

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

Soil Assessment and Closure Report

Palmillo State Com #004 Incident# nRM2009253961 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

November 25, 2024

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

Subject: Soil Assessment and Closure Report Palmillo State Com #004 Eddy County, NM

Dear Mr. Bratcher,

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

Site Information

The Palmillo State Com #004 is located approximately 24 miles Southeast of Artesia, New Mexico. The legal location for this release is Unit Letter L, Section 32, Township 18 South and Range 29 East in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.702344 North and -104.103283 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 Tonuco loamy fine sand, 0 to 3 percent slopes. The referenced soil data is attached in Appendix II. Drainage courses in this area are typically dry. This project site is not located in a high Karst potential area (Karst Map, Appendix I).

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Groundwater and Site Characterization

The New Mexico Office of the State Engineer web site indicates that the nearest reported depth to groundwater is 180-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

180 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

Due to groundwater data being outside the recommended 0.5-mile radius of the release, a groundwater determination bore was drilled to a depth of 105-foot BGS. No groundwater was present the day of drilling nor 72-hours after drilling occurred. As groundwater is greater than 100-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/I TDS	Constituent	Method*	Limit**				
>100 feet	Chloride **	EPA 300.0 or SM4500 CIB	20,000 mg/kg				
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2,500 mg/kg				
	GRO+DRO	EPA SW-846 Method 8015M	1,000 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 March 26, 2020, approximately 41 barrels (bbls) of produced water had been released into the unlined containment. Only 5 bbls of water was recovered. A hydrovac truck excavated the contaminated soil from the containment as well.

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Soil Assessment Activities

H&R mobilized personnel to begin soil assessment sampling activities of the release area. Grab samples were obtained by way of air rotary drill and transported to Cardinal Laboratory for analysis. The results of that analysis are presented in the following data table. Initial soil assessment sampling locations are illustrated on Soil Assessment Map, Appendix I. Eastern delineation of this spill incident can be found found in Appendix VI, as that references an additional NMOCD spill incident (nAPP2422766341).Photographic documentation is attached in Appendix IV. A complete laboratory report can be found in Appendix V.

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 Crit NMAC		teria 19.15.29	50 mg/kg	10 mg/kg	1000 ı	mg/kg	2500 mg/kg	2500 mg/kg	mg/kg
		0-1'	ND	ND	ND	ND	ND	0	16
BH-1	11/11/2024	2'	ND	ND	ND	ND	ND	0	16
DU-1	11/11/2024	3'	ND	ND	ND	ND	ND	0	64
		4'	ND	ND	ND	ND	ND	0	64
		0-1'	ND	ND	ND	ND	ND	0	48
BU 2	11/11/2024	2'	ND	ND	ND	ND	ND	0	64
BH-2	11/11/2024	3'	ND	ND	ND	ND	ND	0	64
		4'	ND	ND	ND	ND	ND	0	64
		0-1'	ND	ND	ND	ND	ND	0	48
BU 2	11/11/2024	2'	ND	ND	ND	ND	ND	0	16
BH-3	11/11/2024	3'	ND	ND	ND	ND	ND	0	16
		4'	ND	ND	ND	ND	ND	0	ND
H-1	11/11/2024	0-1'	ND	ND	ND	ND	ND	0	ND
H-2	11/11/2024	0-1'	ND	ND	ND	ND	ND	0	ND
H-3	11/11/2024	0-1'	ND	ND	ND	ND	ND	0	ND
	•	ND = Analyte	e Not Detected	BH = Vertical	Bore Hole Sam	ple H = Horizo	ontal Sample	•	

Based on the results of our soil assessment, no remediation or further actions are necessary.

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Closure

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

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

Respectfully submitted,

H&R Enterprises, LLC

Michael Collier Environmental Project Manager

Attachments:

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



SITE MAPS

KARST POTENTIAL MAP

TOPOGRAPHIC MAP

LOCATOR MAP

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Cimarex Energy Co. of Colorado Incident# nRM2009253961 Eddy County, NM Soil Assessment Map Legend

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- Horizontal Sample Point
- Vertical Bore Hole Sample Point



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Palmillo State Com #004

Cimarex Energy Co. of Colorado Incident# nRM2009253961 Eddy County, NM Karst Potential Map Page 9 of 112 Legend High Low Medium Palmillo State Com #004

360

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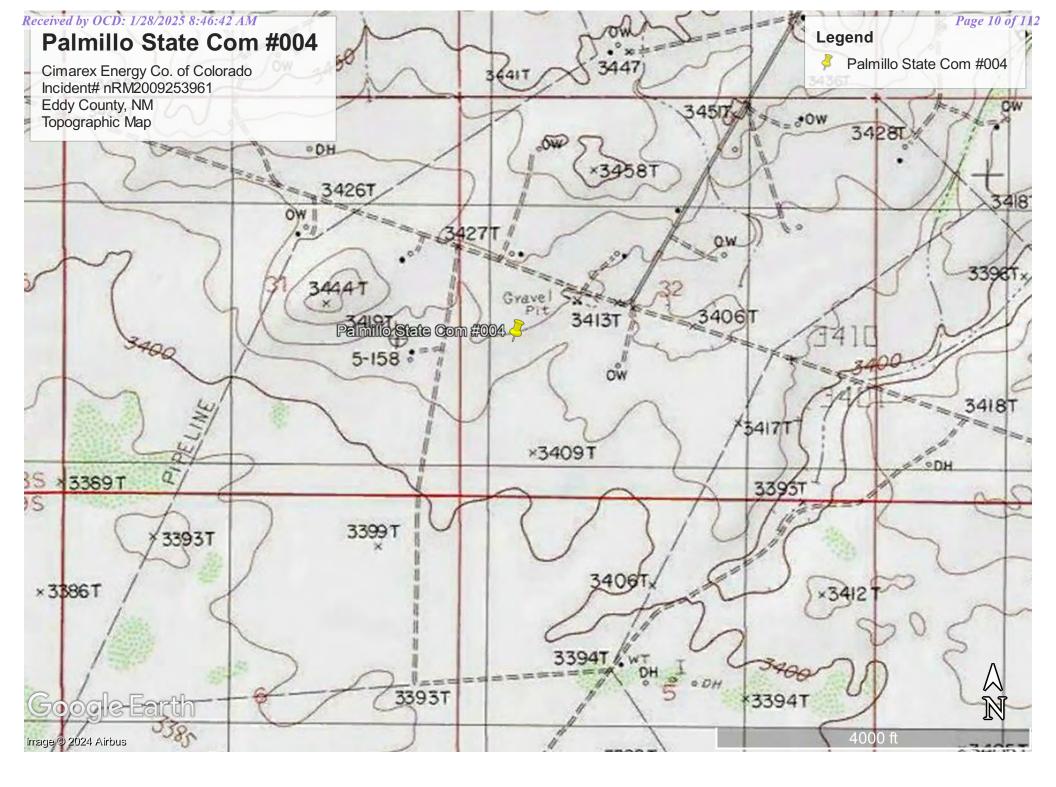
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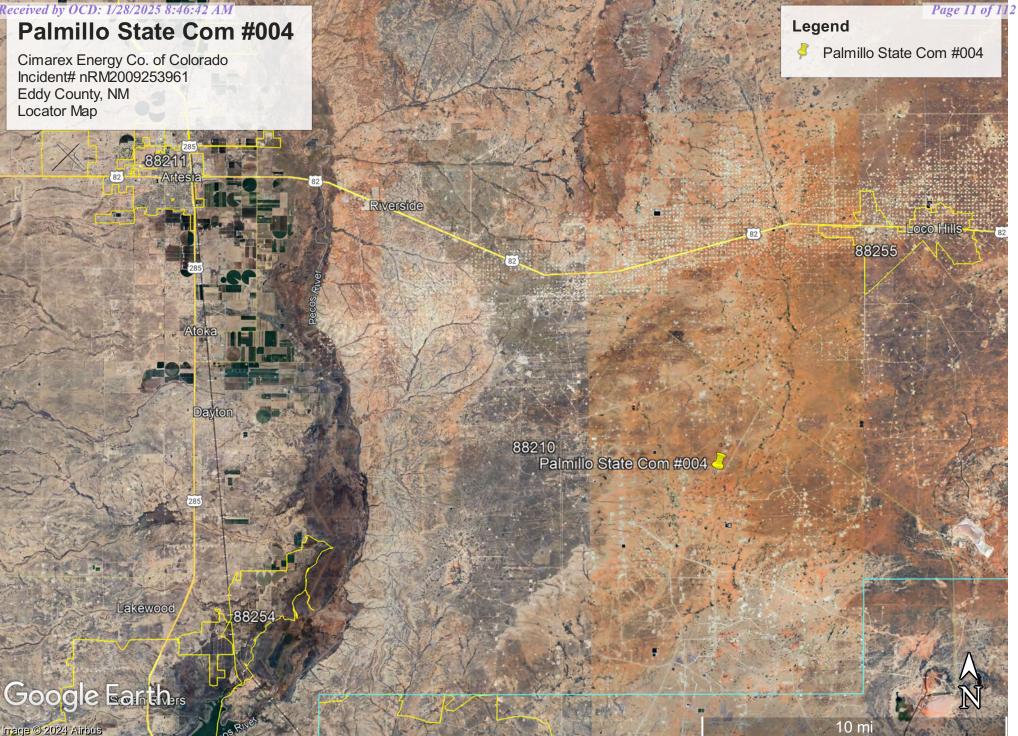
Palmillo State Com #004



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APPENDIX II

GROUNDWATER DATA

SOIL SURVEY

FEMA FLOOD ZONE

NMOSE WELL LOG & PLUGGING RECORD

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Water Column/Average Depth to Water

(ACLW##### in the PODSLIffix indicates the PODSLASSEE replaced & no longerServes a water right file.)	(R=POD has been replaced, O=orphaned, C=the file I (quarters are closed) smallest to I argest)						(NAD83 UTM in met				
POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	х	
<u>CP 01618 POD1</u>		СР	ED	SW	SE	NE	29	18S	29E	585119.6	362(
<u>CP 01858 POD1</u>		СР	ED	SE	NW	SE	01	19S	28E	581872.2	3617
Record©ount: 2 Basin/County Se County: ED											

* UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and isaccepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, Isability, or suitability for any particular purpose of the data.

11/22/24 9:33 AM MST Water Column/Average Depth to Water

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PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State	Engineer Well Number: CP-2023	James Hawley H&P)		
	Owner: Coterra Energy Co. (Agent	James nawley nak)	Phone No.:	
	ng address: P.O. Box 3641			
City:	Hobbs	State:	NM	Zip code: 88241
I. W	ELL PLUGGING INFORMATIO			
1)	Name of well drilling company t	hat plugged well: H&R En	nterprises, LLC.	
2)	New Mexico Well Driller Licens	se No.: WD-1862	E	xpiration Date: 6-16-25
3)	Well plugging activities were su Nathan Smelcer	pervised by the following	well driller(s)/rig supervi	sor(s):
4)	Date well plugging began: 11-	15-24 D	ate well plugging conclu	ded: 11-15-24
5)	GPS Well Location: Latitu Long	ide: <u>32</u> deg. itude: <u>104</u> deg,	42 min, 09 06 min, 12	9.6 sec 2.2 sec, WGS 84
5)	Depth of well confirmed at initia by the following manner: well se		95' ft below ground le	vel (bgl),
7)	Static water level measured at in	itiation of plugging:N	/Aft bgl	
8)	Date well plugging plan of opera	ations was approved by the	State Engineer:10-18	3-24
))	Were all plugging activities cons differences between the approve	sistent with an approved pl	ugging plan? yes	If not, please describe the additional pages as needed):

Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with 10) horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

Depth (ft bgl)	Plugging <u>Material Used</u> (include any additives used)	Volume of Material Placed (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement Method (tremie pipe, other)	<u>Comments</u> ("casing perforated first", "open annular space also plugged", etc.)
-	0' - 10' Hydrated Bentonite	Approx. 15 gallons	15 gallons	Pour	
-	10' - 105' Drill Cuttibgs	Approx. 139 gallons	139 gallons	Pour	
-	-				
-					
	-				
-	-				
_	-				
-	-				
_		MULTIPLY	BY AND OBTAIN		
	ATURE:	cubic feet x 7	7.4805 = gallons 1.97 = gallons		

III. SIGNATURE:

I. James Hawley

, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Signature of Well Driller

11-18-24

Date



WELL RECORD & LOG OFFICE OF THE STATE ENGINEER

POLMILLO 11/18/24

www.ose.state.nm.us

-									
NO	OSE POD NO. (Pod 1	WELL NO	.)	WELL TAG ID NO.		OSE FILE NO	S).		
OCATI	WELL OWNER Coterra Ener			ley H&R Enterprises, LLC)		PHONE (OPTI	ONAL)		
AND WELL LOCATION	WELL OWNER P.O. Box 36		G ADDRESS			CITY Hobbs		state NM 88241	ZIP
L AND I	WELL		D	EGREES MINUTES 32 42	SECONDS 09.6 N	* ACCURACY	REQUIRED: ONE TEN	TH OF A SECOND	
GENERAL	(FROM GPS)		NGITUDE	104 06	12.2 W		QUIRED: WGS 84		
1. GEN	DESCRIPTION	RELATIN	NG WELL LOCATION TO	O STREET ADDRESS AND COMMON	LANDMARKS - PL	SS (SECTION, TO	WNSHЛP, RANGE) WH	ERE AVAILABLE	
-	LICENSE NO. WD-18	62	NAME OF LICENSEI	DRILLER James Hawley			NAME OF WELL DR	ILLING COMPANY Enterprises, LLC	
	DRILLING STA		DRILLING ENDED 11-11-24	DEPTH OF COMPLETED WELL (FT 105'		LE DEPTH (FT) 105'		ST ENCOUNTERED (FT N/A)
z	COMPLETED	WELL IS:	ARTESIAN *add	DRY HOLE SHALLOW	W (UNCONFINED)	STATIC IN COM	WATER LEVEL	A DATE STATIC	
ATIO	DRILLING FLU	ID:	AIR		ES - SPECIFY:	(FT)		11-1	5-24
ORM	DRILLING ME	THOD: 🗸	ROTARY HAM	MER CABLE TOOL OTHE	R - SPECIFY:		CHECK INSTAL	HERE IF PITLESS ADA	PTER IS
SINF	DEPTH (fe		BORE HOLE	CASING MATERIAL AND/OR GRADE CA		ASING	CASING	CASING WALL	SLOT
2. DRILLING & CASING INFORMATION	FROM TO		DIAM (inches)	(include each casing string, a note sections of screen)	and	NECTION TYPE ling diameter)	INSIDE DIAM. (inches)	THICKNESS (inches)	SIZE (inches)
G&C	0'	105'	6'	No casing left in hole					
TLIN									
. DRI		_							
			_						
6									
Т	DEPTH (fe		BORE HOLE DIAM. (inches)		INTERVAL		AMOUNT	METHO	D OF
ERIA	FROM	ТО	Dirint. (menes)	*(if using Centralizers for Artesian		spacing below)	(cubic feet)	PLACEN	MENT
TAM			-						
ANNULAR MATERIAL									
3. ANN									
FOR	OSE INTERNA	L USE		POD NO.			WELL RECORD &	LOG (Version 09/2	2/2022)
LOC	ATION			FOUND.		WELL TAG IE		PAGE	1 OF 2

	DEPTH (feet bgl)		COLOR AND TYPE OF MATERIAL	ENCOLI	NTERED -	11/ 4	TER	ESTIMATED
	FROM	то	THICKNESS (feet)	INCLUDE WATER-BEARING CAVITIES (attach supplemental sheets to fully	OR FRA	CTURE ZONES	BEA	RING? 5 / NO)	YIELD FOR WATER- BEARING ZONES (gpm)
	0'	5'	5'	Sandy Topsoil			Y	√ N	
	5'	26'	21'	Sandy Caliche			Y	√ N	
	26'	105'	79'	Sand & Gravel			Y	√ N	
							Y	N	
							Y	N	
T							Y	N	
4. HYDROGEOLOGIC LOG OF WELL							Y	N	
OF							Y	N	
DOG							Y	N	
I DIS							Y	N	
TOC							Y	N	
GEO							Y	N	
ORO							Y	N	
IXH							Y	N	
4.							Y	N	
							·Y	N	
							Y	N	
							Y	N	
							Y	N	
							Y	Ν	
							Y	N	
	METHOD U			OF WATER-BEARING STRATA: BAILER OTHER – SPECIFY: Dry He	ole		AL ESTI	MATED D (gpm):	0.00
NO	WELL TES	T TEST STAR	RESULTS - ATTA T TIME, END TIM	ACH A COPY OF DATA COLLECTED DURING IE, AND A TABLE SHOWING DISCHARGE A	G WELL	TESTING, INCLUDI WDOWN OVER TH	NG DISC E TESTI	CHARGE NG PERIO	METHOD, DD.
TEST; RIG SUPERVISION	MISCELLA	NEOUS IN	Wa	ell was gauged for water on 11-15-24, well b s backfilled to 10' BGS with drill cuttings, th face.	ore was een hydra	dry, temporary well ated bentonite chips	casing were po	was remo	oved, bore hole m 10' BGS to
5. TES	PRINT NAM		RILL RIG SUPER	VISOR(S) THAT PROVIDED ONSITE SUPERV	ISION O	OF WELL CONSTRUC	CTION C	THER TH	HAN LICENSEE:
6. SIGNATURE				ES THAT, TO THE BEST OF HIS OR HER KN ESCRIBED HOLE AND THAT HE OR SHE WI DAYS AFTER COMPLETION OF WELL DRI		GE AND BELIEF, TI THIS WELL RECOR	HE FORI	EGOING I	IS A TRUE AND ATE ENGINEER
6. SI	A	SIGNAT	URE OF DRALLE	James Hawley 7 PRINT SIGNEE NAME	_		11-	18-24	
			0					DATE	
	E OSE INTERN E NO.	NAL USE		1.000.000		WR-20 WELL REG	CORD &	LOG (Ve	rsion 09/22/2022)
				POD NO.		TRN NO.			
LUC	CATION				WELI	TAG ID NO.			PAGE 2 OF 2

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Eddy Area, New Mexico

TF—Tonuco loamy fine sand, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 1w61 Elevation: 3,000 to 4,100 feet Mean annual precipitation: 10 to 14 inches Mean annual air temperature: 60 to 64 degrees F Frost-free period: 200 to 217 days Farmland classification: Not prime farmland

Map Unit Composition

Tonuco and similar soils: 98 percent Minor components: 2 percent Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Tonuco

Setting

Landform: Plains, alluvial fans Landform position (three-dimensional): Rise Down-slope shape: Convex, linear Across-slope shape: Linear Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 5 inches: loamy fine sand *H2 - 5 to 15 inches:* loamy fine sand *H3 - 15 to 19 inches:* indurated

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 6 to 20 inches to petrocalcic
Drainage class: Excessively drained
Runoff class: Very high
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Maximum salinity: Nonsaline (0.0 to 1.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Very low (about 1.3 inches)

Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 7e Hydrologic Soil Group: D Ecological site: R070BD004NM - Sandy Hydric soil rating: No Map Unit Description: Tonuco loamy fine sand, 0 to 3 percent slopes---Eddy Area, New Mexico

Minor Components

Tonuco

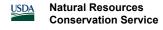
Percent of map unit: 1 percent *Ecological site:* R070BD004NM - Sandy *Hydric soil rating:* No

Dune land

Percent of map unit: 1 percent Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico Survey Area Data: Version 20, Sep 3, 2024



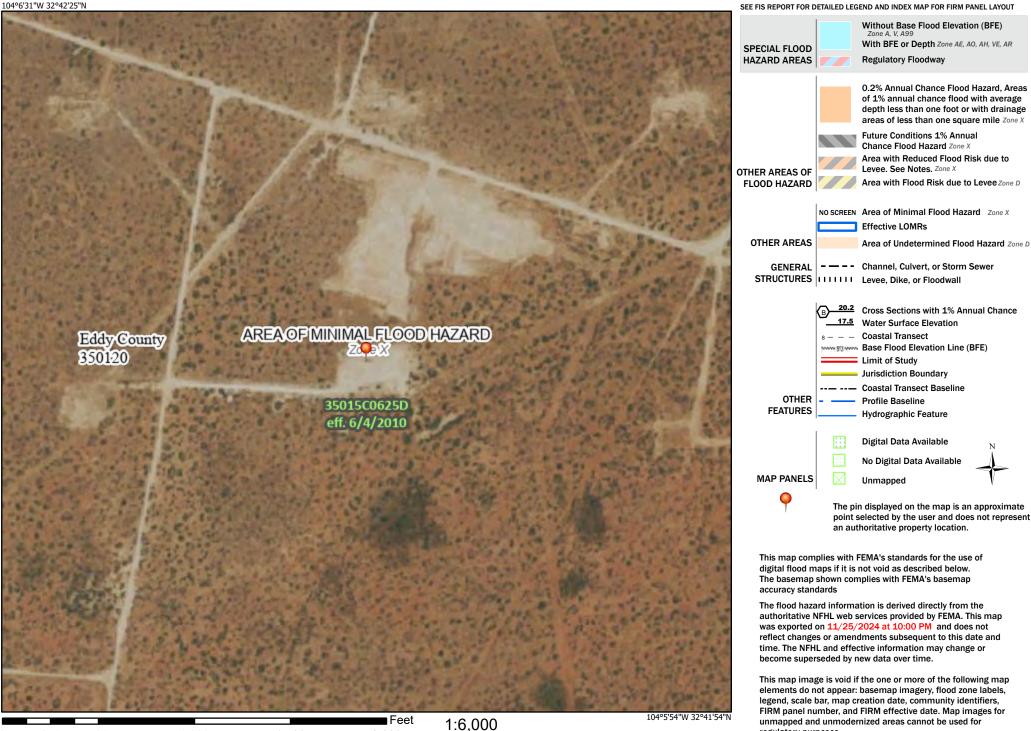
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Legend

regulatory purposes.

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2,000



C-141

NMOCD CORRESPONDENCE

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District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141

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

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Cimarex Energy Co.	OGRID: 215099
Contact Name: Laci Luig	Contact Telephone: 432.571.7800
Contact email: lluig@cimarex.com	Incident # (assigned by OCD)
Contact mailing address: 600 N Marienfeld Street, Ste. 600 Midland, TX 79701	

Location of Release Source

Latitude 32.70265_

Longitude -104.10348_ (NAD 83 in decimal degrees to 5 decimal places)

Site Name: Palmillo State 4H	Site Type: Battery
Date Release Discovered: 3/26/2020	API# (<i>if applicable</i>) 30-015-31497

Unit Letter	Section	Township	Range	County
L	32	18S	29E	Eddy

Surface Owner: State Federal Tribal Private (Name:

Nature and Volume of Release

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

Volume Released (bbls)	Volume Recovered (bbls)
Volume Released (bbls) 41 bbls	Volume Recovered (bbls) 5 bbls
Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Volume Released (bbls)	Volume Recovered (bbls)
Volume Released (Mcf)	Volume Recovered (Mcf)
Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
	Volume Released (bbls) 41 bbls Is the concentration of dissolved chloride in the produced water >10,000 mg/l? Volume Released (bbls) Volume Released (Mcf)

Cause of Release

Hole in tank caused spill of produced water into unlined containment. A vacuum truck removed remaining fluid from tank and 5 bbls produced water in containment. A hydrovac truck picked up contaminated soil inside berm area and disposed at R-360. The tank will be cleaned and checked for repairs. We will delineate impacted soil area, determine clean-up and request approval to remediate.

Incident ID	
District RP	
Facility ID	
Application ID	

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Was this a major	If YES, for what reason(s) does the responsible party consider this a major release?
release as defined by	The amount of the release is over 25 barrels.
19.15.29.7(A) NMAC?	
Yes No	
If YES, was immediate no	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
By: Gloria Garza	
2	rt Hamlet, Victoria Venegas and Jim Griswold

Initial Response

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

 \square The source of the release has been stopped.

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

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

All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

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

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

Printed Name: Laci Luig	Title: Engineer Tech
Signature: $A_{a_{c}}$	Date: 4/1/2020
email: lluigcimarex.com	Telephone: (432) 571-7810
OCD Only	
Received by:	

From:	Velez, Nelson, EMNRD
To:	Laci Luig
Subject:	Re: [EXTERNAL] Palmillo State 4 Sample Variance Request
Date:	Friday, November 22, 2024 4:13:47 PM
Attachments:	image001.jpg
	Outlook-4n1cob0h.png
	<u>0.jpg</u>

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.

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Good afternoon Laci,

Thanks for the correspondence. After careful review of the information provided, OCD approves the variance requested.

In the future, please provide sampling notification for delineation sampling to ensure that they may possibly be used as final samples toward closure. Adherence to Part 29 as written, is vital to achieving the end results that everyone desires. This approval is for these two (2) incidents and should not be viewed as precedent for any future incidents. All incidents will be reviewed on a case-by-case basis and follow the rule as it was intended.

Lastly, both incidents remediation due dates have expired. Please submit your final remediation closure report as soon as possible.

OCD will use its discretion to determine if additional enforcement action is warranted. Cooperation from Cimarex will be considered when determining any enforcement actions, which may include civil penalties.

Please keep a copy of this communication for inclusion within the appropriate report submittal.

The OCD requires a copy of all correspondence relative to remedial activities be included in all proposals and/or final closure reports. Correspondence required to be included in reports may include, but not limited to, notifications for liner inspections, sample events, spill/release/fire, and request for time extensions or variances.

Regards,

Nelson Velez • Environmental Specialist - Adv Environmental Bureau | EMNRD - Oil Conservation Division 1000 Rio Brazos Road | Aztec, NM 87410 (505) 469-6146 | nelson.velez@emnrd.nm.gov http://www.emnrd.nm.gov/ocd_



From: Laci Luig <Laci.Luig@coterra.com>
Sent: Friday, November 22, 2024 1:19 PM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Subject: [EXTERNAL] Palmillo State 4 Sample Variance Request

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Mr. Velez,

Thank you for taking my call this morning. As I mentioned, Cimarex has 2 open incidents at the Palmillo State 4, located at 32.70265, -104.10348, in Eddy County, NM.

Incident Numbers:

nRM2009253961 – release date 3/26/2020 nAPP2422766341 – release date 8/14/2024

On November 11, 2024, H&R Enterprises arrived on location to drill delineation sample points inside the 2 earthen berms from surface to 4' bgs, or until field screens were below 600 mg/kg chlorides. The sample map along with the lab data table for each incident is attached.

While on location, a ground water determination bore was drilled to 105' below surface then bailed after 72 hours to prove no shallow groundwater. The closest USGS record to groundwater is 2.32 miles to the Southeast with a DTW record of 205' bgs. Additionally, the Palmillo State 4 is located in a low karst area and has no potential impact to health and safety of humans, groundwater or the environment. Based on the characterization of the site, and analytical data of the delineation samples, Cimarex will follow Table I Closure Criteria for >100' DTW.

As it was not anticipated for the delineation samples collected on November 11th to have been used as the final samples, Cimarex is respectfully requesting a variance to spill rule <u>19.15.29.12</u> subpart D (1)(a) that requires a 2 business day notice to conducting final sampling.

Thank you,



Laci Luig | Environmental, Health & Safety Specialist T: 432.571.7810 | M: 432.208.3035 | laci.luig@coterra.com | www.coterra.com Coterra Energy Inc. | 6001 Deauville Blvd., Suite 300N | Midland, TX 79706

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

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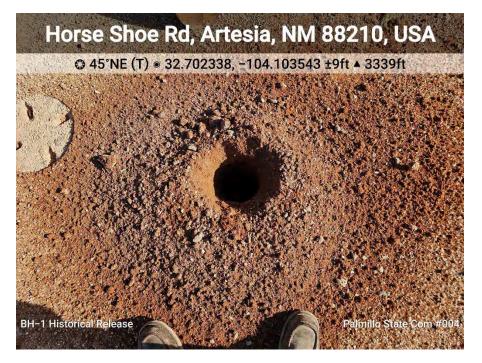


PHOTOGRAPHIC DOCUMENTATION

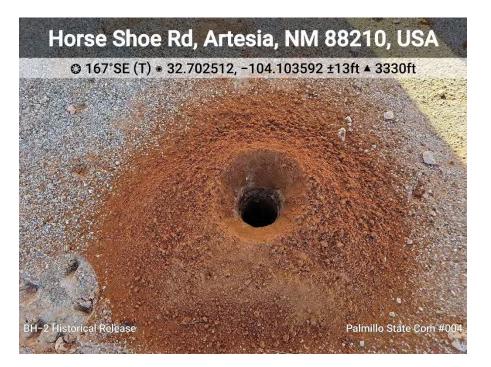
Released to Imaging: 5/14/2025 9:45:25 AM

PHOTOGRAPHIC DOCUMENTATION

BORE HOLE PHOTOGRAPHS

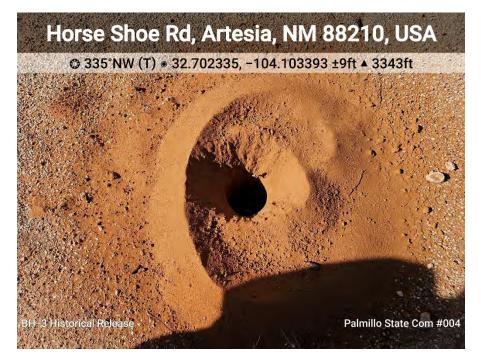


BH-1



BH-2

PHOTOGRAPHIC DOCUMENTATION



BH-3

.



LABORATORY REPORT

Released to Imaging: 5/14/2025 9:45:25 AM



November 15, 2024

MICHAEL COLLIER

H & R ENTERPRISES

1010 GAMBLIN ROAD

HOBBS, NM 88240

RE: PALMILLO STATE COM #004

Enclosed are the results of analyses for samples received by the laboratory on 11/12/24 12:02.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_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.

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. Keine

Celey D. Keene Lab Director/Quality Manager



	H & R ENTERPRISES MICHAEL COLLIER 1010 GAMBLIN ROAD HOBBS NM, 88240 Fax To: NONE							
Received:	11/12/2024	Sampling Date:	11/11/2024					
Reported:	11/15/2024	Sampling Type:	Soil					
Project Name:	PALMILLO STATE COM #004	Sampling Condition:	Cool & Intact					
Project Number:	(PAL OLD)	Sample Received By:	Shalyn Rodriguez					
Project Location:	COTERRA - EDDY							

Sample ID: BH - 1 0-01' (H246884-01)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	11/13/2024	ND	1.94	97.2	2.00	4.57	
Toluene*	<0.050	0.050	11/13/2024	ND	2.07	103	2.00	3.30	
Ethylbenzene*	<0.050	0.050	11/13/2024	ND	2.25	112	2.00	3.48	
Total Xylenes*	<0.150	0.150	11/13/2024	ND	6.71	112	6.00	3.90	
Total BTEX	<0.300	0.300	11/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/13/2024	ND	416	104	400	7.41	
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	11/12/2024	ND	201	101	200	4.45	
DRO >C10-C28*	<10.0	10.0	11/12/2024	ND	184	91.9	200	0.0245	
EXT DRO >C28-C36	<10.0	10.0	11/12/2024	ND					
Surrogate: 1-Chlorooctane	95.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106 9	% 49.1-14	0						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



	H & R ENTERPR MICHAEL COLLI 1010 GAMBLIN HOBBS NM, 882 Fax To: NC	ER ROAD	
Received: Reported: Project Name: Project Number: Project Location:	11/12/2024 11/15/2024 PALMILLO STATE COM #004 (PAL OLD) COTERRA - EDDY	Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	11/11/2024 Soil Cool & Intact Shalyn Rodriguez

Sample ID: BH - 1 2' (H246884-02)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/14/2024	ND	2.06	103	2.00	3.63	QM-07
Toluene*	<0.050	0.050	11/14/2024	ND	2.12	106	2.00	3.71	QM-07
Ethylbenzene*	<0.050	0.050	11/14/2024	ND	2.11	106	2.00	3.74	QM-07
Total Xylenes*	<0.150	0.150	11/14/2024	ND	6.28	105	6.00	3.96	QM-07
Total BTEX	<0.300	0.300	11/14/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/13/2024	ND	416	104	400	7.41	
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	11/12/2024	ND	201	101	200	4.45	
DRO >C10-C28*	<10.0	10.0	11/12/2024	ND	184	91.9	200	0.0245	
EXT DRO >C28-C36	<10.0	10.0	11/12/2024	ND					
Surrogate: 1-Chlorooctane	104 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	117 9	% 49.1-14	8						

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*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



	H & R ENTERPRISES MICHAEL COLLIER 1010 GAMBLIN ROAD HOBBS NM, 88240 Fax To: NONE		
Received: Reported: Project Name: Project Number: Project Location:	11/12/2024 11/15/2024 PALMILLO STATE COM #004 (PAL OLD) COTERRA - EDDY	Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	11/11/2024 Soil Cool & Intact Shalyn Rodriguez

Sample ID: BH - 1 3' (H246884-03)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	11/14/2024	ND	2.06	103	2.00	3.63	
Toluene*	<0.050	0.050	11/14/2024	ND	2.12	106	2.00	3.71	
Ethylbenzene*	<0.050	0.050	11/14/2024	ND	2.11	106	2.00	3.74	
Total Xylenes*	<0.150	0.150	11/14/2024	ND	6.28	105	6.00	3.96	
Total BTEX	<0.300	0.300	11/14/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/13/2024	ND	416	104	400	7.41	
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	11/12/2024	ND	201	101	200	4.45	
DRO >C10-C28*	<10.0	10.0	11/12/2024	ND	184	91.9	200	0.0245	
EXT DRO >C28-C36	<10.0	10.0	11/12/2024	ND					
Surrogate: 1-Chlorooctane	101 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	113 9	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



H & R ENTERPRISES MICHAEL COLLIER 1010 GAMBLIN ROAD HOBBS NM, 88240 Fax To: NONE										
Received: Reported: Project Name: Project Number: Project Location:	11/12/2024 11/15/2024 PALMILLO STATE COM #004 (PAL OLD) COTERRA - EDDY		Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	11/11/2024 Soil Cool & Intact Shalyn Rodriguez						

Sample ID: BH - 1 4' (H246884-04)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/14/2024	ND	2.06	103	2.00	3.63	
Toluene*	<0.050	0.050	11/14/2024	ND	2.12	106	2.00	3.71	
Ethylbenzene*	<0.050	0.050	11/14/2024	ND	2.11	106	2.00	3.74	
Total Xylenes*	<0.150	0.150	11/14/2024	ND	6.28	105	6.00	3.96	
Total BTEX	<0.300	0.300	11/14/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/13/2024	ND	416	104	400	7.41	
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	11/13/2024	ND	201	101	200	4.45	
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	184	91.9	200	0.0245	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					
Surrogate: 1-Chlorooctane	105 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	116 9	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



	H & R ENTERPRI MICHAEL COLLIE 1010 GAMBLIN R HOBBS NM, 8824 Fax To: NOM	ER ROAD 40	
Received: Reported: Project Name: Project Number: Project Location:	11/12/2024 11/15/2024 PALMILLO STATE COM #004 (PAL OLD) COTERRA - EDDY	Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	11/11/2024 Soil Cool & Intact Shalyn Rodriguez

Sample ID: BH - 2 0-01' (H246884-05)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/14/2024	ND	2.06	103	2.00	3.63	
Toluene*	<0.050	0.050	11/14/2024	ND	2.12	106	2.00	3.71	
Ethylbenzene*	<0.050	0.050	11/14/2024	ND	2.11	106	2.00	3.74	
Total Xylenes*	<0.150	0.150	11/14/2024	ND	6.28	105	6.00	3.96	
Total BTEX	<0.300	0.300	11/14/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/13/2024	ND	416	104	400	7.41	
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	11/13/2024	ND	201	101	200	4.45	
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	184	91.9	200	0.0245	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					
Surrogate: 1-Chlorooctane	99.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110 9	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



	H & R ENTERPR MICHAEL COLLI 1010 GAMBLIN HOBBS NM, 882 Fax To: NC	ER ROAD	
Received: Reported: Project Name: Project Number: Project Location:	11/12/2024 11/15/2024 PALMILLO STATE COM #004 (PAL OLD) COTERRA - EDDY	Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	11/11/2024 Soil Cool & Intact Shalyn Rodriguez

Sample ID: BH - 2 2' (H246884-06)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	11/14/2024	ND	2.06	103	2.00	3.63	
Toluene*	<0.050	0.050	11/14/2024	ND	2.12	106	2.00	3.71	
Ethylbenzene*	<0.050	0.050	11/14/2024	ND	2.11	106	2.00	3.74	
Total Xylenes*	<0.150	0.150	11/14/2024	ND	6.28	105	6.00	3.96	
Total BTEX	<0.300	0.300	11/14/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/13/2024	ND	416	104	400	7.41	
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	11/13/2024	ND	201	101	200	4.45	
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	184	91.9	200	0.0245	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					
Surrogate: 1-Chlorooctane	108	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	120	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



	H & R ENTERPRISES MICHAEL COLLIER 1010 GAMBLIN ROAD HOBBS NM, 88240 Fax To: NONE		
Received: Reported: Project Name: Project Number: Project Location:	11/12/2024 11/15/2024 PALMILLO STATE COM #004 (PAL OLD) COTERRA - EDDY	Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	11/11/2024 Soil Cool & Intact Shalyn Rodriguez

Sample ID: BH - 2 3' (H246884-07)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	11/14/2024	ND	2.06	103	2.00	3.63	
Toluene*	<0.050	0.050	11/14/2024	ND	2.12	106	2.00	3.71	
Ethylbenzene*	<0.050	0.050	11/14/2024	ND	2.11	106	2.00	3.74	
Total Xylenes*	<0.150	0.150	11/14/2024	ND	6.28	105	6.00	3.96	
Total BTEX	<0.300	0.300	11/14/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/13/2024	ND	416	104	400	7.41	
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	11/13/2024	ND	201	101	200	4.45	
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	184	91.9	200	0.0245	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					
Surrogate: 1-Chlorooctane	94.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



	H & R ENTERPRISE MICHAEL COLLIER 1010 GAMBLIN RO HOBBS NM, 88240 Fax To: NONE	AD	
Received: Reported: Project Name: Project Number: Project Location:	11/12/2024 11/15/2024 PALMILLO STATE COM #004 (PAL OLD) COTERRA - EDDY	Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	11/11/2024 Soil Cool & Intact Shalyn Rodriguez

Sample ID: BH - 2 4' (H246884-08)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/14/2024	ND	2.06	103	2.00	3.63	
Toluene*	<0.050	0.050	11/14/2024	ND	2.12	106	2.00	3.71	
Ethylbenzene*	<0.050	0.050	11/14/2024	ND	2.11	106	2.00	3.74	
Total Xylenes*	<0.150	0.150	11/14/2024	ND	6.28	105	6.00	3.96	
Total BTEX	<0.300	0.300	11/14/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/13/2024	ND	416	104	400	7.41	
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	11/13/2024	ND	201	101	200	4.45	
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	184	91.9	200	0.0245	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					
Surrogate: 1-Chlorooctane	105 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114 9	% 49.1-14	8						

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*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



	H & R ENTERPRISES MICHAEL COLLIER 1010 GAMBLIN ROAD HOBBS NM, 88240 Fax To: NONE		
Received: Reported: Project Name: Project Number: Project Location:	11/12/2024 11/15/2024 PALMILLO STATE COM #004 (PAL OLD) COTERRA - EDDY	Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	11/11/2024 Soil Cool & Intact Shalyn Rodriguez

Sample ID: BH - 3 0-01' (H246884-09)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	11/14/2024	ND	2.06	103	2.00	3.63	
Toluene*	<0.050	0.050	11/14/2024	ND	2.12	106	2.00	3.71	
Ethylbenzene*	<0.050	0.050	11/14/2024	ND	2.11	106	2.00	3.74	
Total Xylenes*	<0.150	0.150	11/14/2024	ND	6.28	105	6.00	3.96	
Total BTEX	<0.300	0.300	11/14/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/13/2024	ND	416	104	400	7.41	
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	11/13/2024	ND	201	101	200	4.45	
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	184	91.9	200	0.0245	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					
Surrogate: 1-Chlorooctane	102	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114 9	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



	H & R ENTERPRISES MICHAEL COLLIER 1010 GAMBLIN ROAD HOBBS NM, 88240 Fax To: NONE		
Received: Reported: Project Name: Project Number: Project Location:	11/12/2024 11/15/2024 PALMILLO STATE COM #004 (PAL OLD) COTERRA - EDDY	Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	11/11/2024 Soil Cool & Intact Shalyn Rodriguez

Sample ID: BH - 3 2' (H246884-10)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	11/14/2024	ND	2.06	103	2.00	3.63	
Toluene*	<0.050	0.050	11/14/2024	ND	2.12	106	2.00	3.71	
Ethylbenzene*	<0.050	0.050	11/14/2024	ND	2.11	106	2.00	3.74	
Total Xylenes*	<0.150	0.150	11/14/2024	ND	6.28	105	6.00	3.96	
Total BTEX	<0.300	0.300	11/14/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/13/2024	ND	416	104	400	3.77	
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	11/13/2024	ND	201	101	200	4.45	
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	184	91.9	200	0.0245	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					
Surrogate: 1-Chlorooctane	110 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	123	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



	H & R ENTERPRISES MICHAEL COLLIER 1010 GAMBLIN ROAD HOBBS NM, 88240 Fax To: NONE		
Received: Reported: Project Name: Project Number: Project Location:	11/12/2024 11/15/2024 PALMILLO STATE COM #004 (PAL OLD) COTERRA - EDDY	Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	11/11/2024 Soil Cool & Intact Shalyn Rodriguez

Sample ID: BH - 3 3' (H246884-11)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/14/2024	ND	2.06	103	2.00	3.63	
Toluene*	<0.050	0.050	11/14/2024	ND	2.12	106	2.00	3.71	
Ethylbenzene*	<0.050	0.050	11/14/2024	ND	2.11	106	2.00	3.74	
Total Xylenes*	<0.150	0.150	11/14/2024	ND	6.28	105	6.00	3.96	
Total BTEX	<0.300	0.300	11/14/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/13/2024	ND	416	104	400	3.77	
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	11/13/2024	ND	201	101	200	4.45	
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	184	91.9	200	0.0245	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					
Surrogate: 1-Chlorooctane	108	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	121	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



	H & R ENTERPRISES MICHAEL COLLIER 1010 GAMBLIN ROAI HOBBS NM, 88240 Fax To: NONE		
Received: Reported: Project Name: Project Number: Project Location:	11/12/2024 11/15/2024 PALMILLO STATE COM #004 (PAL OLD) COTERRA - EDDY	Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	11/11/2024 Soil Cool & Intact Shalyn Rodriguez

Sample ID: BH - 3 4' (H246884-12)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/14/2024	ND	2.06	103	2.00	3.63	
Toluene*	<0.050	0.050	11/14/2024	ND	2.12	106	2.00	3.71	
Ethylbenzene*	<0.050	0.050	11/14/2024	ND	2.11	106	2.00	3.74	
Total Xylenes*	<0.150	0.150	11/14/2024	ND	6.28	105	6.00	3.96	
Total BTEX	<0.300	0.300	11/14/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/13/2024	ND	416	104	400	3.77	
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	11/13/2024	ND	201	101	200	4.45	
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	184	91.9	200	0.0245	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					
Surrogate: 1-Chlorooctane	105	48.2-13	4						
Surrogate: 1-Chlorooctadecane	117 9	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



	H & R ENTE MICHAEL C 1010 GAME HOBBS NM Fax To:	OLLIER BLIN ROAD		
Received: Reported: Project Name: Project Number: Project Location:	11/12/2024 11/15/2024 PALMILLO STATE COM #004 (PAL OLD) COTERRA - EDDY		Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	11/11/2024 Soil Cool & Intact Shalyn Rodriguez

Sample ID: H - 1 0-1' (H246884-13)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/14/2024	ND	2.06	103	2.00	3.63	
Toluene*	<0.050	0.050	11/14/2024	ND	2.12	106	2.00	3.71	
Ethylbenzene*	<0.050	0.050	11/14/2024	ND	2.11	106	2.00	3.74	
Total Xylenes*	<0.150	0.150	11/14/2024	ND	6.28	105	6.00	3.96	
Total BTEX	<0.300	0.300	11/14/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/13/2024	ND	416	104	400	3.77	
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	11/13/2024	ND	201	101	200	4.45	
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	184	91.9	200	0.0245	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					
Surrogate: 1-Chlorooctane	111 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	122	% 49.1-14	8						

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*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



	MICHAEL	1BLIN ROAD		
Received: Reported: Project Name: Project Number: Project Location:	11/12/2024 11/15/2024 PALMILLO STATE COM #004 (PAL OLD) COTERRA - EDDY		Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	11/11/2024 Soil Cool & Intact Shalyn Rodriguez

Sample ID: H - 2 0-1' (H246884-14)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	11/14/2024	ND	2.06	103	2.00	3.63	
Toluene*	<0.050	0.050	11/14/2024	ND	2.12	106	2.00	3.71	
Ethylbenzene*	<0.050	0.050	11/14/2024	ND	2.11	106	2.00	3.74	
Total Xylenes*	<0.150	0.150	11/14/2024	ND	6.28	105	6.00	3.96	
Total BTEX	<0.300	0.300	11/14/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/13/2024	ND	416	104	400	3.77	
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	11/13/2024	ND	201	101	200	4.45	
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	184	91.9	200	0.0245	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					
Surrogate: 1-Chlorooctane	104 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	113 9	% 49.1-14	8						

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*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



	H & R ENTE MICHAEL C 1010 GAME HOBBS NM Fax To:	OLLIER BLIN ROAD		
Received: Reported: Project Name: Project Number: Project Location:	11/12/2024 11/15/2024 PALMILLO STATE COM #004 (PAL OLD) COTERRA - EDDY		Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	11/11/2024 Soil Cool & Intact Shalyn Rodriguez

Sample ID: H - 3 0-1' (H246884-15)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/14/2024	ND	2.06	103	2.00	3.63	
Toluene*	<0.050	0.050	11/14/2024	ND	2.12	106	2.00	3.71	
Ethylbenzene*	<0.050	0.050	11/14/2024	ND	2.11	106	2.00	3.74	
Total Xylenes*	<0.150	0.150	11/14/2024	ND	6.28	105	6.00	3.96	
Total BTEX	<0.300	0.300	11/14/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/13/2024	ND	416	104	400	3.77	
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	11/13/2024	ND	201	101	200	4.45	
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	184	91.9	200	0.0245	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					
Surrogate: 1-Chlorooctane	103 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112 9	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

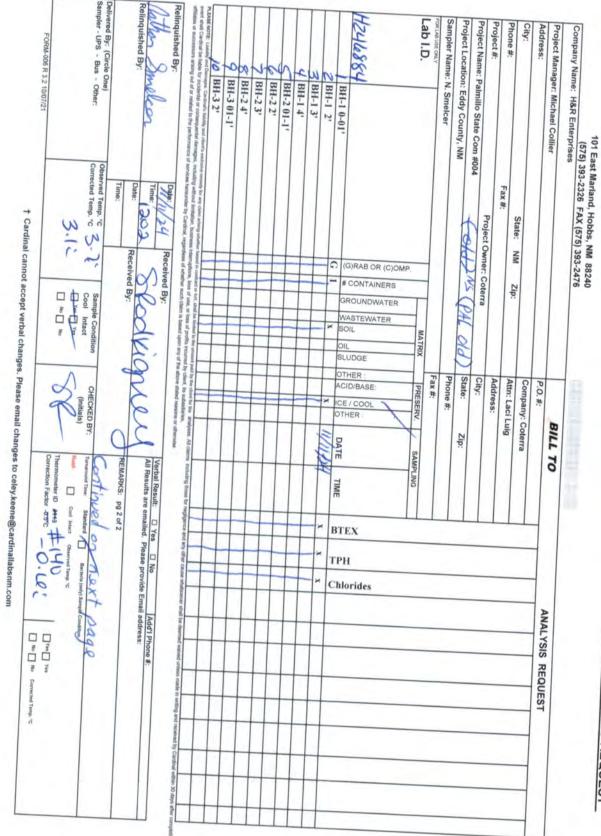
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient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

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

-aboratories

Project Managery Michael Colling		BILL TO			ANALYSIS RECITEST
Address:		P.O. #:			
City:		Company: Coterra		_	
D 持	State: NM Zip:	Attn: Laci Luig			
	Fax #:	Address:	_	_	
Irolant Nama: Daladila Cast- O liona	Project Owner: Coterra	City:	_	_	
rivject Name: Paimillo State Com #004	FUT ITO SAF PLAT	State: Zip:	_		
Project Location: Eddy County, NM	DIC TUT TOO	時	_	_	
Sampler Name: N. Smelcer			_		
OR LAB USE ONLY	-	Fax #:	_	-	
Lab I.D.	MATRIX	PRESERV. SAMPLING		-	
12446884	(G)RAB OR (C)O # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	ACID/BASE: ICE / COOL OTHER :	BTEX	TPH Chlorides	
// BH-3 3'			в	t	
12 BH-3 4'		belith x	X X	X	
15 H-1 0-11					
1-10 t-HHI					
154-30-1					
REASE NOTE: Lishing and Damages. Cardina's labelity and client's sociative on event shall Cardinal be lisble for images. Cordina's labelity and client's sociative on artiliates or successors artising out of or resisted to the performance of service artificities.	PLEAR HOTE: Lisking and Dumages: Cardinal's labeling and share's variables memory to any sales analog selecter transit to contract or tot, shall be leaded to the anount plant by the called to the performance of services immercies by Calleda. Inspections of services immercies of services immercies of calleda. Inspections of services and the services of plant, the variable services of services immercies of services immercies of calleda.	over paid by the callet for the analysee. All claims including these for negligence mod by claims, its subadiaries,	2	any other caloe whats	sovier shall be deemed waived uniteds made in writing and received by Cardinal
Relinquished By:	Date 14 Received By:		1 Yes	LI No	Add'l Phone #:
Relinquished By:	Time: Received By:	REMARKS: pg 2 of 2	emailed. Pi	ease provide	All Results are emailed. Please provide Email address: REMARKS: pg 2 of 2
Delivered By: (Circle One) Sampler - UPS - Bus - Other: Con	Connected Temp. "C 3.1. Cool Intact 3.1. Cool Intact	CHECKED BY: Transcend Trac. (Initials) Trace	a la		if Sample Condition
	J. 1 - 180 %	Correction Factor	th and	-ino	

CARDINAL Laboratories

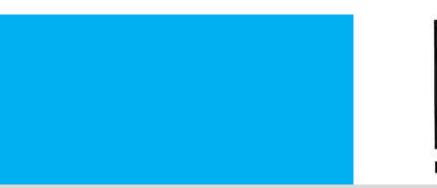
Page 19 of 19

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



2024 CLOSURE **REPORT** (nAPP2422766341)

Released to Imaging: 5/14/2025 9:45:25 AM





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

Soil Assessment and Closure Report

Palmillo State Com #004 Incident# nAPP2422766341 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

November 25, 2024

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

Subject: Soil Assessment and Closure Report Palmillo State Com #004 Eddy County, NM

Dear Mr. Bratcher,

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

Site Information

The Palmillo State Com #004 is located approximately 24 miles Southeast of Artesia, New Mexico. The legal location for this release is Unit Letter L, Section 32, Township 18 South and Range 29 East in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.702344 North and -104.103283 West. Site plans are presented in Appendix I.

According to the soil survey provided by the United States Department of Agriculture NaturalResources Conservation Service, the soil in this area is made up of Tonuco loamy fine sand, 0 to 3 percent slopes. The referenced soil data is attached in Appendix II. Drainage courses in this area are typically dry. This project site is not located in a high Karst potential area (KarstMap, 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 180-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

180 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

Due to groundwater data being outside the recommended 0.5-mile radius of the release, a groundwater determination bore was drilled to a depth of 105-foot BGS. No groundwater was present the day of drilling nor 72-hours after drilling occurred. As groundwater is greater than 100-feet BGS the closure criteria for this site are as follows:

Table 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**					
>100 feet	Chloride **	EPA 300.0 or SM4500 CIB	20,000 mg/kg					
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2,500 mg/kg					
	GRO+DRO	EPA SW-846 Method 8015M	1,000 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 August 14, 2024, it was discovered that lightning had struck the produced water tank causing a fire and release of approximately 42 barrels (bbls) of produced water. A total of 10 bbls were recovered.

5

Soil Assessment Activities

H&R mobilized personnel to begin soil assessment sampling activities of the release area. Grab samples were obtained by way of air rotary drill and transported to Cardinal Laboratory for analysis. The results of that analysis are presented in the following data table. Initial soil assessment sampling locations are illustrated on Soil Assessment Map, Appendix I. Western delineation of this spill incident can be found found in Appendix VI, as that references an additional NMOCD spill incident (nRM2009253961). Photographic documentation is attached in Appendix IV. A complete laboratory report can be found in Appendix V.

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 Criter NMAC		teria 19.15.29	50 mg/kg	10 mg/kg	1000 ו	mg/kg	2500 mg/kg	2500 mg/kg	20,000 mg/kg
		0-1'	ND	ND	ND	ND	ND	0	1020
		2'	ND	ND	ND	ND	ND	0	928
BH-1	11/11/2024	3'	ND	ND	ND	ND	ND	0	1790
DU-1	11/11/2024	4'	ND	ND	ND	ND	ND	0	3040
		6'	ND	ND	ND	ND	ND	0	4560
		8'	ND	ND	ND	ND	ND	0	384
	11/11/2024	0-1'	ND	ND	ND	ND	ND	0	272
BH-2		2'	ND	ND	ND	ND	ND	0	192
DU-5		3'	ND	ND	ND	ND	ND	0	320
		4'	ND	ND	ND	ND	ND	0	48
		0-1'	ND	ND	ND	ND	ND	0	2480
BH-3	11/11/2024	2'	ND	ND	ND	ND	ND	0	176
DII-3	11/11/2024	3'	ND	ND	ND	ND	ND	0	144
		4'	ND	ND	ND	ND	ND	0	32
H-1	11/11/2024	0-1'	ND	ND	ND	ND	ND	0	16
H-2	11/11/2024	0-1'	ND	ND	ND	ND	ND	0	16
H-3	11/11/2024	0-1'	ND	ND	ND	ND	ND	0	32
ND = Analyte Not Detected BH = Vertical Bore Hole Sample H = Horizontal Sample									

ND = Analyte Not Detected BH = Vertical Bore Hole Sample H = Horizontal Sample

Based on the results of our soil assessment, being in a low karst potential area, and groundwater being over 100-foot BGS, Cimarex Energy Co. of Colorado is requesting this release be deferred till the time of reclamation.

Closure

Based on the soil assessment sample results completed for this project, on behalf of Cimarex Energy Co. of Colorado, we request that no further actions be required at this time, and that closure of this incident is granted. Remediation of the affected area will take place during P&A & reclamation activities.

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

Respectfully submitted,

H&R Enterprises, LLC

Michael Collier Environmental Project Manager

Attachments:

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

APPENDIX I

SITE MAPS

KARST POTENTIAL MAP

TOPOGRAPHIC MAP

LOCATOR MAP

Released to Imaging: 5/14/2025 9:45:25 AM

Received by OCD: 1/28/2025 8:46:42 AM Palmillo State Com #004

Cimarex Energy Co. of Colorado Incident# nAPP2422766341 Eddy County, NM Soil Assessment Map Legend

- Horizontal Sample Point
- Vertical Bore Hole Sample Point

Page 59 of 112



Received by OCD: 1/28/2025 8:46:42 AM

Palmillo State Com #004

Cimarex Energy Co. of Colorado Incident# nAPP2422766341 Eddy County, NM Karst Potential Map

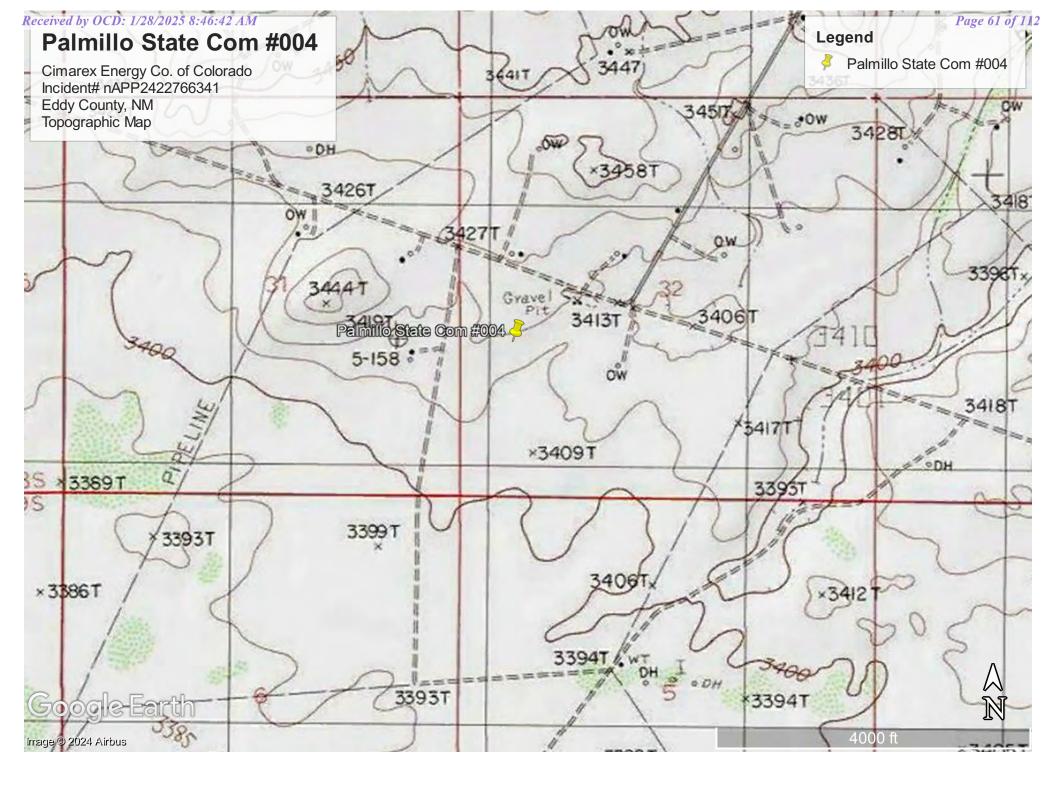
Page 60 of 112 Legend 🥖 High 0 Low Medium Palmillo State Com #004

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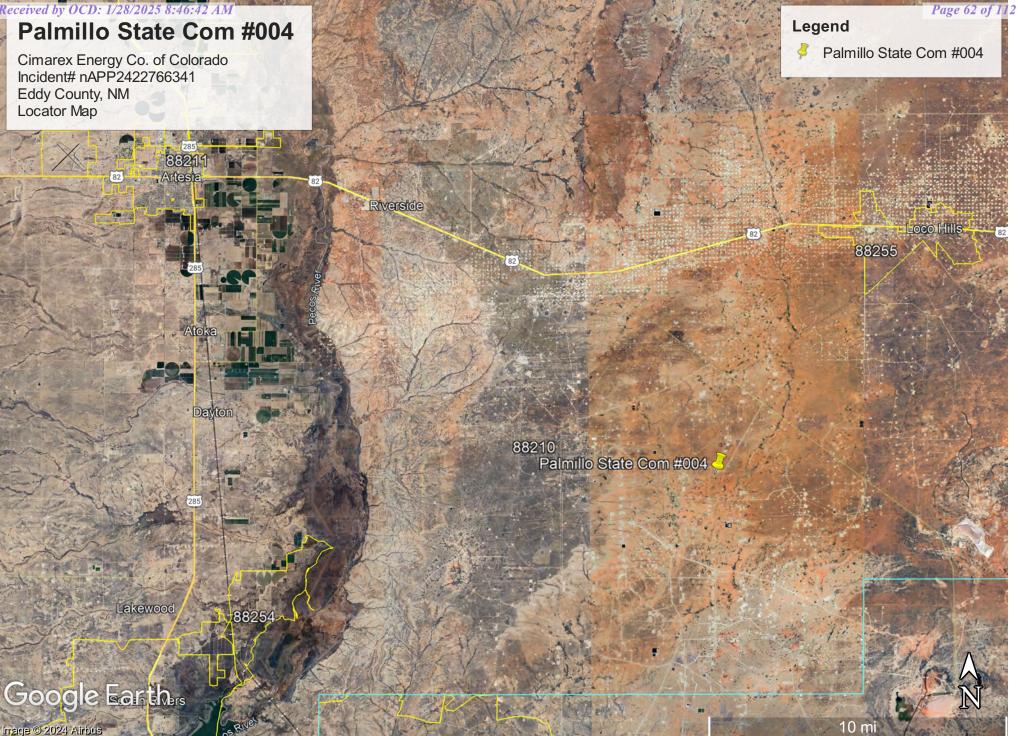
360 Palmillo State Com #004 A N Google Earth 3 mi Irrage © 2024 Airbus

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Received by OCD: 1/28/2025 8:46:42 AM Palmillo State Com #004

Eddy County, NM Locator Map



APPENDIX II

GROUNDWATER DATA

SOIL SURVEY

FEMA FLOOD ZONE

NMOSE WELL LOG & PLUGGING RECORD

Released to Imaging: 5/14/2025 9:45:25 AM

Water Column/Average Depth to Water

(ADLW##### in the PODELIffix indicates the PODELasEeen replaced & no longerEerves a water right file.)	(R=POD has been replaced, O=orphaned, C=the file ⊡ closed)			(quarte smalles	ers are st to ⊡ rge	est)				(NAD83 UTN	1 in met
POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	х	
<u>CP 01618 POD1</u>		СР	ED	SW	SE	NE	29	18S	29E	585119.6	362(
<u>CP 01858 POD1</u>		СР	ED	SE	NW	SE	01	19S	28E	581872.2	3617
Record Iount: 2											
RecordCount: 2 Basin/County Se County: ED	earch:										

* UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and isaccepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, Isability, or suitability for any particular purpose of the data.

11/22/24 9:33 AM MST Water Column/Average Depth to Water

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PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

Wall	Engineer Well Number: CP-2023 owner: Coterra Energy Co. (Agent Ja	mes Hawley H&R)	Phone N	0.:
	ng address: P.O. Box 3641			
	Hobbs	State:	NM	Zip code: 88241
11. W	ELL PLUGGING INFORMATION			
)	Name of well drilling company that	t plugged well: H&R E	nterprises, LLC.	
2)	New Mexico Well Driller License	No.: WD-1862		Expiration Date: 6-16-25
3)	Well plugging activities were supe Nathan Smelcer	rvised by the following	well driller(s)/rig supe	rvisor(s):
4)	Date well plugging began: 11-15	-24 D	ate well plugging cond	cluded: 11-15-24
5)	GPS Well Location: Latitude Longitu	e: <u>32</u> deg, deg, deg, deg, <u>32</u> deg, deg, deg, deg, <u>32</u> deg, deg, deg, <u>32</u> deg, deg, deg, deg, deg, deg, deg, deg,	<u>42</u> min, 06 min,	09.6 sec 12.2 sec, WGS 84
5)	Depth of well confirmed at initiatic by the following manner: well source	on of plugging as:1	05' ft below ground	l level (bgl),
7)	Static water level measured at initia	ation of plugging:N	I/A ft bgl	
8)	Date well plugging plan of operation	ons was approved by the	State Engineer:10	-18-24
))	Were all plugging activities consist differences between the approved to	tent with an approved pl	ugging plan? <u>y</u>	es If not, please describ- attach additional pages as needed):

Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with 10) horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

0' - 10' Hydrated Bentonite 10' - 105' Drill Cuttibgs	Approx. 15 gallons Approx. 139 gallons	15 gallons 139 gallons	Pour	
	Approx. 139 gallons	139 gallons	Pour	
			Four	
	MULTIPLY	BY AND OBTAIN		
		cubic feet x 7 cubic yards x 20	cubic feet x 7.4805 = gallons	cubic feet x 7.4805 = gallons cubic yards x 201.97 = gallons

III. SIGNATURE:

I. James Hawley

, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Signature of Well Driller

11-18-24

Date



WELL RECORD & LOG OFFICE OF THE STATE ENGINEER

POLMILLO 11/18/24

www.ose.state.nm.us

-											
NO	OSE POD NO. (Pod 1	WELL NO	.)	WELL TAG ID NO.		OSE FILE NO	S).				
OCATI	WELL OWNER Coterra Ener			ley H&R Enterprises, LLC)		PHONE (OPTIONAL)					
AND WELL LOCATION	WELL OWNER P.O. Box 36		G ADDRESS			CITY STATE ZIP Hobbs NM 88241					
AL AND	WELL		D	EGREES MINUTES 32 42	* ACCURACY	REQUIRED: ONE TEN	TH OF A SECOND				
GENERAL	(FROM GPS)		NGITUDE	104 06	12.2 W		QUIRED: WGS 84				
1. GEN	DESCRIPTION	RELATIN	NG WELL LOCATION TO	O STREET ADDRESS AND COMMON	LANDMARKS - PLS	SS (SECTION, TO	WNSHЛP, RANGE) WH	ERE AVAILABLE			
-	LICENSE NO. WD-18	62	NAME OF LICENSEI	DRILLER James Hawley			NAME OF WELL DR	ILLING COMPANY Enterprises, LLC			
	DRILLING STA		DRILLING ENDED 11-11-24	DEPTH OF COMPLETED WELL (FT 105'		LE DEPTH (FT) 105'		ST ENCOUNTERED (FT N/A)		
2. DRILLING & CASING INFORMATION	COMPLETED	WELL IS:	ARTESIAN *add	DRY HOLE SHALLOW	W (UNCONFINED)	STATIC IN COM	WATER LEVEL	A DATE STATIC			
	DRILLING FLU	ID:	AIR		ES - SPECIFY:	(FT)		11-1	5-24		
	DRILLING ME	THOD: 🗸	ROTARY HAM	MER CABLE TOOL OTHE	R - SPECIFY:	CHECK HERE IF PITLESS ADAPTER IS					
SINF			BORE HOLE	CASING MATERIAL AND GRADE			CASING	CASING WALL	SLOT		
ASING	FROM	то	DIAM (inches)	(include each casing string, and		NECTION TYPE ling diameter)	INSIDE DIAM. (inches)	THICKNESS (inches)	SIZE (inches)		
G&C	0'	105'	6'	No casing left in hole							
TLIN											
DRI		_									
			_								
_											
T	DEPTH (fe		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERI RANGE BY		AMOUNT MI		ETHOD OF			
ERIA	FROM	ТО	Dirint. (menes)	*(if using Centralizers for Artesian	(cubic feet)		PLACEN	MENT			
TAM			-								
ANNULAR MATERIAL											
3. ANN											
FOR	OSE INTERNA	L USE		POD NO.			WELL RECORD &	LOG (Version 09/2	2/2022)		
LOC	ATION			FOUND.		WELL TAG IE		PAGE	1 OF 2		

			1					1		1	
	DEPTH (feet bgl) FROM TO		THICKNESS (feet)	(feet)		ID TYPE OF MATERIAL ENCOUNTERED - ER-BEARING CAVITIES OR FRACTURE ZONES			TER RING?	ESTIMATED YIELD FOR WATER-	
	FROM	10	(1005)	(attach su	pplemental sheets to fu	lly describe	all units)	(YES	/ NO)	BEARING ZONES (gpm)	
	0'	5'	5'		Sandy Topsoi	il		Y	√ N		
	5'	26'	21'		Sandy Calich	e		Y	√ N		
	26'	105'	79'		Sand & Grave	el		Y	√ N		
								Y	N		
								Y	N		
T								Y	N		
4. HYDROGEOLOGIC LOG OF WELL								Y	N		
OF								Y	N		
000								Y	N		
HC I								Y	N		
TOC								Y	N		
GEO								Y	N		
ORO								Y	N		
IVH								Y	N		
4.								Y	N		
								·Y	N		
								Y	N		
								Y	N		
								Y	N		
				1				Y	Ν		
								Y	N		
				OF WATER-BEARIN		1.51.5		AL ESTIN		0.00	
	PUMP AIR LIFT BAILER OTHER - SPECIFY: Dry Hole WEL							LL YIELI) (gpm):	0.00	
NOISI	WELL TEST TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.										
5. TEST; RIG SUPERVI	MISCELLANEOUS INFORMATION: Well was gauged for water on 11-15-24, well bore was dry, temporary well casing was removed, bore hole was backfilled to 10' BGS with drill cuttings, then hydrated bentonite chips were poured from 10' BGS to surface.										
5. TEST	PRINT NAM Nathan Smel	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:									
SIGNATURE					EST OF HIS OR HER D THAT HE OR SHE PLETION OF WELL D		GE AND BELIEF, T THIS WELL RECO	THE FORE	GOING THE ST	IS A TRUE AND ATE ENGINEER	
6. SIG	4	La	why		ames Hawley			11-	18-24		
		SIGNAT	UKE OF DRALEI	R / PRINT SIGNEE	NAME				DATE		
FOR	OSE INTERN	AL USE					WR-20 WELL RE	CORD &	LOG (Ve	rsion 09/22/2022)	
-	E NO.				POD NO.		TRN NO.			(and a constant and and a	
LOC	CATION					WELI	TAG ID NO.			PAGE 2 OF 2	

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Eddy Area, New Mexico

TF—Tonuco loamy fine sand, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 1w61 Elevation: 3,000 to 4,100 feet Mean annual precipitation: 10 to 14 inches Mean annual air temperature: 60 to 64 degrees F Frost-free period: 200 to 217 days Farmland classification: Not prime farmland

Map Unit Composition

Tonuco and similar soils: 98 percent Minor components: 2 percent Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Tonuco

Setting

Landform: Plains, alluvial fans Landform position (three-dimensional): Rise Down-slope shape: Convex, linear Across-slope shape: Linear Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 5 inches: loamy fine sand *H2 - 5 to 15 inches:* loamy fine sand *H3 - 15 to 19 inches:* indurated

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 6 to 20 inches to petrocalcic
Drainage class: Excessively drained
Runoff class: Very high
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Maximum salinity: Nonsaline (0.0 to 1.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Very low (about 1.3 inches)

Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 7e Hydrologic Soil Group: D Ecological site: R070BD004NM - Sandy Hydric soil rating: No Map Unit Description: Tonuco loamy fine sand, 0 to 3 percent slopes---Eddy Area, New Mexico

Minor Components

Tonuco

Percent of map unit: 1 percent *Ecological site:* R070BD004NM - Sandy *Hydric soil rating:* No

Dune land

Percent of map unit: 1 percent Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico Survey Area Data: Version 20, Sep 3, 2024

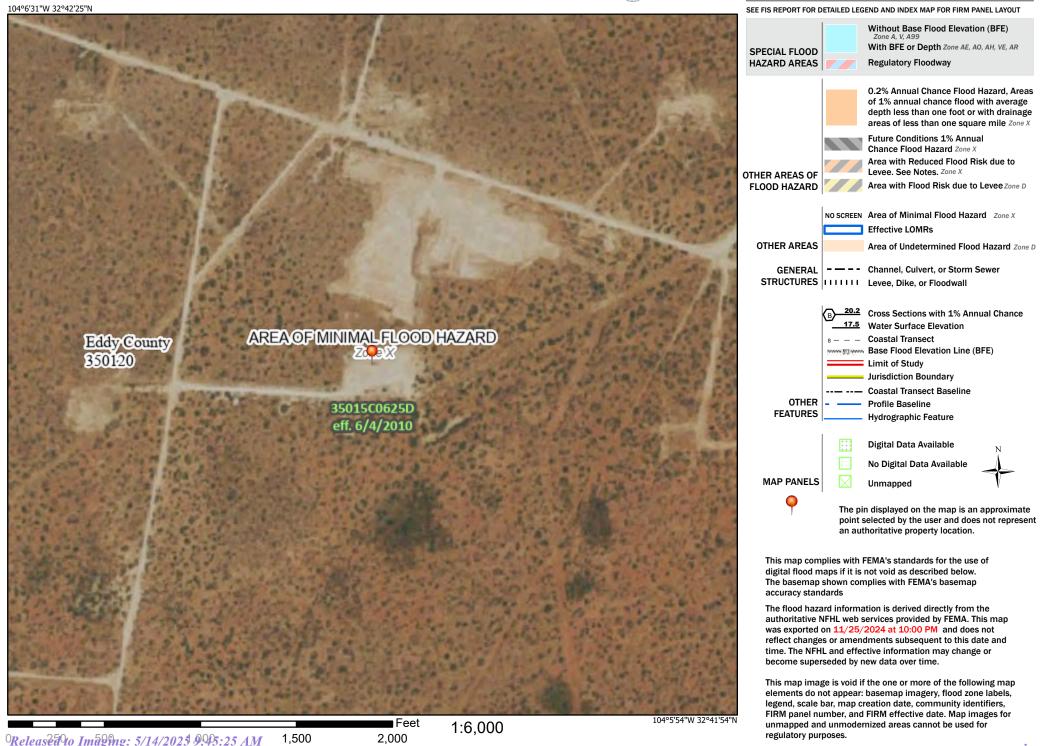


Received by OCD: 1/28/2025 8:46:42 AM National Flood Hazard Layer FIRMette



Legend

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Basemap Imagery Source: USGS National Map 2023



C-141

NMOCD CORRESPONDENCE

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SIGN-IN HELP

Searches Operator Data Hearing Fee Application

OCD Permitting

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

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

Submission Information									
Submission ID:	374120	Districts:	Artesia						
Operator:	[162683] CIMAREX ENERGY CO. OF COLORADO	Counties:	Eddy						
Description:	CIMAREX ENERGY CO. OF COLORADO [162683] , PALMILLO STATE 4 , nAPP2422766341								
Status:	APPROVED								
Status Date:	08/15/2024								
References (2):	fAPP2202675850, nAPP2422766341								

Forms

Attachments:

Volume Calculation

Questions

Prerequisites

Incident ID (n#)	nAPP2422766341
Incident Name	NAPP2422766341 PALMILLO STATE 4 @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Received
Incident Facility	[fAPP2202675850] PALMILLO STATE 4

Location of Release Source

Please	answer	all	the	questions	in	this	group.

Site Name	PALMILLO STATE 4
Date Release Discovered	08/14/2024
Surface Owner	State

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	Yes
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a	No
watercourse	
	No
public health	

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	Searches Operator Data Hearing Fee Application
Nature and Volume of Release	
Naterial(s) released, please answer all that apply below. Any calculations or specific justifications for the v	olumes provided should be attached to the follow-up C-141 submission.
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Lightning Tank (Any) Produced Water Released: 47 BBL Recovered: 10 BBL Lost: 37 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	We had a lightning strike that resulted in a fire and a spill at the Palmillo State 4. No injuries were associate
Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	0128, the Coterra Control Room received a call about a possible fire at the Palmillo State 4 well, which was
	Melbourne employee. At 0257, the Coterra Lease Operator arrived on site and confirmed the fire had self-e
	reviewing the water tank gauges, an estimated 42 barrels were in the tank. A vac truck was able to recover
	water from inside the berm. The remainder of the fluid is believed to have vaporized in the fire.
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	From paragraph A. "Major release" determine using:
release	(1) an unauthorized release of a volume, excluding gases, of 25 barrels or more;
	(2) an unauthorized release of a volume that:
	 (a) results in a fire or is the result of a fire; (d) substantially damages property or the environment.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas	
nitial 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
	True
The impacted area has been secured to protect human health and the environment	
The impacted area has been secured to protect human health and the environment Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
Released materials have been contained via the use of berms or dikes, absorbent	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices All free liquids and recoverable materials have been removed and managed appropriately	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices All free liquids and recoverable materials have been removed and managed appropriately If all the actions described above have not been undertaken, explain why	
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices All free liquids and recoverable materials have been removed and managed appropriately If all the actions described above have not been undertaken, explain why Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation	True Not answered. immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices All free liquids and recoverable materials have been removed and managed appropriately If all the actions described above have not been undertaken, explain why Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation	True Not answered.

I hereby agree and sign off to the above statement

Name: Laci Luig Title: ES&H Specialist Email: DL_PermianEnvironmental@coterra.com Date: 08/15/2024

Site Characterization

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.
What is the shallowest depth to groundwater beneath the area affected by the
Not answered.

Not answered.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs) What method was used to determine the depth to ground water

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		Searches	Operator Data	Hearing Fee Application
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Not answered.			
Any other fresh water well or spring	Not answered.			
Incorporated municipal boundaries or a defined municipal fresh water well field	Not answered.			
A wetland	Not answered.			
A subsurface mine	Not answered.			
An (non-karst) unstable area	Not answered.			
Categorize the risk of this well / site being in a karst geology	Not answered.			
A 100-year floodplain	Not answered.			
Did the release impact areas not on an exploration, development, production, or storage site	Not answered.			

Remediation Plan

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

Requesting a remediation plan approval with this submission No
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the ren
then it should consult with the division to determine if another remediation plan submission is required.

Acknowledgments

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

Comments

No comments found for this submission.

Conditions

Summary: nvelez (8/15/2024), None

Reasons

No reasons found for this submission.

Go Back

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From:	Velez, Nelson, EMNRD
To:	Laci Luig
Subject:	Re: [EXTERNAL] Palmillo State 4 Sample Variance Request
Date:	Friday, November 22, 2024 4:13:47 PM
Attachments:	image001.jpg
	Outlook-4n1cob0h.png
	<u>0.jpg</u>

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?

Good afternoon Laci,

Thanks for the correspondence. After careful review of the information provided, OCD approves the variance requested.

In the future, please provide sampling notification for delineation sampling to ensure that they may possibly be used as final samples toward closure. Adherence to Part 29 as written, is vital to achieving the end results that everyone desires. This approval is for these two (2) incidents and should not be viewed as precedent for any future incidents. All incidents will be reviewed on a case-by-case basis and follow the rule as it was intended.

Lastly, both incidents remediation due dates have expired. Please submit your final remediation closure report as soon as possible.

OCD will use its discretion to determine if additional enforcement action is warranted. Cooperation from Cimarex will be considered when determining any enforcement actions, which may include civil penalties.

Please keep a copy of this communication for inclusion within the appropriate report submittal.

The OCD requires a copy of all correspondence relative to remedial activities be included in all proposals and/or final closure reports. Correspondence required to be included in reports may include, but not limited to, notifications for liner inspections, sample events, spill/release/fire, and request for time extensions or variances.

Regards,

Nelson Velez • Environmental Specialist - Adv Environmental Bureau | EMNRD - Oil Conservation Division 1000 Rio Brazos Road | Aztec, NM 87410 (505) 469-6146 | nelson.velez@emnrd.nm.gov http://www.emnrd.nm.gov/ocd_



From: Laci Luig <Laci.Luig@coterra.com>
Sent: Friday, November 22, 2024 1:19 PM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Subject: [EXTERNAL] Palmillo State 4 Sample Variance Request

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Mr. Velez,

Thank you for taking my call this morning. As I mentioned, Cimarex has 2 open incidents at the Palmillo State 4, located at 32.70265, -104.10348, in Eddy County, NM.

Incident Numbers:

nRM2009253961 – release date 3/26/2020 nAPP2422766341 – release date 8/14/2024

On November 11, 2024, H&R Enterprises arrived on location to drill delineation sample points inside the 2 earthen berms from surface to 4' bgs, or until field screens were below 600 mg/kg chlorides. The sample map along with the lab data table for each incident is attached.

While on location, a ground water determination bore was drilled to 105' below surface then bailed after 72 hours to prove no shallow groundwater. The closest USGS record to groundwater is 2.32 miles to the Southeast with a DTW record of 205' bgs. Additionally, the Palmillo State 4 is located in a low karst area and has no potential impact to health and safety of humans, groundwater or the environment. Based on the characterization of the site, and analytical data of the delineation samples, Cimarex will follow Table I Closure Criteria for >100' DTW.

As it was not anticipated for the delineation samples collected on November 11th to have been used as the final samples, Cimarex is respectfully requesting a variance to spill rule <u>19.15.29.12</u> subpart D (1)(a) that requires a 2 business day notice to conducting final sampling.

Thank you,



Laci Luig | Environmental, Health & Safety Specialist T: 432.571.7810 | M: 432.208.3035 | laci.luig@coterra.com | www.coterra.com Coterra Energy Inc. | 6001 Deauville Blvd., Suite 300N | Midland, TX 79706

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

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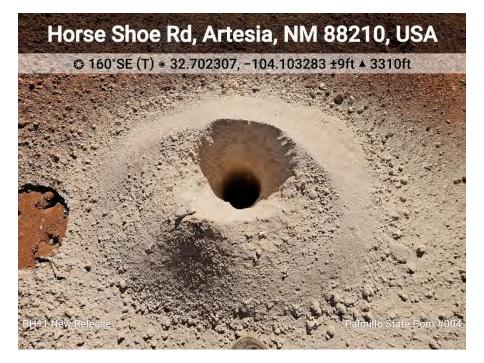


PHOTOGRAPHIC DOCUMENTATION

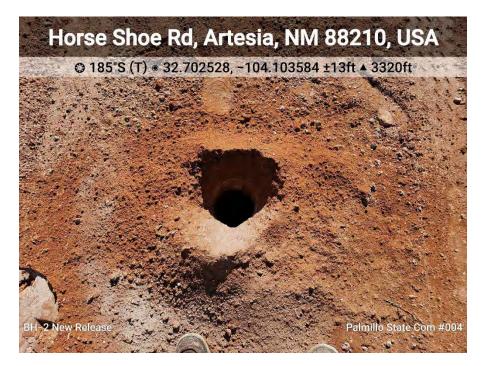
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PHOTOGRAPHIC DOCUMENTATION

BORE HOLE PHOTOGRAPHS

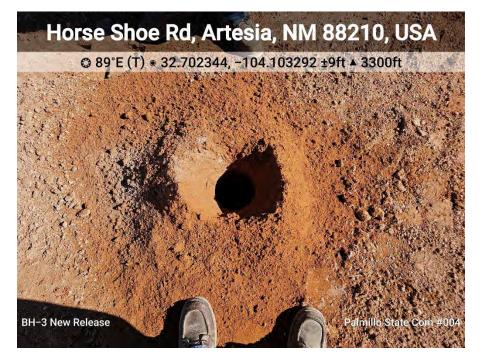


BH-1



BH-2

PHOTOGRAPHIC DOCUMENTATION



BH-3

.



LABORATORY REPORT

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November 15, 2024

MICHAEL COLLIER

H & R ENTERPRISES

1010 GAMBLIN ROAD

HOBBS, NM 88240

RE: PALMILLO STATE COM #004

Enclosed are the results of analyses for samples received by the laboratory on 11/12/24 12:02.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_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.

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. Keine

Celey D. Keene Lab Director/Quality Manager



	H & R ENTERPRISES MICHAEL COLLIER 1010 GAMBLIN ROAD HOBBS NM, 88240 Fax To: NONE		
Received:	11/12/2024	Sampling Date:	11/11/2024
Reported:	11/15/2024	Sampling Type:	Soil
Project Name:	PALMILLO STATE COM #004	Sampling Condition:	Cool & Intact
Project Number:	(PAL NEW)	Sample Received By:	Shalyn Rodriguez
Project Location:	COTERRA - EDDY		

Sample ID: BH - 1 0-01' (H246882-01)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	11/13/2024	ND	1.94	97.2	2.00	4.57	
Toluene*	<0.050	0.050	11/13/2024	ND	2.07	103	2.00	3.30	
Ethylbenzene*	<0.050	0.050	11/13/2024	ND	2.25	112	2.00	3.48	
Total Xylenes*	<0.150	0.150	11/13/2024	ND	6.71	112	6.00	3.90	
Total BTEX	<0.300	0.300	11/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1020	16.0	11/13/2024	ND	400	100	400	0.00	
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	11/12/2024	ND	198	99.2	200	1.67	
DRO >C10-C28*	<10.0	10.0	11/12/2024	ND	205	102	200	0.998	
EXT DRO >C28-C36	<10.0	10.0	11/12/2024	ND					
Surrogate: 1-Chlorooctane	114 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	122 9	% 49.1-14	0						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



	MICHAEL	1BLIN ROAD		
Received: Reported: Project Name: Project Number: Project Location:	11/12/2024 11/15/2024 PALMILLO STATE COM #004 (PAL NEW) COTERRA - EDDY		Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	11/11/2024 Soil Cool & Intact Shalyn Rodriguez

Sample ID: BH - 1 2' (H246882-02)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/13/2024	ND	1.94	97.2	2.00	4.57	
Toluene*	<0.050	0.050	11/13/2024	ND	2.07	103	2.00	3.30	
Ethylbenzene*	<0.050	0.050	11/13/2024	ND	2.25	112	2.00	3.48	
Total Xylenes*	<0.150	0.150	11/13/2024	ND	6.71	112	6.00	3.90	
Total BTEX	<0.300	0.300	11/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	928	16.0	11/13/2024	ND	400	100	400	0.00	
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	11/12/2024	ND	198	99.2	200	1.67	
DRO >C10-C28*	<10.0	10.0	11/12/2024	ND	205	102	200	0.998	
EXT DRO >C28-C36	<10.0	10.0	11/12/2024	ND					
Surrogate: 1-Chlorooctane	110 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	116 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



	MICHAEL	1BLIN ROAD		
Received: Reported: Project Name: Project Number: Project Location:	11/12/2024 11/15/2024 PALMILLO STATE COM #004 (PAL NEW) COTERRA - EDDY		Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	11/11/2024 Soil Cool & Intact Shalyn Rodriguez

Sample ID: BH - 1 3' (H246882-03)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/13/2024	ND	1.94	97.2	2.00	4.57	
Toluene*	<0.050	0.050	11/13/2024	ND	2.07	103	2.00	3.30	
Ethylbenzene*	<0.050	0.050	11/13/2024	ND	2.25	112	2.00	3.48	
Total Xylenes*	<0.150	0.150	11/13/2024	ND	6.71	112	6.00	3.90	
Total BTEX	<0.300	0.300	11/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.2	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1790	16.0	11/13/2024	ND	400	100	400	0.00	
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	11/12/2024	ND	198	99.2	200	1.67	
DRO >C10-C28*	<10.0	10.0	11/12/2024	ND	205	102	200	0.998	
EXT DRO >C28-C36	<10.0	10.0	11/12/2024	ND					
Surrogate: 1-Chlorooctane	114 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	120	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



	H & R ENTE MICHAEL CO 1010 GAMBI HOBBS NM, Fax To:	ollier Lin Road		
Received: Reported: Project Name: Project Number: Project Location:	11/12/2024 11/15/2024 PALMILLO STATE COM #004 (PAL NEW) COTERRA - EDDY		Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	11/11/2024 Soil Cool & Intact Shalyn Rodriguez

Sample ID: BH - 1 4' (H246882-04)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/13/2024	ND	1.94	97.2	2.00	4.57	
Toluene*	<0.050	0.050	11/13/2024	ND	2.07	103	2.00	3.30	
Ethylbenzene*	<0.050	0.050	11/13/2024	ND	2.25	112	2.00	3.48	
Total Xylenes*	<0.150	0.150	11/13/2024	ND	6.71	112	6.00	3.90	
Total BTEX	<0.300	0.300	11/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3040	16.0	11/13/2024	ND	400	100	400	0.00	
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	11/12/2024	ND	198	99.2	200	1.67	
DRO >C10-C28*	<10.0	10.0	11/12/2024	ND	205	102	200	0.998	
EXT DRO >C28-C36	<10.0	10.0	11/12/2024	ND					
Surrogate: 1-Chlorooctane	115 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	121	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



	MICHAE 1010 GA	NTERPRISES L COLLIER MBLIN ROAD NM, 88240 NONE		
Received: Reported: Project Name: Project Number: Project Location:	11/12/2024 11/15/2024 PALMILLO STATE COM #004 (PAL NEW) COTERRA - EDDY		Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	11/11/2024 Soil Cool & Intact Shalyn Rodriguez

Sample ID: BH - 1 6' (H246882-05)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	11/13/2024	ND	1.94	97.2	2.00	4.57	
Toluene*	<0.050	0.050	11/13/2024	ND	2.07	103	2.00	3.30	
Ethylbenzene*	<0.050	0.050	11/13/2024	ND	2.25	112	2.00	3.48	
Total Xylenes*	<0.150	0.150	11/13/2024	ND	6.71	112	6.00	3.90	
Total BTEX	<0.300	0.300	11/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.7	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4560	16.0	11/13/2024	ND	400	100	400	0.00	
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	11/12/2024	ND	198	99.2	200	1.67	
DRO >C10-C28*	<10.0	10.0	11/12/2024	ND	205	102	200	0.998	
EXT DRO >C28-C36	<10.0	10.0	11/12/2024	ND					
Surrogate: 1-Chlorooctane	118 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	123	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



	H & R ENTE MICHAEL CO 1010 GAMBI HOBBS NM, Fax To:	ollier Lin Road		
Received: Reported: Project Name: Project Number: Project Location:	11/12/2024 11/15/2024 PALMILLO STATE COM #004 (PAL NEW) COTERRA - EDDY		Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	11/11/2024 Soil Cool & Intact Shalyn Rodriguez

Sample ID: BH - 1 8' (H246882-06)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	11/13/2024	ND	1.94	97.2	2.00	4.57	
Toluene*	<0.050	0.050	11/13/2024	ND	2.07	103	2.00	3.30	
Ethylbenzene*	<0.050	0.050	11/13/2024	ND	2.25	112	2.00	3.48	
Total Xylenes*	<0.150	0.150	11/13/2024	ND	6.71	112	6.00	3.90	
Total BTEX	<0.300	0.300	11/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	11/13/2024	ND	400	100	400	0.00	
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	11/12/2024	ND	198	99.2	200	1.67	
DRO >C10-C28*	<10.0	10.0	11/12/2024	ND	205	102	200	0.998	
EXT DRO >C28-C36	<10.0	10.0	11/12/2024	ND					
Surrogate: 1-Chlorooctane	113 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	118 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



	MICHAEL 1010 GAN	ITERPRISES . COLLIER MBLIN ROAD M, 88240 NONE		
Received: Reported: Project Name: Project Number: Project Location:	11/12/2024 11/15/2024 PALMILLO STATE COM #004 (PAL NEW) COTERRA - EDDY		Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	11/11/2024 Soil Cool & Intact Shalyn Rodriguez

Sample ID: BH - 2 0-01' (H246882-07)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/13/2024	ND	1.94	97.2	2.00	4.57	
Toluene*	<0.050	0.050	11/13/2024	ND	2.07	103	2.00	3.30	
Ethylbenzene*	<0.050	0.050	11/13/2024	ND	2.25	112	2.00	3.48	
Total Xylenes*	<0.150	0.150	11/13/2024	ND	6.71	112	6.00	3.90	
Total BTEX	<0.300	0.300	11/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	11/13/2024	ND	400	100	400	0.00	
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	11/12/2024	ND	198	99.2	200	1.67	
DRO >C10-C28*	<10.0	10.0	11/12/2024	ND	205	102	200	0.998	
EXT DRO >C28-C36	<10.0	10.0	11/12/2024	ND					
Surrogate: 1-Chlorooctane	119 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	125 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



	MICHAEL	1BLIN ROAD		
Received: Reported: Project Name: Project Number: Project Location:	11/12/2024 11/15/2024 PALMILLO STATE COM #004 (PAL NEW) COTERRA - EDDY		Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	11/11/2024 Soil Cool & Intact Shalyn Rodriguez

Sample ID: BH - 2 2' (H246882-08)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/13/2024	ND	1.94	97.2	2.00	4.57	
Toluene*	<0.050	0.050	11/13/2024	ND	2.07	103	2.00	3.30	
Ethylbenzene*	<0.050	0.050	11/13/2024	ND	2.25	112	2.00	3.48	
Total Xylenes*	<0.150	0.150	11/13/2024	ND	6.71	112	6.00	3.90	
Total BTEX	<0.300	0.300	11/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	11/13/2024	ND	400	100	400	0.00	
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	11/12/2024	ND	198	99.2	200	1.67	
DRO >C10-C28*	<10.0	10.0	11/12/2024	ND	205	102	200	0.998	
EXT DRO >C28-C36	<10.0	10.0	11/12/2024	ND					
Surrogate: 1-Chlorooctane	117 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	124 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



	MICHAEL	IBLIN ROAD		
Received: Reported: Project Name: Project Number: Project Location:	11/12/2024 11/15/2024 PALMILLO STATE COM #004 (PAL NEW) COTERRA - EDDY		Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	11/11/2024 Soil Cool & Intact Shalyn Rodriguez

Sample ID: BH - 2 3' (H246882-09)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/13/2024	ND	1.94	97.2	2.00	4.57	
Toluene*	<0.050	0.050	11/13/2024	ND	2.07	103	2.00	3.30	
Ethylbenzene*	<0.050	0.050	11/13/2024	ND	2.25	112	2.00	3.48	
Total Xylenes*	<0.150	0.150	11/13/2024	ND	6.71	112	6.00	3.90	
Total BTEX	<0.300	0.300	11/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	11/13/2024	ND	400	100	400	0.00	
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	11/12/2024	ND	198	99.2	200	1.67	
DRO >C10-C28*	<10.0	10.0	11/12/2024	ND	205	102	200	0.998	
EXT DRO >C28-C36	<10.0	10.0	11/12/2024	ND					
Surrogate: 1-Chlorooctane	119 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	126 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



	H & R ENTER MICHAEL CO 1010 GAMBL HOBBS NM, 8 Fax To:	ILLIER IN ROAD		
Received: Reported: Project Name: Project Number: Project Location:	11/12/2024 11/15/2024 PALMILLO STATE COM #004 (PAL NEW) COTERRA - EDDY		Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	11/11/2024 Soil Cool & Intact Shalyn Rodriguez

Sample ID: BH - 2 4' (H246882-10)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/13/2024	ND	1.94	97.2	2.00	4.57	
Toluene*	<0.050	0.050	11/13/2024	ND	2.07	103	2.00	3.30	
Ethylbenzene*	<0.050	0.050	11/13/2024	ND	2.25	112	2.00	3.48	
Total Xylenes*	<0.150	0.150	11/13/2024	ND	6.71	112	6.00	3.90	
Total BTEX	<0.300	0.300	11/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/13/2024	ND	400	100	400	0.00	
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	11/12/2024	ND	198	99.2	200	1.67	
DRO >C10-C28*	<10.0	10.0	11/12/2024	ND	205	102	200	0.998	
EXT DRO >C28-C36	<10.0	10.0	11/12/2024	ND					
Surrogate: 1-Chlorooctane	119 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	125 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



	H & R ENTE MICHAEL CO 1010 GAMBI HOBBS NM, Fax To:	ollier Lin Road		
Received: Reported: Project Name: Project Number: Project Location:	11/12/2024 11/15/2024 PALMILLO STATE COM #004 (PAL NEW) COTERRA - EDDY		Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	11/11/2024 Soil Cool & Intact Shalyn Rodriguez

Sample ID: BH - 3 0-01' (H246882-11)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/13/2024	ND	1.94	97.2	2.00	4.57	
Toluene*	<0.050	0.050	11/13/2024	ND	2.07	103	2.00	3.30	
Ethylbenzene*	<0.050	0.050	11/13/2024	ND	2.25	112	2.00	3.48	
Total Xylenes*	<0.150	0.150	11/13/2024	ND	6.71	112	6.00	3.90	
Total BTEX	<0.300	0.300	11/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2480	16.0	11/13/2024	ND	400	100	400	0.00	
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	11/12/2024	ND	198	99.2	200	1.67	
DRO >C10-C28*	<10.0	10.0	11/12/2024	ND	205	102	200	0.998	
EXT DRO >C28-C36	<10.0	10.0	11/12/2024	ND					
Surrogate: 1-Chlorooctane	108	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	121	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



	H & R ENTERPRISES MICHAEL COLLIER 1010 GAMBLIN ROAD HOBBS NM, 88240 Fax To: NONE		
Received: Reported: Project Name: Project Number: Project Location:	11/12/2024 11/15/2024 PALMILLO STATE COM #004 (PAL NEW) COTERRA - EDDY	Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	11/11/2024 Soil Cool & Intact Shalyn Rodriguez

Sample ID: BH - 3 2' (H246882-12)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	11/13/2024	ND	1.94	97.2	2.00	4.57	
Toluene*	<0.050	0.050	11/13/2024	ND	2.07	103	2.00	3.30	
Ethylbenzene*	<0.050	0.050	11/13/2024	ND	2.25	112	2.00	3.48	
Total Xylenes*	<0.150	0.150	11/13/2024	ND	6.71	112	6.00	3.90	
Total BTEX	<0.300	0.300	11/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	11/13/2024	ND	400	100	400	0.00	
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	11/13/2024	ND	198	99.2	200	1.67	
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	205	102	200	0.998	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					
Surrogate: 1-Chlorooctane	118 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	124	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



	H & R ENTERPRISES MICHAEL COLLIER 1010 GAMBLIN ROAD HOBBS NM, 88240 Fax To: NONE		
Received: Reported: Project Name: Project Number: Project Location:	11/12/2024 11/15/2024 PALMILLO STATE COM #004 (PAL NEW) COTERRA - EDDY	Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	11/11/2024 Soil Cool & Intact Shalyn Rodriguez

Sample ID: BH - 3 3' (H246882-13)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	11/13/2024	ND	1.94	97.2	2.00	4.57	
Toluene*	<0.050	0.050	11/13/2024	ND	2.07	103	2.00	3.30	
Ethylbenzene*	<0.050	0.050	11/13/2024	ND	2.25	112	2.00	3.48	
Total Xylenes*	<0.150	0.150	11/13/2024	ND	6.71	112	6.00	3.90	
Total BTEX	<0.300	0.300	11/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	11/13/2024	ND	400	100	400	0.00	
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	11/13/2024	ND	198	99.2	200	1.67	
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	205	102	200	0.998	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					
Surrogate: 1-Chlorooctane	120 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	127 9	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



	H & R ENTER MICHAEL CO 1010 GAMBL HOBBS NM, 8 Fax To:	ILLIER IN ROAD		
Received: Reported: Project Name: Project Number: Project Location:	11/12/2024 11/15/2024 PALMILLO STATE COM #004 (PAL NEW) COTERRA - EDDY		Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	11/11/2024 Soil Cool & Intact Shalyn Rodriguez

Sample ID: BH - 3 4' (H246882-14)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	11/13/2024	ND	1.94	97.2	2.00	4.57	
Toluene*	<0.050	0.050	11/13/2024	ND	2.07	103	2.00	3.30	
Ethylbenzene*	<0.050	0.050	11/13/2024	ND	2.25	112	2.00	3.48	
Total Xylenes*	<0.150	0.150	11/13/2024	ND	6.71	112	6.00	3.90	
Total BTEX	<0.300	0.300	11/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/13/2024	ND	400	100	400	0.00	
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	11/12/2024	ND	201	101	200	4.45	
DRO >C10-C28*	<10.0	10.0	11/12/2024	ND	184	91.9	200	0.0245	
EXT DRO >C28-C36	<10.0	10.0	11/12/2024	ND					
Surrogate: 1-Chlorooctane	106	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	117 9	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



	MICHAEL 1010 GAN	ITERPRISES . COLLIER MBLIN ROAD M, 88240 NONE		
Received: Reported: Project Name: Project Number: Project Location:	11/12/2024 11/15/2024 PALMILLO STATE COM #004 (PAL NEW) COTERRA - EDDY		Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	11/11/2024 Soil Cool & Intact Shalyn Rodriguez

Sample ID: H - 1 0-1' (H246882-15)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	11/13/2024	ND	1.94	97.2	2.00	4.57	
Toluene*	<0.050	0.050	11/13/2024	ND	2.07	103	2.00	3.30	
Ethylbenzene*	<0.050	0.050	11/13/2024	ND	2.25	112	2.00	3.48	
Total Xylenes*	<0.150	0.150	11/13/2024	ND	6.71	112	6.00	3.90	
Total BTEX	<0.300	0.300	11/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/13/2024	ND	400	100	400	0.00	
TPH 8015M	mg/	/kg	Analyze	nalyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/12/2024	ND	201	101	200	4.45	
DRO >C10-C28*	<10.0	10.0	11/12/2024	ND	184	91.9	200	0.0245	
EXT DRO >C28-C36	<10.0	10.0	11/12/2024	ND					
Surrogate: 1-Chlorooctane	108	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	119 9	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



	H & R ENTER MICHAEL COI 1010 GAMBLI HOBBS NM, 8 Fax To:	llier In road		
Received: Reported: Project Name: Project Number: Project Location:	11/12/2024 11/15/2024 PALMILLO STATE COM #004 (PAL NEW) COTERRA - EDDY		Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	11/11/2024 Soil Cool & Intact Shalyn Rodriguez

Sample ID: H - 2 0-1' (H246882-16)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/13/2024	ND	1.94	97.2	2.00	4.57	
Toluene*	<0.050	0.050	11/13/2024	ND	2.07	103	2.00	3.30	
Ethylbenzene*	<0.050	0.050	11/13/2024	ND	2.25	112	2.00	3.48	
Total Xylenes*	<0.150	0.150	11/13/2024	ND	6.71	112	6.00	3.90	
Total BTEX	<0.300	0.300	11/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/13/2024	ND	400	100	400	0.00	
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	11/12/2024	ND	201	101	200	4.45	
DRO >C10-C28*	<10.0	10.0	11/12/2024	ND	184	91.9	200	0.0245	
EXT DRO >C28-C36	<10.0	10.0	11/12/2024	ND					
Surrogate: 1-Chlorooctane	108	48.2-13	4						
Surrogate: 1-Chlorooctadecane	119 9	49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



	MICHAEL	IBLIN ROAD		
Received: Reported: Project Name: Project Number: Project Location:	11/12/2024 11/15/2024 PALMILLO STATE COM #004 (PAL NEW) COTERRA - EDDY		Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	11/11/2024 Soil Cool & Intact Shalyn Rodriguez

Sample ID: H - 3 0-1' (H246882-17)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/13/2024	ND	1.94	97.2	2.00	4.57	
Toluene*	<0.050	0.050	11/13/2024	ND	2.07	103	2.00	3.30	
Ethylbenzene*	<0.050	0.050	11/13/2024	ND	2.25	112	2.00	3.48	
Total Xylenes*	<0.150	0.150	11/13/2024	ND	6.71	112	6.00	3.90	
Total BTEX	<0.300	0.300	11/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/13/2024	ND	400	100	400	0.00	
TPH 8015M	mg/	′kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/12/2024	ND	201	101	200	4.45	
DRO >C10-C28*	<10.0	10.0	11/12/2024	ND	184	91.9	200	0.0245	
EXT DRO >C28-C36	<10.0	10.0	11/12/2024	ND					
Surrogate: 1-Chlorooctane	103 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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. Keine

Celey D. Keene, Lab Director/Quality Manager

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: H&R Enterprises		BILL TO		ANALYSIS REQUEST
Project Manager: Michael Collier		P.O. #:		
Address:		Company: Coterra	_	
City:	State: NM Zip:	Attn: Laci Luig	_	
Phone #:	Fax #:	Address:	_	
Project #:	Project Owner: Coterra	City:	_	
Project Name: Palmillo State Com #004	(Now I'VS (PAL NEW)	State: Zip:	_	
Project Location: Eddy County, NM		Phone #:	_	
Sampler Name: N. Smelcer		Fax #:	_	
Lab I.D.	MATRIX	PRESERV. SAMPLING		
82	(G)RAB OR (C)OMP, # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER : ACID/BASE: ICE / COOL OTHER : DATE	BTEX TPH Chlorides	
[BH-1 0-01'		X IIIII	- 1	
2 BH-1 2'	-	64141		
3 BH-1 3'				
4 BH-1 4'				
S BH-1 6'				
6 BH-1 8'				
7 BH-2 0-01				
8 BH-2 2'				
9 BH-2 3'				
A BH-2 4' REASE NOTE: Lasally and Durages: Cardinal's liability and diser's exclusion event shall Cardinal be liabile for incodencia or consequenced duringles, in Williability or successory actions of art of a valued to fits an order-successory.	// BH-2.4" PLEASE NOTE: Linkely and Demayse: Cardwal's failed, and dearts exclusive money for any claim analog solution to accord and is to accurate in out, take to accurate in the accurate in th	lama	including those for negligence and any other cause vihable	over shall be deemed valved unless made in writing and received by Cardinal valleis
Relinquished By: Nathen Synches	The Ison Show		Verbal Result: Verbal Result: Verbal Results are emailed. Please provide Email address:	Add'I Phone #: Email address:
Relinquished By:	Received By:			aut as a
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. "C 3-72 Sample Condition Corrected Temp. "C 3-72 Cool Intagt 3.12 During with	(Initials) Intermember 10 - 444- Standard Intermediate ID - 444- Correction Factor - 456-C	# 4	
FORM-006 R 3 2 10/07/21				Contected tests. C

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

in no

FORM-006 R 3.2 10/07/21

Page 20 of 21

Delivered By: (Circle One) Sampler - UPS - Bus - Other: FORM-006 R 3.2 10/07/21	Relinquished By:	EASE NOTE: Lusterly and Chima ent shall Cardinal be lable for a filates or successors arising ou	1	14		13	17	4246852	Lab I.D.	Sampler Name: N. Smelcer	Project Location:	Project Name: Pa	Project #:	Phone #:	City:	Address:	Project Manager: Michael Collier	Company Name:
	moler	RAME HOTE: Linking and Dimages. Clerified's linking and direct exclusion remedy for any claim arking whether tore event shall. Control to labels for incolectal or consequential damages. Ancudeng without instation, business team arkineter or successors arking out of or related to the performance of services hieraucter by Caddaul, regarding	1-0 C XNH		BH-3 4'	BH-3 3'	10-0 -010			. Smelcer	Project Location: Eddy County, NM	Project Name: Palmillo State Com #004					Michael Collier	101 East Ma (575) 393- Company Name: H&R Enterprises
Corrected Temp. 'C 3-7	Time Re	termoly for any claim arising whether bus using without instation, business inter- loost hereunder by Cardinal, regardless	>	¥								(the	Project Owner: Coterra	Fax #:	State: NM			101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476
Sample Condition Cool Intact 	Received By: Received By:	of why to					G I X	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	MATRIX		K	0-1	r: Coterra	cib:	4			3240 2476
on CHECKED BY: (Initials)	gury	9 8					X	SLUDGE OTHER : ACID/BASE: ICE / COOL DTHER :	X PRESERV.	Fax #:	Phone #:	State:	Address:	Attn: Laci Luig	Company: Coterra	P.O. #:	BILL	
Co Ta	2 25	nes. At claims including trose for n alternates.					9	DATE TIME	SAMPLING		- inter-	Zin:			erra		LL TO	
+	P 0	regigence and any offee					ť	втех			_				_	-		
	t □ No Add'I Phone #: Please provide Email address;	Sume whatsoever shall be o						Chlorides								-	ANAL	
	d'I Phone #; fress:	berned waived unlass made							_							-	ANALYSIS REQUEST	
DUCLLO Intel Tang. C		in writing and received by C							_	_							ST	
to See		andrea within So days after																
Ind I D Evolutions Set Eman 10/15mpt conden 10/10/10 Ma 10/10/10 Ma 10/10 Ma 1	5	her completion of the applicable t														1		

CARDINAL Laboratories

General Information Phone: (505) 629-6116

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

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

Page 105 of 112

QUESTIONS

Action 425563

QUEST	TIONS
Operator:	OGRID:
Coterra Energy Operating Co.	215099
6001 Deauville Blvd	Action Number:
Midland, TX 79706	425563
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nRM2009253961
Incident Name	NRM2009253961 PALMILLO STATE 4H @ 30-015-31497
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-015-31497] PALMILLO STATE COM #004

Location of Release Source

Please answer all the questions in this group.		
	Site Name	PALMILLO STATE 4H
	Date Release Discovered	03/26/2020
	Surface Owner	State

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

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: Corrosion Tank (Any) Produced Water Released: 41 BBL Recovered: 5 BBL Lost: 36 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.	

General Information Phone: (505) 629-6116

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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

Page 106 of 112

QUESTIONS, Page 2

Action 425563

QUESTIONS (continued)	
Operator:	OGRID:
Coterra Energy Operating Co.	215099
6001 Deauville Blvd	Action Number:
Midland, TX 79706	425563
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	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 Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remedi	Not answered. ation 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: 01/28/2025	

General Information Phone: (505) 629-6116

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

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

QUESTIONS (continued)

Operator:	OGRID:
Coterra Energy Operating Co.	215099
6001 Deauville Blvd	Action Number:
Midland, TX 79706	425563
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	Direct Measurement
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release an	nd the following surface areas:
A continuously flowing watercourse or any other significant watercourse	Greater than 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	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

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. 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.) 64 Chloride (EPA 300.0 or SM4500 Cl B) 64 TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M) 0 GRO+DRO (EPA SW-846 Method 8015M) 0 BTEX (EPA SW-846 Method 8021B or 8260B) 0 Benzene (EPA SW-846 Method 8021B or 8260B) 0 Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, with the release of the remediation. On what estimated date will the remediation commence 03/26/2020 On what date will (or did) the final sampling or liner inspection occur 11/11/2024
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.) 64 Chloride (EPA 300.0 or SM4500 Cl B) 64 TPH (GR0+DR0+MRO) (EPA SW-846 Method 8015M) 0 GR0+DRO (EPA SW-846 Method 8015M) 0 BTEX (EPA SW-846 Method 8021B or 8260B) 0 Benzene (EPA SW-846 Method 8021B or 8260B) 0 Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation. On what estimated date will the remediation commence 03/26/2020
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.) 64 Chloride (EPA 300.0 or SM4500 Cl B) 64 TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M) 0 GRO+DRO (EPA SW-846 Method 8015M) 0 BTEX (EPA SW-846 Method 8021B or 8260B) 0 Benzene (EPA SW-846 Method 8021B or 8260B) 0 Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation. 03/26/2020
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.) Chloride (EPA 300.0 or SM4500 Cl B) 64 TPH (GR0+DRO+MRO) (EPA SW-846 Method 8015M) 0 GR0+DRO (EPA SW-846 Method 8015M) 0 BTEX (EPA SW-846 Method 8021B or 8260B) 0 Benzene (EPA SW-846 Method 8021B or 8260B) 0 Per Subsection B of 19.15.29.11 NIMAC 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 NIMAC, which includes the anticipated timelines for beginning and completing the remediation. 03/26/2020
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Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation. On what estimated date will the remediation commence 03/26/2020
which includes the anticipated timelines for beginning and completing the remediation. On what estimated date will the remediation commence 03/26/2020
On what date will (or did) the final sampling or liner inspection occur 11/11/2024
On what date will (or was) the remediation complete(d) 11/11/2024
What is the estimated surface area (in square feet) that will be reclaimed 1900
What is the estimated volume (in cubic yards) that will be reclaimed 0
What is the estimated surface area (in square feet) that will be remediated 0
What is the estimated volume (in cubic yards) that will be remediated 0
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

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

QUESTIONS, Page 3

Action 425563

General Information Phone: (505) 629-6116

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

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

QUESTI	ONS (continued)	
Operator:	OGRID:	
Coterra Energy Operating Co.	215099	
6001 Deauville Blvd	Action Number:	
Midland, TX 79706	425563	
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	
QUESTIONS		
Remediation Plan (continued)		
Please answer all the questions that apply or are indicated. This information must be provided to the	appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate	/ reduce contaminants:	
(Select all answers below that apply.)		
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	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)	Yes	
Other Non-listed Remedial Process. Please specify	Based off of site assessment results and evidence of deep groundwater in the area, no remediation will take place at this time. The entire site will be reclaimed per NMAC 19.15.29.13 during P/A activities.	
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.		
to report and/or file certain release notifications and perform corrective actions for relea the OCD does not relieve the operator of liability should their operations have failed to a	nowledge and understand that pursuant to OCD rules and regulations all operators are required uses 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	
	Name: Ashton Thielke	
I hereby agree and sign off to the above statement	Title: EHS Specialist	
	Email: Ashton.Thielke@coterra.com Date: 01/28/2025	
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accc significantly deviate from the remediation plan proposed, then it should consult with the division to d	rdance with the physical realities encountered during remediation. If the responsible party has any need to	

QUESTIONS, Page 4

Action 425563

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General Information Phone: (505) 629-6116

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

QUESTIONS, Page 5

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Action 425563

QUESTIONS (continued)	
Operator: Coterra Energy Operating Co.	OGRID: 215099
6001 Deauville Blvd Midland, TX 79706	Action Number: 425563
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESI	QUESTIONS	
Deferr	al 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	Νο

General Information Phone: (505) 629-6116

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

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

QUESTIONS, Page 6

Action 425563

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QUESTIONS (continued)		
Operator:	OGRID:	
Coterra Energy Operating Co.	215099	
6001 Deauville Blvd	Action Number:	
Midland, TX 79706	425563	
	Action Type:	
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	425586
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/11/2024
What was the (estimated) number of samples that were to be gathered	6
What was the sampling surface area in square feet	1900

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all r	emediation 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	0
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	Based off of site assessment results and evidence of deep groundwater in the area, no remediation will take place at this time. The entire site will be reclaimed per NMAC 19.15.29.13 during P/A activities. Approx 1,900 square feet of area directly related to this spill incident will be reclaimed during P/A activities. The entire well pad will be reclaimed as well per normal oilfield operations.
	closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of
to report and/or file certain release notifications and perform corrective actions for release the OCD does not relieve the operator of liability should their operations have failed to water, human health or the environment. In addition, OCD acceptance of a C-141 report	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 ially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed ing notification to the OCD when reclamation and re-vegetation are complete.
· · · · · · · · · · · · · · · · · · ·	Name: Ashton Thielke

I hereby agree and sign off to the above statement	Name: Ashton Thielke Title: EHS Specialist Email: Ashton.Thielke@coterra.com Date: 01/28/2025
--	--

General Information Phone: (505) 629-6116

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

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

QUESTIONS (continued)

Operator:	OGRID:
Coterra Energy Operating Co.	215099
6001 Deauville Blvd	Action Number:
Midland, TX 79706	425563
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)
QUESTIONS	

Reclamation Report

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

QUESTIONS, Page 7

Action 425563

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General Information Phone: (505) 629-6116

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

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

CONDITIONS

Operator:	OGRID:
Coterra Energy Operating Co.	215099
6001 Deauville Blvd	Action Number:
Midland, TX 79706	425563
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By		Condition Date
nvelez	None	5/14/2025

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