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## **Soil Assessment and Closure Report**

Palmillo State Com #004  
Incident# nAPP2422766341  
Eddy County, New Mexico

### **Prepared For:**

Cimarex Energy Co. of Colorado  
6001 Deauville Blvd. Suite 300N  
Midland, TX 79706

### **Prepared By:**

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

**November 25, 2024**

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

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

Dear Mr. Bratcher,

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

### **Site Information**

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

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

### Groundwater and Site Characterization

The New Mexico Office of the State Engineer web site indicates that the nearest reported depth to groundwater is 180-feet below ground surface (BGS). See [Appendix II](#) for the referenced groundwater data.

If a release occurs within the following areas, the responsible party must treat the release as if it occurred less than 50 feet to the groundwater in Table I, New Mexico Oil Conservation Division (NMOCD) Rule 19.15.29, NMAC.

**Approximate Depth to Groundwater** **180 Feet/BGS**

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

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

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

### Incident Description

On August 14, 2024, it was discovered that lightning had struck the produced water tank causing a fire and release of approximately 42 barrels (bbls) of produced water. A total of 10 bbls were recovered.

### 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 in Appendix VI, as that references an additional NMOCD spill incident (nRM2009253961). Photographic documentation is attached in [Appendix IV](#). A complete laboratory report can be found in [Appendix V](#).

Sample ID	Sample Date	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
NMOCD Table 1 Closure Criteria 19.15.29 NMAC			50 mg/kg	10 mg/kg	1000 mg/kg		2500 mg/kg	2500 mg/kg	20,000 mg/kg
BH-1	11/11/2024	0-1'	ND	ND	ND	ND	ND	0	1020
		2'	ND	ND	ND	ND	ND	0	928
		3'	ND	ND	ND	ND	ND	0	1790
		4'	ND	ND	ND	ND	ND	0	3040
		6'	ND	ND	ND	ND	ND	0	4560
		8'	ND	ND	ND	ND	ND	0	384
BH-2	11/11/2024	0-1'	ND	ND	ND	ND	ND	0	272
		2'	ND	ND	ND	ND	ND	0	192
		3'	ND	ND	ND	ND	ND	0	320
		4'	ND	ND	ND	ND	ND	0	48
BH-3	11/11/2024	0-1'	ND	ND	ND	ND	ND	0	2480
		2'	ND	ND	ND	ND	ND	0	176
		3'	ND	ND	ND	ND	ND	0	144
		4'	ND	ND	ND	ND	ND	0	32
H-1	11/11/2024	0-1'	ND	ND	ND	ND	ND	0	16
H-2	11/11/2024	0-1'	ND	ND	ND	ND	ND	0	16
H-3	11/11/2024	0-1'	ND	ND	ND	ND	ND	0	32

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

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

## Closure

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

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

Respectfully submitted,

H&R Enterprises, LLC

Michael Collier  
Environmental Project Manager

### Attachments:

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

# APPENDIX I

## SITE MAPS

### KARST POTENTIAL MAP

### TOPOGRAPHIC MAP

### LOCATOR MAP

# Palmillo State Com #004

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

## Legend

- Horizontal Sample Point
- Vertical Bore Hole Sample Point



Google Earth





Image © 2024 Airbus

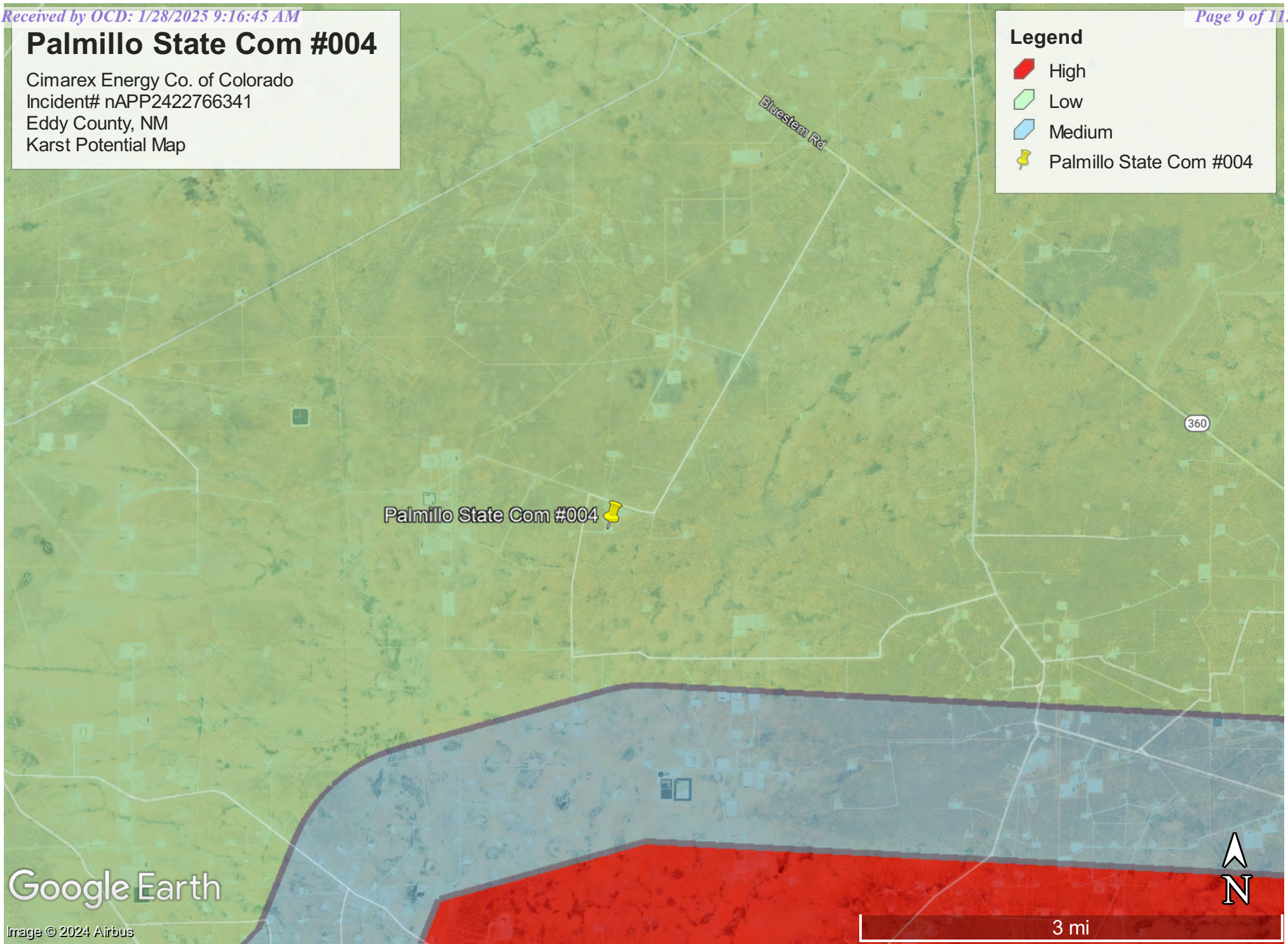


# Palmillo State Com #004

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

**Legend**

-  High
-  Low
-  Medium
-  Palmillo State Com #004



Google Earth

Image © 2024 Airbus

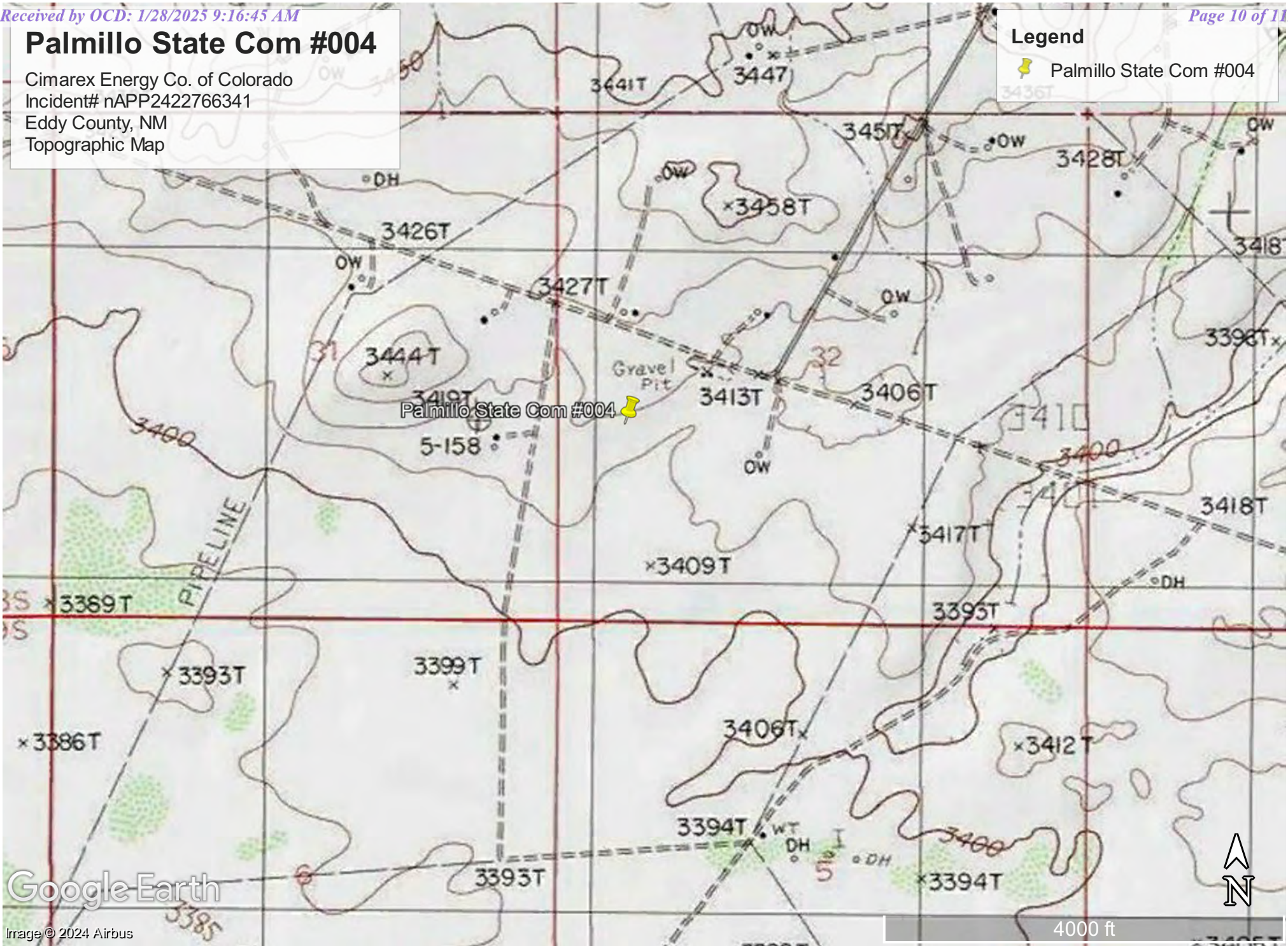


# Palmillo State Com #004

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

## Legend

 Palmillo State Com #004



Google Earth


Imagery © 2024 Airbus

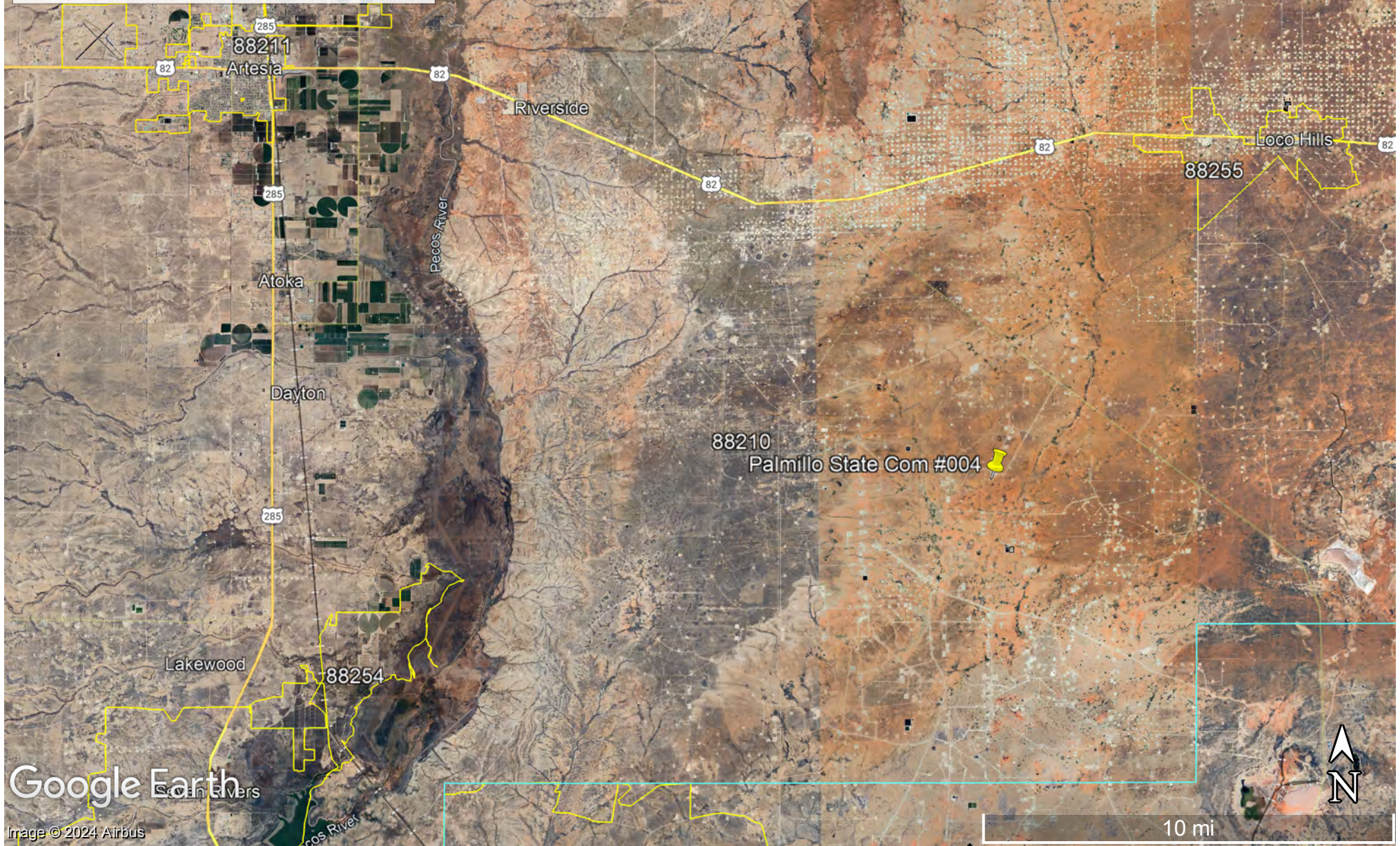
4000 ft

# Palmillo State Com #004

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

**Legend**

-  Palmillo State Com #004



# APPENDIX II

**GROUNDWATER DATA**

**SOIL SURVEY**

**FEMA FLOOD ZONE**

**NMOSE WELL LOG &  
PLUGGING RECORD**

# Water Column/Average Depth to Water

(AOLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are smallest to largest)

(NAD83 UTM in meters)

POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	X
<a href="#">CP_01618_POD1</a>		CP	ED	SW	SE	NE	29	18S	29E	585119.6 3620
<a href="#">CP_01858_POD1</a>		CP	ED	SE	NW	SE	01	19S	28E	581872.2 3617

**Record Count:** 2

**Basin/County Search:**

**County:** ED

**UTM Filters (in meters):**

**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 is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

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

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# PLUGGING RECORD



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

## I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: CP-2023  
 Well owner: Coterra Energy Co. (Agent James Hawley H&R) Phone No.: \_\_\_\_\_  
 Mailing address: P.O. Box 3641  
 City: Hobbs State: NM Zip code: 88241

## II. WELL PLUGGING INFORMATION:

- 1) Name of well drilling company that plugged well: H&R Enterprises, LLC.
- 2) New Mexico Well Driller License No.: WD-1862 Expiration Date: 6-16-25
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s):  
Nathan Smelcer
- 4) Date well plugging began: 11-15-24 Date well plugging concluded: 11-15-24
- 5) GPS Well Location: Latitude: 32 deg, 42 min, 09.6 sec  
Longitude: 104 deg, 06 min, 12.2 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 105' ft below ground level (bgl),  
by the following manner: well sounder
- 7) Static water level measured at initiation of plugging: N/A ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 10-18-24
- 9) Were all plugging activities consistent with an approved plugging plan? yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach 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 Cuttings	Approx. 139 gallons	139 gallons	Pour	

MULTIPLY		BY		AND OBTAIN
cubic feet	x	7.4805	=	gallons
cubic yards	x	201.97	=	gallons

III. SIGNATURE:

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

  
 \_\_\_\_\_  
 Signature of Well Driller

11-18-24  
 \_\_\_\_\_  
 Date





**WELL RECORD & LOG**  
**OFFICE OF THE STATE ENGINEER**  
 www.ose.state.nm.us

*PALMILLO*  
*11/18/24*

<b>1. GENERAL AND WELL LOCATION</b>	OSE POD NO. (WELL NO.) Pod 1		WELL TAG ID NO.		OSE FILE NO(S) CP-2023			
	WELL OWNER NAME(S) Coterra Energy Co. (Agent James Hawley H&R Enterprises, LLC)					PHONE (OPTIONAL)		
	WELL OWNER MAILING ADDRESS P.O. Box 3641					CITY Hobbs	STATE NM	ZIP 88241
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 42	SECONDS 09.6	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND		
	LONGITUDE 104	06	12.2	W	* DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE								

<b>2. DRILLING &amp; CASING INFORMATION</b>	LICENSE NO. WD-1862		NAME OF LICENSED DRILLER James Hawley			NAME OF WELL DRILLING COMPANY H&R Enterprises, LLC			
	DRILLING STARTED 11-11-24	DRILLING ENDED 11-11-24	DEPTH OF COMPLETED WELL (FT) 105'		BORE HOLE DEPTH (FT) 105'	DEPTH WATER FIRST ENCOUNTERED (FT) N/A			
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN *add Centralizer info below <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A	DATE STATIC MEASURED 11-15-24		
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:								
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY:						CHECK HERE IF PITLESS ADAPTER IS INSTALLED <input type="checkbox"/>		
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)		CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO	6'	No casing left in hole					
	0'	105'							

<b>3. ANNULAR MATERIAL</b>	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL <i>*(if using Centralizers for Artesian wells- indicate the spacing below)</i>		AMOUNT (cubic feet)	METHOD OF PLACEMENT
	FROM	TO		N/A			

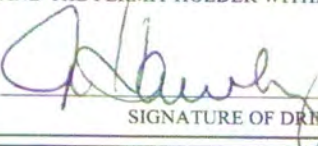
FOR OSE INTERNAL USE				WR-20 WELL RECORD & LOG (Version 09/22/2022)			
FILE NO		POD NO.		TRN NO.			
LOCATION				WELL TAG ID NO.		PAGE 1 OF 2	

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES <i>(attach supplemental sheets to fully describe all units)</i>	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
	0'	5'	5'	Sandy Topsoil	Y ✓ N	
	5'	26'	21'	Sandy Caliche	Y ✓ N	
	26'	105'	79'	Sand & Gravel	Y ✓ N	
					Y N	
					Y N	
					Y N	
					Y N	
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					Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input checked="" type="checkbox"/> OTHER - SPECIFY: Dry Hole					TOTAL ESTIMATED WELL YIELD (gpm): 0.00	

5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.
	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.
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:	Nathan Smelcer

6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:	
	 _____ SIGNATURE OF DRILLER / PRINT SIGNEE NAME	James Hawley _____ DATE
		11-18-24

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 09/22/2022)	
FILE NO.	POD NO.	TRN NO.	
LOCATION	WELL TAG ID NO.	PAGE 2 OF 2	

Map Unit Description: Tonuco loamy fine sand, 0 to 3 percent slopes---Eddy Area, New Mexico

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## Eddy Area, New Mexico

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

#### Map Unit Setting

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

#### Map Unit Composition

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

#### Description of Tonuco

##### Setting

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

##### Typical profile

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

##### Properties and qualities

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

##### Interpretive groups

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 7e  
*Hydrologic Soil Group:* D  
*Ecological site:* R070BD004NM - Sandy  
*Hydric soil rating:* No

Map Unit Description: Tonuco loamy fine sand, 0 to 3 percent slopes---Eddy Area, New Mexico

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### 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

# National Flood Hazard Layer FIRMette



104°6'31"W 32°42'25"N



## Legend

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

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D

OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
GENERAL STRUCTURES		Area of Undetermined Flood Hazard Zone D
		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall

OTHER FEATURES		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
OTHER FEATURES		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature

MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped

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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **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**

# OCD Permitting

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

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

### Submission Information

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

### Forms

Attachments: [Volume Calculation](#)

### Questions

#### Prerequisites

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

#### Location of Release Source

Please answer all the questions in this group.

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

#### Incident Details

Please answer all the questions in this group.

Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	Yes
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	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: Lightning   Tank (Any)   Produced Water   Released: 47 BBL   Recovered: 10 BBL   Lost: 37 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there <b>additional details</b> for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	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 tr water from inside the berm. The remainder of the fluid is believed to have vaporized in the fire.

**Nature and Volume of Release (continued)**

Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	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 pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the 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 shc 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\_PerminEnvironmental@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 bgs)	Not answered.
What method was used to determine the depth to ground water	Not answered.



Searches

Operator Data

Hearing Fee Application

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

**Remediation Plan**

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

Requesting a remediation plan approval with this submission **No**

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

**Acknowledgments**

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

**Comments**

No comments found for this submission.

**Conditions**

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

**Reasons**

No reasons found for this submission.

Go Back

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

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**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](mailto:nelson.velez@emnrd.nm.gov)  
<http://www.emnrd.nm.gov/oecd>



---

**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](mailto:laci.luig@coterra.com) | [www.coterra.com](http://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.

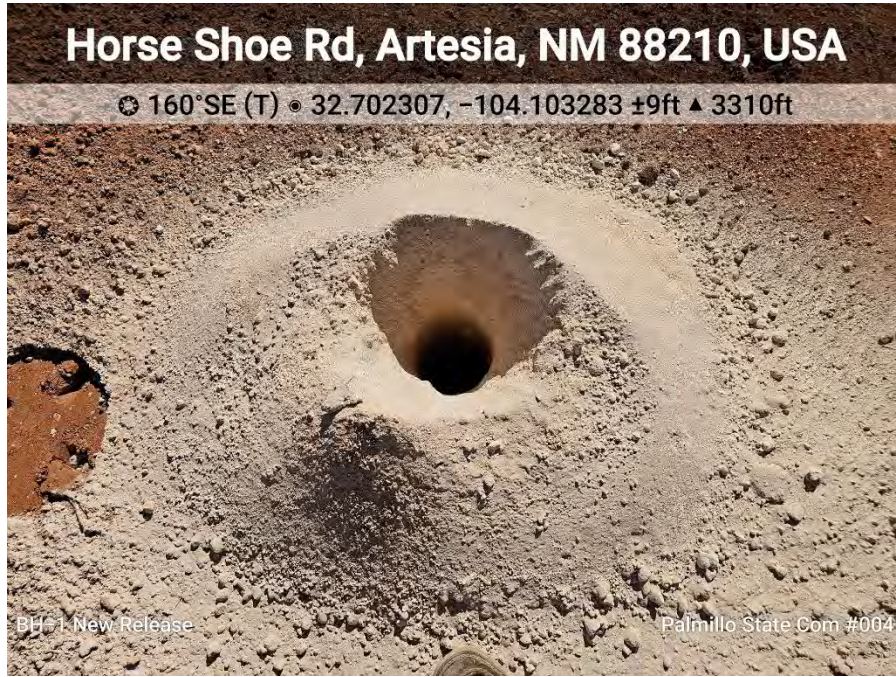
This message may contain confidential and/or privileged information. If you are not the addressee or authorized to receive this for the addressee, you must not use, copy, disclose or take any action based on this message or any information herein. If you have received this message in error, please advise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

# APPENDIX IV

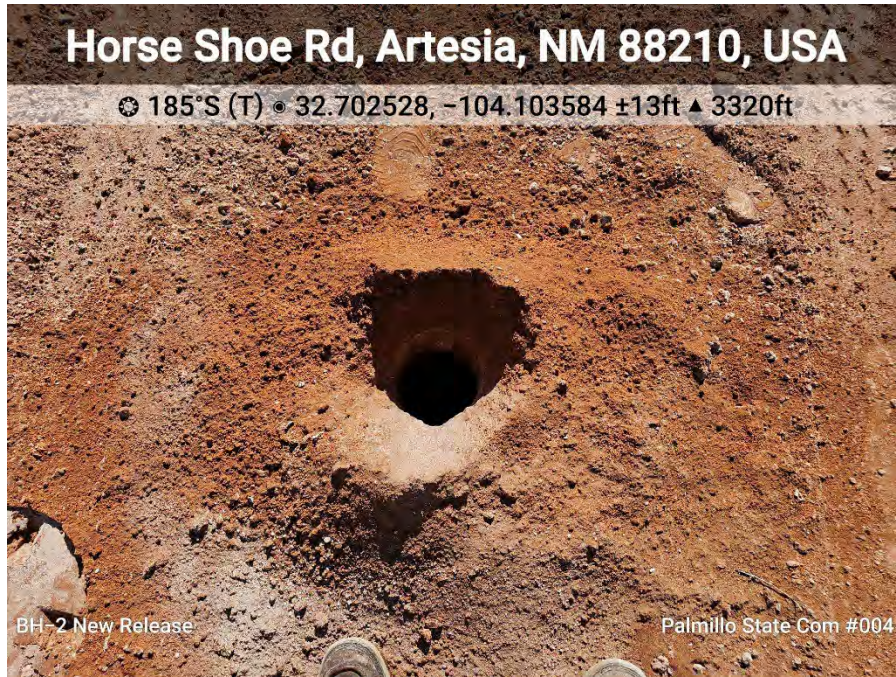
# PHOTOGRAPHIC DOCUMENTATION

PHOTOGRAPHIC DOCUMENTATION

**BORE HOLE PHOTOGRAPHS**

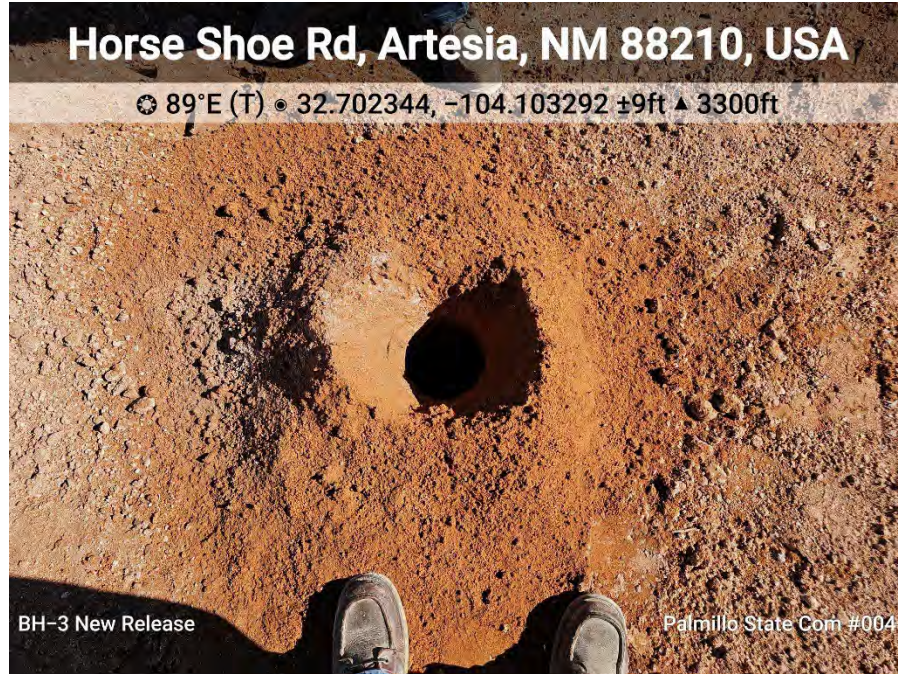


**BH-1**



**BH-2**

PHOTOGRAPHIC DOCUMENTATION



**BH-3**

# APPENDIX V

# LABORATORY REPORT





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

---

November 15, 2024

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

RE: PALMILLO STATE COM #004

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

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene  
Lab Director/Quality Manager



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

**Analytical Results For:**

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

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

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

BTEX 8021B		mg/kg		Analyzed 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) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed 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 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 11/12/2024  
 Reported: 11/15/2024  
 Project Name: PALMILLO STATE COM #004  
 Project Number: ( PAL NEW )  
 Project Location: COTERRA - EDDY

Sampling Date: 11/11/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

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

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed 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 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 11/12/2024  
 Reported: 11/15/2024  
 Project Name: PALMILLO STATE COM #004  
 Project Number: ( PAL NEW )  
 Project Location: COTERRA - EDDY

Sampling Date: 11/11/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

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

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed 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 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 11/12/2024  
 Reported: 11/15/2024  
 Project Name: PALMILLO STATE COM #004  
 Project Number: ( PAL NEW )  
 Project Location: COTERRA - EDDY

Sampling Date: 11/11/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

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

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 % 71.5-134

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		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 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	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 6' (H246882-05)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>4560</b>	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 118 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 11/12/2024  
 Reported: 11/15/2024  
 Project Name: PALMILLO STATE COM #004  
 Project Number: ( PAL NEW )  
 Project Location: COTERRA - EDDY

Sampling Date: 11/11/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

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

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 % 71.5-134

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 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 11/12/2024  
 Reported: 11/15/2024  
 Project Name: PALMILLO STATE COM #004  
 Project Number: ( PAL NEW )  
 Project Location: COTERRA - EDDY

Sampling Date: 11/11/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

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

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed 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 % 48.2-134

Surrogate: 1-Chlorooctadecane 125 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 11/12/2024  
 Reported: 11/15/2024  
 Project Name: PALMILLO STATE COM #004  
 Project Number: ( PAL NEW )  
 Project Location: COTERRA - EDDY

Sampling Date: 11/11/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

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

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed 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 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 11/12/2024  
 Reported: 11/15/2024  
 Project Name: PALMILLO STATE COM #004  
 Project Number: ( PAL NEW )  
 Project Location: COTERRA - EDDY

Sampling Date: 11/11/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

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

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed 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 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 11/12/2024  
 Reported: 11/15/2024  
 Project Name: PALMILLO STATE COM #004  
 Project Number: ( PAL NEW )  
 Project Location: COTERRA - EDDY

Sampling Date: 11/11/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

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

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>48.0</b>	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 % 48.2-134

Surrogate: 1-Chlorooctadecane 125 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 11/12/2024  
 Reported: 11/15/2024  
 Project Name: PALMILLO STATE COM #004  
 Project Number: ( PAL NEW )  
 Project Location: COTERRA - EDDY

Sampling Date: 11/11/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

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

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 % 71.5-134

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		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 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 11/12/2024  
 Reported: 11/15/2024  
 Project Name: PALMILLO STATE COM #004  
 Project Number: ( PAL NEW )  
 Project Location: COTERRA - EDDY

Sampling Date: 11/11/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

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

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed 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		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	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 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 11/12/2024  
 Reported: 11/15/2024  
 Project Name: PALMILLO STATE COM #004  
 Project Number: ( PAL NEW )  
 Project Location: COTERRA - EDDY

Sampling Date: 11/11/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

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

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		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	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 % 48.2-134

Surrogate: 1-Chlorooctadecane 127 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 11/12/2024  
 Reported: 11/15/2024  
 Project Name: PALMILLO STATE COM #004  
 Project Number: ( PAL NEW )  
 Project Location: COTERRA - EDDY

Sampling Date: 11/11/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

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

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed 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		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 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 11/12/2024  
 Reported: 11/15/2024  
 Project Name: PALMILLO STATE COM #004  
 Project Number: ( PAL NEW )  
 Project Location: COTERRA - EDDY

Sampling Date: 11/11/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

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

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/13/2024	ND	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	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 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**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: H - 2 0-1' (H246882-16)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/13/2024	ND	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	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 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	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: H - 3 0-1' (H246882-17)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	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	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 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Notes and Definitions**

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

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**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

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

**BILL TO**

**ANALYSIS REQUEST**

Company Name: H&R Enterprises		P.O. #:	
Project Manager: Michael Collier		Company: Colterra	
Address:		Attn: Laci Lutig	
City:	State: NM Zip:	Address:	
Phone #:	Fax #:	City:	
Project #:	Project Owner: Colterra	State: Zip:	
Project Name: Palmillo State Com #004		Phone #:	
Project Location: Eddy County, NM		Fax #:	
Sampler Name: N. Smelcer		FOR LAB USE ONLY	
Lab I.D.		MATRIX	
		PRESERV.	
		SAMPLING	

Lab I.D.	BH-1 0-01'	(G)RAB OR (C)OMP	# CONTAINERS	MATRIX										DATE	TIME	BTEX	TPH	Chlorides
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :						
A244882	1		1															
	2																	
	3																	
	4																	
	5																	
	6																	
	7																	
	8																	
	9																	
	10																	

PLEASE NOTE: Liability and coverage. Cardinal's liability and coverage extends to any claim arising under this contract for damages to the extent of the amount of the contract. The amount of the contract is the amount of the fee for the analysis and sampling. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In 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. The undersigned certifies that the information provided is true and correct to the best of their knowledge and belief. The undersigned certifies that the information provided is true and correct to the best of their knowledge and belief. The undersigned certifies that the information provided is true and correct to the best of their knowledge and belief.

Relinquished By: <i>Nathan Smelcer</i>	Date: <i>1/14/24</i>	Received By: <i>Sheed Kigney</i>	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By: <i>Nathan Smelcer</i>	Date: <i>1/14/24</i>	Received By: <i>Sheed Kigney</i>	All Results are emailed. Please provide Email address:	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C Corrected Temp. °C	Sample Condition Cool Intact <input type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/>	CHECKED BY: (Initials) <i>SR</i>	Thermometer ID: <i>#146</i>
	3.1i			Correction Factor: <i>0.0i</i>
FORM-006 R 3.2 10/07/21				

† Cardinal cannot accept verbal changes. Please email changes to [celey.keene@cardinallabsnm.com](mailto:celey.keene@cardinallabsnm.com)

REMARKS: pg 2 of 2  
*Continued on next page*



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

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

**BILL TO ANALYSIS REQUEST**

Company Name: H&R Enterprises  
 Project Manager: Michael Collier  
 P.O. #:  
 Address:  
 City: State: NM Zip:  
 Company: Coterra  
 Attn: Laci Luig  
 Address:  
 City: State: Zip:  
 Project #: Fax #:  
 Project Owner: Coterra  
 Project Name: Palmillo State Com #004  
 Project Location: Eddy County, NM  
 City: State: Zip:  
 Sampler Name: N. Smeleer  
 Phone #:  
 Fax #:  
 Lab I.D.:

Lab I.D.	Date	Time	(G)RAB OR (C)OMP	# CONTAINERS	MATRIX								DATE	TIME	BTEX	TPH	Chlorides	
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER: ACID/BASE:	ICE / COOL	OTHER:						PRESERV.
H246882	11	BH-3-0-1'		1														
	12	BH-3-2'																
	13	BH-3-3'																
	14	BH-3-4'																
	15	H-1-0-1'																
	16	H-X-3-0-1'																
	17	H-X-3-0-1'	*															

REMARKS: pg 2 of 2  
 \* Cust. approved ID corrections See Email  
 4-11/12/24

Relinquished By: *Anton Smolen* Date: *11/15/24* Time: *12:00*  
 Received By: *Speckliques*

Delivered By: (Circle One)  
 Sampler - UFS - Bus - Other: *3.1c*

Observed Temp. °C: *3.7*  
 Corrected Temp. °C: *3.1c*

Sample Condition: Cool Intact  No   
 Checked By: *SR*

Thermometer ID # *140*  
 Correction Factor *0.0*

Vertical Result:  Yes  No Add'l Phone #:  
 All Results are emailed. Please provide Email address.

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

# APPENDIX VI

## 2020 CLOSURE REPORT (nRM2009253961)



[MCollier@H-R\\_Enterprises.com](mailto:MCollier@H-R_Enterprises.com) 575-909-0326

## Soil Assessment and Closure Report

Palmillo State Com #004  
Incident# nRM2009253961  
Eddy County, New Mexico

### Prepared For:

Cimarex Energy Co. of Colorado  
6001 Deauville Blvd. Suite 300N  
Midland, TX 79706

### Prepared By:

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

**November 25, 2024**

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

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

Dear Mr. Bratcher,

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

### **Site Information**

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

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



### 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.

<b>Approximate Depth to Groundwater</b>	<b>180 Feet/BGS</b>
---	---------------------

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

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

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

### Incident Description

On March 26, 2020, approximately 41 barrels (bbls) of produced water had been released into the unlined containment. Only 5 bbls of water was recovered. A hydrovac truck excavated the contaminated soil from the containment as well.

### 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](#). Photographic documentation is attached in [Appendix IV](#). A complete laboratory report can be found in [Appendix V](#).

Table 1: Initial Soil Samples Analysis

Sample ID	Sample Date	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
NMOCD Table 1 Closure Criteria 19.15.29 NMAC			50 mg/kg	10 mg/kg	1000 mg/kg		2500 mg/kg	2500 mg/kg	mg/kg
BH-1	11/11/2024	0-1'	ND	ND	ND	ND	ND	0	16
		2'	ND	ND	ND	ND	ND	0	16
		3'	ND	ND	ND	ND	ND	0	64
		4'	ND	ND	ND	ND	ND	0	64
BH-2	11/11/2024	0-1'	ND	ND	ND	ND	ND	0	48
		2'	ND	ND	ND	ND	ND	0	64
		3'	ND	ND	ND	ND	ND	0	64
		4'	ND	ND	ND	ND	ND	0	64
BH-3	11/11/2024	0-1'	ND	ND	ND	ND	ND	0	48
		2'	ND	ND	ND	ND	ND	0	16
		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.

## Closure

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

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

Respectfully submitted,

H&R Enterprises, LLC

Michael Collier  
Environmental Project Manager

### Attachments:

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

# APPENDIX I

## SITE MAPS

### KARST POTENTIAL MAP

### TOPOGRAPHIC MAP

### LOCATOR MAP

# Palmillo State Com #004

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

## Legend

- Horizontal Sample Point
- Vertical Bore Hole Sample Point



Google Earth





Image © 2024 Airbus

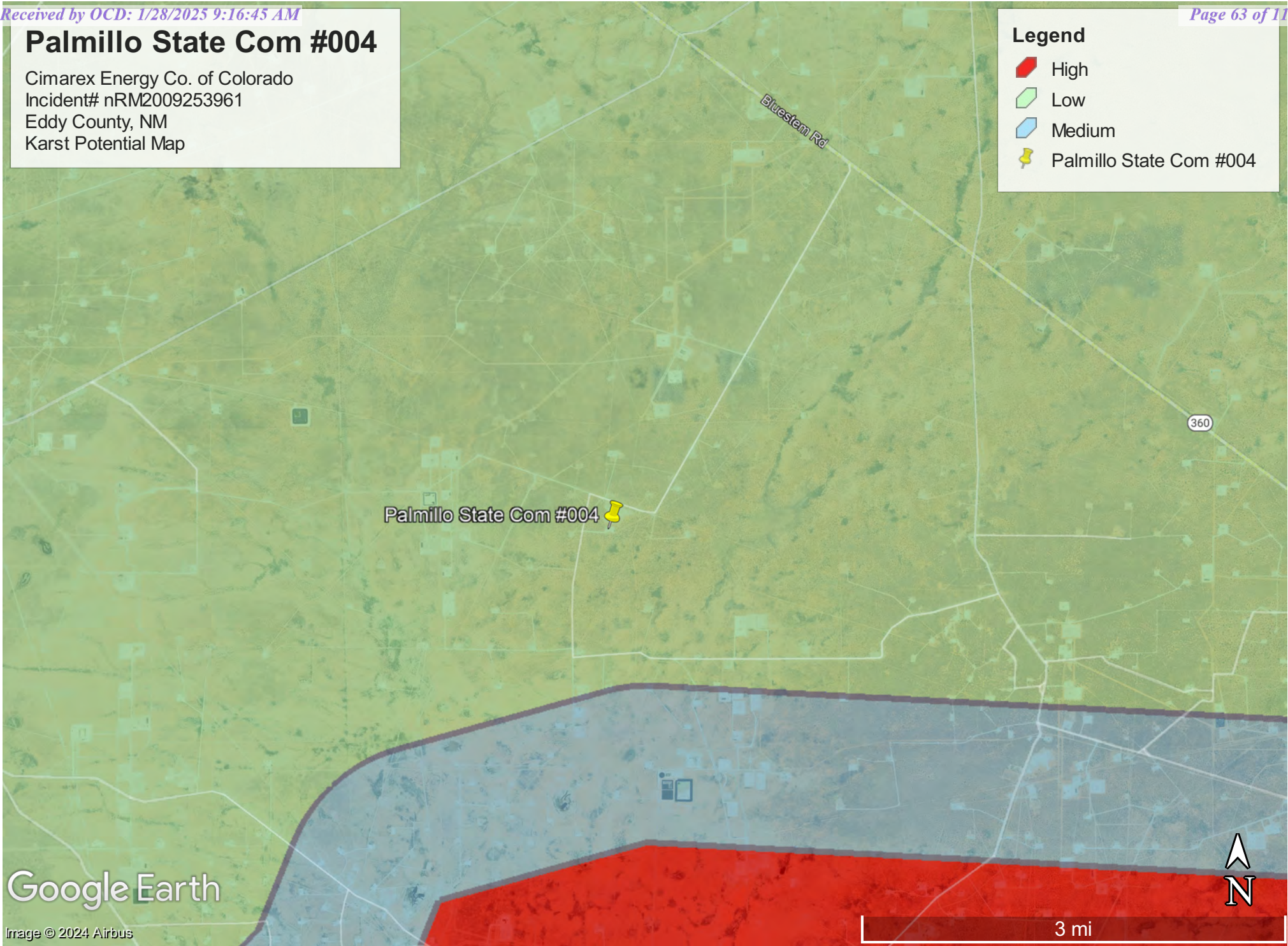
100 ft

# Palmillo State Com #004

Cimarex Energy Co. of Colorado  
Incident# nRM2009253961  
Eddy County, NM  
Karst Potential Map

**Legend**

-  High
-  Low
-  Medium
-  Palmillo State Com #004



Google Earth

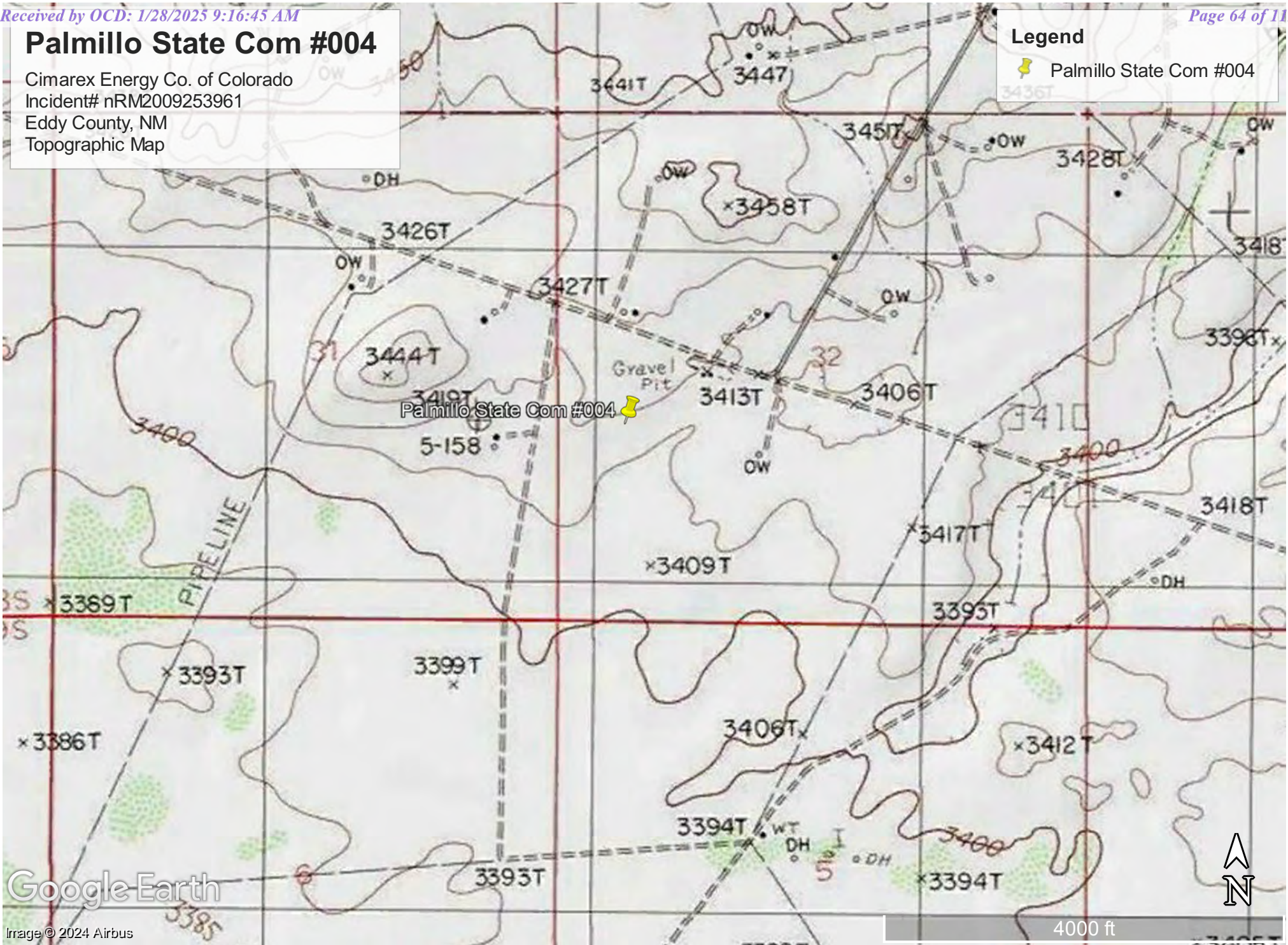
Image © 2024 Airbus

# Palmillo State Com #004

Cimarex Energy Co. of Colorado  
Incident# nRM2009253961  
Eddy County, NM  
Topographic Map

### Legend

 Palmillo State Com #004




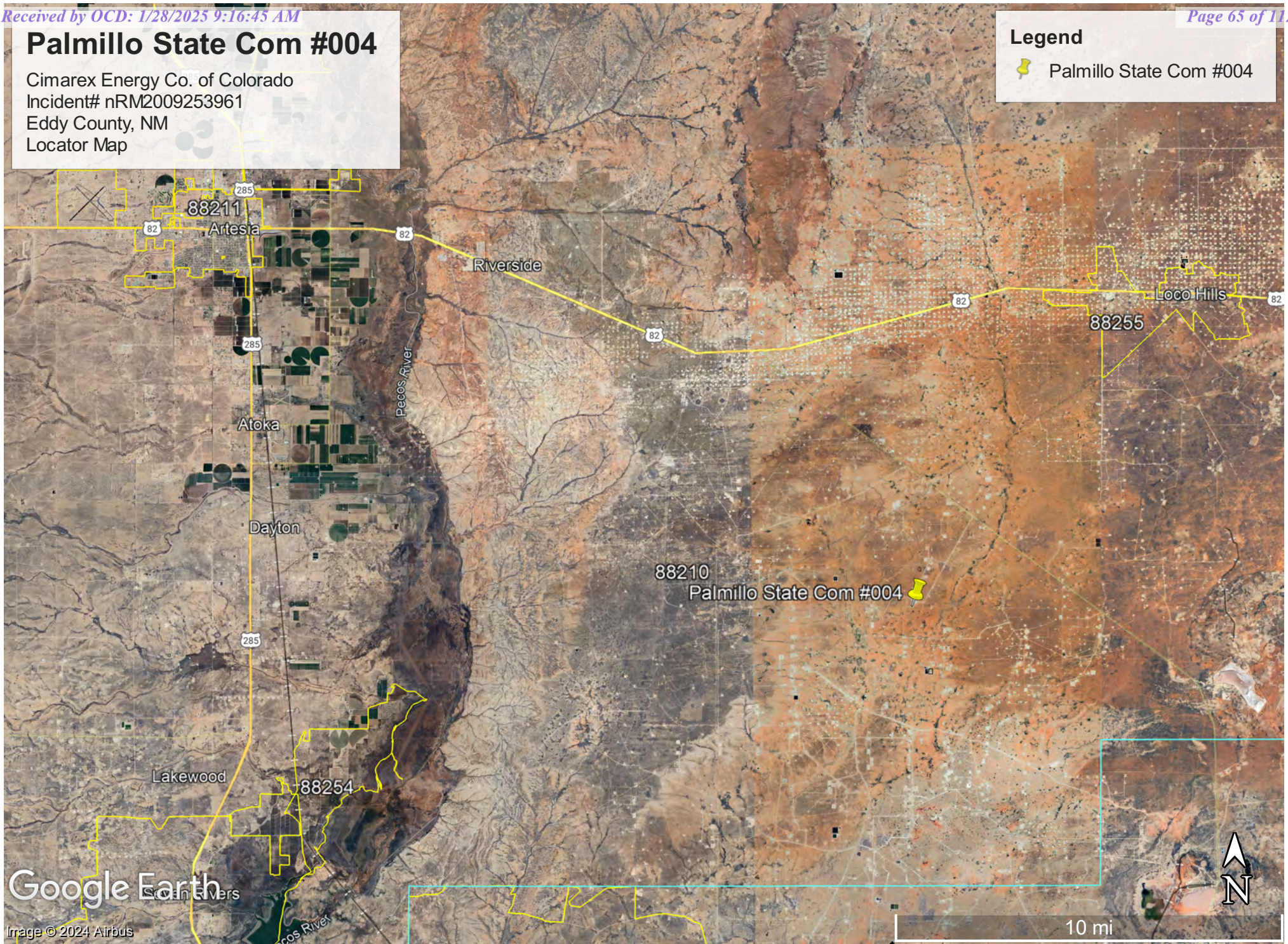


# Palmillo State Com #004

Cimarex Energy Co. of Colorado  
Incident# nRM2009253961  
Eddy County, NM  
Locator Map

**Legend**

-  Palmillo State Com #004



Google Earth  
Image © 2024 Airbus



A north arrow is located in the bottom right corner of the map area. Below it is a scale bar labeled '10 mi'.

# APPENDIX II

**GROUNDWATER DATA**

**SOIL SURVEY**

**FEMA FLOOD ZONE**

**NMOSE WELL LOG &  
PLUGGING RECORD**

# Water Column/Average Depth to Water

(AOLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are smallest to largest)

(NAD83 UTM in meters)

POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	X
<a href="#">CP_01618_POD1</a>		CP	ED	SW	SE	NE	29	18S	29E	585119.6 3620
<a href="#">CP_01858_POD1</a>		CP	ED	SE	NW	SE	01	19S	28E	581872.2 3617

**Record Count:** 2

**Basin/County Search:**

**County:** ED

**UTM Filters (in meters):**

**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 is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

---

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

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# PLUGGING RECORD



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

## I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: CP-2023  
 Well owner: Coterra Energy Co. (Agent James Hawley H&R) Phone No.: \_\_\_\_\_  
 Mailing address: P.O. Box 3641  
 City: Hobbs State: NM Zip code: 88241

## II. WELL PLUGGING INFORMATION:

- 1) Name of well drilling company that plugged well: H&R Enterprises, LLC.
- 2) New Mexico Well Driller License No.: WD-1862 Expiration Date: 6-16-25
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s):  
Nathan Smelcer
- 4) Date well plugging began: 11-15-24 Date well plugging concluded: 11-15-24
- 5) GPS Well Location: Latitude: 32 deg. 42 min. 09.6 sec  
Longitude: 104 deg. 06 min. 12.2 sec. WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 105' ft below ground level (bgl),  
by the following manner: well sounder
- 7) Static water level measured at initiation of plugging: N/A ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 10-18-24
- 9) Were all plugging activities consistent with an approved plugging plan? yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach 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.

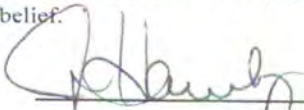
For each interval plugged, describe within the following columns:

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 Cuttings	Approx. 139 gallons	139 gallons	Pour	

MULTIPLY		BY		AND OBTAIN
cubic feet	x	7.4805	=	gallons
cubic yards	x	201.97	=	gallons

III. SIGNATURE:

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



Signature of Well Driller

11-18-24

Date



**WELL RECORD & LOG**  
**OFFICE OF THE STATE ENGINEER**  
 www.ose.state.nm.us

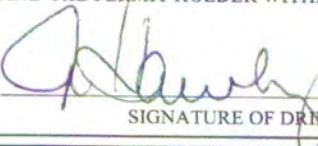
*PALMILLO*  
*11/18/24*

<b>1. GENERAL AND WELL LOCATION</b>	OSE POD NO. (WELL NO.) Pod 1		WELL TAG ID NO.		OSE FILE NO(S) CP-2023			
	WELL OWNER NAME(S) Coterra Energy Co. (Agent James Hawley H&R Enterprises, LLC)					PHONE (OPTIONAL)		
	WELL OWNER MAILING ADDRESS P.O. Box 3641					CITY Hobbs	STATE NM	ZIP 88241
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 42	SECONDS 09.6	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND		
	LONGITUDE 104	06	12.2	W	* DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE								

<b>2. DRILLING &amp; CASING INFORMATION</b>	LICENSE NO. WD-1862		NAME OF LICENSED DRILLER James Hawley			NAME OF WELL DRILLING COMPANY H&R Enterprises, LLC		
	DRILLING STARTED 11-11-24	DRILLING ENDED 11-11-24	DEPTH OF COMPLETED WELL (FT) 105'	BORE HOLE DEPTH (FT) 105'	DEPTH WATER FIRST ENCOUNTERED (FT) N/A			
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN *add Centralizer info below <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A	DATE STATIC MEASURED 11-15-24	
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY:						CHECK HERE IF PITLESS ADAPTER IS INSTALLED <input type="checkbox"/>	
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO	6'	No casing left in hole				
	0'	105'						

<b>3. ANNULAR MATERIAL</b>	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL <i>*(if using Centralizers for Artesian wells- indicate the spacing below)</i>		AMOUNT (cubic feet)	METHOD OF PLACEMENT
	FROM	TO		N/A			

FOR OSE INTERNAL USE				WR-20 WELL RECORD & LOG (Version 09/22/2022)			
FILE NO		POD NO.		TRN NO.			
LOCATION				WELL TAG ID NO.		PAGE 1 OF 2	

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)		ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
	FROM	TO			Y	N	
	0'	5'	5'	Sandy Topsoil	Y	✓ N	
	5'	26'	21'	Sandy Caliche	Y	✓ N	
	26'	105'	79'	Sand & Gravel	Y	✓ N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input checked="" type="checkbox"/> OTHER - SPECIFY: Dry Hole					TOTAL ESTIMATED WELL YIELD (gpm): 0.00		
5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.					
	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.						
PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Nathan Smelcer							
6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:						
	 SIGNATURE OF DRILLER / PRINT SIGNEE NAME				James Hawley		11-18-24 DATE

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 09/22/2022)	
FILE NO.	POD NO.	TRN NO.	
LOCATION	WELL TAG ID NO.	PAGE 2 OF 2	



Map Unit Description: Tonuco loamy fine sand, 0 to 3 percent slopes---Eddy Area, New Mexico

---

## Eddy Area, New Mexico

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

#### Map Unit Setting

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

#### Map Unit Composition

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

#### Description of Tonuco

##### Setting

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

##### Typical profile

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

##### Properties and qualities

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

##### Interpretive groups

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 7e  
*Hydrologic Soil Group:* D  
*Ecological site:* R070BD004NM - Sandy  
*Hydric soil rating:* No

Map Unit Description: Tonuco loamy fine sand, 0 to 3 percent slopes---Eddy Area, New Mexico

---

### Minor Components

#### **Tonuco**

*Percent of map unit:* 1 percent

*Ecological site:* R070BD004NM - Sandy

*Hydric soil rating:* No

#### **Dune land**

*Percent of map unit:* 1 percent

*Hydric soil rating:* No

## Data Source Information

Soil Survey Area: Eddy Area, New Mexico

Survey Area Data: Version 20, Sep 3, 2024

# National Flood Hazard Layer FIRMette



104°6'31"W 32°42'25"N



## Legend

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

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) <i>Zone A, V, A99</i>
		With BFE or Depth <i>Zone AE, AO, AH, VE, AR</i>
		Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile <i>Zone X</i>
		Future Conditions 1% Annual Chance Flood Hazard <i>Zone X</i>
		Area with Reduced Flood Risk due to Levee. See Notes. <i>Zone X</i>
		Area with Flood Risk due to Levee <i>Zone D</i>

OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard <i>Zone X</i>
		Effective LOMRs
		Area of Undetermined Flood Hazard <i>Zone D</i>

GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall

OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
OTHER FEATURES		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature

MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped

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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **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.

Released to Imaging: 5/15/2025 8:04:59 AM

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

1:6,000

104°5'54"W 32°41'54"N

Basemap Imagery Source: USGS National Map 2023

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

### Location of Release Source

Latitude 32.70265 \_\_\_\_\_ Longitude -104.10348 \_\_\_\_\_  
(NAD 83 in decimal degrees to 5 decimal places)

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

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

Surface Owner:  State  Federal  Tribal  Private (Name: \_\_\_\_\_)

### Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 41 bbls	Volume Recovered (bbls) 5 bbls
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

#### Cause of Release

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

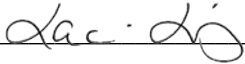
State of New Mexico  
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?  <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? The amount of the release is over 25 barrels.
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, Robert Hamlet, Victoria Venegas and Jim Griswold	

### Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain why:   
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.
Printed Name: Laci Luig _____ Title: Engineer Tech _____ Signature:  _____ Date: 4/1/2020 _____ email: lluigcimarex.com _____ Telephone: (432) 571-7810 _____
<b><u>OCD Only</u></b>  Received by: _____ Date: _____

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

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**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](mailto:nelson.velez@emnrd.nm.gov)  
<http://www.emnrd.nm.gov/oecd>



---

**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](mailto:laci.luig@coterra.com) | [www.coterra.com](http://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.

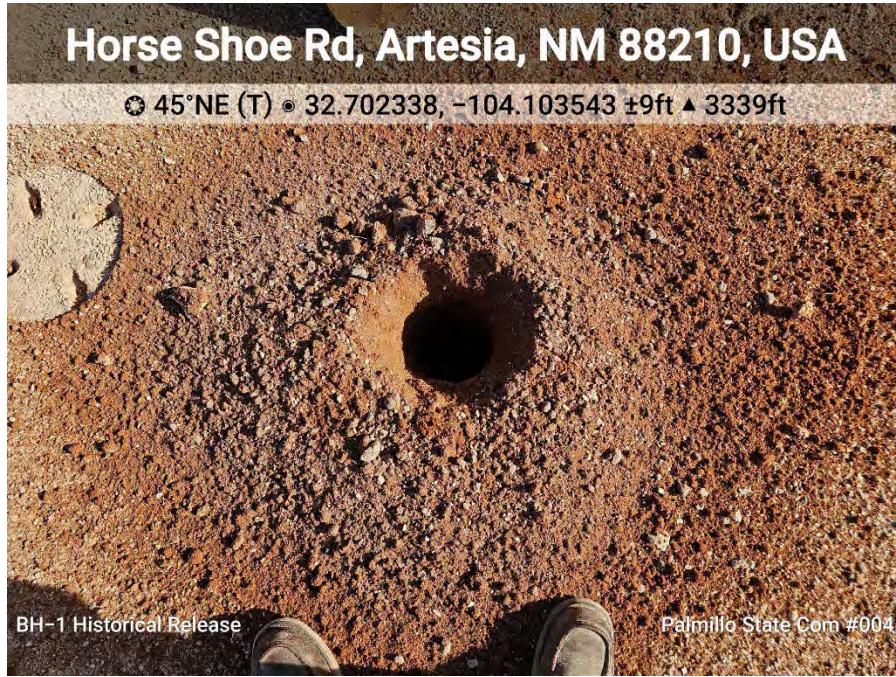
This message may contain confidential and/or privileged information. If you are not the addressee or authorized to receive this for the addressee, you must not use, copy, disclose or take any action based on this message or any information herein. If you have received this message in error, please advise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

# APPENDIX IV

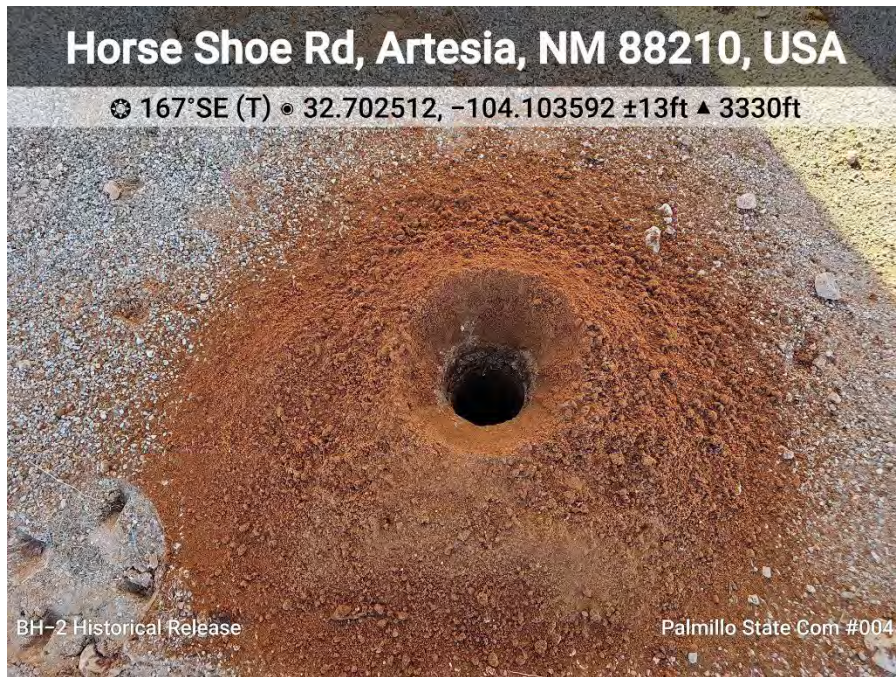
# PHOTOGRAPHIC DOCUMENTATION

PHOTOGRAPHIC DOCUMENTATION

**BORE HOLE PHOTOGRAPHS**

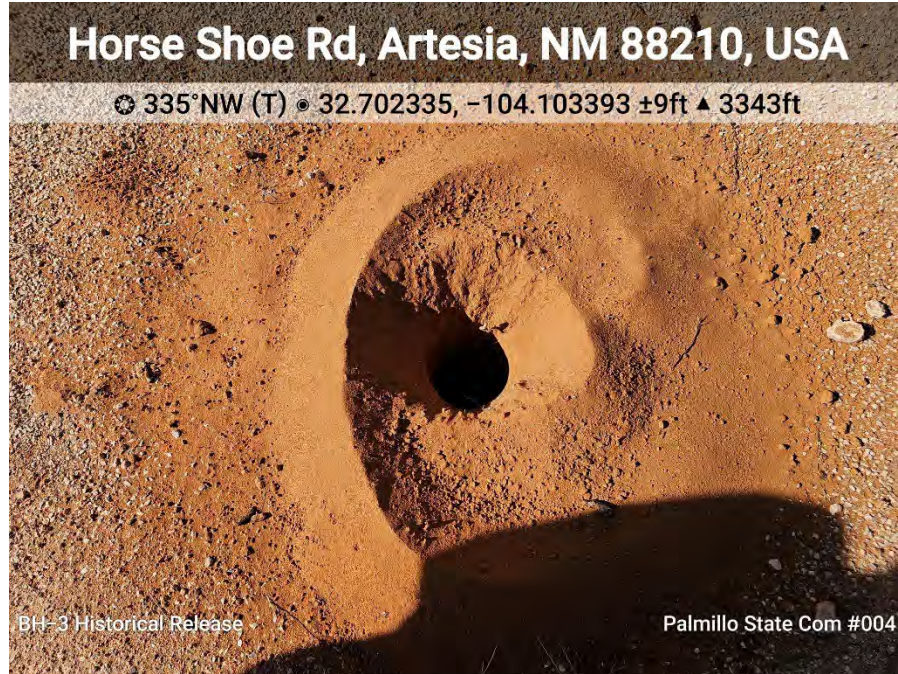


**BH-1**



**BH-2**

PHOTOGRAPHIC DOCUMENTATION



**BH-3**

# APPENDIX V

# LABORATORY REPORT



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

---

November 15, 2024

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

RE: PALMILLO STATE COM #004

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

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene  
Lab Director/Quality Manager



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

**Analytical Results For:**

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

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

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

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	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 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/13/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/12/2024	ND	201	101	200	4.45	
DRO >C10-C28*	<10.0	10.0	11/12/2024	ND	184	91.9	200	0.0245	
EXT DRO >C28-C36	<10.0	10.0	11/12/2024	ND					

Surrogate: 1-Chlorooctane 95.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 11/12/2024  
 Reported: 11/15/2024  
 Project Name: PALMILLO STATE COM #004  
 Project Number: ( PAL OLD )  
 Project Location: COTERRA - EDDY

Sampling Date: 11/11/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

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

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/13/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/12/2024	ND	201	101	200	4.45	
DRO >C10-C28*	<10.0	10.0	11/12/2024	ND	184	91.9	200	0.0245	
EXT DRO >C28-C36	<10.0	10.0	11/12/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 11/12/2024  
 Reported: 11/15/2024  
 Project Name: PALMILLO STATE COM #004  
 Project Number: ( PAL OLD )  
 Project Location: COTERRA - EDDY

Sampling Date: 11/11/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

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

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/13/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/12/2024	ND	201	101	200	4.45	
DRO >C10-C28*	<10.0	10.0	11/12/2024	ND	184	91.9	200	0.0245	
EXT DRO >C28-C36	<10.0	10.0	11/12/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 11/12/2024  
 Reported: 11/15/2024  
 Project Name: PALMILLO STATE COM #004  
 Project Number: ( PAL OLD )  
 Project Location: COTERRA - EDDY

Sampling Date: 11/11/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

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

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 % 71.5-134

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 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 11/12/2024  
 Reported: 11/15/2024  
 Project Name: PALMILLO STATE COM #004  
 Project Number: ( PAL OLD )  
 Project Location: COTERRA - EDDY

Sampling Date: 11/11/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

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

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>48.0</b>	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 99.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 11/12/2024  
 Reported: 11/15/2024  
 Project Name: PALMILLO STATE COM #004  
 Project Number: ( PAL OLD )  
 Project Location: COTERRA - EDDY

Sampling Date: 11/11/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

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

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 % 71.5-134

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 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 11/12/2024  
 Reported: 11/15/2024  
 Project Name: PALMILLO STATE COM #004  
 Project Number: ( PAL OLD )  
 Project Location: COTERRA - EDDY

Sampling Date: 11/11/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

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

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 % 71.5-134

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 94.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 11/12/2024  
 Reported: 11/15/2024  
 Project Name: PALMILLO STATE COM #004  
 Project Number: ( PAL OLD )  
 Project Location: COTERRA - EDDY

Sampling Date: 11/11/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

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

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 % 71.5-134

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 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 11/12/2024  
 Reported: 11/15/2024  
 Project Name: PALMILLO STATE COM #004  
 Project Number: ( PAL OLD )  
 Project Location: COTERRA - EDDY

Sampling Date: 11/11/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

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

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 % 71.5-134

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	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 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 11/12/2024  
 Reported: 11/15/2024  
 Project Name: PALMILLO STATE COM #004  
 Project Number: ( PAL OLD )  
 Project Location: COTERRA - EDDY

Sampling Date: 11/11/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

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

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		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 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received:	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 - 3 3' (H246884-11)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed 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		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 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 11/12/2024  
 Reported: 11/15/2024  
 Project Name: PALMILLO STATE COM #004  
 Project Number: ( PAL OLD )  
 Project Location: COTERRA - EDDY

Sampling Date: 11/11/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

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

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		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 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	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 - 1 0-1' (H246884-13)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		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 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	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 - 2 0-1' (H246884-14)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		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 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	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		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	
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 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		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 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Project Manager: Michael Collier  
Address:  
City:  
State: NM Zip:  
P.O. #:  
Company: Colerra  
Attn: Laci Luig  
Address:  
City:  
State: Zip:

Phone #: Fax #:  
Project #: Project Owner: Colerra  
Project Name: Palmilla State Com #004  
Project Location: Eddy County, NM  
Sampler Name: N. Smeicer  
Phone #: Fax #:

Lab I.D. H246884  
FOR LAB USE ONLY

Borehole	Depth	(G) (C)	# CONTAINERS	MATRIX							DATE	TIME	BTEX	TPH	Chlorides
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER: ACID/BASE	ICE / COOL					

1	BH-1 0-01'		1								1/17/24				
2	BH-1 2'	G	1												
3	BH-1 3'														
4	BH-1 4'														
5	BH-2 01-1'														
6	BH-2 2'														
7	BH-2 3'														
8	BH-2 4'														
9	BH-3 01-1'														
10	BH-3 2'														

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Relinquished By: *John Smeicer*  
Date: 1/17/24  
Received By: *Speckignery*  
Date: 1/17/24  
Time: 12:00  
REMARKS: pg 2 of 2

Delivered By: (Circle One)  
Sampler - UPS - Bus - Other:  
Observed Temp, °C: 3.1  
Corrected Temp, °C: 3.1  
Sample Condition: Cool Intact  
Checked By: *SR*  
Thermometer ID: #140  
Correction Factor: -0.0°C

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Project Manager: Michael Collier  
 Address:  
 City:  
 State: NM Zip:  
 Phone #: Fax #:  
 Project #:  
 Project Name: Palmito State Com #004  
 Project Location: Eddy County, NM  
 Project Owner: Colterra  
 City: State: Zip:  
 Phone #: Fax #:  
 Sampler Name: N. Smelcer  
 Lab I.D.

P.O. #:  
 Company: Colterra  
 Attn: Lael Luing  
 Address:  
 City:  
 State: Zip:  
 Phone #: Fax #:  
 MATRIX: GROUNDWATER, WASTEWATER, SOIL, OIL, SLUDGE, OTHER:  
 ACID/BASE: ICE / COOL, OTHER:  
 PRESERV. SAMPLING

Lab I.D.	DATE	TIME	BTEX	TPH	Chlorides
H246884	1/11/24				
11 BH-3 3'					
12 BH-3 4'					
13 H-1 0-1'					
14 H-2 0-1'					
15 A-3 0-1'					

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Relinquished By: *Other Smelcer* Date: *1/11/24* Received By: *Stockingwey* Verbal Result:  Yes  No Add'l Phone #:  
 Relinquished By: Date: Received By: REMARKS: pg 2 of 2  
 Delivered By: (Circle One) Corrected Temp. - C: *3.7* Sample Condition:  Cool  Inlet  No  No CHECKED BY: (Initials) *SR*  
 Sampler - UPS - Bus - Other: Corrected Temp. - C: *3.1* Thermometer ID: *4773* Standard:  Bacteria (only) Sample Condition:  Yes  No  
 Correction Factor: *475C* *-0.0*  Yes  No Corrected Temp. - C:

FORM-006 R.3.2 11/07/21

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



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

Action 425616

**QUESTIONS**

Operator: Coterra Energy Operating Co. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 425616
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2422766341
Incident Name	NAPP2422766341 PALMILLO STATE 4 @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Facility	[fAPP2202675850] PALMILLO STATE 4

<b>Location of Release Source</b>	
<i>Please answer all the questions in this group.</i>	
Site Name	PALMILLO STATE 4
Date Release Discovered	08/14/2024
Surface Owner	State

<b>Incident Details</b>	
<i>Please answer all the questions in this group.</i>	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	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	No
Has this release substantially damaged or will it substantially damage property or the environment	Yes
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

<b>Nature and Volume of Release</b>	
<i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i>	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Lightning   Tank (Any)   Produced Water   Released: 47 BBL   Recovered: 10 BBL   Lost: 37 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	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)	We had a lightning strike that resulted in a fire and a spill at the Palmillo State 4. No injuries were associated with the incident. At 0128, the Coterra Control Room received a call about a possible fire at the Palmillo State 4 well, which was called in by a Melbourne employee. At 0257, the Coterra Lease Operator arrived on site and confirmed the fire had self-extinguished. After reviewing the water tank gauges, an estimated 42 barrels were in the tank. A vac truck was able to recover a total of 10 barrels water from inside the berm. The remainder of the fluid is believed to have vaporized in the fire.

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QUESTIONS, Page 2

Action 425616

**QUESTIONS (continued)**

Operator: Coterra Energy Operating Co. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 425616
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	<b>No, according to supplied volumes this does not appear to be a "gas only" report.</b>
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	<b>Yes</b>
Reasons why this would be considered a submission for a notification of a major release	<b>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.</b>
<i>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.</i>	

**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	<b>True</b>
The impacted area has been secured to protect human health and the environment	<b>True</b>
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	<b>True</b>
All free liquids and recoverable materials have been removed and managed appropriately	<b>True</b>
If all the actions described above have not been undertaken, explain why	<i>Not answered.</i>

*Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.*

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

I hereby agree and sign off to the above statement	Name: Ashton Thielke Title: EHS Specialist Email: Ashton.Thielke@coterra.com Date: 01/28/2025
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QUESTIONS, Page 3

Action 425616

**QUESTIONS (continued)**

Operator: Coterra Energy Operating Co. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 425616
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

**Site Characterization**

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

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	Direct Measurement
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
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
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

**Soil Contamination Sampling:** (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride (EPA 300.0 or SM4500 Cl B)	4560
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 will the remediation commence	08/14/2024
On what date will (or did) the final sampling or liner inspection occur	11/11/2024
On what date will (or was) the remediation complete(d)	11/11/2024
What is the estimated surface area (in square feet) that will be reclaimed	1200
What is the estimated volume (in cubic yards) that will be reclaimed	200
What is the estimated surface area (in square feet) that will be remediated	1200
What is the estimated volume (in cubic yards) that will be remediated	200

*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.*

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QUESTIONS, Page 4

Action 425616

**QUESTIONS (continued)**

Operator: Coterra Energy Operating Co. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 425616
	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 <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	LEA LAND LANDFILL [fEEM0112342028]
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and <b>on-site</b> 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	Remediation will take place during P/A or downsizing activities, whichever occurs first. Based off of site assessment and deep groundwater onsite, the entire affected area will be reclaimed to 4.5' and sidewalls will be expanded until composite samples meet or exceed NMAC 19.15.29.12 Table 1 standards. An estimated 1,200 square feet and 200 yards of material will be removed from under the tank onsite.

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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

I hereby agree and sign off to the above statement	Name: Ashton Thielke Title: EHS Specialist Email: Ashton.Thielke@coterra.com Date: 01/28/2025
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The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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Action 425616

**QUESTIONS (continued)**

Operator: Coterra Energy Operating Co. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 425616
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Deferral Requests Only</b>	
<i>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.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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Action 425616

**QUESTIONS (continued)**

Operator: Coterra Energy Operating Co. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 425616
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Sampling Event Information</b>	
Last sampling notification (C-141N) recorded	<b>425641</b>
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	<b>11/11/2024</b>
What was the (estimated) number of samples that were to be gathered	<b>6</b>
What was the sampling surface area in square feet	<b>1200</b>

**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)	Remediation will take place during P/A or downsizing activities, whichever occurs first. Based off of site assessment and deep groundwater onsite, the entire affected area will be reclaimed to 4.5' and sidewalls will be expanded until composite samples meet or exceed NMAC 19.15.29.12 Table 1 standards. An estimated 1,200 square feet and 200 yards of material will be removed from under the tank onsite.

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

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

I hereby agree and sign off to the above statement	Name: Ashton Thielke Title: EHS Specialist Email: Ashton.Thielke@coterra.com Date: 01/28/2025
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Action 425616

**QUESTIONS (continued)**

Operator: Coterra Energy Operating Co. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 425616
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

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

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CONDITIONS

Action 425616

**CONDITIONS**

Operator: Coterra Energy Operating Co. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 425616
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**CONDITIONS**

Created By	Condition	Condition Date
nvez	Remediation has met 19.15.29 NMAC requirements. Soil impacts exceeding the reclamation standards have been left in place and are required to meet 19.15.29.13D (1) NMAC once the site is no longer reasonably needed for production or subsequent drilling ops.	5/15/2025