00	14.9	
Total Xylenes*	<0.150	0.150	02/19/2022	ND	5.69	94.8	6.00	15.6	
Total BTEX	<0.300	0.300	02/19/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	02/17/2022	ND	432	108	400	7.69	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/18/2022	ND	219	110	200	3.38	
DRO >C10-C28*	<10.0	10.0	02/18/2022	ND	216	108	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	02/18/2022	ND					
Surrogate: 1-Chlorooctane	73.9	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	80.4	% 59.5-14	22						

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Celey D. Keine



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: 02/16/2022 Reported:

02/21/2022

COTTONWOOD DRAW 22 FED COM #5

Project Number: Project Location:

Project Name:

(COTTONWOOD 22) CIMAREX - EDDY CO NM Sampling Date:

02/15/2022

Soil

Sampling Type:

Sampling Condition: Cool & Intact Tamara Oldaker

Sample Received By:

Sample ID: SW 0-1' (H220589-04)

BTEX 8021B	mg/	kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/19/2022	ND	1.93	96.4	2.00	14.0	
Toluene*	<0.050	0.050	02/19/2022	ND	1.91	95.5	2.00	14.7	
Ethylbenzene*	< 0.050	0.050	02/19/2022	ND	1.84	92.0	2.00	14.9	
Total Xylenes*	<0.150	0.150	02/19/2022	ND	5.69	94.8	6.00	15.6	
Total BTEX	<0.300 0.300		02/19/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID 104 %		69.9-14	0						
Chloride, SM4500Cl-B mg/kg			Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	02/17/2022	ND	432	108	400	7.69	
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	02/18/2022	ND	224	112	200	1.62	
DRO >C10-C28*	<10.0	10.0	02/18/2022	ND	226	113	200	0.675	
EXT DRO >C28-C36	<10.0	10.0	02/18/2022	ND					
Surrogate: 1-Chlorooctane	88.0 9	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	93.89	% 59.5-14	2						

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

QR-04 The RPD for the BS/BSD was outside of historical limits.

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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Celey D. Keene

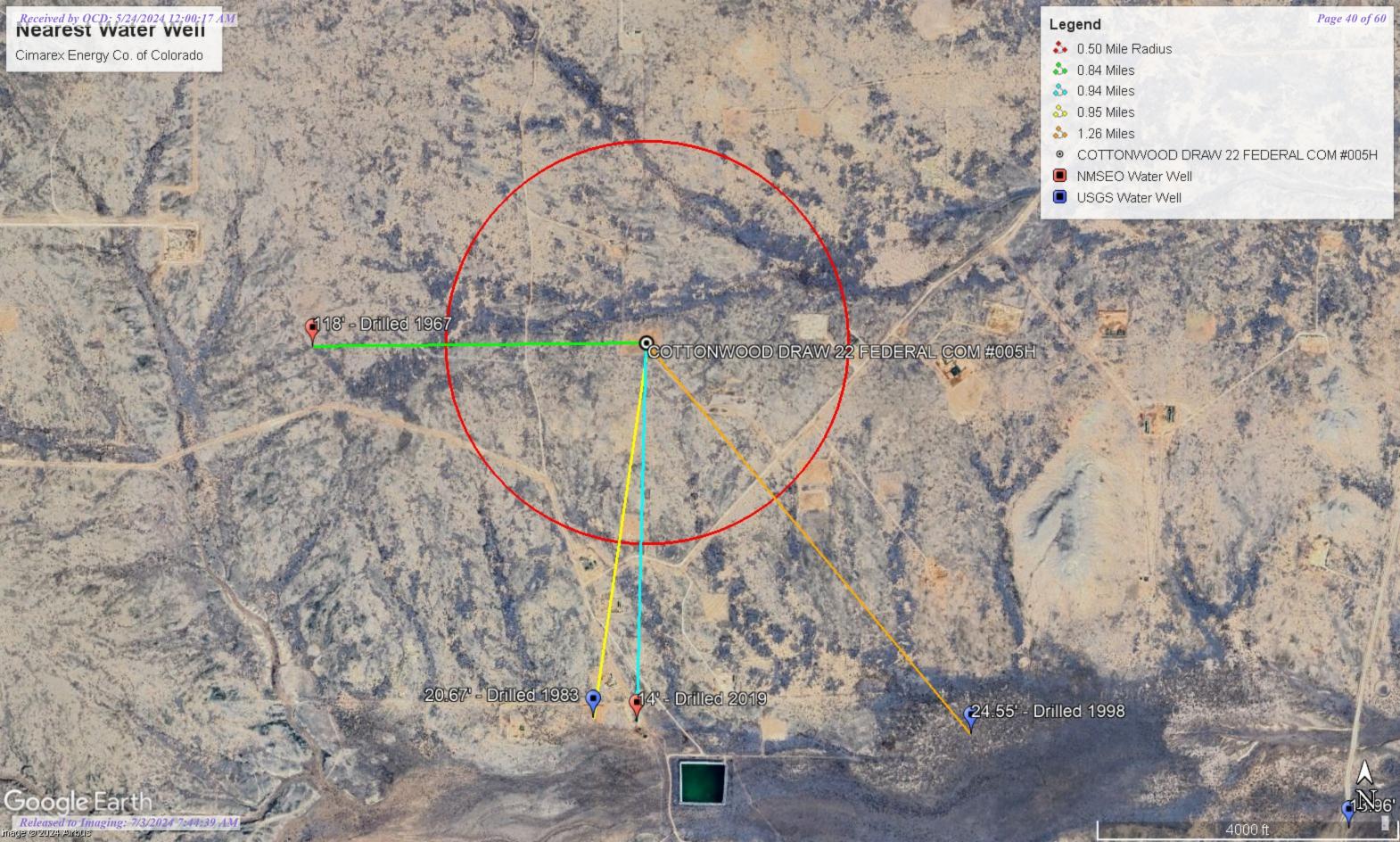
Celey D. Keene, Lab Director/Quality Manager

Received by OCD: 5/24/2024 12:00:17 AM_	
PLEAR annalys	

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

Company N - 24/0			
Bring Name: HAR ENTER PRISES		BII 1 TO	
Project Manager: MICHAEL COLLER	P.O. #:	PILL 10	ANALYSIS REQUEST
Address:	Company	Company	
State: Zip:	Attn: / M		
Project #: Fax #:	Address:		
Project Owner: CIMARCX			
21 FED #5	(נג מ	71	
MS PLA	73	ZIP:	
Sampler Name: M. COLLER	Phone #:		
FOR LAB USE ONLY	Fax #:		
	ER	V. SAMPLING	
H720589 GRAB OR (C) # CONTAINER	GROUNDWATI WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: CE / COOL OTHER:	DATE TIME	STEX EHLORIDES
2 NW 0-1, C1	- (8:30 V L	
0-1		9:00	
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Time: Date: Received By:	hunra Ildas	All Results are emailed.	Verbal Result: ☐ Yes ☐ No Add'I Phone #: All Results are emailed. Please provide Email address:
elivered By: (Circle One)		NEMARKS:	
mpler - UPS - Bus - Other: Corrected Temp. °C 6.4	Sample Condition CHECKED BY: Cool Intact (Initials) Pres Pres No No	ID BY: Turnaround Time: Is) Thermometer ID #113 Correction Factor 10 890	Standard Bacteria (only) Sample Condition Cool Intact Observed Temp. °C
† Cardinal cannot acco	ept verbal changes. Please en	9	□ No □ No Corrected Temp. °C

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



Received by OCD: 5/24/2024 12:00:17 AM High Karst Page 41 of 60 Legend O COTTONWOOD DRAW 22 FEDERAL COM #005H Cimarex Energy Co. of Colorado High COTTONWOOD DRAW 22 FEDERAL COM #005H 4000 ft



New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number** Q64 Q16 Q4 Sec Tws Rng

 \mathbf{X}

C 01368

25S 26E

3554059* 567261

Driller License: 28 **Driller Company:**

SMITH, A.F.

Driller Name: SMITH, A.F.

Drill Finish Date:

06/19/1967

Plug Date:

Log File Date:

Drill Start Date:

PCW Rcv Date:

Source:

Shallow

Pump Type:

08/01/1967

06/15/1967

Pipe Discharge Size:

Estimated Yield:

Casing Size:

7.00 **Depth Well:**

143 feet

Depth Water:

118 feet

Water Bearing Stratifications:

Bottom Description Top

120 Sandstone/Gravel/Conglomerate

Casing Perforations:

Bottom

113 143

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.

118

Top

5/23/24 10:13 AM

POINT OF DIVERSION SUMMARY

^{*}UTM location was derived from PLSS - see Help



New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number** Q64 Q16 Q4 Sec Tws Rng

 \mathbf{X} Y

222B5 C 04329 POD1 26E 25S

3552567

TAYLOR WATER WELL SERVICE **Driller License:** 1348 **Driller Company:**

Driller Name: CLINTON E TAYLOR

Drill Start Date: 06/07/2019 **Drill Finish Date:**

06/08/2019

Plug Date:

Log File Date:

06/17/2019

PCW Rcv Date:

Source:

Shallow

Pump Type:

Pipe Discharge Size:

Estimated Yield:

100 GPM

Casing Size:

4.50 **Depth Well:** 57 feet

Depth Water:

14 feet

Water Bearing Stratifications: Top

14 24 Other/Unknown

Bottom

Other/Unknown

Description

Casing Perforations:

Bottom Top

57

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.

20

5/23/24 10:13 AM

POINT OF DIVERSION SUMMARY



USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:		Geographic Area:		
Groundwater	~	New Mexico	~	GO

Click to hideNews Bulletins

- Explore the NEW <u>USGS National Water Dashboard</u> interactive map to access real-time water data from over 13,500 stations nationwide.
- Full News

Groundwater levels for New Mexico

Click to hide state-specific text

Important: <u>Next Generation Monitoring Location Page</u>

Search Results -- 1 sites found

Agency code = usgs

site_no list =

• 320627104163001

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 320627104163001 25S.26E.27.21144

Eddy County, New Mexico

Table of data

Latitude 32°06'27", Longitude 104°16'30" NAD27

Land-surface elevation 3,251 feet above NAVD88

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

Tab-separa	ted data									
Graph of da	ata_									
Reselect pe	eriod_									
Date	Time	? Water- level date- time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source (measure
1983-02-1	15	D	62610		3228.66	NGVD29	1		Z	
1983-02-1		D	62611		3230.33	NAVD88	1		Z	
1983-02-1	15	D	72019	20.67			1		Z	

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static

Section	Code	Description
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	Α	Approved for publication Processing and review completed.

Questions or Comments Automated retrievals <u>Help</u> **Data Tips Explanation of terms** Subscribe for system changes <u>News</u>

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U.S. Department of the Interior | U.S. Geological Survey Title: Groundwater for New Mexico: Water Levels

URL: https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?

Page Contact Information: New Mexico Water Data Maintainer Page Last Modified: 2024-05-23 12:14:50 EDT

0.29 0.25 nadww01





New Mexico Office of the State Engineer Water Column/Average Depth to Water

(NAD83 UTM in meters)

(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)

(In feet)

POD Number	POD Sub-	County		Q 16		800	Two	Dna	v	Υ	Diotonoo	•	•	Water Column
C 03655 POD3	Code basin CUB	ED	1				25S		X 568458	3553019	Distance 1079	weii	water	Column
C 01368	С	ED		1	1	22	25S	26E	567261	3554059*	1349	143	118	25
C 04329 POD1	С	ED	2	2	2	27	25S	26E	568577	3552567 🌍	1520	57	14	43
C 03569 POD1	CUB	ED	2	1	1	14	25S	26E	568862	3555746 🌍	1678	30	0	30
C 02220	CUB	ED	3	1	2	26	25S	26E	569598	3552352*	1996	35		
C 03654 POD1	CUB	ED	2	3	1	24	25S	26E	570654	3553773 🌍	2068			
C 02221	CUB	ED	4	3	2	25	25S	26E	571412	3551961* 🌍	3517	35		
<u>C 01013</u>	С	ED			4	25	25S	26E	571505	3551456* 🌕	3912	245		
C 02675	С	ED	1	4	1	09	25S	26E	565907	3556978*	3957	180	45	135

Average Depth to Water:

44 feet

Minimum Depth:

0 feet

Maximum Depth:

118 feet

Record Count: 9

UTMNAD83 Radius Search (in meters):

Easting (X): 568610.37 Radius: 4000 Northing (Y): 3554087.66

*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.



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National Water Information System: Web Interface

USGS Water Resources

Data Category:		Geographic Area:		
Groundwater	~	New Mexico	~	GO

Click to hideNews Bulletins

- Explore the NEW <u>USGS National Water Dashboard</u> interactive map to access real-time water data from over 13,500 stations nationwide.
- Full News

Groundwater levels for New Mexico

Click to hide state-specific text

Important: <u>Next Generation Monitoring Location Page</u>

Search Results -- 1 sites found

Agency code = usgs site_no list =

• 320625104153201

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 320625104153201 25S.26E.26.213213

Eddy County, New Mexico

Table of data

Tab-separated data

Graph of data

Latitude 32°06'25", Longitude 104°15'32" NAD27

Land-surface elevation 3,219 feet above NAVD88

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

Graph of data	1									
Reselect perio	<u>od</u>									
Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measur
1983-02-01		D	62610		3199.04	NGVD29	1		z	
1983-02-01 1983-02-01		D	62611		3200.71	NAVD88	1		z Z	
1983-02-01		D	72019	18.29	3200.71	NAVDOO	1		z Z	
				18.29	2202.10	NCVD20	_			
1987-10-08		D	62610		3202.18	NGVD29	1		Z	
1987-10-08		D	62611		3203.85	NAVD88	1		Z	
1987-10-08		D	72019	15.15			1		Z	
1992-11-04		D	62610		3202.16	NGVD29	1		S	
1992-11-04		D	62611		3203.83	NAVD88	1		S	
1992-11-04		D	72019	15.17			1		S	
1998-01-07		D	62610		3192.78	NGVD29	1		S	
1998-01-07		D	62611		3194.45	NAVD88	1		S	
1998-01-07		D	72019	24.55			1		S	

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	А	Approved for publication Processing and review completed.

Questions or Comments Automated retrievals <u>Help</u> **Data Tips Explanation of terms** Subscribe for system changes <u>News</u>

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0.3 0.25 nadww01



FEMA National Flood Hazard Layer (NFHL)



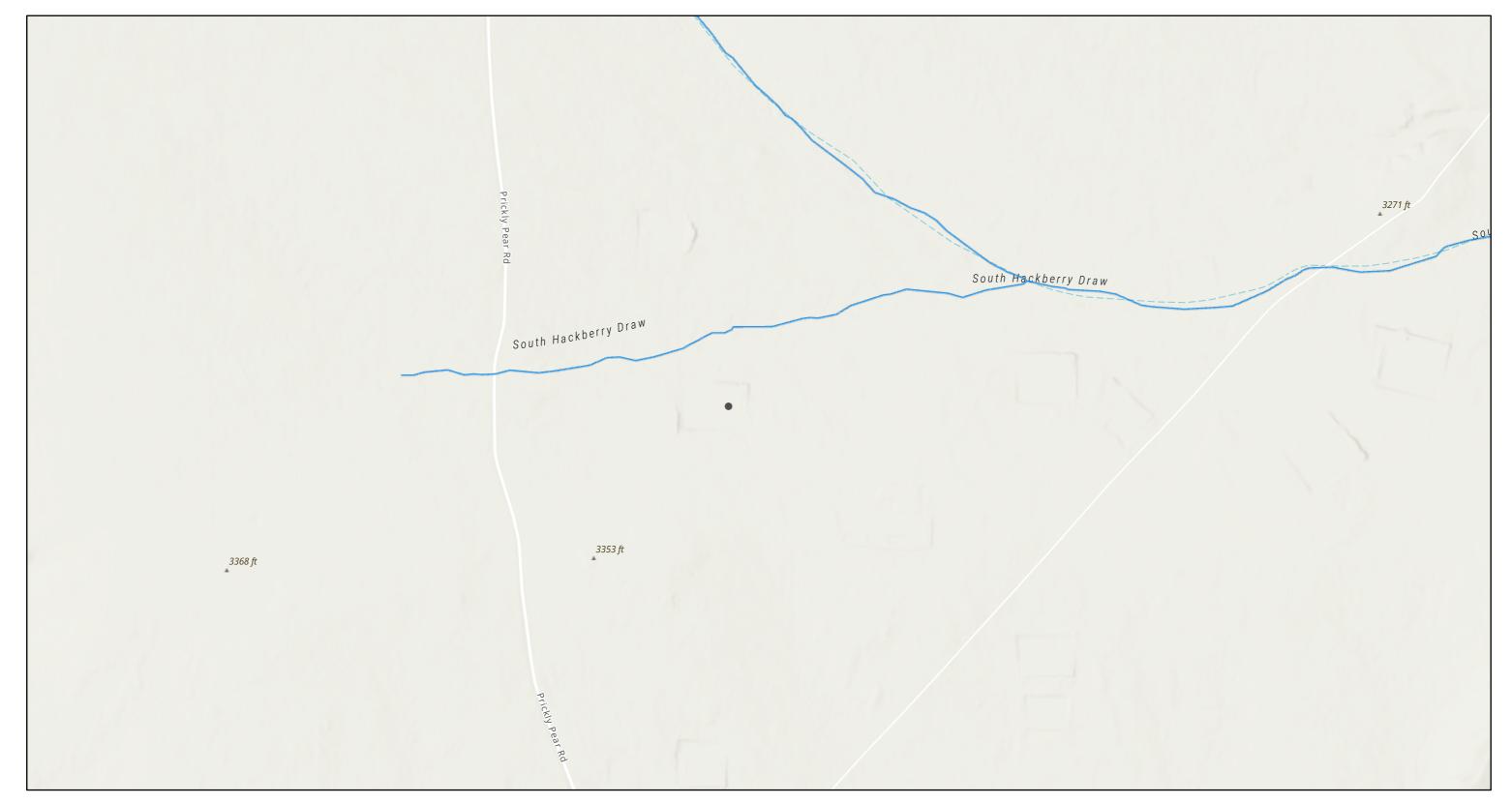
Bureau of Land Management, Texas Parks & Wildlife, Esri, HERE, Garmin, INCREMENT P, USGS, METI/NASA, EPA, USDA

FEMA National Flood Hazard Layer (NFHL)

NFHL Water Lines Water Areas Flood Hazard Boundaries Limit Lines NP SFHA / Flood Zone Boundary Flowage Easement Boundary Flood Hazard Zones 1% Annual Chance Flood Hazard Regulatory Floodway Special Floodway Area of Undetermined Flood Hazard 0.2% Annual Chance Flood Hazard Future Conditions 1% Annual Chance Flood Hazard Area with Reduced Risk Due to Levee Area with Risk Due to Levee FEMA flood layer 0.3mi

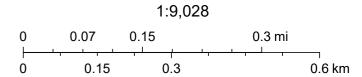
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COTTONWOOD DRAW 22 FEDERAL COM #005H



5/23/2024, 11:10:32 AM

OSE Streams



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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

Action 347214

QUESTIONS

Operator:	OGRID:
CIMAREX ENERGY CO. OF COLORADO	162683
6001 Deauville Blvd	Action Number:
Midland, TX 79706	347214
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Prerequisites	
Incident ID (n#)	nKMW1106054103
Incident Name	NKMW1106054103 COTTONWOOD DRAW 22 FEDERAL COM #005H @ 30-015-37431
Incident Type	Produced Water Release
Incident Status	Reclamation Report Received
Incident Well	[30-015-37431] COTTONWOOD DRAW 22 FEDERAL COM #005H

Location of Release Source	
Please answer all the questions in this group.	
Site Name	COTTONWOOD DRAW 22 FEDERAL COM #005H
Date Release Discovered	08/30/2010
Surface Owner	Federal

Incident Details	
Please answer all the questions in this group.	
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

<u> </u>	
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	Not answered.
Produced Water Released (bbls) Details	Cause: Produced Water Released: 0 BBL Recovered: 0 BBL Lost: 0 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)	Not answered.

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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 347214

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462	11 e, NW 07 505
QUESTI	IONS (continued)
Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683 Action Number: 347214 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)	More info needed to determine if this will be treated as a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Unavailable.
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 s	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.
	idation 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 releate 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: 05/23/2024

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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 347214

QUESTIONS (continued)

Operator:	OGRID:
CIMAREX ENERGY CO. OF COLORADO	162683
6001 Deauville Blvd	Action Number:
Midland, TX 79706	347214
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

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)	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)	Greater than 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 200 and 300 (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 200 and 300 (ft.)	
Did the release impact areas not on an exploration, development, production, or storage site	No	

Remediation Plan		
Please answer all the questions to	hat apply or are indicated. This information must be provided to	o 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 soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.		on 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	al extents of contamination been fully delineated	Yes
Was this release entirely of	ontained 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 CI B)	528
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	1590
GRO+DRO	(EPA SW-846 Method 8015M)	1427
BTEX	(EPA SW-846 Method 8021B or 8260B)	7.2
Benzene	(EPA SW-846 Method 8021B or 8260B)	0
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMA which includes the anticipated timelines for beginning and completing the remediation.		
On what estimated date w	ill the remediation commence	02/05/2022
On what date will (or did) t	he final sampling or liner inspection occur	02/08/2022
On what date will (or was)	the remediation complete(d)	02/15/2022
What is the estimated surfa	ace area (in square feet) that will be reclaimed	148000
What is the estimated volu	me (in cubic yards) that will be reclaimed	540
What is the estimated surfa	ace area (in square feet) that will be remediated	1050
What is the estimated volume (in cubic yards) that will be remediated 540		540
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.		

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

District I

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

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<u>District IV</u> 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 347214

QUESTIONS (continued)

Operator:	OGRID:
CIMAREX ENERGY CO. OF COLORADO	162683
6001 Deauville Blvd	Action Number:
Midland, TX 79706	347214
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

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: 05/23/2024

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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QUESTIONS, Page 5

Action 347214

QUESTIONS	(continued)
QUESTIONS!	(COHUHUCU)

Operator:	OGRID:
CIMAREX ENERGY CO. OF COLORADO	162683
6001 Deauville Blvd	Action Number:
Midland, TX 79706	347214
	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

District I

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, Page 6

Action 347214

QUESTIONS ((continued)

Operator:	OGRID:
CIMAREX ENERGY CO. OF COLORADO	162683
6001 Deauville Blvd	Action Number:
Midland, TX 79706	347214
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Sampling Event Information		
Last sampling notification (C-141N) recorded 347212		
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/08/2022	
What was the (estimated) number of samples that were to be gathered	13	
What was the sampling surface area in square feet	1050	

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	1050	
What was the total volume (cubic yards) remediated	540	
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	148000	
What was the total volume (in cubic yards) reclaimed	540	
Summarize any additional remediation activities not included by answers (above)	Dug and hauled impacted material to landfill. Backfilled with clean backfill material. Reclaimed entire pad (148,000 sqft) and then reseeded the entire area with BLM approved seed mix. Berms have been installed for no access to site or lease road	

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: 05/23/2024

What was the total reclamation surface area (in square feet) for this site

What was the total volume of replacement material (in cubic yards) for this site

District I

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

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

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

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 7

Action 347214

QUESTIONS (continued)

QOLO	QOLO HONO (COntinuca)		
Operator:	OGRID:		
CIMAREX ENERGY CO. OF COLORADO	162683		
6001 Deauville Blvd	Action Number:		
Midland, TX 79706	347214		
	Action Type:		
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)		
QUESTIONS			
Reclamation Report			
Only answer the questions in this group if all reclamation steps have been completed.			
Requesting a reclamation approval with this submission	Voc		

540 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.

148000

Is the soil top layer complete and is it suitable material to establish vegetation	Yes
On what (estimated) date will (or was) the reseeding commence(d)	04/01/2022
Summarize any additional reclamation activities not included by answers (above)	Dug and hauled impacted material to landfill. Backfilled with clean backfill material. Reclaimed entire pad (148,000 sqft) and then reseeded the entire area with BLM approved seed mix. Berms have been installed for no access to site or lease road

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 reseeding plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13

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

Name: Laci Luig Title: ES&H Specialist I hereby agree and sign off to the above statement Email: DL_PermianEnvironmental@coterra.com Date: 05/23/2024

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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 8

Action 347214

QUESTIONS (continued)

Operator:	OGRID:
CIMAREX ENERGY CO. OF COLORADO	162683
6001 Deauville Blvd	Action Number:
Midland, TX 79706	347214
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Revegetation Report		
Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.		
Requesting a restoration complete approval with this submission	No	
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.		

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CONDITIONS

Action 347214

CONDITIONS

Operator:	OGRID:
CIMAREX ENERGY CO. OF COLORADO	162683
6001 Deauville Blvd	Action Number:
Midland, TX 79706	347214
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	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, OCD approval does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.	7/3/2024
amaxwell	All revegetation activities will need to be documented and included in the revegetation report. The revegetation report will need to include: An executive summary of the revegetation activities including: Seed mix, Method of seeding, dates of when the release area was reseeded, information pertinent to inspections, information about any amendments added to the soil, information on how the vegetative cover established meets the life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds per 19.15.29.13 D.(3) NMAC, and any additional information; a scaled Site Map including area that was revegetated in square feet; and pictures of the revegetated areas during reseeding activities, inspections, and final pictures when revegetation is achieved.	7/3/2024