

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

**Soil Assessment and Closure Report** Subject:

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 ١.

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).

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

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	Constituent	Method*	Limit**					
below any point								
within the horizontal								
boundary of the								
release to ground								
water less than								
10,000 mg/I TDS								
>100 feet	Chloride **	EPA 300.0 or	20,000 mg/kg					
		SM4500 CIB						
	TPH	EPA SW-846	2,500 mg/kg					
	(GRO+DRO+MRO)	Method 8015M						
	GRO+DRO	EPA SW-846	1,000 mg/kg					
		Method 8015M						
	BTEX	EPA SW-846	50 mg/kg					
		Method 8021B or						
		8260B						
	Benzene	EPA SW-846	10 mg/kg					
		Method 8021B or						
		8260B						

#### **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.

#### **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 Tab	le 1 Closure Crit NMAC	teria 19.15.29	50 mg/kg	10 mg/kg	1000 i	ng/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
BH-2	11/11/2024	2'	ND	ND	ND	ND	ND	0	64
ВП-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 a	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 Not Detected BH = Vertical Bore Hole Sample H = Horizontal Sample

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

6

#### 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

# **APPENDIX I**

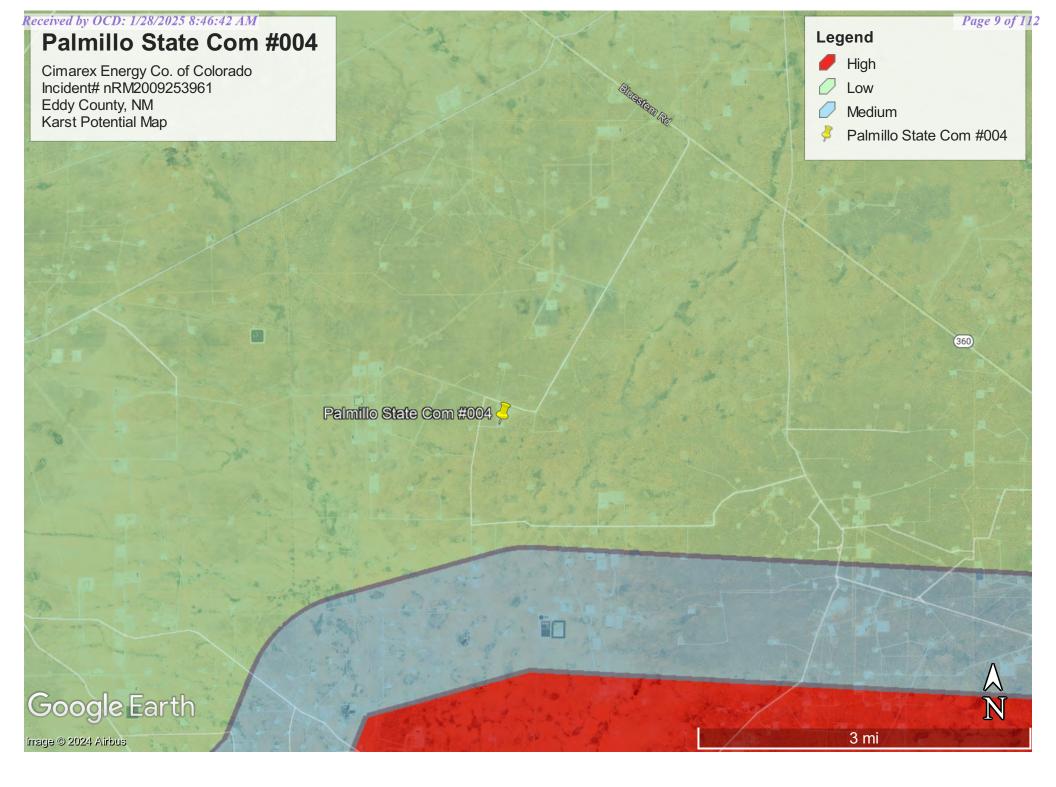
## **SITE MAPS**

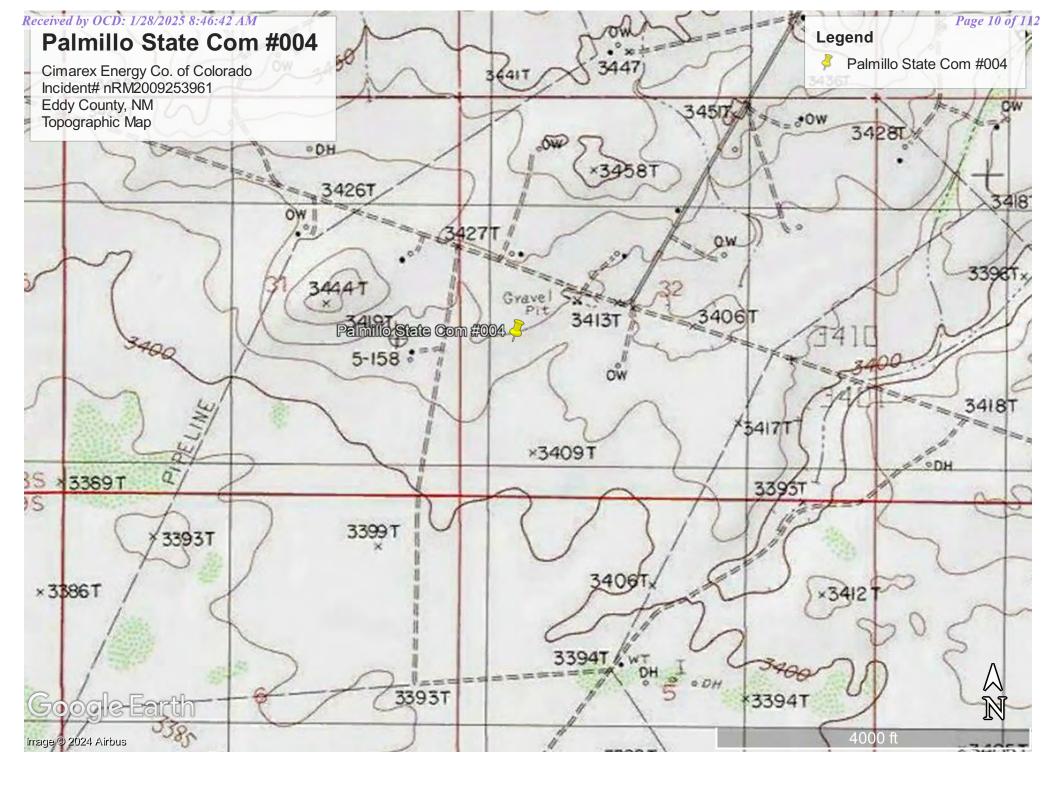
## **KARST POTENTIAL MAP**

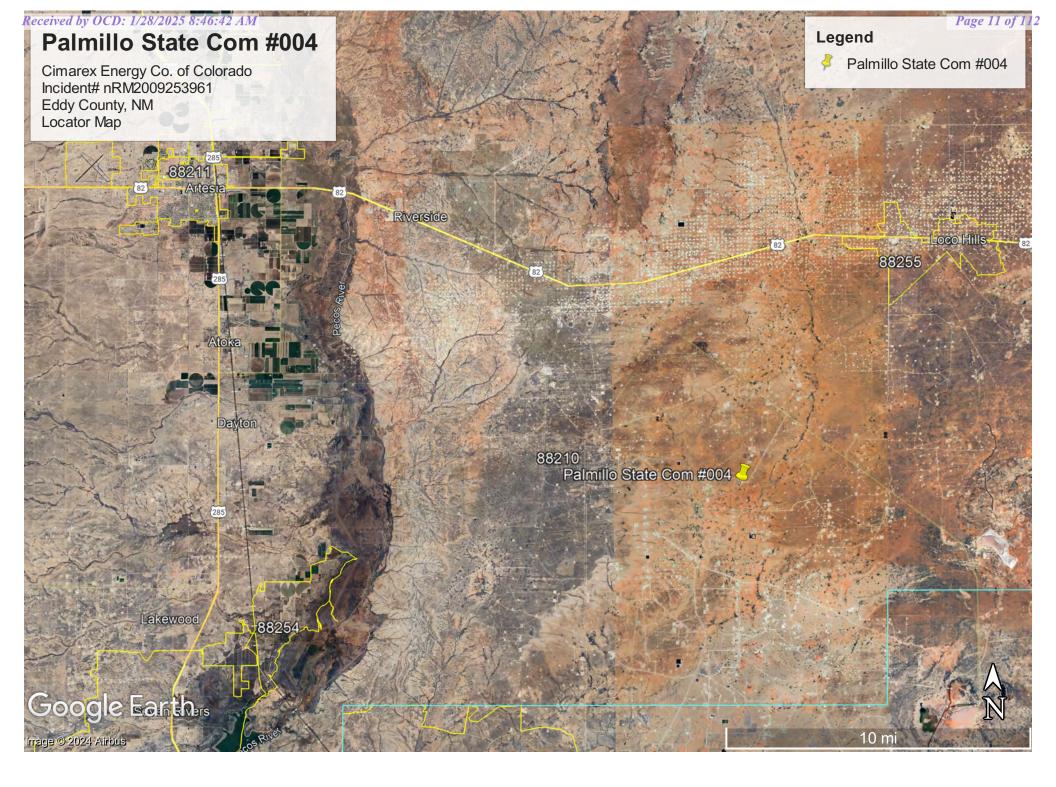
**TOPOGRAPHIC MAP** 

**LOCATOR MAP** 









# **APPENDIX II**

## **GROUNDWATER DATA**

**SOIL SURVEY** 

**FEMA FLOOD ZONE** 

NMOSE WELL LOG & PLUGGING RECORD

## Water Column/Average Depth to Water

(ADLW##### in the POD Luffix indicates the POD Las Deen replaced & no longer erves a water right file.)	(R=POD has been replaced, O=orphaned, C=the file <b>g</b> closed)			(quarte smalles	ers are st to <b>la</b> 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>		CP	ED	SW	SE	NE	29	185	29E	585119.6	3620
<u>CP 01858 POD1</u>		СР	ED	SE	NW	SE	01	195	28E	581872.2	3617

RecordCount: 2

**Basin/County Search:** 

County: ED

<u>UTM Filters (in meters):</u>

**Easting:** 584039.75 **Northing:** 3618680.43

**Radius:** 03000

\* 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, \(\bar{u}\) sability, or suitability for any particular purpose of the data.

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

©2024 New Mexico Office of the State Engineer, All Rights Reserved. | Disclaimer | Dontact Us | Belp | Bome |



## PLUGGING RECORD



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

Vell	owner: Coterra Energy Co. (Agent Jan	nes Hawley H&R)	Phone No.	
Maili	ng address: P.O. Box 3641			
City:	Hobbs	State:	NM	Zip code: 88241
I. W	VELL PLUGGING INFORMATION	<u>:</u>		
)	Name of well drilling company that	plugged well: H&R En	terprises, LLC.	
()	New Mexico Well Driller License N	No.: WD-1862		Expiration Date: 6-16-25
3)	Well plugging activities were super Nathan Smelcer	vised by the following w	vell driller(s)/rig superv	visor(s):
1)	Date well plugging began: 11-15-	-24 Da	te well plugging concl	uded: 11-15-24
5)	GPS Well Location: Latitude Longitud	deg. deg. deg. deg.	42 min, 0 06 min,	09.6 sec 12.2 sec, WGS 84
5)	Depth of well confirmed at initiatio by the following manner: well soun		5' ft below ground l	evel (bgl),
7)	Static water level measured at initia	tion of plugging: N/	A ft bgl	
3)	Date well plugging plan of operatio	ns was approved by the	State Engineer: 10-	18-24
9)	Were all plugging activities consisted differences between the approved p	ent with an approved plu lugging plan and the we	gging plan? yes	If not, please describ each additional pages as needed):

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

#### For each interval plugged, describe within the following columns:

O' - 10' Hydrated Bentonite  10' - 105' Drill Cuttibgs  Approx. 139 gallons  139 gallons  Pour  Pour	Depth (ft bgl)	Plugging Material Used (include any additives used)	Volume of Material Placed (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement Method (tremie pipe. other)	Comments ("casing perforated first", "open annular space also plugged", etc.)
	-		Approx. 15 gallons	15 gallons	Pour	
	_		Approx. 139 gallons	139 gallons	Pour	
	-					
	-					
	-					
	-					
MULTIPLY BY AND OBTAIN	_		MUTDLY	By AND OFFICE		

#### III. SIGNATURE:

I, James Hawley		say	that	1	am	familiar	with	the	rules	of	the	Office	of	the	State
Engineer pertaining to the plugging of wells and that	eac	h a	nd al	10	f the	stateme	nts in	this	Plugg	ging	Rec	ord and	dat	tach	ment
are true to the best of my knowledge and belief.									00	0					

Signature of Well Driller

11-18-24

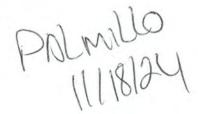
Date



### WELL RECORD & LOG

#### OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us



Z	OSE POD NO. (W	ELL NO.	)		WELL TAG ID NO			OSE FILE		).			
CATIO	WELL OWNER N		Agent James Haw	ley H&R En	iterprises, LLC)			PHONE (		NAL)			
AND WELL LOCATION	WELL OWNER M P.O. Box 364	MAILING						CITY Hobbs			STAT		ZIP
	WELL LOCATION	LAT	TTUDE	EGREES 32	MINUTES 42	42 00.6				REQUIRED: ONE TEN	TH OF	A SECOND	
GENERAL	(FROM GPS)	LON	IGITUDE	104	06	12.2	W	* DATUM	A REQ	UIRED: WGS 84			
1. GE	DESCRIPTION F	ELATIN	G WELL LOCATION TO	O STREET ADE	DRESS AND COMMO	N LANDMAR	KS – PLS	SS (SECTION	N, TOV	VNSHJIP, RANGE) WH	ERE A	VAILABLE	
	LICENSE NO. WD-186	2	NAME OF LICENSEL	DRILLER	James Hawley					NAME OF WELL DR		COMPANY rprises, LLC	
	DRILLING STAR	177	DRILLING ENDED	DEPTH OF C	OMPLETED WELL (F	T) B		LE DEPTH (	FT)	DEPTH WATER FIR	ST ENC		
Z	COMPLETED WI	ELL IS:	ARTESIAN *add Centralizer info be		DLE SHALLO	)W (UNCONF	INED)		COMP	VATER LEVEL LETED WELL N	/A	DATE STATIC	
VIIO	DRILLING FLUIT	);	✓ AIR	MUD	ADDITIV	ES - SPECIF	Y:	(1.1					
RMA	DRILLING METH	IOD: 🗸	ROTARY HAM	MER CAF	BLE TOOL TOTH	ER - SPECIF	Y:			CHECK	HERE	IF PITLESS ADAF	PTER IS
NFO	DEPTH (fee	t bgl)	BORE HOLE	CASINO	MATERIAL ANI	D/OR			T		LED		
CASING INFORMATION	FROM	ТО	DIAM (inches)	(include	GRADE each casing string, sections of screen	sing string, and CONN			·r)	CASING INSIDE DIAM. (inches)		SING WALL HICKNESS (inches)	SLOT SIZE (inches)
8	0'	105'	6'	No	casing left in hole								
DRILLING		-											
RIL					11-	-			-				
2. D													
-													
									-				
					,				+				
	DEPTH (feet	bgl)	BORE HOLE	LIST ANN	ULAR SEAL MATE			PACK SIZ	E-	AMOUNT			
UAL	FROM	ТО	DIAM. (inches)	*(if using Ce	RANGE B	Y INTERVA		snacing hel	(ow)	AMOUNT (cubic feet)		METHOI PLACEM	
VTE			J/A		DESCRIPTION OF THE PERSON OF T	OH.		-					
RM		-											
ULA									+				
ANNULAR MATERIAL													
3.													
FOR	OSE INTERNAL	USE											
FILE					POD NO				R-20 N NO	WELL RECORD &	LOG	(Version 09/22	/2022)

WELL TAG ID NO.

PAGE 1 OF 2

	DEPTH (fe	eet bgl)		COLOR AND TYPE OF MATERIA	L ENCOUNTERED -	WATER	ESTIMATED		
	FROM	ТО	THICKNESS (feet)	INCLUDE WATER-BEARING CAVITIE  (attach supplemental sheets to full	S OR FRACTURE ZONES	BEARING? (YES / NO)	YIELD FOR WATER- BEARING ZONES (gpm)		
	0,	5'	5'	Sandy Topsoil		Y ✓N			
5' 26' 21' Sandy Caliche									
	26'	105'	79'	Sand & Gravel		Y ✓N			
						Y N			
						Y N			
LL						Y N			
4. HYDROGEOLOGIC LOG OF WELL						Y N			
OF						Y N			
200						Y N			
SIC						Y N			
000						Y N			
GEC						Y N			
ORO						Y N			
HXI						Y N			
4						Y N			
						Y N			
						Y N			
						Y N			
						Y N			
						Y N			
						Y N			
	METHOD US	SED TO E	STIMATE YIELD	OF WATER-BEARING STRATA:		OTAL ESTIMATED	0.00		
	PUMP		AIR LIFT	BAILER OTHER - SPECIFY: Dry I	Hole	ELL YIELD (gpm):	0.00		
ON	WELL TEST	TEST	RESULTS - ATTA	CH A COPY OF DATA COLLECTED DURINGE, AND A TABLE SHOWING DISCHARGE	NG WELL TESTING, INCLU AND DRAWDOWN OVER T	DING DISCHARGE N	METHOD,		
5. TEST; RIG SUPERVISI	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.								
5.115	PRINT NAM Nathan Smel		RILL RIG SUPERV	VISOR(S) THAT PROVIDED ONSITE SUPER	EVISION OF WELL CONSTR	RUCTION OTHER TH	AN LICENSEE		
6. SIGNATURE				ES THAT, TO THE BEST OF HIS OR HER K SCRIBED HOLE AND THAT HE OR SHE W DAYS AFTER COMPLETION OF WELL DR		, THE FOREGOING II ORD WITH THE STA	S A TRUE ANI TE ENGINEE		
6. SIG	4	SIGNAT	URE OF DENIER	James Hawley  / PRINT SIGNEE NAME		11-18-24			
_		J.G. TAI	DATE OF THE PARTY	, , MINT SIGNEE NAME		DATE			
	OSE INTERN	AL USE			WR-20 WELL F	RECORD & LOG (Ver	sion 09/22/2022		
	E NO.			POD NO.	TRN NO.				
LOC	CATION				WELL THE ID NO		PAGE 2 C		

WELL TAG ID NO.

PAGE 2 OF 2

#### **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

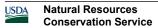
Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: D

Ecological site: R070BD004NM - Sandy

Hydric soil rating: No



#### **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





SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT Without Base Flood Elevation (BFE) With BFE or Depth Zone AE, AO, AH, VE, AR SPECIAL FLOOD HAZARD AREAS Regulatory Floodway 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X **Future Conditions 1% Annual** Chance Flood Hazard Zone X Area with Reduced Flood Risk due to Levee. See Notes. Zone X OTHER AREAS OF Area with Flood Risk due to Levee Zone D FLOOD HAZARD NO SCREEN Area of Minimal Flood Hazard Zone X Effective LOMRs OTHER AREAS Area of Undetermined Flood Hazard Zone D **GENERAL** - - - Channel, Culvert, or Storm Sewer STRUCTURES | LILLIL Levee, Dike, or Floodwall 20.2 Cross Sections with 1% Annual Chance 17.5 Water Surface Elevation **Coastal Transect** Base Flood Elevation Line (BFE) Limit of Study **Jurisdiction Boundary** --- Coastal Transect Baseline OTHER **Profile Baseline FEATURES** Hydrographic Feature Digital Data Available

> MAP PANELS Unmapped The pin displayed on the map is an approximate point selected by the user and does not represent

> > an authoritative property location.

No Digital Data Available

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 11/25/2024 at 10:00 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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



# **APPENDIX III**

C-141

# NMOCD CORRESPONDENCE

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 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

### **Release Notification**

#### **Responsible Party**

Responsible	Party: Cima	rex Energy Co.			OGRID: 2	215099			
Contact Nam						elephone: 432.571	.7800		
Contact ema	il: lluig@cir	narex.com			Incident #	(assigned by OCD)			
Contact mail Midland, TX		600 N Marienfel	d Street, Ste. 600	)					
	Location of Release Source								
Latitude 32.7	70265		(NAD 83 in	docimal de	Longitude	-104.10348			
	~		(IVAD 03 till)	uecimai ae					
Site Name: P					Site Type:				
Date Release	Discovered	: 3/26/2020			API# (if ap	plicable) 30-015-31497			
Unit Letter	Section	Township	Range		Cou	nty			
L	32	18S	29E	Edd					
	Materia		Nature ar	nd Vo	lume of	justification for the vo	olumes provided below)		
Crude Oi		Volume Release			Volume Recovered (bbls)				
Produced	Water		ed (bbls) 41 bbls				red (bbls) 5 bbls		
		Is the concentrate produced water	tion of dissolved >10,000 mg/l?	l chloride	e in the	Yes No			
Condensa	ate	Volume Release				Volume Recove	red (bbls)		
Natural C	<del>J</del> as	Volume Release	ed (Mcf)			Volume Recove	red (Mcf)		
Other (de	escribe)	Volume/Weigh	t Released (provi	ide units	)	Volume/Weight	Recovered (provide units)		
produced wa	caused spill ter in contain	nment. A hydrov	ac truck picked u	ıp contar	ninated soil	inside berm area a	emaining fluid from tank and 5 bbls nd disposed at R-360. The tank will request approval to remediate.		

Received by OCD: 1/28/2025 8:46:42 AM State of New Mexico
Page 2 Oil Conservation Division

	Page 24 of 112
Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by	If YES, for what reason(s) does the res The amount of the release is over 25 ba	ponsible party consider this a major release? arrels.							
19.15.29.7(A) NMAC?									
⊠ Yes □ No									
If VES was immediate as	etiae given to the OCD? By whom? To	whom? When and by what means (phone amail ata)?							
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? By: Gloria Garza									
To: Mike Bratcher, Rober	rt Hamlet, Victoria Venegas and Jim Gri	swold							
	Initial	Response							
The responsible p	party must undertake the following actions immedi	iately unless they could create a safety hazard that would result in injury							
The source of the rele	ease has been stopped.								
	s been secured to protect human health a	and the environment.							
Released materials ha	we been contained via the use of berms	or dikes, absorbent pads, or other containment devices.							
All free liquids and re	ecoverable materials have been removed	and managed appropriately.							
If all the actions described	d above have <u>not</u> been undertaken, expla	in why:							
		the remediation immediately after discovery of a release. If remediation							
		ial efforts have been successfully completed or if the release occurred (), please attach all information needed for closure evaluation.							
		the best of my knowledge and understand that pursuant to OCD rules and notifications and perform corrective actions for releases which may endanger							
public health or the environr	nent. The acceptance of a C-141 report by the	ne OCD does not relieve the operator of liability should their operations have							
addition, OCD acceptance of		threat to groundwater, surface water, human health or the environment. In of responsibility for compliance with any other federal, state, or local laws							
and/or regulations.									
		Title: Engineer Tech							
Signature: \( \sqrt{G} \c	Signature: Date: 4/1/2020								
		Telephone: (432) 571-7810							
OCD Only									
Received by:		Date:							

From: <u>Velez, Nelson, EMNRD</u>

To: <u>Laci Luig</u>

Subject: Re: [EXTERNAL] Palmillo State 4 Sample Variance Request

**Date:** Friday, November 22, 2024 4:13:47 PM

Attachments: image001.jpg

Outlook-4n1cob0h.png

0.jpg

**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.



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 11<sup>th</sup> to have been used as the final samples, Cimarex is respectfully requesting a variance to spill rule 19.15.29.12 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.

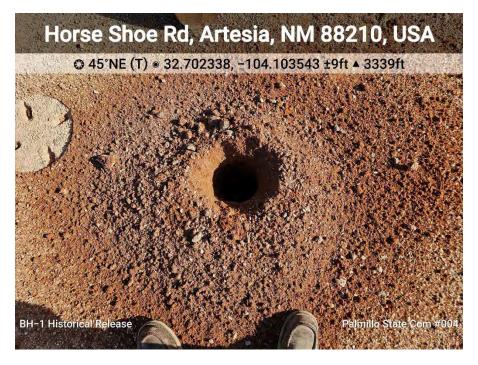
This message may contain confidential and/or privileged information. If you are not the addressee or authorized to receive this for the addressee, you must not use, copy, disclose or take any action based on this message or any information herein. If you have received this message in error, please advise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

# **APPENDIX IV**

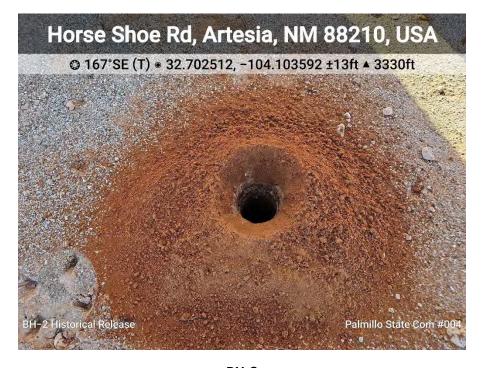
# PHOTOGRAPHIC DOCUMENTATION

#### PHOTOGRAPHIC DOCUMENTATION

#### **BORE HOLE PHOTOGRAPHS**

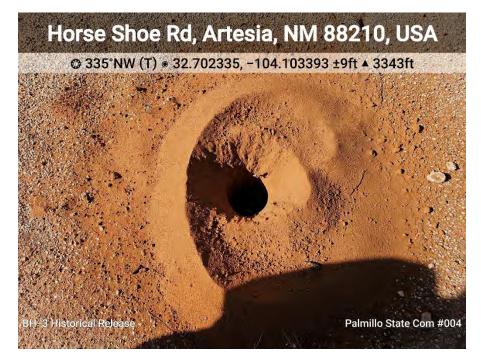


BH-1



**BH-2** 

#### PHOTOGRAPHIC DOCUMENTATION



**BH-3** 

# **APPENDIX V**

# LABORATORY REPORT



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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



#### Analytical Results For:

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

Received: 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

Analyzed By: JH

Project Location: COTERRA - EDDY

mg/kg

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

BTEX 8021B

DILX 6021D	ilig/ kg		Allalyzed by. 311						
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	% 71.5-13	4						
Chloride, SM4500CI-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	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



#### Analytical Results For:

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

Applyzod By: 14

Project Location: COTERRA - EDDY

ma/ka

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

RTFY 8021R

BIEX 8021B	тд/кд		Analyzed 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	% 71.5-13	4						
Chloride, SM4500CI-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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	117	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



#### Analytical Results For:

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

Analyzed By: JH

Project Location: COTERRA - EDDY

mg/kg

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

BTEX 8021B

	9/	9	7	7: 5::					
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, SM4500CI-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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	113 9	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



#### Analytical Results For:

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

Analyzed By: JH

Project Location: COTERRA - EDDY

mg/kg

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

BTEX 8021B

	9/	9	7	<u></u>					
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		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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	116	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



#### Analytical Results For:

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 - 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, SM4500CI-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	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	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



#### Analytical Results For:

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

Analyzed By: JH

Project Location: COTERRA - EDDY

mg/kg

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

BTEX 8021B

	9,	9	7	7: :					
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	107	% 71.5-13	4						
Chloride, SM4500CI-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	108	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	120	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



#### Analytical Results For:

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

Applyzod By: 14

Project Location: COTERRA - EDDY

ma/ka

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

RTFY 8021R

BIEX 8021B	mg	/ <b>kg</b>	Anaiyze	а ву: ЈН					
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, SM4500CI-B	mg,	/kg	Analyze	ed 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	ed 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						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



#### Analytical Results For:

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

Analyzed By: JH

Project Location: COTERRA - EDDY

mg/kg

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

BTEX 8021B

	<u> </u>								
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, SM4500CI-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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



#### Analytical Results For:

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

Received: 11/12/2024 Sampling Date: 11/11/2024

Reported: Sampling Type: Soil 11/15/2024

Project Name: PALMILLO STATE COM #004 Sampling Condition: Cool & Intact Sample Received By: Project Number: ( PAL OLD ) Shalyn Rodriguez

COTERRA - EDDY Project Location:

#### 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	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 %	6 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	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 %	6 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114 %	6 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



#### Analytical Results For:

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

Applyzod By: 14

Project Location: COTERRA - EDDY

ma/ka

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

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a 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	110	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	123	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



#### Analytical Results For:

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

Applyzod By: 14

Project Location: COTERRA - EDDY

ma/ka

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

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a 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, SM4500CI-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						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



#### Analytical Results For:

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

Applyzod By: 14

Project Location: COTERRA - EDDY

ma/ka

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

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a 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, SM4500CI-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	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg & Frence



#### Analytical Results For:

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

Received: 11/12/2024 Sampling Date: 11/11/2024

Reported: Sampling Type: Soil 11/15/2024

Project Name: PALMILLO STATE COM #004 Sampling Condition: Cool & Intact Project Number: ( PAL OLD ) Sample Received By: Shalyn Rodriguez

COTERRA - EDDY Project Location:

#### 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 9	71.5-13	4						
Chloride, SM4500CI-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 %	6 48.2-13	4						
Surrogate: 1-Chlorooctadecane	122 9	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



#### Analytical Results For:

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

Applyzod By: 14

Project Location: COTERRA - EDDY

ma/ka

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

RTFY 8021R

Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	11/14/2024	ND	2.06	103	2.00	3.63	
<0.050	0.050	11/14/2024	ND	2.12	106	2.00	3.71	
<0.050	0.050	11/14/2024	ND	2.11	106	2.00	3.74	
<0.150	0.150	11/14/2024	ND	6.28	105	6.00	3.96	
<0.300	0.300	11/14/2024	ND					
103 9	% 71.5-13	4						
mg/	'kg	Analyze	d By: AC					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<16.0	16.0	11/13/2024	ND	416	104	400	3.77	
mg/	'kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	11/13/2024	ND	201	101	200	4.45	
<10.0	10.0	11/13/2024	ND	184	91.9	200	0.0245	
<10.0	10.0	11/13/2024	ND					
104 9	% 48.2-13	4						
113 9	% 49.1-14	8						
	<0.050 <0.050 <0.050 <0.150 <0.300  103 9  Result <16.0  mg/  Result <10.0 <10.0  104 9	<0.050 <0.050 <0.050 <0.050 <0.050 <0.150 <0.300 0.300 To 300 To 300 Result Reporting Limit <16.0 mg/kg Result Reporting Limit <16.0 10.0 <10.0 10.0 <10.0 10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



#### Analytical Results For:

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: 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	% 71.5-13	4						
Chloride, SM4500CI-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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



#### **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

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Freene



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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Address:	PO #	ANALYSIS REQUEST
City:		
Phone #:	State: NM Zip:	
Project #:		
Project Name: Palmillo State Com #004	Project Owner: Coterra	
Project Location: Eddy County, NM	State:	Zip:
Sampler Name: N. Smelcer	Phone 井:	
OR LAB USE ONLY	Fax#:	
Lab I.D.	MATRIX PRESERV.	DAIR
	RS ER	SAMPLING
		8
4246884	STEW IL IDGE IER: O/BAS	
BH-1 0-01'	GR WA SOIL OTH ACIE	TE PH
2 BH-1 2'	G 1. x	В
3 BH-1 3'		X X X
4 BH-1 4'		
6 BH-2 2'		
7 BH-23'		
8 BH-2 4'		
9 BH-3 01-1'		
PLEASE NOTE: Liability and Damages. Continues: Liability and Damages.		
shall Cardinal be liable for incidental or commonwental du- se or successors arising out of or related to the perform	event shall Challed by incidental or commonwhall provides manually for any claim natural studies formed from the fact of the claim to the common shall be the claim to the claim	eims including those for negligence and any other research
Relinquished By:	Dayle: 124 Received By:	Verbal Result:
Relinquished By:	Date: Received By:	REMARKS: pg 2 of 2
Sampler - UPS - Bus - Other:	ition	Cotinued or next sono
	7.0	Tomanous Time: Standard   Bactris [noby] Sample Condition  Flash   Cool Intest Observed Timps C  Theoremometer ID seas - (UI)
FORM ONE DISCHARGE		Correction Factor -0.00

Page 18 of 19

# NCARDINAL Laboratories

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Br 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	y Name: H&R Entery Aanager: Michael Col	llier State: NM Zip:	P.O. #: Company: Coterra Attn: Laci Luig
Project Owner; Coterra  City:  Outnry, NM  Cotton  State: Zip:  Phone #:  Fax	Phone #:		Address:
Phone #:  BIT  AND State: Zip:  Phone #:  Fax	Project Name: Palmille State O	Project Owner: Coterra	City:
Phone #:  Fax	Project Location: Eddy County NM	PAI ON SULPRAY	
ACCUPY AND ACT TIMES:    Connected Temp. 'C   Columbia: Received By:	Camples Manne H Court owning item		Phone #:
MATRIX  PRESERV. SAI  O C C RS  G G I G C C ON INDIVIDUAL SET OF THE C C C C C C C C C C C C C C C C C C C	POR LABOUR CHAP I		Fax#:
Sample Condition  Observed Temp. 'C  Corrected Temp. 'C  Observed Temp. 'C  Corrected Temp. 'C  Observed Tem	Lab I.D.	MATRIX	PRESERV.
Nadely and district sections remark for any claims shalling shalling based to contact of start, duel to intend in the second play the colds for the analyses, All claims about the productions of secretical interaction by Controls, including second installation, business interruptions, less of second or claims of profits incomed by claim, its secondaries, to the productions of secretical interaction by Controls, reported secondaries of whether each claims in based upon any of the above stated restrooms or otherwises.    Date:	186	# CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	OTHER: ACID/BASE: ICE / COOL OTHER: DAT
Modify not district wortness remark for any claims strately related based in carbad of text, and to limited to be unround just the man analyses. All claims of earthcas interaction by Carbada, Republican for a claim is based for any claims of pricin browned by claims, its manufactures.    Date:	-	-	hethth x
Notify and distrit succlairs manely to any claims straing stellade based in control of the production	H-1 0		
Nobbly and clearly succlaims remark to any clean strong shelder based in contract of the particular formation through the any clean strong shelder based in contract of the particular demands. It can be particular to consider the second of the clear to be particular to the particula	4-3		
It shady not item? sections remark for any sizes arriving shades insured to text and to insure for the amount point by the called to the amplies. All claims from the control point by the called to the amplies, and called to the amplies and control to the portformance of services internance by Cardinal, regardless of substite such claims to based upons any of the above shaded reasons or determine.    Date:			
Corrected Temp. 'C   Sample Condition   CHECKED BY:   Ch	event shall Cardinal be liable for incidental or consequental demages, leck efficies or successors arising out of or related to the performance of service Relinquished RV:	using without imitation, business research context at set, said to limited to less using without limitation, business referency plans, to use of uses, or less of profits into rices hereunder by Cardinal, regardless of whether such claim is based upon an	1
Observed Temp. °C \$-7. Sample Condition CHECKED BY: Transcord Tene. Cool Infact (Initials)  Sample Condition CHECKED BY: Transcord Tene. (Initials)  Thermometer ID - Correction Factor	Athen Smiles.	DE	All Remark
FOOM ONE TO A CASE OF	Delivered By: (Circle One) Ot Sampler - UPS - Bus - Other: Cc		

Page 19 of 19

# **APPENDIX VI**

2024 CLOSURE

REPORT

(nAPP2422766341
)



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

**Soil Assessment and Closure Report** Subject:

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 L

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 ⊠No Yes Within 300 feet of any continuously flowing watercourse or any other significant watercourse Yes No Within 200 feet of any lakebed, sinkhole, or a playa lake ⊠No Yes Within 300 feet from an occupied permanent residence, school, hospital, institution, or church ⊠No Within 500 feet of a spring or a private, domestic fresh water well Yes used by less than five households for domestic or stock watering purposes ⊠No Yes Within 1000 feet of any freshwater well or spring Yes $\bowtie$ 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 No Within 300 feet of a wetland Yes No Yes Within the area overlying a subsurface mine Yes No Within an unstable area Yes $\boxtimes$ 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	Constituent	Method*	Limit**						
below any point									
within the horizontal									
boundary of the									
release to ground									
water less than									
10,000 mg/I TDS									
>100 feet	Chloride **	EPA 300.0 or	20,000 mg/kg						
		SM4500 CIB							
	TPH	EPA SW-846	2,500 mg/kg						
	(GRO+DRO+MRO)	Method 8015M							
	GRO+DRO	EPA SW-846	1,000 mg/kg						
		Method 8015M							
	BTEX	EPA SW-846	50 mg/kg						
		Method 8021B or							
		8260B							
	Benzene	EPA SW-846	10 mg/kg						
		Method 8021B or							
		8260B							

#### **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.

#### **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 Tab	le 1 Closure Crit 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
DU 1	BH-1 11/11/2024	3'	ND	ND	ND	ND	ND	0	1790
DU-1		4'	ND	ND	ND	ND	ND	0	3040
		6'	ND	ND	ND	ND	ND	0	4560
		8'	ND	ND	ND	ND	ND	0	384
		0-1'	ND	ND	ND	ND	ND	0	272
DU 2	11/11/2024	2'	ND	ND	ND	ND	ND	0	192
DN-Z	BH-2 11/11/2024	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
рп-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	e Not Detected	BH = Vertical	Bore Hole Sam	ple H = Horizo	ntal 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

6

# **APPENDIX I**

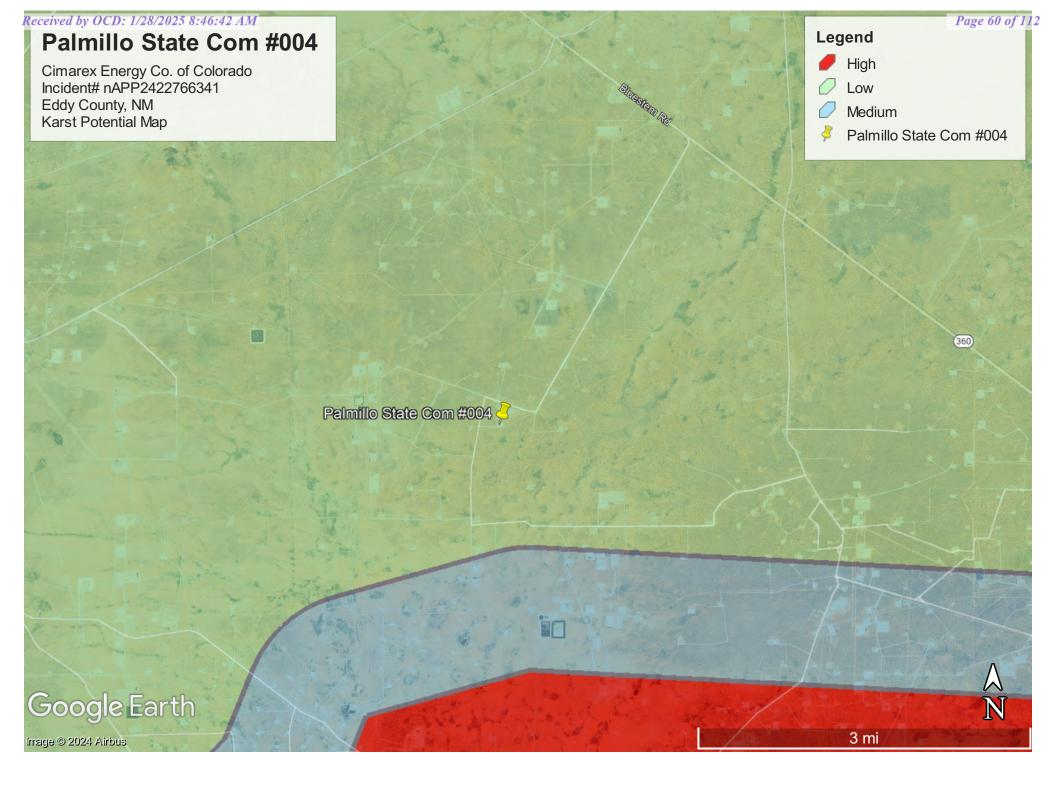
**SITE MAPS** 

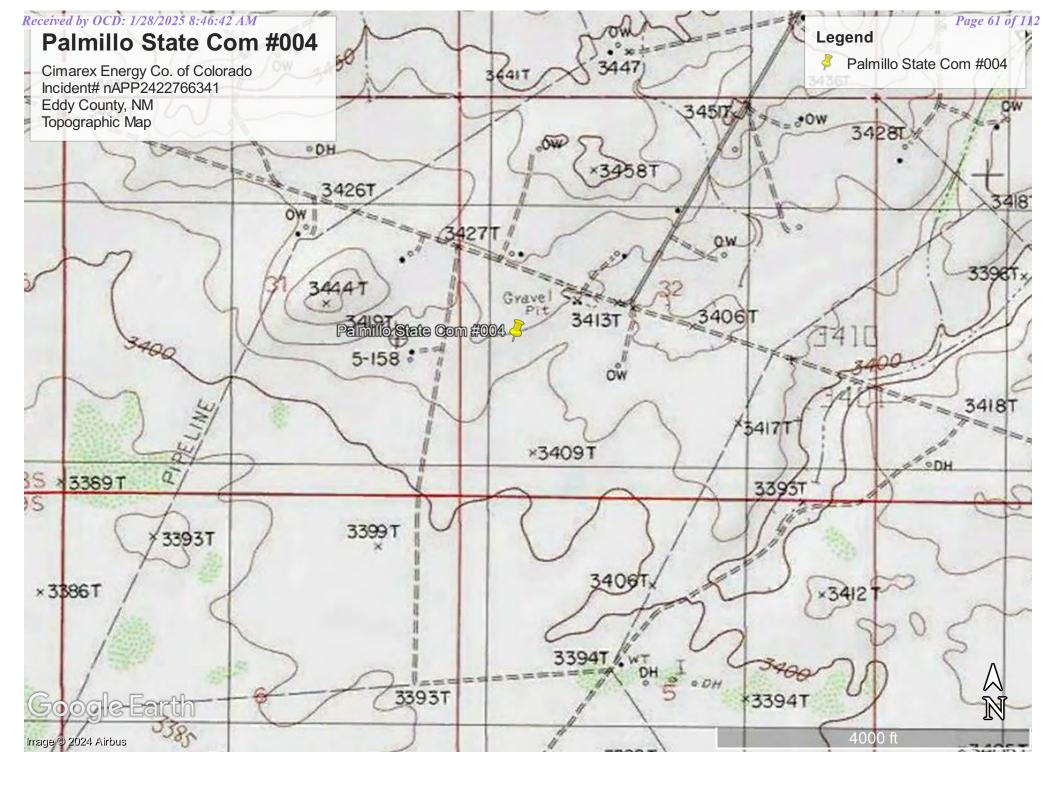
**KARST POTENTIAL MAP** 

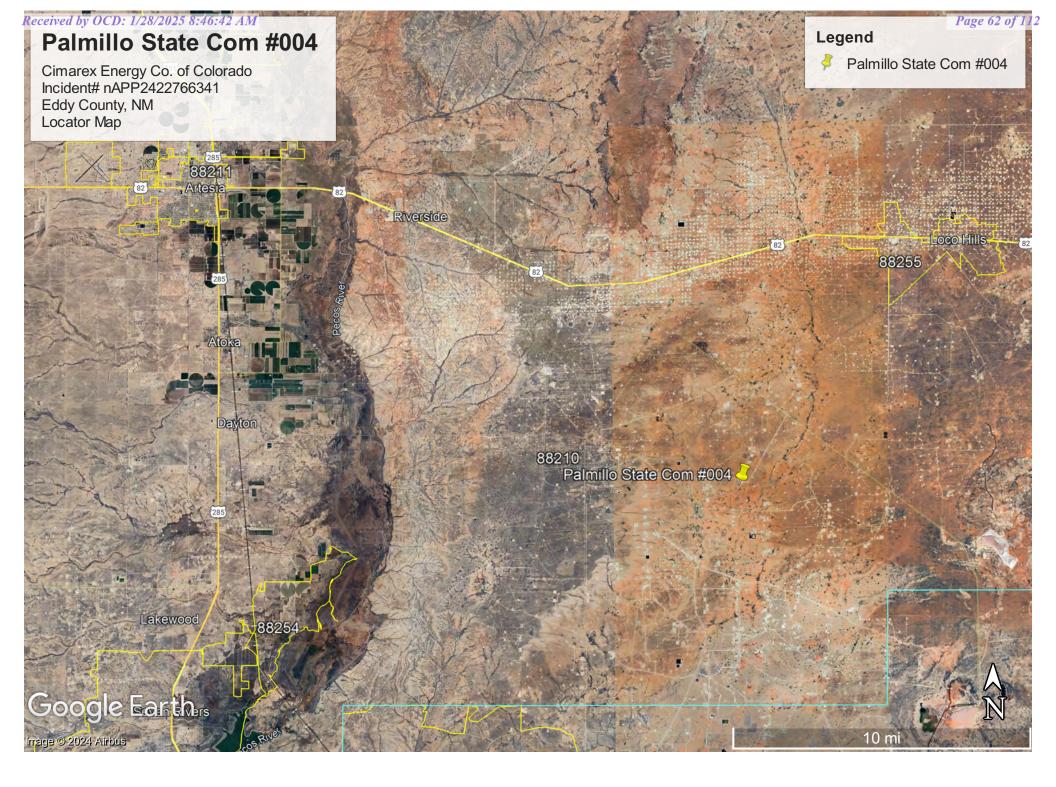
**TOPOGRAPHIC MAP** 

**LOCATOR MAP** 









# **APPENDIX II**

## **GROUNDWATER DATA**

**SOIL SURVEY** 

**FEMA FLOOD ZONE** 

NMOSE WELL LOG & PLUGGING RECORD

# Water Column/Average Depth to Water

(ADLW##### in the POD Duffix indicates the POD Das Deen replaced & no longer Derves a water right file.)	(R=POD has been replaced, O=orphaned, C=the file <b>g</b> closed)			(quarte smalles	ers are st to <b>la</b> 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>		CP	ED	SW	SE	NE	29	185	29E	585119.6	3620
<u>CP 01858 POD1</u>		СР	ED	SE	NW	SE	01	195	28E	581872.2	3617

RecordCount: 2

**Basin/County Search:** 

County: ED

<u>UTM Filters (in meters):</u>

**Easting:** 584039.75 **Northing:** 3618680.43

**Radius:** 03000

\* 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, \(\bar{u}\) sability, or suitability for any particular purpose of the data.

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

©2024 New Mexico Office of the State Engineer, All Rights Reserved. | Disclaimer | Dontact Us | Belp | Bome |



### PLUGGING RECORD



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

Vell	owner: Coterra Energy Co. (Agent Jan	nes Hawley H&R)	Phone No.	
Maili	ng address: P.O. Box 3641			
City:	Hobbs	State:	NM	Zip code: 88241
I. W	VELL PLUGGING INFORMATION	<u>:</u>		
)	Name of well drilling company that	plugged well: H&R En	terprises, LLC.	
()	New Mexico Well Driller License N	No.: WD-1862		Expiration Date: 6-16-25
3)	Well plugging activities were super Nathan Smelcer	vised by the following w	vell driller(s)/rig superv	visor(s):
1)	Date well plugging began: 11-15-	-24 Da	ite well plugging concl	uded: 11-15-24
5)	GPS Well Location: Latitude Longitud	deg. deg. deg. deg.	42 min, 0 06 min,	09.6 sec 12.2 sec, WGS 84
5)	Depth of well confirmed at initiatio by the following manner: well soun		5' ft below ground l	evel (bgl),
7)	Static water level measured at initia	tion of plugging: N/	A ft bgl	
3)	Date well plugging plan of operatio	ns was approved by the	State Engineer: 10-	18-24
9)	Were all plugging activities consisted differences between the approved p	ent with an approved plu lugging plan and the we	gging plan? yes	If not, please describ each additional pages as needed):

10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with 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 Material Used (include any additives used)	Volume of Material Placed (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement Method (tremie pipe. other)	Comments ("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	
-					
-					
	-				
_		MUTDLY	By AND OPTIME		
		MULTIPLY cubic feet x	BY AND OBTAIN 7.4805 = 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

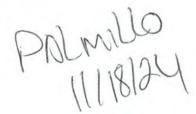
Date



### WELL RECORD & LOG

#### OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us



NO	OSE POD NO. (1) Pod 1	VELL NO	.)	,	WELL TAG ID NO	).		OSE FILE N	IO(S).				
OCATI	WELL OWNER Coterra Ener		(Agent James Haw	ley H&R Enter	prises, LLC)			PHONE (OPTIONAL)					
AND WELL LOCATION		WELL OWNER MAILING ADDRESS P.O. Box 3641 Hobbs									STATE	88241	ZIP
AND	WELL			EGREES 32	32 42 09.6					ED OUT TO		and a second	
GENERAL	(FROM GPS)		NGITUDE	104	06	12.2	N W	1	REQUIRED:		TH OF A	SECOND	
1. GE	DESCRIPTION	RELATIN	NG WELL LOCATION TO	STREET ADDRE	SS AND COMMO	N LANDMARK	CS - PLS	SS (SECTION,	TOWNSHJIP	, RANGE) WE	IERE AV	AILABLE	
	LICENSE NO. WD-18	52	NAME OF LICENSED						NAME	OF WELL DR			
					ames Hawley					H&1	R Enterp	orises, LLC	
	DRILLING STA		DRILLING ENDED	DEPTH OF COM	PLETED WELL (F	FT) BO		LE DEPTH (F)	) DEPTH	WATER FIR	ST ENCO	UNTERED (FT)	
Z	COMPLETED W								IC WATER LEVEL MPLETED WELL N/A DATE STATIC MEA 11-15-24				
TIO	DRILLING FLUID: AIR MUD ADDITIVES - SPECIFY:												
RM	DRILLING MET	HOD: 🗸	ROTARY HAM	MER CABLE	TOOL OTH	HER - SPECIFY	3			CHECK	HERE IF	PITLESS ADA	PTER IS
NFO	DEPTH (feet bgl) BORE HOLE			CASING MATERIAL AND/OR				T	INSTAI	LED			
CASING INFORMATION	FROM	ТО	DIAM (inches)	(include ea	GRADE (include each casing string, and note sections of screen)			ASING NECTION TYPE	CTION INSIDE DI		TH	ING WALL ICKNESS (inches)	SLOT SIZE (inches)
	0'	105'	6'	No cas	sing left in hole		ad coup	ing diameter)					
DRILLING &													
DRIL									+				
2.													
		- Title			,								
	DEPTH (fee	et bgl)	BORE HOLE	LIST ANNULA	AR SEAL MATE			PACK SIZE					
IAL	FROM	ТО	DIAM. (inches)	*(if using Centr	RANGE B alizers for Artesi	Y INTERVAL an wells- indic		snacing below		AMOUNT cubic feet)		METHO! PLACEM	
ANNULAR MATERIAL						N/A	are the	spacing belov			+		
RM		_											
ULA									-				
											-		
3.													
FOR	OSE INTERNA	L USE						WD	20 WELL	PECOPD (	100	V1- 00 77	1/2022:
FILE	NO.				POD NO	),		TRN		KECORD &	LOG (	Version 09/22	2/2022)
LOC	ATION							WELL TAG	ID NO.			PAGE	1 OF 2

4. HYDROGEOLOGIC LOG OF WELL	FROM TO  0' 5' 5' 26' 26' 105'	5'	INCLUDE WATER	TYPE OF MATERIAL -BEARING CAVITIES lemental sheets to fully Sandy Topsoil Sandy Caliche Sand & Gravel	OR FRAC	TURE ZONES	BEAR	TER RING? / NO)   ✓ N   ✓ N   N   N   N   N   N   N   N	YIELD FOR WATER- BEARING ZONES (gpm)
OGEOLOGIC LOG OF WELL	5' 26'	21'		Sandy Caliche			Y Y Y Y Y Y Y	✓ N  ✓ N  N  N  N	
OGEOLOGIC LOG OF WELL							Y Y Y Y	√N N N	
OGEOLOGIC LOG OF WELL	26' 105'	79'		Sand & Gravel			Y Y Y	N N N	
OGEOLOGIC LOG OF WELL							Y Y Y	N N N	
OGEOLOGIC LOG OF WELL							Y	N N	
OGEOLOGIC LOG OF WELL					***************************************		Y	N	
OGEOLOGIC LOG OF WE							-		
OCEOLOGIC LOG OF							Y	N	
OGEOLOGIC LOG							_		
OGEOLOGIC							Y	N	
OGEOLOG							Y	N	
GEO							Y	N	
							Y	N	
)R(							Y	N	
НУГ							Y	N	
4							Y	N	
							·Y	N	
							Y	N	
							Y	N	
							Y	N	
							Y	N	
							Y	N	
MI	ETHOD USED TO	ESTIMATE YIELD	OF WATER-BEARING	STRATA:			TAL ESTIN		
	PUMP	AIR LIFT	BAILER OTH	ER - SPECIFY: Dry H	ole	WE	LL YIELD	) (gpm):	0.00
w W	VELL TEST TE	ST RESULTS - ATTA ART TIME, END TIME	ACH A COPY OF DATA ME, AND A TABLE SHO	COLLECTED DURIN	G WELL T	ESTING, INCLUD	ING DISC	HARGE N	METHOD,
5. TEST; RIG SUPERVISION  M  M		INFORMATION: W	ell was gauged for wat is backfilled to 10' BGS rface.	er on 11-15-24, well I	ore was d	ry temporary we	Il casing v	vas remo	vad hara hala
PR Nat	RINT NAME(S) OF	F DRILL RIG SUPER	VISOR(S) THAT PROV	IDED ONSITE SUPER	VISION OF	WELL CONSTRU	JCTION O	THER TH	AN LICENSEE
			IES THAT, TO THE BES ESCRIBED HOLE AND 0 DAYS AFTER COMPL	ETION OF WELL DR		E AND BELIEF, THIS WELL RECO	RD WITH	THE STA	S A TRUE ANI TE ENGINEEI
6.81	SIGN	ATURE OF DRILLE	Jan R / PRINT SIGNEE NA	nes Hawley			11-1	18-24	
		U		TO ME				DATE	
	SE INTERNAL US	E	1		-	WR-20 WELL RE	ECORD &	LOG (Ver	rsion 09/22/2022
FILE NO				POD NO.		TRN NO.			

#### **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

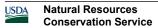
Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: D

Ecological site: R070BD004NM - Sandy

Hydric soil rating: No



#### **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**

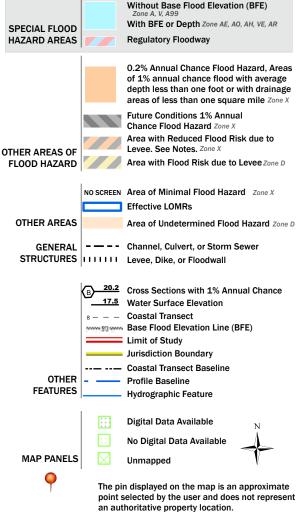
Soil Survey Area: Eddy Area, New Mexico Survey Area Data: Version 20, Sep 3, 2024

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





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



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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 11/25/2024 at 10:00 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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



### **APPENDIX III**

C-141

### NMOCD CORRESPONDENCE

SIGN-IN HELP

Searches

Districts:

Counties:

**Operator Data** 

Artesia

Eddy

**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

[162683] CIMAREX ENERGY CO. OF COLORADO

CIMAREX ENERGY CO. OF COLORADO [162683]

, PALMILLO STATE 4

, nAPP2422766341

Status:

Operator:

Description:

APPROVED 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 watercourse

No

Has this release endangered or does it have a reasonable probability of endangering

public health

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

SIGN-IN HELP

Searches **Operator Data Hearing Fee Application** 

### 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

Produced Water Released (bbls) Details

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

Condensate Released (bbls) Details

Natural Gas Vented (Mcf) Details Natural Gas Flared (Mcf) Details Other Released Details

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

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

Not answered

Cause: Lightning | Tank (Any) | Produced Water | Released: 47 BBL | Recovered: 10 BBL | Lost: 37 BBL.

Not answered. Not answered Not answered.

We had a lightning strike that resulted in a fire and a spill at the Palmillo State 4. No injuries were associated w 0128, the Coterra Control Room received a call about a possible fire at the Palmillo State 4 well, which was ca Melbourne employee. At 0257, the Coterra Lease Operator arrived on site and confirmed the fire had self-extir reviewing the water tank gauges, an estimated 42 barrels were in the tank. A vac truck was able to recover a to 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)

Was this a major release as defined by Subsection A of 19.15.29.7 NMAC

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

No, according to supplied volumes this does not appear to be a "gas only" report.

From paragraph A. "Major release" determine using:

- (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 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 True

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

True Not answered.

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

the follow-up C-141 submission.

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

I hereby agree and sign off to the above statement

Name: Laci Luig

Title: ES&H Specialist

Email: DL\_PermianEnvironmental@coterra.com

Date: 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 release in feet below ground surface (ft bas)

Not answered.

What method was used to determine the depth to ground water

Not answered.

SIGN-IN HELP

		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 appr	opriate district office no late	r 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 accordan	nce with the physical realitie	es encountered during remedia	tion. If the responsible party ha	s any need to significantly deviate from the
then it should consult with the division to determine if another remediation plan submission is required.				
This submission type does not have acknowledgments, at this time.				
Comments				
No comments found for this submission.				
Conditions				
<b>Summary:</b> <i>nvelez</i> (8/15/2024), None				
Reasons				
No reasons found for this submission.				
Go Back				

New Mexico Energy, Minerals and Natural Resources Department | Copyright 2012 1220 South St. Francis Drive | Santa Fe, NM 87505 | P: (505) 476-3200 | F: (505) 476-3220

EMNRD Home OCD Main Page OCD Rules Help

From: <u>Velez, Nelson, EMNRD</u>

To: <u>Laci Luig</u>

Subject: Re: [EXTERNAL] Palmillo State 4 Sample Variance Request

**Date:** Friday, November 22, 2024 4:13:47 PM

Attachments: image001.jpg

Outlook-4n1cob0h.png

0.jpg

**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.



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 11<sup>th</sup> to have been used as the final samples, Cimarex is respectfully requesting a variance to spill rule 19.15.29.12 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.

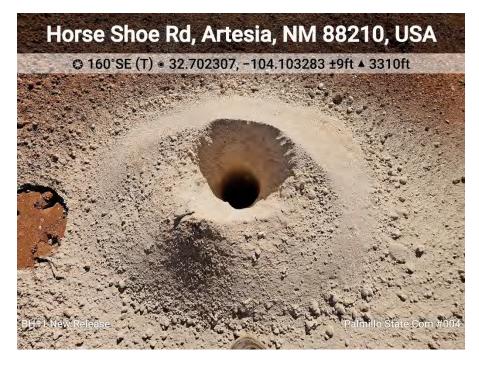
This message may contain confidential and/or privileged information. If you are not the addressee or authorized to receive this for the addressee, you must not use, copy, disclose or take any action based on this message or any information herein. If you have received this message in error, please advise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

### **APPENDIX IV**

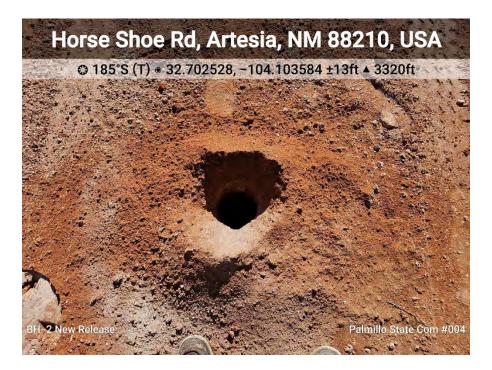
## PHOTOGRAPHIC DOCUMENTATION

### PHOTOGRAPHIC DOCUMENTATION

### **BORE HOLE PHOTOGRAPHS**

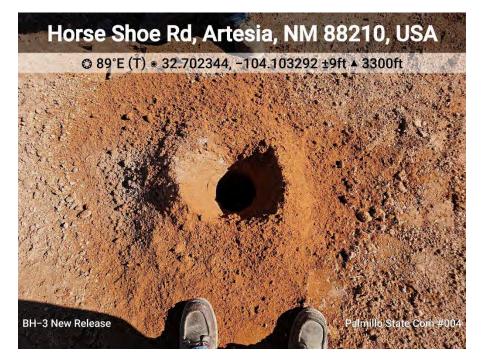


**BH-1** 



**BH-2** 

### PHOTOGRAPHIC DOCUMENTATION



BH-3

### **APPENDIX V**

## LABORATORY REPORT



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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



### Analytical Results For:

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

Received: 11/12/2024 Sampling Date: 11/11/2024

Reported: 11/15/2024 Sampling Type: Soil
Project Name: PALMILLO STATE COM #004 Sampling Condition: Coo

Project Name: PALMILLO STATE COM #004 Sampling Condition: Cool & Intact
Project Number: ( PAL NEW ) Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: COTERRA - EDDY

mg/kg

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

BTEX 8021B

DILX 0021D	ilig/	r kg	Allalyze	u by. 311					
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	113 9	% 71.5-13	4						
Chloride, SM4500CI-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	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	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	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



### Analytical Results For:

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 2' (H246882-02)

BTEX 8021B	mg	/kg	Analyze	ed 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, SM4500CI-B	mg	/kg	Analyze	ed 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	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	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	116	% 49.1-14	8						

### Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



### Analytical Results For:

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

Received: 11/12/2024 Sampling Date: 11/11/2024

Reported: Sampling Type: Soil 11/15/2024

Project Name: PALMILLO STATE COM #004 Sampling Condition: Cool & Intact Project Number: Sample Received By: (PAL NEW) Shalyn Rodriguez

Project Location: COTERRA - EDDY

### 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	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	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						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



### Analytical Results For:

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

Received: 11/12/2024 Sampling Date: 11/11/2024

Reported: Sampling Type: Soil 11/15/2024

Project Name: PALMILLO STATE COM #004 Sampling Condition: Cool & Intact Project Number: (PAL NEW) Sample Received By: Shalyn Rodriguez

COTERRA - EDDY Project Location:

### 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 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	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 9	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



### Analytical Results For:

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

Analyzed By: JH

Project Location: COTERRA - EDDY

mg/kg

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

BTEX 8021B

	<u> </u>			. ,					
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	94.7	% 71.5-13	4						
Chloride, SM4500CI-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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	123	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



### Analytical Results For:

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

Applyzod By: 14

Project Location: COTERRA - EDDY

ma/ka

### Sample ID: BH - 18' (H246882-06)

RTFY 8021R

BIEX 8021B	mg	/ <b>kg</b>	Anaiyze	а ву: ЈН					
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	101	% 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	384	16.0	11/13/2024	ND	400	100	400	0.00	
TPH 8015M	mg	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	118	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey & Keene



### Analytical Results For:

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

Applyzod By: 14

Project Location: COTERRA - EDDY

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

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a 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	272	16.0	11/13/2024	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	125	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



### Analytical Results For:

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

Applyzod By: 14

Project Location: COTERRA - EDDY

ma/ka

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

RTFY 8021R

B1EX 8021B	mg	/ kg	Anaiyze	a 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	192	16.0	11/13/2024	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	124	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



### Analytical Results For:

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 - 2 3' (H246882-09)

BTEX 8021B	mg	/kg	Analyze	ed 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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed 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	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	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	126	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



### Analytical Results For:

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

Received: 11/12/2024 Sampling Date: 11/11/2024

Reported: Sampling Type: Soil 11/15/2024

Project Name: PALMILLO STATE COM #004 Sampling Condition: Cool & Intact Project Number: (PAL NEW) Sample Received By: Shalyn Rodriguez

COTERRA - EDDY Project Location:

### 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, SM4500CI-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	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	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



### Analytical Results For:

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 - 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		Analyzed 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						

Surrogate: 1-Chlorooctadecane 121 % 49.1-148

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg & Frence



### Analytical Results For:

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

Analyzed By: JH

Project Location: COTERRA - EDDY

mg/kg

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

BTEX 8021B

DILX GOZID	ıııg,	, kg	Andryzo	u by. 511					
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	114	% 71.5-13	4						
Chloride, SM4500CI-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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	124	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



### Analytical Results For:

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 - 3 3' (H246882-13)

BTEX 8021B	mg	/kg	Analyze	ed 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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed 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	ed 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	127	% 49.1-14	8						

### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



### Analytical Results For:

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

Received: 11/12/2024 Sampling Date: 11/11/2024

Reported: Sampling Type: Soil 11/15/2024

Project Name: PALMILLO STATE COM #004 Sampling Condition: Cool & Intact Shalyn Rodriguez Project Number: (PAL NEW) Sample Received By:

Project Location: COTERRA - EDDY

### 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	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, SM4500CI-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 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	117 9	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



### Analytical Results For:

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

Applyzod By: 14

Project Location: COTERRA - EDDY

ma/ka

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

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a 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	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	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	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Kreine



### Analytical Results For:

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

Analyzed By: JH

Project Location: COTERRA - EDDY

mg/kg

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

BTEX 8021B

	9,	9	7	7: :					
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, SM4500CI-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	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



11/11/2024

### Analytical Results For:

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

Received: 11/12/2024 Sampling Date:

mg/kg

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

Analyzed By: JH

Project Location: COTERRA - EDDY

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

BTEX 8021B

DILX GOZID	1119/	<u>ka</u>	Allulyzo	.u by. 511					
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	ed 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	ed 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						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



### **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  $6^{\circ}\text{C}$ 

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

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Freene

## Laboratories

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company	Transaction Minimum 1107 W. A				
State: NM Zp: Ann. Lead Luig  Fax 8: Address: Ann. Lead Luig  Final State: Ann. Luig  Fina	Company Name: H&R Enterprises		BILL TO		ANALYSIS REQUEST
State: NM Zip: Administration of the control of the	Project Manager: Michael Collier		P.O.#:		
State: NM Zp: Address:  Address: Com 8004  AAMTAX  AAM	Address:		Company: Coterra		
Four 8:  Project Owner: Colorna Project Owner	City:	NM	Attn: Laci Luig		
BROWN AND TO CHEMPS AND AND STATE THAT THE STATE AND AND THE A	Phone #:	Fax #:	Address:		
AN COM #8004  AND THE PROBLEM  AND THE P	Project #:	Project Owner: Coterra	City:		
PROPERTY SAMPLING  FAX #:  FAX	Project Name: Palmillo State Com #004	740) Sut 1947	State:		
MATRIX PRESERV SAMPLING    DIT	Project Location: Eddy County, NM				
DIT   GROUNDWATER   WASTEWATER   WASTEWATER	Sampler Name: N. Smelcer		Fax#:		
DIT    Contracted Temp. 'C   Contracted Temp. 'C -   Contr	ab I D	MATRIX	Ħ	LING	
O	.83	# CONTAINERS  GROUNDWATER  WASTEWATER  SOIL  OIL	OTHER: ACID/BASE: ICE / COOL OTHER:	BTEX TPH	
Diff.    Contracted Temps, "C 3-72.   Sample Condition   CHECKED BY:   Transmission   Contract Temps, "C 3-72.   Cool mags.   The contract Temps   Contract Temps, "C 3-72.   Cool mags.   The contract Temps   Contract Temps, "C 3-72.   Cool mags.   The contract Temps   Contract Temps   Contract Temps, "C 3-72.   Cool mags.   The contract Temps		1 0 × w	X 10	1	
Date:    Corrected Temp.*C	$\overline{}$		1011/10	,	
Other Corrected Temp. "C 3-72. Cool Inflast:  Observed Te	3 BH-1 3'				
Observed Temp. "C 3 - 72. Cool Inflast  Corrected Temp. "C 3 - 72. Cool Inflast  Corrected Temp. "C 3 - 72. Cool Inflast  Corrected Temp. "C 5 - 72. Cool Inflas	4 BH-1 4'				
-011*	S BH-1 6'				
Observed Temp. *C 3 - 72   Cool Intigst   Corrected Temp. *C 3 - 72   Cool Intigst   Sample Condition   Sa	6 BH-1 8'				
It this port form mands to any other analy declare lead to contend or too, dust be found to the analysis of man, or house profits accounted by the desire in a analysis, All claims locating fittous for negligence and any other cause within owner shall be deemed unless made in writing and received by Cardinal specialists of which to various any other cause within owner shall be deemed unless made in writing and received by Cardinal specialists are emissived.    Date:   Date:   Received By:	7 BH-2 0-01'				
Install and client's motivals month, it way claim andreal solution in the second to be second to the	_				
Install and district, materials among it way other profess indicated to be assess to the action of the profess and districts of the profess and the					
To the portionance of environe interruptions, focus of use, or loss of use of	6 BH-2 4' ASE NOTE: Cability and Dismagns. Cardinal's Bability and client's exclusions.	sive sensely for any citain princips whether imped in protection or a shall had been all the sensely for the shall had been a shall be a sensely for the shall be a sensely for the sensely fo			
Date:   Received By:   Werbal Result:   Yes   No   Add'l Phone #:   All Results are emailed. Please provide Email address:   All Results are emailed. Please provide Email address:   All Results are emailed. Please provide Email address:   Time:   Continued on 1 xx t   Dad & Control on the Condition   CHECKED BY:   The Manufact Time:   Sample Condition   CHECKED BY:   The Manufact Time:   Cool lease:   One of time of the Condition   Checked on 1 xx t   Dad & Connection Factor asset:   Checked on 1 xx t   Dad & Connection   Checked on 1 xx t   Dad & Connectio	thes or successors arising out of or related to the performance of	acclusing without limitation, business interruptions, loss of use, or loss of posts inou- services hereunder by Cardinal, regardless of whether such claim is based upon any	urred by client, its subsidiaries, y of the above stated resours or otherwise.		The common of th
Date:   Received By:	ather Smeler	124 Received By:	en	Verbal Result: ☐ Yes ☐ No All Results are emailed. Please provide	Add'l Phone #:   Email address:
Observed Temp. °C 3-72 Cool Inflast Corrected Temp. °C 3-72 Cool Inflast Corrected Temp. °C 3-72 Cool Inflast Connection Temp. °C 3-72 Cool Inflast Connection Factor above Co	inquisined by:		0		
Connection Factor 4566 COUL IND NO		AV 8.0.6	CHECKED BY: (Initials)	transport Tree: Standard Bacteria (or loss)  Cod Intact: Observed Temp. "Commomenter ID ##19##################################	ample Condit
			7	~ O.U	□ No □ No



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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: H&R Enterprises				
Project Manager: Michael Collier		BILL TO		ANALYSIS REQUEST
Address:		P.O. #:		1000000
City:		Company: Coterra		
P#:	State: NM Zip:	Attn: Laci Luig		
	Fax #:	Address:		
Project Name Printer	Project Owner: Coterra	City:		
Project Name: Palmillo State Com #004	(NEW ) CALANT	State: Zip:		
Project Location: Eddy County, NM		件		
Sampler Name: N. Smelcer		7 110116 #.		
FOR LAB USE DIRLY		Fax#:		
Lab I.D.	MATRIX	PRESERV. SAMPLING	LING	
H246882	GROUNDWATER WASTEWATER SOIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER:	BTEX TPH Chlorides	
12 BH-32'	- G	X WILL	x x x	
/3 BH-3 3'				
/4 BH-3 4"				
1-0 % A C-1	*			
PLEASE HOTE: Liability and Disnayles. Cardisu's lability and disn't sersions in event shall Cardinal be labels for incidental or consequential damages, incidental or consequential damages, incidental or consequential damages.	PLEASE HOTE: Listilly and Chamages. Charlisha's lacitality and client's establish rand claims animally to any claims arising substitute based in contract or tox, claim be limited to the animals placed for the client for the client for the client for the size of the size of the client for the size of the s	Notes All claims		
Relinquished By:	Refinquished By:  Date:    Received By:   Date:   A   Received By:   Received By:	cotherwise.		ees on constant restricts created in writing and received by Condrest within 30 days after or
Relinquished By:	Timeson Slowling	nay	All Results are emailed. Please provide Email address:	Add'l Phone #; Email address:
	Time:	R	* Cust coord	ud ID corrections See Ema
Sampler - UPS - Bus - Other: Co	Observed Temp. "C 3-7." Sample Condition Corrected Temp. "C 3-7." Cool Intact  S.   C	CHECKED BY: Tunas (Initials)  There	cond Time: Standard, Bacteria (ook)  Cool Indust: Observed Temp. 'C.  Bombelle (D. +1113) # / 4/ C.	Sample Condition
FORM-006 R 3.2 10/07/21			-0.00	

Sante Fe Main Office Phone: (505) 476-3441 General Information Phone: (505) 629-6116

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

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

QUESTIONS

Action 425563

### **QUESTIONS**

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.

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

General Information Phone: (505) 629-6116

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

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

QUESTIONS, Page 2

Action 425563

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	
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.	e. gas only) are to be submitted on the C-129 form.
Initial Response	
The responsible party must undertake the following actions immediately unless they could create a s	safety hazard that would result in injury.
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.
	ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for releating the OCD does not relieve the operator of liability should their operations have failed to a	knowledge and understand that pursuant to OCD rules and regulations all operators are required asses 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

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

Phone: (505) 629-6116

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

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

QUESTIONS, Page 3

Action 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

Site Characterization		
Please answer all the questions in this group (only required when seeking remediation plan approva release discovery date.	l and beyond). This information must be provided to the appropriate district office no later than 90 days after the	
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 and 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		
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
Requesting a remediation	plan approval with this submission	Yes
Attach a comprehensive report de	monstrating the lateral and vertical extents of soil contamination a	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	l extents of contamination been fully delineated	Yes
Was this release entirely co	ontained within a lined containment area	No
Soil Contamination Sampling	: (Provide the highest observable value for each, in milli	grams per kilograms.)
Chloride	(EPA 300.0 or SM4500 CI 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.		
On what estimated date wi	Il the remediation commence	03/26/2020
On what date will (or did) the	ne 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 surfa	ce area (in square feet) that will be reclaimed	1900
What is the estimated volume	ne (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated 0		0
What is the estimated volume	What is the estimated volume (in cubic yards) that will be remediated 0	
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.		

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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

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

General Information Phone: (505) 629-6116

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

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

QUESTIONS, Page 4

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

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 NMAC, which includes the anticipated timelines for beginning and completing the remediation

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

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

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

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

General Information Phone: (505) 629-6116

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

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

QUESTIONS, Page 5

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

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

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

Phone: (505) 629-6116
Online Phone Directory
<a href="https://www.emnrd.nm.gov/ocd/contact-us">https://www.emnrd.nm.gov/ocd/contact-us</a>

### 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

**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 remediation steps have been completed.	
Requesting a remediation closure approval with this submission  Yes	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	0
What was the total volume (cubic yards) remediated	0
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	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.

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Name: Ashton Thielke
Title: EHS Specialist
Email: Ashton.Thielke@coterra.com
Date: 01/28/2025

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

General Information Phone: (505) 629-6116

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

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

QUESTIONS, Page 7

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

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

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

General Information Phone: (505) 629-6116

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

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

CONDITIONS

Action 425563

### **CONDITIONS**

Operator:	OGRID:
Coterra Energy Operating Co. 6001 Deauville Blvd	215099
	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