

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

Remediation and Closure Report

Mesquite Vaca Draw Battery ROW Spill Incident# nAPP2212661694 Lea County, New Mexico

Prepared For:

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

Prepared By:

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

June 17, 2022

Mrs. Shelly Tucker **Bureau of Land Management** 602 E. Green St. Carlsbad, NM 88240

Mrs. Jennifer Nobui **New Mexico Oil Conservation Division** 1220 S. St. Francis Drive Santa Fe, NM 87505

Subject: **Remediation and Closure Report**

Mesquite Vaca Draw ROW Spill

Lea County, NM

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

Site Information

The Mesquite Vaca Draw ROW Spill is located approximately 31.5 miles West of Jal, New Mexico. The latitude and longitude for the release are 32.108733 North and -103.567512 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 Pyote and Maljamar fine sands, 0 to 3 percent slopes. The referenced soil data is attached in Appendix II. Drainage courses in this area are typically dry. The project site is located in a low 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 280-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 280 Feet/BGS ⊠No Yes Within 300 feet of any continuously flowing watercourse or any other significant watercourse No Yes Within 200 feet of any lakebed, sinkhole, or a playa lake ⊠No Yes Within 300 feet from an occupied permanent residence, school, hospital, institution, or church ⊠No Within 500 feet of a spring or a private, domestic fresh water well Yes used by less than five households for domestic or stock watering purposes ⊠No Yes Within 1000 feet of any freshwater well or spring Yes \bowtie No Within incorporated municipal boundaries or within a defined municipal freshwater well field covered under a municipal ordinance adopted pursuant to Section 3-2703 NMSA 1978 Yes No Within 300 feet of a wetland No Yes Within the area overlying a subsurface mine Yes No Within an unstable area Yes \boxtimes No Within a 100-year floodplain

Although depth to groundwater data is current, it is outside of the recommended distance 0.5 miles. On June 14, 2022 an exploratory water bore was completed to 55-feet BGS on Cascade 28 Federal #85H well pad. The latitude and longitude for this location are 32.108115 North and -103.572759 West. The latitude and longitude of the water bore are 32.1081149 North and 103.5727772 West which is within the recommended 0.5-miles distance of the spill area. Initial gauging indicated no presence of groundwater. Gauging was performed on June 17, 2022, 72-hours after bore was completed and no groundwater was detected.

Due to the absence of groundwater at less than or equal to 50-feet BGS, the closure criteria for this release are as follows:

	Та	ble I							
Closure Criteria for Soils Impacted by a Release									
Minimum depth below any point within the horizontal boundary of the release to ground water less than 10,000 mg/I TDS	Constituent	Method*	Limit**						
51 feet-100 feet	Chloride **	EPA 300.0 or SM4500 CIB EPA SW-846	10,000 mg/kg 2,500 mg/kg						
	(GRO+DRO+MRO)	Method 8015M	2,3008,8						
	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						

Site Assessment and Remediation Activities

On May 24, 2022, H&R mobilized personnel to begin site assessment, sampling, and remediation activities of the spill area. Site assessment samples were collected by way of test trenching. Field chloride titrations were performed to determine vertical delineation. Samples were then transported to Cardinal Laboratories to confirm vertical delineation. Laboratory results are presented in the following data table. Initial site assessment sample locations are illustrated on Delineation Trench Map, Appendix I. After vertical delineation was complete, excavation commenced. Horizontal delineation was achieved during excavation by way of composite samples as well as background samples taken after excavation was complete. Those samples as well as composite samples taken of the bottom of the excavation were sent to Cardinal Laboratory to confirm NMOCD closure criteria had been met. Confirmation sample locations are presented on Confirmation Sample Map in Appendix I. Photographic documentation is presented in Appendix IV. Complete laboratory reports can be found in Appendix V.

Table 1: Delineation Trench Soil Samples Analysis

Table 1. Delineation Trench 3011 Samples Arialysis										
Sample ID	Sample Date	Depth	BTEX	Benzene	GRO "	DRO "	MRO "	Total TPH	Cl "	
•		(BGS)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
NMOCD Tab	le 1 Closure Crit NMAC	teria 19.15.29	50 mg/kg	10 mg/kg	1000 ו	mg/kg	2500 mg/kg	2500 mg/kg	10,000 mg/kg	
		0-1'	ND	ND	ND	ND	ND	0	32	
57.4	E /24/2022	2'	ND	ND	ND	ND	ND	0	32	
DT-1	5/24/2022	3'	ND	ND	ND	ND	ND	0	160	
		4'	ND	ND	ND	ND	ND	0	32	
		0-1'	ND	ND	ND	ND	ND	0	64	
DT-2	5/24/2022	2'	ND	ND	ND	ND	ND	0	32	
DI-Z		3'	ND	ND	ND	ND	ND	0	32	
		4'	ND	ND	ND	ND	ND	0	48	
		0-1'	ND	ND	ND	ND	ND	0	3040	
		2'	ND	ND	ND	ND	ND	0	3120	
		3'	ND	ND	ND	ND	ND	0	6800	
	5/24/2022	4'	ND	ND	ND	ND	ND	0	5460	
DT-3	3/ 24/ 2022	6'	ND	ND	ND	ND	ND	0	4660	
		8'	ND	ND	ND	ND	ND	0	10000	
		10'	ND	ND	ND	15	ND	15	3200	
		12'	ND	ND	ND	ND	ND	0	4160	
	5/31/2022	13.5'	ND	ND	ND	ND	ND	0	160	
			ND = Analy	te Not Detecte	d DT = Delinea	tion Trench				

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

Table 2: Confirmation Soil Sample Analysis

ruble 2. Commination 300 Sumple Amarysis									
Sample ID	Sample Date	Depth	BTEX	Benzene	GRO	DRO	MRO	Total TPH	Cl
		(BGS)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
NMOCD Tabl	e 1 Closure Crit	teria 19.15.29	E0 mg/kg	10 mg/kg	1000	ma/ka	2500 mg/kg	2500 mg/kg	10.000ma/ka
	NMAC		50 mg/kg	10 mg/kg	1000 mg/kg		2500 mg/kg	2500 mg/kg	10,000mg/kg
S-1	5/31/2022	1-1.5'	ND	ND	ND	ND	ND	0	224
S-2	5/31/2022	1-1.5'	ND	ND	ND	ND	ND	0	224
S-3	5/31/2022	1-1.5'	ND	ND	ND	ND	ND	0	160
S-4	5/31/2022	1-1.5'	ND	ND	ND	ND	ND	0	112
S-5	5/31/2022	4'	ND	ND	ND	ND	ND	0	3680
S-6	5/31/2022	4'	ND	ND	ND	ND	ND	0	2880
S-7	5/31/2022	4'	ND	ND	ND	ND	ND	0	4280
S-8	5/31/2022	4'	ND	ND	ND	ND	ND	0	4960
S-9	5/31/2022	4'	ND	ND	ND	ND	ND	0	2760
N.SW	5/31/2022	1-1.5'	ND	ND	ND	ND	ND	0	48
S.SW	5/31/2022	4'	ND	ND	ND	ND	ND	0	144
E.SW-1	5/31/2022	1-1.5'	ND	ND	ND	ND	ND	0	48
E.SW-2	5/31/2022	4'	ND	ND	ND	ND	ND	0	256
W.SW-1	5/31/2022	1-1.5'	ND	ND	ND	ND	ND	0	176
W.SW-2	5/31/2022	4'	ND	ND	ND	ND	ND	0	240
BG-1	5/31/2022	0-1'	ND	ND	ND	ND	ND	0	48
BG-2	5/31/2022	0-1'	ND	ND	ND	ND	ND	0	48
BG-3	5/31/2022	0-1'	ND	ND	ND	ND	ND	0	16
BG-4	5/31/2022	0-1'	ND	ND	ND	ND	ND	0	48
			ND = Analyte N	ot Detected S \	W = Sidewall B	G = Backgroun	d		

7

Remedial Actions

- The impacted areas in the vicinity of sample points S-1 through S-4 were excavated to a total depth of 1-1.5 feet BGS.
- The areas near sample points S-5 through S-9 were excavated to 4-feet BGS.
- Composite confirmation samples were obtained from the sidewalls and bottoms of the excavated areas to verify that all contaminants above closure criteria had been removed.
- All the excavated material (128 yds) was hauled to Lea Land, a NMOCD approved solid waste disposal facility.
- The excavated area will be backfilled with clean topsoil and contoured to match the surrounding location.
- Area will be seeded with approved BLM seed mixture in accordance with the monsoon season to ensure proper seed germination and vegetation growth.
- The Final C-141 formally documenting the remedial actions is attached in Appendix III.

Backfill Request

Due to 3 major pipelines within the spill/excavation area which create extensive safety issues when excavating, on behalf of Cimarex Energy Co. we request that backfilling and photographic documentation of backfill be completed once closure is approved.

Closure

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

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

Respectfully submitted,

H&R Enterprises, LLC

Michael Collier

Environmental Project Manager

Attachments:

Appendix I Site Maps

Appendix II Soil Survey, Groundwater Data, FEMA Flood Zone, Water Bore Location Map

Appendix III Initial and Final C-141, NMOCD and BLM Correspondence

Appendix IV Photographic Documentation

Appendix V Laboratory Data Reports

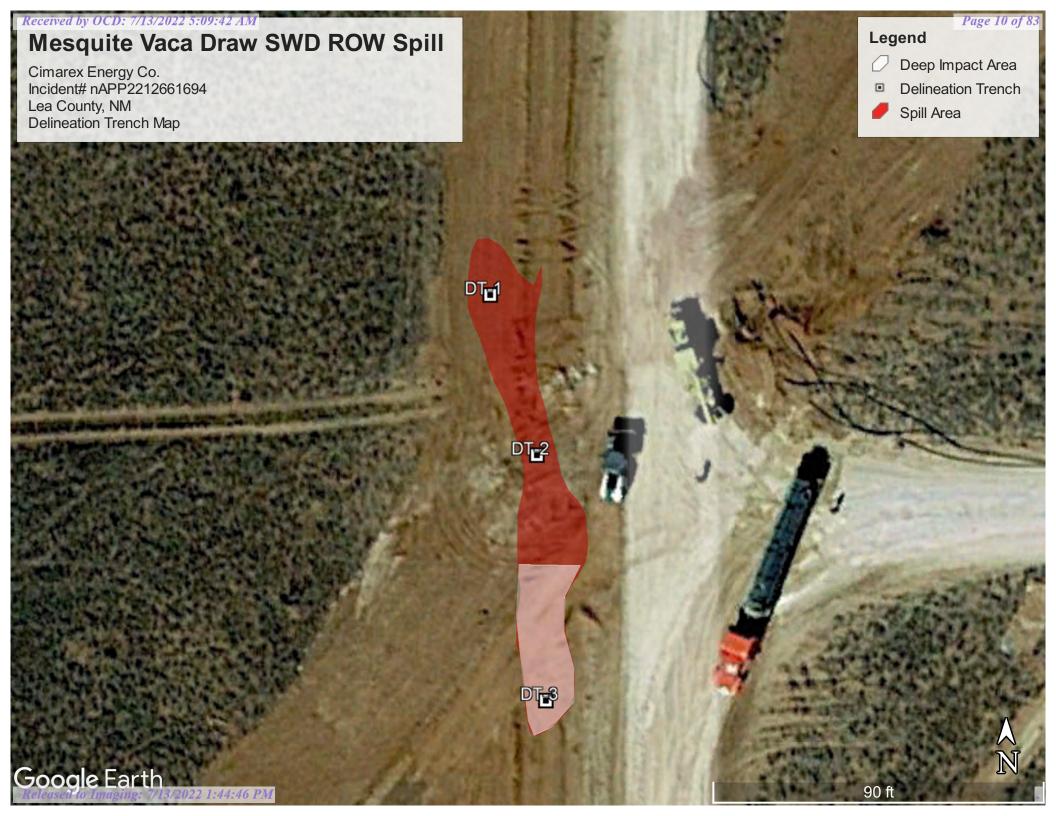
APPENDIX I

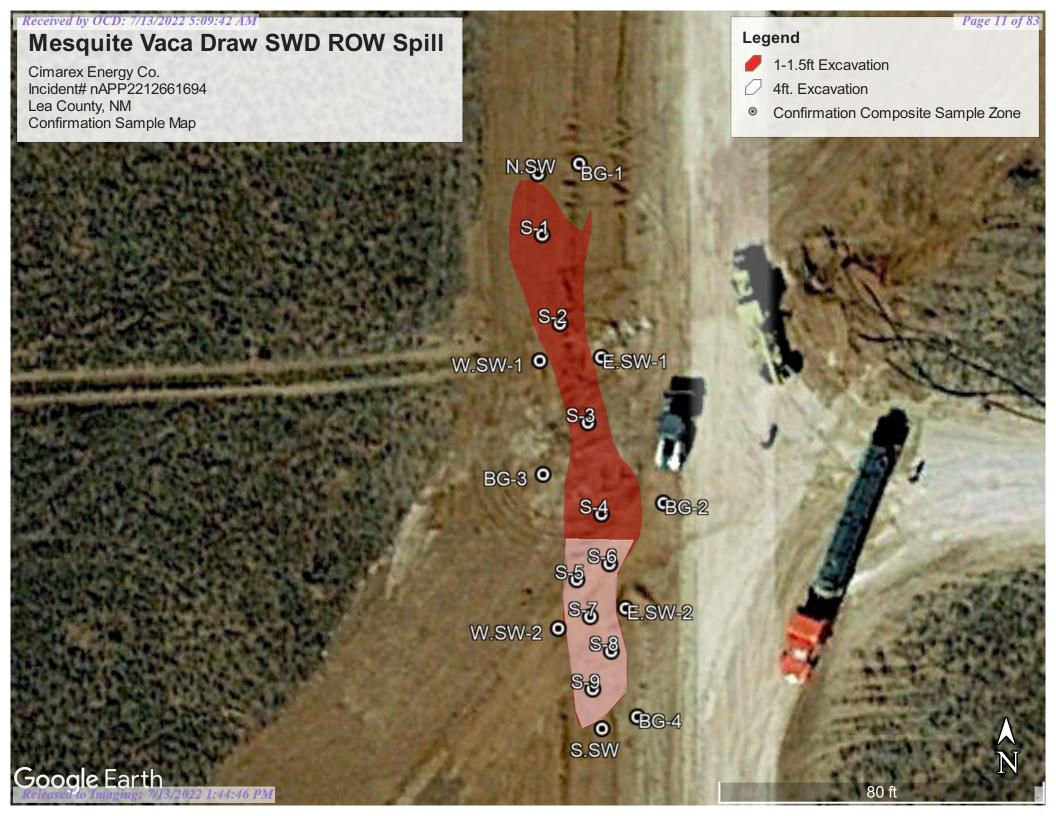
SITE MAPS

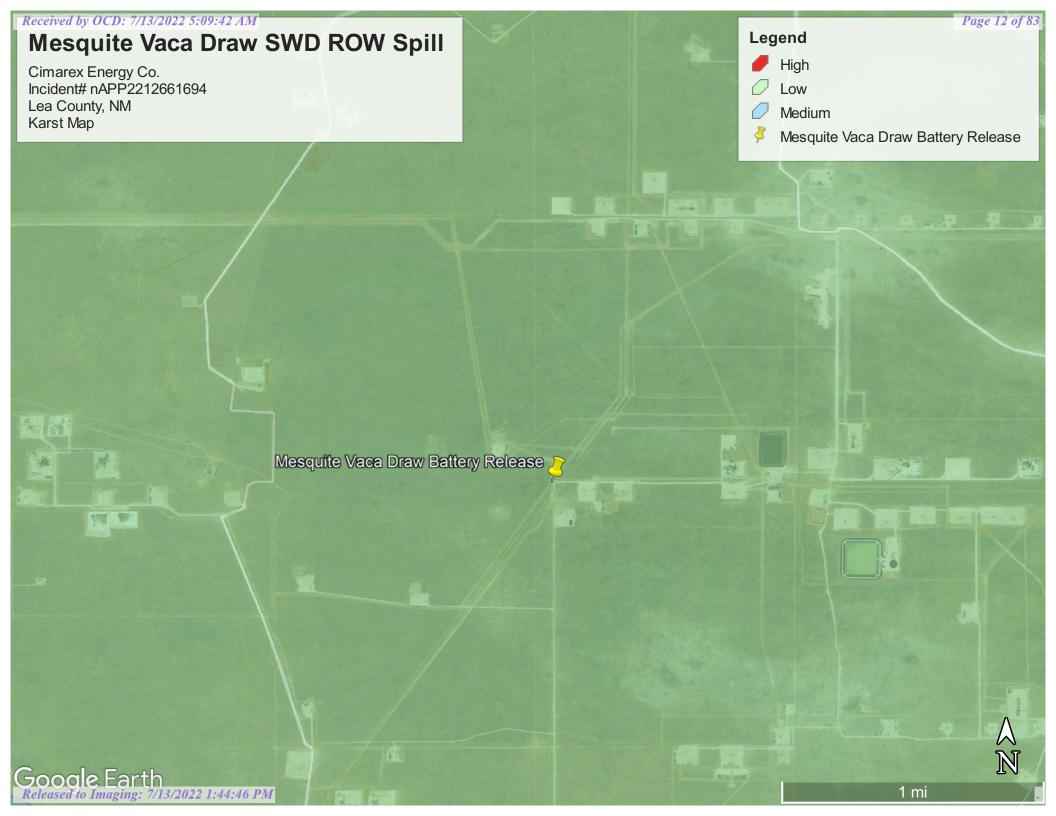
KARST MAP

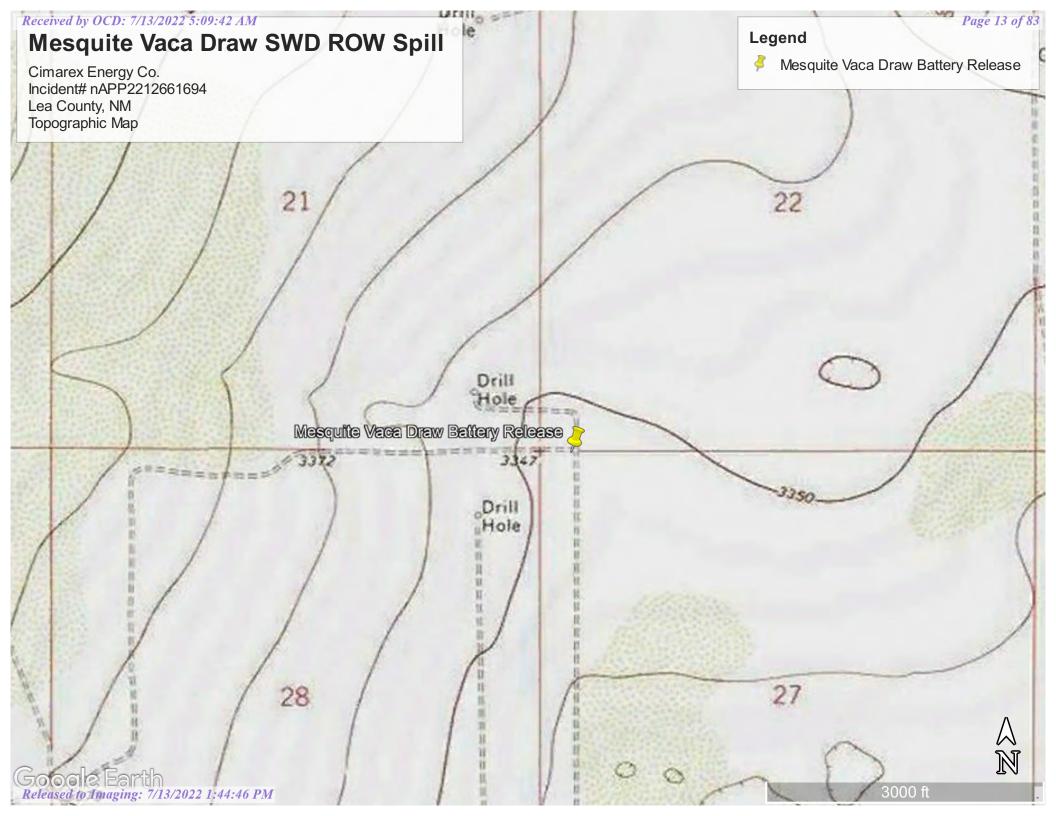
TOPOGRAPHIC MAP

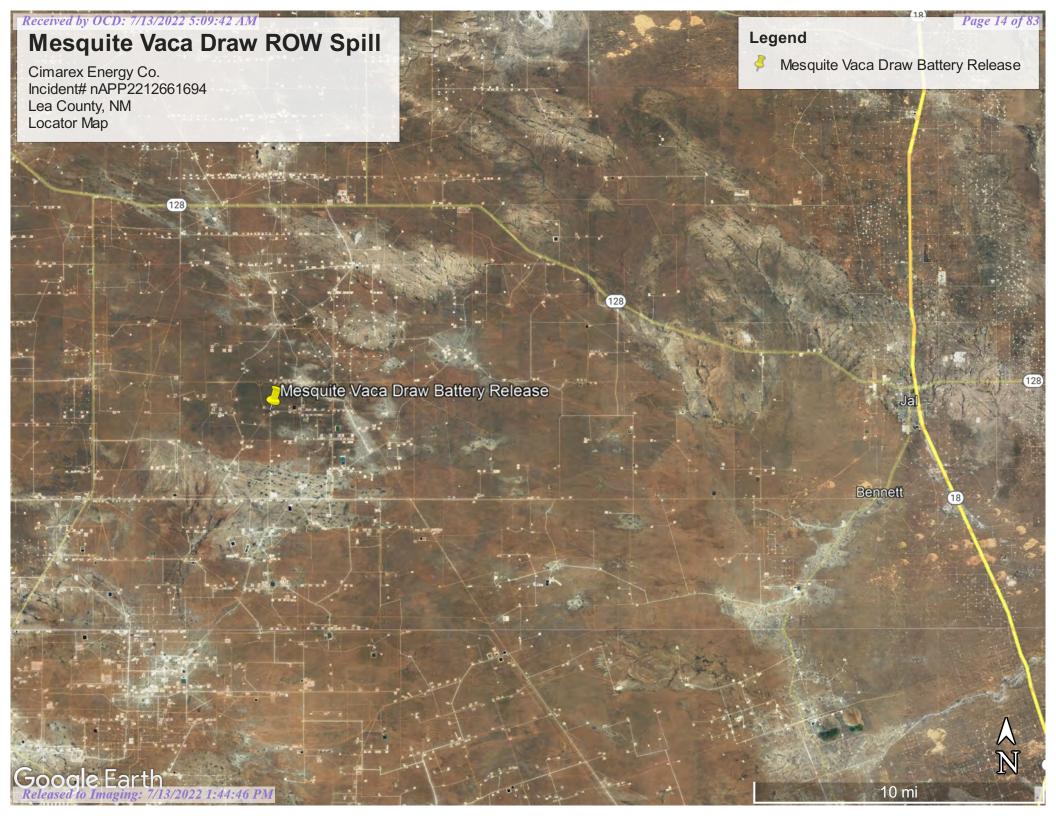
LOCATOR MAP











APPENDIX II

GROUNDWATER DATA

SOIL SURVEY

FEMA FLOOD ZONE

WATER BORE LOCATION MAP



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

		POD Sub-		Q	Q	Q								V	Vater
POD Number	Code	basin	County					Tws	Rng	X	Y	DistanceDe	pthWellDep	thWater C	olumn
<u>C 02313</u>		CUB	LE	2	3	3	26	25S	33E	636971	3552098*	2236	150	110	40
C 04537 POD1		C	LE	4	4	4	31	25S	33E	631847	3550243	4554	500	280	220
C 02373 CLW317846	О	CUB	LE	2	1	1	13	25S	33E	638518	3556544*	4622	625	185	440
C 02285 POD1		CUB	LE	1	4	4	03	26S	33E	636613	3548855	4763	220	220	0
<u>C 02373 S</u>		CUB	LE	1	2	1	13	25S	33E	638721	3556549*	4775	625	185	440
<u>C 02290</u>		CUB	LE	4	4	4	03	26S	33E	636538	3548770	4821	200	160	40
<u>C 02287</u>		C	LE	3	4	4	03	26S	33E	636427	3548708	4851	220		
<u>C 02286</u>		CUB	LE	3	4	4	03	26S	33E	636470	3548714	4855	220	175	45
<u>C 02288</u>		CUB	LE	4	4	4	03	26S	33E	636646	3548758	4865	220	180	40
<u>C 02289</u>		CUB	LE	4	4	4	03	26S	33E	636612	3548675*	4934	200	160	40

Average Depth to Water:

183 feet

Minimum Depth:

Maximum Depth:

110 feet 280 feet

Record Count: 10

Basin/County Search:

County: Lea

UTMNAD83 Radius Search (in meters):

Easting (X): 635143 **Northing (Y):** 3553386 **Radius:** 5000

*UTM location was derived from PLSS - see Help

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

5/26/22 10:38 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

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

X Y

20E6C C 04537 POD1 4 31 25S 33E

631847 3550243

Driller License: 1706 **Driller Company:**

Drill Start Date:

06/11/2021

Drill Finish Date:

06/12/2021

Plug Date:

Log File Date:

Driller Name:

06/21/2021

PCW Rcv Date:

Source:

Shallow

Pump Type:

Pipe Discharge Size:

Estimated Yield:

ELITE DRILLERS CORPORATION

5 GPM

Casing Size:

4.00

Depth Well:

500 feet

Depth Water:

280 feet

Water Bearing Stratifications:

220

Top Bottom Description

340 Sandstone/Gravel/Conglomerate

Casing Perforations:

WALLACE, BRYCE J.LEE.NER

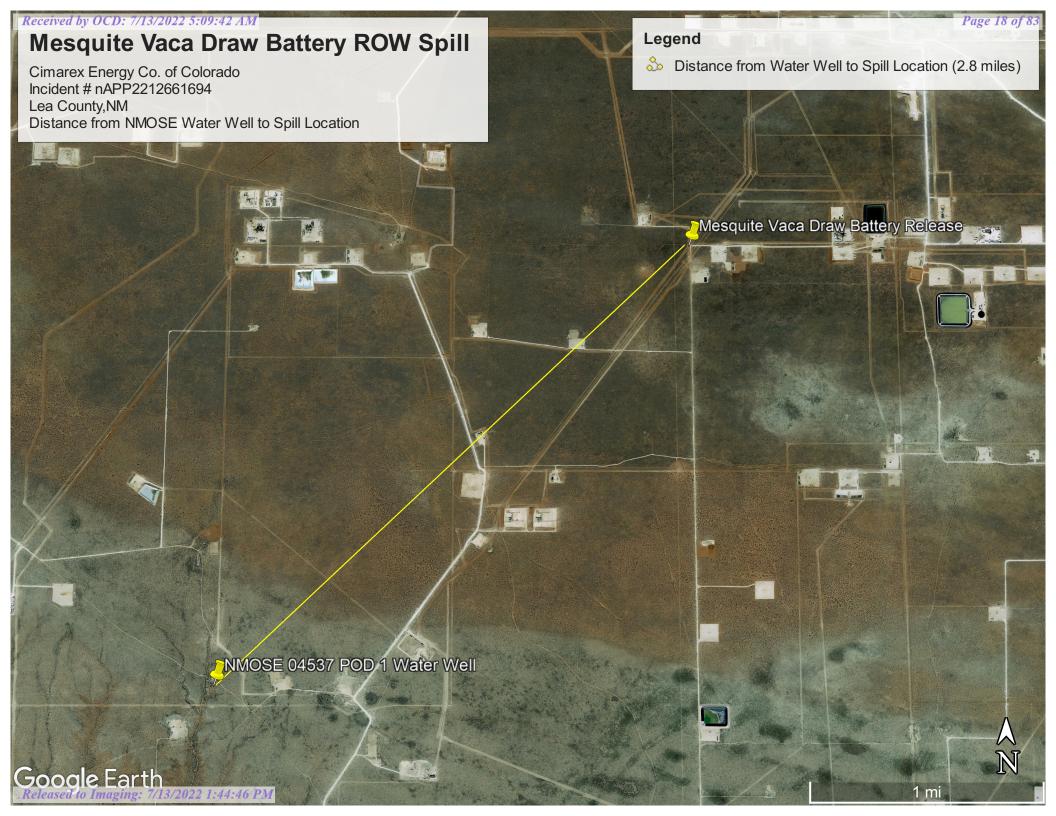
Top Bottom

300 500

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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POINT OF DIVERSION SUMMARY



Lea County, New Mexico

PT—Pyote loamy fine sand

Map Unit Setting

National map unit symbol: dmqp Elevation: 3,000 to 3,900 feet

Mean annual precipitation: 10 to 12 inches Mean annual air temperature: 60 to 62 degrees F

Frost-free period: 190 to 200 days

Farmland classification: Farmland of statewide importance

Map Unit Composition

Pyote and similar soils: 85 percent Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of

the mapunit.

Description of Pyote

Setting

Landform: Plains

Landform position (three-dimensional): Rise

Down-slope shape: Linear Across-slope shape: Linear

Parent material: Sandy eolian deposits derived from sedimentary

rock

Typical profile

A - 0 to 25 inches: loamy fine sand Bt - 25 to 60 inches: fine sandy loam

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained Runoff class: Negligible

Capacity of the most limiting layer to transmit water (Ksat): High

(2.00 to 6.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 5 percent

Gypsum, maximum content: 1 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0

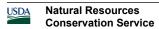
mmhos/cm)

Sodium adsorption ratio, maximum: 2.0

Available water supply, 0 to 60 inches: Low (about 5.3 inches)

Interpretive groups

Land capability classification (irrigated): 6e Land capability classification (nonirrigated): 7s



Hydrologic Soil Group: A

Ecological site: R042XC003NM - Loamy Sand

Hydric soil rating: No

Minor Components

Maljamar

Percent of map unit: 8 percent

Ecological site: R042XC003NM - Loamy Sand

Hydric soil rating: No

Palomas

Percent of map unit: 7 percent

Ecological site: R042XC003NM - Loamy Sand

Hydric soil rating: No

Data Source Information

Soil Survey Area: Lea County, New Mexico Survey Area Data: Version 18, Sep 10, 2021

National Flood Hazard Layer FIRMette





Legend

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

Without Base Flood Elevation (BFE) With BFE or Depth Zone AE, AO, AH, VE, AR SPECIAL FLOOD HAZARD AREAS Regulatory Floodway 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X **Future Conditions 1% Annual** Chance Flood Hazard Zone X Area with Reduced Flood Risk due to Levee. See Notes. Zone X OTHER AREAS OF Area with Flood Risk due to Levee Zone D FLOOD HAZARD NO SCREEN Area of Minimal Flood Hazard Zone X Effective LOMRs OTHER AREAS Area of Undetermined Flood Hazard Zone D - - - Channel, Culvert, or Storm Sewer **GENERAL** STRUCTURES | LILLIL Levee, Dike, or Floodwall 20.2 Cross Sections with 1% Annual Chance 17.5 Water Surface Elevation **Coastal Transect** Base Flood Elevation Line (BFE) Limit of Study **Jurisdiction Boundary** — --- Coastal Transect Baseline OTHER **Profile Baseline FEATURES** Hydrographic Feature Digital Data Available No Digital Data Available MAP PANELS Unmapped The pin displayed on the map is an approximate point selected by the user and does not represent

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

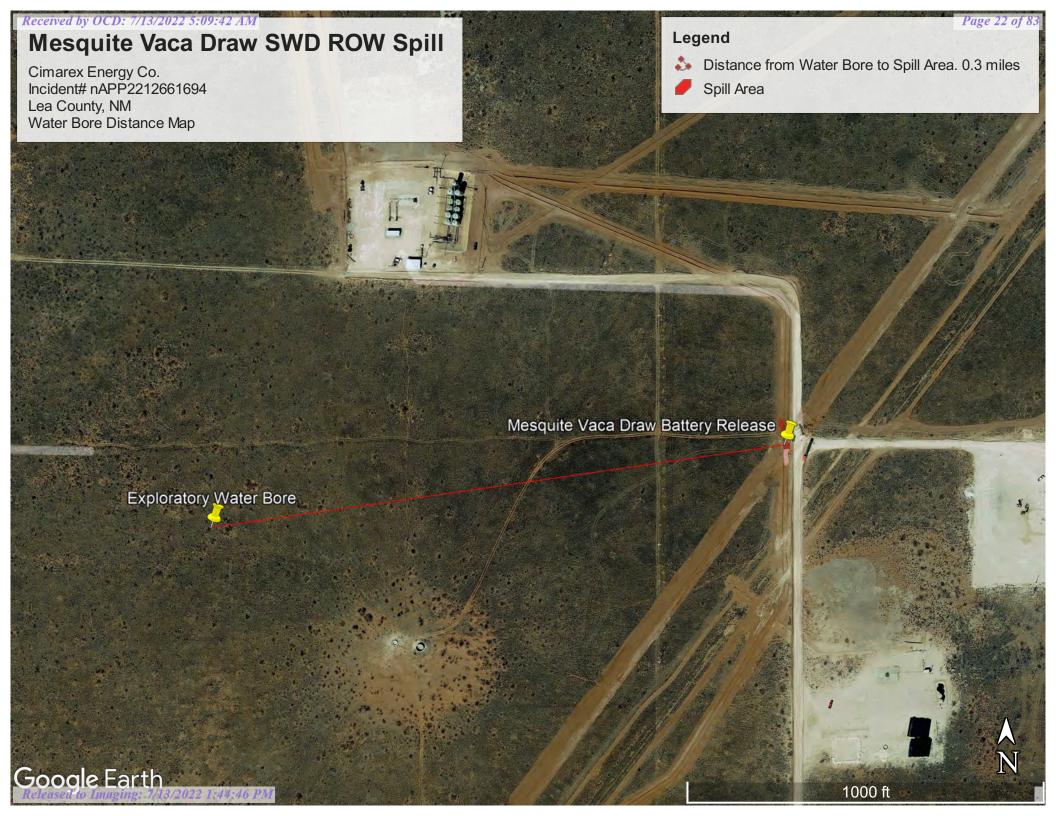
The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 5/9/2022 at 11:18 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

an authoritative property location.

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.



2.000



SOIL BORE LOG							
Project:	Mesquite Vaca Draw ROW Spill	Date:	Jun 14, 2022				
Type:	Exploratory Water Bore	Location:	Cascade 28 Fed #85H Pad				

Depth	Soil Type	Classification	Comments
0-0.5′	Caliche	N/A	
0.5-5′	Fine Sand	N/A	
5′-10′	Caliche	N/A	
10-55′	Fine Sand	N/A	6/14/22- Dry/No Water 6/17/22- Dry/ No Water

APPENDIX III

INITIAL C-141

FINAL C-141

NMOCD AND BLM
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	nAPP2212661694
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Cimarex Energy Co.				OGRID: 215099					
Contact Nan	Contact Name: Laci Luig					Contact Telephone: (432) 571-7800			
Contact ema	il: laci.luig@	coterra.com			Incident #	(assigned by OCD)	nAPP2212661694		
Contact mail Midland, TX		600 N Marienfel	d Street, Ste. 600						
			Location	of R	elease So	ource			
Latitude 32.1	Latitude 32.108734 Longitude -103.567515 (NAD 83 in decimal degrees to 5 decimal places)								
Site Name: M	Iesquite-Vac	ca Draw SWD RC)W		Site Type:	Right-of-Way			
Date Release	Discovered:	5/6/2022			API# (if app	licable)			
Unit Letter	Section	Township	Range		Coun	ty			
D	27	25S							
	Materia		ribal Private of Nature an all that apply and attact	d Vol	ume of I	Release justification for the volumes	provided below)		
Crude Oi		Volume Release	ed (bbls)			Volume Recovered (
Produced	Water	Volume Release	ed (bbls) 45			Volume Recovered (bbls) 10			
		Is the concentra produced water	tion of dissolved	chloride	e in the	in the Yes No			
Condensa	ate	Volume Release			Volume Recovered (bbls)				
Natural C	das	Volume Release	ed (Mcf)			Volume Recovered (Mcf)			
Other (describe) Volume/Weight Released (provide units			de units)	1	Volume/Weight Reco	overed (provide units)			
Cause of Release: Other A Swift Water employee was driving out our 12" lay flat transfer frac line when he noticed a leak and immediately applied pinchers to both sides of the leak to contain it. We called a vacuum truck out to recover fluid, and during repairs of the line, we found the cause of the release. We found an old lease sign lying on the Right-of-way covered with dirt that was not visible when we laid the line down.									

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Incident ID	nAPP2212661694
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the re Amount of release greater than 25 bar	sponsible party consider this a major release? rels.
⊠ Yes □ No		
If YES, was immediate no By: Gloria Garza To: OCD Enviro, Jim Gri By: Email		o whom? When and by what means (phone, email, etc)?
	Initial	Response
The responsible p	party must undertake the following actions immed	liately unless they could create a safety hazard that would result in injury
The source of the rele	ease has been stopped.	
The impacted area ha	s been secured to protect human health	and the environment.
Released materials ha	we been contained via the use of berms	or dikes, absorbent pads, or other containment devices.
	ecoverable materials have been removed d above have <u>not</u> been undertaken, expl	
has begun, please attach	a narrative of actions to date. If remed	ce remediation immediately after discovery of a release. If remediation dial efforts have been successfully completed or if the release occurred C), please attach all information needed for closure evaluation.
regulations all operators are public health or the environr failed to adequately investig	required to report and/or file certain release ment. The acceptance of a C-141 report by tate and remediate contamination that pose a	the best of my knowledge and understand that pursuant to OCD rules and notifications and perform corrective actions for releases which may endanger the OCD does not relieve the operator of liability should their operations have threat to groundwater, surface water, human health or the environment. In or of responsibility for compliance with any other federal, state, or local laws
Printed Name: Laci Luig_		Title: ESH Specialist
Signature:		Date: 5/6/2022
email: laci.luig@coterra.c	com	Telephone: (432) 208-3035
OCD Only		
Received by:Jocelyn I	Harimon	Date:07/13/2022

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Incident ID	nAPP2212661694
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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?	_280 (ft bgs)					
Did this release impact groundwater or surface water?						
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ⊠ No					
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?						
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No					
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ No					
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?						
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No					
Are the lateral extents of the release within 300 feet of a wetland?						
Are the lateral extents of the release overlying a subsurface mine?						
Are the lateral extents of the release overlying an unstable area such as karst geology?						
Are the lateral extents of the release within a 100-year floodplain?						
Did the release impact areas not on an exploration, development, production, or storage site?						
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.						
Characterization Report Checklist: Each of the following items must be included in the report.						
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. Field data Data table of soil contaminant concentration data Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs Photographs including date and GIS information Topographic/Aerial maps Laboratory data including chain of custody						

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Received by OCD: 7/13/2022 5:09:42 AM
State of New Mexico
Page 4
Oil Conservation Division

Incident ID nAPP2212661694
District RP
Facility ID

Application ID

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: ESH Specialist ______

Signature: ______ Date: 6/17/2022 ______

email: laci.luig@coterra.com ______ Telephone: (432) 208-3035 _______

OCD Only

Received by: ______ Date: _______

Page 29 of 83

	- "8" - "J
Incident ID	nAPP2212661694
District RP	
Facility ID	
Application ID	

Closure

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 (electronic submittals in .pdf format are preferred) 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.

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.

△ A scaled site and sampling diagram as described in 19.15.29.	d site and sampling diagram as described in 19.15.29.11 NMAC							
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)								
☐ Laboratory analyses of final sampling (Note: appropriate OD	C District office must be notified 2 days prior to final sampling)							
□ Description of remediation activities								
and regulations all operators are required to report and/or file certa may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and re human health or the environment. In addition, OCD acceptance of	ations. The responsible party acknowledges they must substantially onditions that existed prior to the release or their final land use in							
Printed Name: Laci Luig	Title: ESH Specialist							
Signature: <u>ac</u>	Date: 6/17/2022							
email: laci.luig@coterra.com	Telephone: (432) 208-3035							
OCD Only								
Received by:	Date:							
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.								
Closure Approved by:	Date: 07/13/2022							
Printed Name: Jennifer Nobui	Title: Environmental Specialist A							
l <u>—</u>								

Michael Collier

From: Laci Luig <Laci.Luig@coterra.com>
Sent: Thursday, May 19, 2022 6:41 PM

To: NMOCD Spill Notifications; Shelly Tucker - NM BLM; BLM NM CFO Spill

Cc: Jim Hawley; Michael Collier

Subject: nAPP2212661694 - Mesquite-Vaca Draw SWD ROW sampling notification

This email serves as notification for excavation and confirmation sampling on the Mesquite-Vaca Draw SWD ROW. Excavation and sampling is scheduled to begin May 24th at 9:00am (MST). H&R Enterprises will be onsite for field and confirmation sampling.

Thank you,



Laci Luig | Environmental Safety & Health Specialist

T: 432.571.7810 | M: 432.208.3035 | <u>laci.luig@coterra.com</u> | <u>www.coterra.com</u> Coterra Energy Inc. | 600 N. Marienfeld Street, Suite 600 | Midland, TX 79701

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

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APPENDIX IV

PHOTOGRAPHIC DOCUMENTATION

PHOTOGRAPHIC DOCUMENTATION













PHOTOGRAPHIC DOCUMENTATION









APPENDIX V

LABORATORY REPORTS



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

May 31, 2022

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

RE: MESQUITE VACA DRAW ROW SPILL

Enclosed are the results of analyses for samples received by the laboratory on 05/26/22 13:52.

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

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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: 05/26/2022 Reported: 05/31/2022

MESQUITE VACA DRAW ROW SPILL

Project Number: NONE GIVEN

Project Location: CIMAREX - LEA CO NM

Sampling Date: 05/24/2022

Sampling Type: Soil

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

Sample ID: DT - 1 0-1' (H222251-01)

Project Name:

Analyte	mg/kg		Analyzed By: CK						
	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/28/2022	ND	2.05	102	2.00	9.83	
Toluene*	<0.050	0.050	05/28/2022	ND	1.99	99.6	2.00	3.78	
Ethylbenzene*	<0.050	0.050	05/28/2022	ND	1.96	98.0	2.00	5.96	
Total Xylenes*	<0.150	0.150	05/28/2022	ND	5.81	96.8	6.00	6.27	
Total BTEX	<0.300	0.300	05/28/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 69.9-14	0						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/31/2022	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	05/27/2022	ND	188	93.9	200	1.60	
DRO >C10-C28*	<10.0	10.0	05/27/2022	ND	195	97.5	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	05/27/2022	ND					
Surrogate: 1-Chlorooctane	104	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	117 9	% 59.5-14	2						

A ... - I. ... - - - I D. ... CK

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

Received: 05/26/2022 Reported: 05/31/2022

05/31/2022 MESQUITE VACA DRAW ROW SPILL

Project Name: MESQUITE VA Project Number: NONE GIVEN

Project Location: CIMAREX - LEA CO NM

Sampling Date: 05/24/2022

Sampling Type: Soil

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

Sample ID: DT - 1 2' (H222251-02)

BTEX 8021B	mg	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/28/2022	ND	2.05	102	2.00	9.83	
Toluene*	<0.050	0.050	05/28/2022	ND	1.99	99.6	2.00	3.78	
Ethylbenzene*	<0.050	0.050	05/28/2022	ND	1.96	98.0	2.00	5.96	
Total Xylenes*	<0.150	0.150	05/28/2022	ND	5.81	96.8	6.00	6.27	
Total BTEX	<0.300	0.300	05/28/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/31/2022	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/27/2022	ND	188	93.9	200	1.60	
DRO >C10-C28*	<10.0	10.0	05/27/2022	ND	195	97.5	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	05/27/2022	ND					
Surrogate: 1-Chlorooctane	103	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	117	% 59.5-14	2						

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Celeg & Freene



05/24/2022

Analytical Results For:

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

Received: 05/26/2022 Sampling Date:

Reported: 05/31/2022 Sampling Type: Soil

Project Name: MESQUITE VACA DRAW ROW SPILL Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: CIMAREX - LEA CO NM

Sample ID: DT - 1 3' (H222251-03)

BTEX 8021B	mg	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2022	ND	2.05	102	2.00	9.83	
Toluene*	<0.050	0.050	05/31/2022	ND	1.99	99.6	2.00	3.78	
Ethylbenzene*	<0.050	0.050	05/31/2022	ND	1.96	98.0	2.00	5.96	
Total Xylenes*	<0.150	0.150	05/31/2022	ND	5.81	96.8	6.00	6.27	
Total BTEX	<0.300	0.300	05/31/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	05/31/2022	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/27/2022	ND	188	93.9	200	1.60	
DRO >C10-C28*	<10.0	10.0	05/27/2022	ND	195	97.5	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	05/27/2022	ND					
Surrogate: 1-Chlorooctane	103	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	117	% 59.5-14	2						

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Celey D. Keene



Analytical Results For:

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

Received: 05/26/2022

Reported: 05/31/2022
Project Name: MESQUITE VACA DRAW ROW SPILL

Project Number: NONE GIVEN

Project Location: CIMAREX - LEA CO NM

Sampling Date: 05/24/2022

Sampling Type: Soil

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

Sample ID: DT - 1 4' (H222251-04)

BTEX 8021B	mg	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/28/2022	ND	2.05	102	2.00	9.83	
Toluene*	<0.050	0.050	05/28/2022	ND	1.99	99.6	2.00	3.78	
Ethylbenzene*	<0.050	0.050	05/28/2022	ND	1.96	98.0	2.00	5.96	
Total Xylenes*	<0.150	0.150	05/28/2022	ND	5.81	96.8	6.00	6.27	
Total BTEX	<0.300	0.300	05/28/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/31/2022	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/27/2022	ND	188	93.9	200	1.60	
DRO >C10-C28*	<10.0	10.0	05/27/2022	ND	195	97.5	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	05/27/2022	ND					
Surrogate: 1-Chlorooctane	105	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	117	% 59.5-14	22						

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05/24/2022

Soil

Analytical Results For:

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

Received: 05/26/2022 Sampling Date: Reported: 05/31/2022 Sampling Type:

Project Name: MESQUITE VACA DRAW ROW SPILL Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: CIMAREX - LEA CO NM

Sample ID: DT - 2 0-1' (H222251-05)

BTEX 8021B	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/28/2022	ND	2.05	102	2.00	9.83	
Toluene*	<0.050	0.050	05/28/2022	ND	1.99	99.6	2.00	3.78	
Ethylbenzene*	<0.050	0.050	05/28/2022	ND	1.96	98.0	2.00	5.96	
Total Xylenes*	<0.150	0.150	05/28/2022	ND	5.81	96.8	6.00	6.27	
Total BTEX	<0.300	0.300	05/28/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/31/2022	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/27/2022	ND	188	93.9	200	1.60	
DRO >C10-C28*	<10.0	10.0	05/27/2022	ND	195	97.5	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	05/27/2022	ND					
Surrogate: 1-Chlorooctane	105	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	118 9	% 59.5-14	2						

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Celey D. Kreene



Analytical Results For:

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

Received: 05/26/2022 Reported: 05/31/2022

Project Name: MESQUITE VACA DRAW ROW SPILL

Project Number: NONE GIVEN

Project Location: CIMAREX - LEA CO NM

Sampling Date: 05/24/2022

Sampling Type: Soil

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

Sample ID: DT - 2 2' (H222251-06)

BTEX 8021B	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/28/2022	ND	2.05	102	2.00	9.83	
Toluene*	<0.050	0.050	05/28/2022	ND	1.99	99.6	2.00	3.78	
Ethylbenzene*	<0.050	0.050	05/28/2022	ND	1.96	98.0	2.00	5.96	
Total Xylenes*	<0.150	0.150	05/28/2022	ND	5.81	96.8	6.00	6.27	
Total BTEX	<0.300	0.300	05/28/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.5	% 69.9-14	10						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/31/2022	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/27/2022	ND	188	93.9	200	1.60	
DRO >C10-C28*	<10.0	10.0	05/27/2022	ND	195	97.5	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	05/27/2022	ND					
Surrogate: 1-Chlorooctane	108	% 66.9-13	16						
Surrogate: 1-Chlorooctadecane	120	% 59.5-14	12						

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Celey D. Keene



Analytical Results For:

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

Received: 05/26/2022 Reported:

05/31/2022

ma/ka

MESQUITE VACA DRAW ROW SPILL

Project Number: NONE GIVEN

Project Location: CIMAREX - LEA CO NM Sampling Date: 05/24/2022

Sampling Type: Soil

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

Sample ID: DT - 2 3' (H222251-07)

Project Name:

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: СК					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/28/2022	ND	2.05	102	2.00	9.83	
Toluene*	<0.050	0.050	05/28/2022	ND	1.99	99.6	2.00	3.78	
Ethylbenzene*	<0.050	0.050	05/28/2022	ND	1.96	98.0	2.00	5.96	
Total Xylenes*	<0.150	0.150	05/28/2022	ND	5.81	96.8	6.00	6.27	
Total BTEX	<0.300	0.300	05/28/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.4	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/31/2022	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/27/2022	ND	188	93.9	200	1.60	
DRO >C10-C28*	<10.0	10.0	05/27/2022	ND	195	97.5	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	05/27/2022	ND					
Surrogate: 1-Chlorooctane	110	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	123	% 59.5-14	2						

Applyzod By: CK

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Analytical Results For:

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

Received: 05/26/2022 Reported: 05/31/2022

Project Name: MESQUITE VACA DRAW ROW SPILL

Project Number: NONE GIVEN

Project Location: CIMAREX - LEA CO NM

Sampling Date: 05/24/2022

Sampling Type: Soil

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

Sample ID: DT - 2 4' (H222251-08)

BTEX 8021B	mg	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/28/2022	ND	2.05	102	2.00	9.83	
Toluene*	<0.050	0.050	05/28/2022	ND	1.99	99.6	2.00	3.78	
Ethylbenzene*	<0.050	0.050	05/28/2022	ND	1.96	98.0	2.00	5.96	
Total Xylenes*	<0.150	0.150	05/28/2022	ND	5.81	96.8	6.00	6.27	
Total BTEX	<0.300	0.300	05/28/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/31/2022	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/27/2022	ND	188	93.9	200	1.60	
DRO >C10-C28*	<10.0	10.0	05/27/2022	ND	195	97.5	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	05/27/2022	ND					
Surrogate: 1-Chlorooctane	109	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	123	% 59.5-14	22						

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Analytical Results For:

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

Received: 05/26/2022 Reported:

05/31/2022

Project Name: MESQUITE VACA DRAW ROW SPILL Project Number: NONE GIVEN

Project Location: CIMAREX - LEA CO NM Sampling Date: 05/24/2022

Sampling Type: Soil

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

Sample ID: DT - 3 0-1' (H222251-09)

BTEX 8021B	mg	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/28/2022	ND	2.05	102	2.00	9.83	
Toluene*	<0.050	0.050	05/28/2022	ND	1.99	99.6	2.00	3.78	
Ethylbenzene*	<0.050	0.050	05/28/2022	ND	1.96	98.0	2.00	5.96	
Total Xylenes*	<0.150	0.150	05/28/2022	ND	5.81	96.8	6.00	6.27	
Total BTEX	<0.300	0.300	05/28/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3040	16.0	05/31/2022	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/27/2022	ND	188	93.9	200	1.60	
DRO >C10-C28*	<10.0	10.0	05/27/2022	ND	195	97.5	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	05/27/2022	ND					
Surrogate: 1-Chlorooctane	117	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	135	% 59.5-14	2						

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Analytical Results For:

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

Received: 05/26/2022 Reported: 05/31/2022

MESQUITE VACA DRAW ROW SPILL

Project Name: MESQUITE VA Project Number: NONE GIVEN

Project Location: CIMAREX - LEA CO NM

Sampling Date: 05/24/2022

Sampling Type: Soil

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

Sample ID: DT - 3 2' (H222251-10)

BTEX 8021B	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/28/2022	ND	2.05	102	2.00	9.83	
Toluene*	<0.050	0.050	05/28/2022	ND	1.99	99.6	2.00	3.78	
Ethylbenzene*	<0.050	0.050	05/28/2022	ND	1.96	98.0	2.00	5.96	
Total Xylenes*	<0.150	0.150	05/28/2022	ND	5.81	96.8	6.00	6.27	
Total BTEX	<0.300	0.300	05/28/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3120	16.0	05/31/2022	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/27/2022	ND	188	93.9	200	1.60	
DRO >C10-C28*	<10.0	10.0	05/27/2022	ND	195	97.5	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	05/27/2022	ND					
Surrogate: 1-Chlorooctane	108	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	120	% 59.5-14	2						

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Analytical Results For:

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

Received: 05/26/2022 Reported: 05/31/2022

05/31/2022 MESQUITE VACA DRAW ROW SPILL

Project Name: MESQUITE VA Project Number: NONE GIVEN

Project Location: CIMAREX - LEA CO NM

Sampling Date: 05/24/2022

Sampling Type: Soil

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

Sample ID: DT - 3 3' (H222251-11)

BTEX 8021B	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/28/2022	ND	2.05	102	2.00	9.83	
Toluene*	<0.050	0.050	05/28/2022	ND	1.99	99.6	2.00	3.78	
Ethylbenzene*	<0.050	0.050	05/28/2022	ND	1.96	98.0	2.00	5.96	
Total Xylenes*	<0.150	0.150	05/28/2022	ND	5.81	96.8	6.00	6.27	
Total BTEX	<0.300	0.300	05/28/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.9	% 69.9-14	10						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6800	16.0	05/31/2022	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/27/2022	ND	188	93.9	200	1.60	
DRO >C10-C28*	<10.0	10.0	05/27/2022	ND	195	97.5	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	05/27/2022	ND					
Surrogate: 1-Chlorooctane	111 9	% 66.9-13	16						
Surrogate: 1-Chlorooctadecane	124	% 59.5-14	12						

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Analytical Results For:

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

Received: 05/26/2022 Reported: 05/31/2022

Project Name: MESQUITE VACA DRAW ROW SPILL

Project Number: NONE GIVEN

Project Location: CIMAREX - LEA CO NM

Sampling Date: 05/24/2022

Sampling Type: Soil

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

Sample ID: DT - 3 4' (H222251-12)

BTEX 8021B	mg	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/28/2022	ND	2.05	102	2.00	9.83	
Toluene*	<0.050	0.050	05/28/2022	ND	1.99	99.6	2.00	3.78	
Ethylbenzene*	<0.050	0.050	05/28/2022	ND	1.96	98.0	2.00	5.96	
Total Xylenes*	<0.150	0.150	05/28/2022	ND	5.81	96.8	6.00	6.27	
Total BTEX	<0.300	0.300	05/28/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5460	16.0	05/31/2022	ND	432	108	400	3.64	QM-07
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/27/2022	ND	188	93.9	200	1.60	
DRO >C10-C28*	<10.0	10.0	05/27/2022	ND	195	97.5	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	05/27/2022	ND					
Surrogate: 1-Chlorooctane	110	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	124	% 59.5-14	12						

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Analytical Results For:

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

Received: 05/26/2022 Reported: 05/31/2022

Project Name: MESQUITE VACA DRAW ROW SPILL

Project Number: NONE GIVEN

Project Location: CIMAREX - LEA CO NM

Sampling Date: 05/24/2022

Sampling Type: Soil

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

Sample ID: DT - 3 6' (H222251-13)

BTEX 8021B	mg	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/28/2022	ND	2.05	102	2.00	9.83	
Toluene*	<0.050	0.050	05/28/2022	ND	1.99	99.6	2.00	3.78	
Ethylbenzene*	<0.050	0.050	05/28/2022	ND	1.96	98.0	2.00	5.96	
Total Xylenes*	<0.150	0.150	05/28/2022	ND	5.81	96.8	6.00	6.27	
Total BTEX	<0.300	0.300	05/28/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4660	16.0	05/31/2022	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/27/2022	ND	188	93.9	200	1.60	
DRO >C10-C28*	<10.0	10.0	05/27/2022	ND	195	97.5	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	05/27/2022	ND					
Surrogate: 1-Chlorooctane	112	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	126	% 59.5-14	2						

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Analytical Results For:

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

Received: 05/26/2022 Reported: 05/31/2022

MESQUITE VACA DRAW ROW SPILL

Project Name: MESQUITE VA Project Number: NONE GIVEN

Project Location: CIMAREX - LEA CO NM

Sampling Date: 05/24/2022

Sampling Type: Soil

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

Sample ID: DT - 3 8' (H222251-14)

BTEX 8021B	mg	/kg	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/28/2022	ND	2.05	102	2.00	9.83	
Toluene*	<0.050	0.050	05/28/2022	ND	1.99	99.6	2.00	3.78	
Ethylbenzene*	<0.050	0.050	05/28/2022	ND	1.96	98.0	2.00	5.96	
Total Xylenes*	<0.150	0.150	05/28/2022	ND	5.81	96.8	6.00	6.27	
Total BTEX	<0.300	0.300	05/28/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10000	16.0	05/31/2022	ND	432	108	400	3.64	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/27/2022	ND	188	93.9	200	1.60	
DRO >C10-C28*	<10.0	10.0	05/27/2022	ND	195	97.5	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	05/27/2022	ND					
Surrogate: 1-Chlorooctane	114	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	129	% 59.5-14	22						

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Sampling Condition:

Sample Received By:

05/24/2022

Cool & Intact Tamara Oldaker

Analytical Results For:

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

Received: 05/26/2022 Sampling Date:

Reported: 05/31/2022 Sampling Type: Soil

Project Name: MESQUITE VACA DRAW ROW SPILL
Project Number: NONE GIVEN

Project Location: CIMAREX - LEA CO NM

Sample ID: DT - 3 10' (H222251-15)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/28/2022	ND	2.05	102	2.00	9.83	
Toluene*	<0.050	0.050	05/28/2022	ND	1.99	99.6	2.00	3.78	
Ethylbenzene*	<0.050	0.050	05/28/2022	ND	1.96	98.0	2.00	5.96	
Total Xylenes*	<0.150	0.150	05/28/2022	ND	5.81	96.8	6.00	6.27	
Total BTEX	<0.300	0.300	05/28/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3200	16.0	05/31/2022	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/27/2022	ND	188	93.9	200	1.60	
DRO >C10-C28*	15.0	10.0	05/27/2022	ND	195	97.5	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	05/27/2022	ND					
Surrogate: 1-Chlorooctane	123 9	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	142 9	% 59.5-14	2						

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Analytical Results For:

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

Received: 05/26/2022 Reported: 05/31/2022

05/31/2022 MESQUITE VACA DRAW ROW SPILL

Project Name: MESQUITE VA Project Number: NONE GIVEN

Project Location: CIMAREX - LEA CO NM

Sampling Date: 05/24/2022

Sampling Type: Soil

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

Sample ID: DT - 3 12' (H222251-16)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: СК					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/28/2022	ND	2.05	102	2.00	9.83	
Toluene*	<0.050	0.050	05/28/2022	ND	1.99	99.6	2.00	3.78	
Ethylbenzene*	<0.050	0.050	05/28/2022	ND	1.96	98.0	2.00	5.96	
Total Xylenes*	<0.150	0.150	05/28/2022	ND	5.81	96.8	6.00	6.27	
Total BTEX	<0.300	0.300	05/28/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4160	16.0	05/31/2022	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/27/2022	ND	188	93.9	200	1.60	
DRO >C10-C28*	<10.0	10.0	05/27/2022	ND	195	97.5	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	05/27/2022	ND					
Surrogate: 1-Chlorooctane	112	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	127	% 59.5-14	2						

Applyzod By: CK

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keine



Notes and Definitions

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

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

ecovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

Cardinal Laboratories *=Accredited Analyte

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

Celeg D. Freene



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

CRC (0.10)	(5/5) 393-2326 FAA (5/3) 333-24/4			ANALYSIS REQUEST
Company Name: H&R Enterprises		PO.#:		
Project Manager: Michael Collier		Company: Cimarex Energ		
Address:		Company: Ciliates Energy		
City:	State: Zip:	Ami: Laci Luig		
Phone #:	Fax#:			
Project#:	Project Owner: Cimarex Energy	City:		
Project Name: Mesquite Vaca Draw ROW Spill)W Spill	State:		
Project Location: Lea County, NM		Phone #:		
Sampler Name: M. Collier		Fax#:		
CONTINUE CHEX	M	MATRIX PRESERV. SAMPLING	LING	
Lab I.D. Sample I.D.)RAB OR (C)OMP. CONTAINERS ROUNDWATER ASTEWATER	LLUDGE THER: CID/BASE: DE/COOL THER:	BTEX TPH Chlorides	
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/ DT-2 2'				
7 DT-2 3'				
8 DT-2 4'				
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Relinquished By:	Date: 24-22 Received By	word allowed	Verbal Result:	Add'l Phone #: ide Email address:
Relinquished By:	Date: Received By:		REMARKS: Pg 1 of 2	JAHR ECE
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FORM-006 R 3.2 10/07/21	+ Cardinal cannot accep	Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com	nges to celey.keene@cardinallabs	snm.com

Page 19 of 20



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Relinquished By:	Relinquished By:	PLEASE NOTE: Liability and Co evert shall Caldinal be liable to affiliates or successors arising			16		14		12	11	152724	Lab I.D.	Sample Hame, III. Some	Froject Location: M	Project I ocation: Lea County, NM	Project Name: Mes	Project #:	Phone #:	City:	Address:	Project Manager: Michael Collier	Company Name: H&R Enterprises	
	le One) us - Other:		0000	REASE NOTE: Liability and Chamayes. Cardinat's hability and durits workship for any claim asking shaften beard in termed or lot, shaft in finited to the amount paid by the albert for the shrelphose, neer state Cardinat be liable for incidental or commonship for any claim and the shrelphose, localizing without limitation, business hiermyclicine, loss of use, or loss of profits incurred by cleent, its substitution is a shrelphose commonship for a shrelphose commonship for a shrelphose commonship for a shrelphose commonship commonship for a shrelphose commons			DT-3 12'	DT-3 10'	DT-3 8'	DT-3 6'	DT-3 4'	DT-3 3'		Sample I.D.	Come	Collier	ea County, NM	Project Name: Mesquite Vaca Draw ROW Spill					lichael Collier	&R Enterprises	101 East Mar (575) 393-23
0	Observed Temp. °C /	Date:	Date: 26-22	using remedy for any claim arising whether i, including without limitation, business if services hereunder by Cerdinal, regar										I.D.				Spill	Project Owner: Cimarex Energy	Fax #:	State:				101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476
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Page 20 of 20



June 02, 2022

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

RE: MESQUITE VACA DRAW BATTERY ROW

Enclosed are the results of analyses for samples received by the laboratory on 06/01/22 14:35.

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

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

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

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Received: 06/01/2022 Sampling Date: 05/31/2022

Reported: 06/02/2022 Sampling Type: Soil

Project Name: MESQUITE VACA DRAW BATTERY ROW Sampling Condition: Cool & Intact
Project Number: (M.V.D.B.) Sample Received By: Tamara Oldaker

Project Location: CIMAREX - LEA CO NM

Sample ID: DT - 3 13.5' (H222318-01)

BTEX 8021B	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/01/2022	ND	2.04	102	2.00	0.0351	
Toluene*	<0.050	0.050	06/01/2022	ND	2.05	103	2.00	0.572	
Ethylbenzene*	<0.050	0.050	06/01/2022	ND	1.91	95.6	2.00	0.138	
Total Xylenes*	<0.150	0.150	06/01/2022	ND	5.94	98.9	6.00	0.457	
Total BTEX	<0.300	0.300	06/01/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	06/02/2022	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/02/2022	ND	191	95.3	200	0.358	
DRO >C10-C28*	<10.0	10.0	06/02/2022	ND	204	102	200	0.588	
EXT DRO >C28-C36	<10.0	10.0	06/02/2022	ND					
Surrogate: 1-Chlorooctane	80.1	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	89.3	% 59.5-14	2						

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Celey D. Keene



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Project Name: Meso	w Battery ROW							S	State:			Zip:		_	_	_			_				
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June 03, 2022

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

RE: MESQUITE VACA DRAW BATTERY ROW

Enclosed are the results of analyses for samples received by the laboratory on 06/01/22 14:35.

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

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

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

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



05/31/2022

Analytical Results For:

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

Received: 06/01/2022 Sampling Date:

Reported: 06/03/2022 Sampling Type: Soil

Project Name: MESQUITE VACA DRAW BATTERY ROW Sampling Condition: Cool & Intact
Project Number: (M.V.D.B.) Sample Received By: Tamara Oldaker

Project Location: CIMAREX - LEA CO NM

Sample ID: S - 1 1-1.5' (H222319-01)

BTEX 8021B	mg/	'kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/02/2022	ND	2.15	107	2.00	7.50	
Toluene*	<0.050	0.050	06/02/2022	ND	2.13	107	2.00	7.78	
Ethylbenzene*	<0.050	0.050	06/02/2022	ND	2.04	102	2.00	7.10	
Total Xylenes*	<0.150	0.150	06/02/2022	ND	6.34	106	6.00	7.53	
Total BTEX	<0.300	0.300	06/02/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.2	% 69.9-14	0						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	06/02/2022	ND	432	108	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/02/2022	ND	191	95.3	200	0.358	
DRO >C10-C28*	<10.0	10.0	06/02/2022	ND	204	102	200	0.588	
EXT DRO >C28-C36	<10.0	10.0	06/02/2022	ND					
Surrogate: 1-Chlorooctane	82.3	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	91.6	% 59.5-14	2						

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Celey D. Keene



Analytical Results For:

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

Received: 06/01/2022 Reported:

06/03/2022

MESQUITE VACA DRAW BATTERY ROW

Project Number: (M.V.D.B.)

Project Location: CIMAREX - LEA CO NM Sampling Date: 05/31/2022

Sampling Type: Soil

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

Sample ID: S - 2 1-1.5' (H222319-02)

Project Name:

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/02/2022	ND	2.15	107	2.00	7.50	
Toluene*	<0.050	0.050	06/02/2022	ND	2.13	107	2.00	7.78	
Ethylbenzene*	<0.050	0.050	06/02/2022	ND	2.04	102	2.00	7.10	
Total Xylenes*	<0.150	0.150	06/02/2022	ND	6.34	106	6.00	7.53	
Total BTEX	<0.300	0.300	06/02/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	06/02/2022	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/02/2022	ND	191	95.3	200	0.358	
DRO >C10-C28*	<10.0	10.0	06/02/2022	ND	204	102	200	0.588	
EXT DRO >C28-C36	<10.0	10.0	06/02/2022	ND					
Surrogate: 1-Chlorooctane	79.1	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	87.7	% 59.5-14	2						

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Analytical Results For:

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

Received: 06/01/2022 Reported: 06/03/2022

06/03/2022

Project Name: MESQUITE VACA DRAW BATTERY ROW Project Number: (M.V.D.B.)

Project Location: CIMAREX - LEA CO NM

Sampling Date: 05/31/2022

Sampling Type: Soil

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

Sample ID: S - 3 1-1.5' (H222319-03)

BTEX 8021B	mg	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/02/2022	ND	2.15	107	2.00	7.50	
Toluene*	<0.050	0.050	06/02/2022	ND	2.13	107	2.00	7.78	
Ethylbenzene*	<0.050	0.050	06/02/2022	ND	2.04	102	2.00	7.10	
Total Xylenes*	<0.150	0.150	06/02/2022	ND	6.34	106	6.00	7.53	
Total BTEX	<0.300	0.300	06/02/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.2	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	06/02/2022	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/02/2022	ND	191	95.3	200	0.358	
DRO >C10-C28*	<10.0	10.0	06/02/2022	ND	204	102	200	0.588	
EXT DRO >C28-C36	<10.0	10.0	06/02/2022	ND					
Surrogate: 1-Chlorooctane	79.7	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	89.0	% 59.5-14	22						

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Analytical Results For:

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

Received: 06/01/2022 Reported: 06/03/2022

06/03/2022 MESQUITE VACA DRAW BATTERY ROW

Project Number: (M.V.D.B.)

Project Location: CIMAREX - LEA CO NM

Sampling Date: 05/31/2022

Sampling Type: Soil

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

Sample ID: S - 4 1-1.5' (H222319-04)

Project Name:

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/02/2022	ND	2.15	107	2.00	7.50	
Toluene*	<0.050	0.050	06/02/2022	ND	2.13	107	2.00	7.78	
Ethylbenzene*	<0.050	0.050	06/02/2022	ND	2.04	102	2.00	7.10	
Total Xylenes*	<0.150	0.150	06/02/2022	ND	6.34	106	6.00	7.53	
Total BTEX	<0.300	0.300	06/02/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.7	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	06/02/2022	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/02/2022	ND	191	95.3	200	0.358	
DRO >C10-C28*	<10.0	10.0	06/02/2022	ND	204	102	200	0.588	
EXT DRO >C28-C36	<10.0	10.0	06/02/2022	ND					
Surrogate: 1-Chlorooctane	81.0	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	90.6	% 59.5-14	22						

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Analytical Results For:

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

Received: 06/01/2022 Reported:

06/03/2022

Project Name: MESQUITE VACA DRAW BATTERY ROW

Project Number: (M.V.D.B.)

Project Location: CIMAREX - LEA CO NM Sampling Date: 05/31/2022

Sampling Type: Soil

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

Sample ID: S - 5 4' (H222319-05)

BTEX 8021B	mg	/kg	Analyze	ed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/02/2022	ND	2.15	107	2.00	7.50	
Toluene*	<0.050	0.050	06/02/2022	ND	2.13	107	2.00	7.78	
Ethylbenzene*	<0.050	0.050	06/02/2022	ND	2.04	102	2.00	7.10	
Total Xylenes*	<0.150	0.150	06/02/2022	ND	6.34	106	6.00	7.53	
Total BTEX	<0.300	0.300	06/02/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.8	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3680	16.0	06/02/2022	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/02/2022	ND	191	95.3	200	0.358	
DRO >C10-C28*	<10.0	10.0	06/02/2022	ND	204	102	200	0.588	
EXT DRO >C28-C36	<10.0	10.0	06/02/2022	ND					
Surrogate: 1-Chlorooctane	76.2	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	86.0	% 59.5-14	2						

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Analytical Results For:

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

Received: 06/01/2022 Reported:

06/03/2022

ma/ka

Project Name: MESQUITE VACA DRAW BATTERY ROW Project Number: (M.V.D.B.)

Project Location: CIMAREX - LEA CO NM Sampling Date: 05/31/2022

Sampling Type: Soil

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

Sample ID: S - 6 4' (H222319-06)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/02/2022	ND	2.15	107	2.00	7.50	
Toluene*	<0.050	0.050	06/02/2022	ND	2.13	107	2.00	7.78	
Ethylbenzene*	<0.050	0.050	06/02/2022	ND	2.04	102	2.00	7.10	
Total Xylenes*	<0.150	0.150	06/02/2022	ND	6.34	106	6.00	7.53	
Total BTEX	<0.300	0.300	06/02/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.4	% 69.9-14	0						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2880	16.0	06/02/2022	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/02/2022	ND	191	95.3	200	0.358	
DRO >C10-C28*	<10.0	10.0	06/02/2022	ND	204	102	200	0.588	
EXT DRO >C28-C36	<10.0	10.0	06/02/2022	ND					
Surrogate: 1-Chlorooctane	77.0	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	86.7	% 59.5-14	22						

Applyzod By: 1H /

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Analytical Results For:

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

Received: 06/01/2022 Reported:

06/03/2022 MESQUITE VACA DRAW BATTERY ROW

Project Name: Project Number: (M.V.D.B.)

Project Location: CIMAREX - LEA CO NM Sampling Date: 05/31/2022

Sampling Type: Soil

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

Sample ID: S - 7 4' (H222319-07)

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	06/02/2022	ND	2.15	107	2.00	7.50	
Toluene*	<0.050	0.050	06/02/2022	ND	2.13	107	2.00	7.78	
Ethylbenzene*	<0.050	0.050	06/02/2022	ND	2.04	102	2.00	7.10	
Total Xylenes*	<0.150	0.150	06/02/2022	ND	6.34	106	6.00	7.53	
Total BTEX	<0.300	0.300	06/02/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.0	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4280	16.0	06/02/2022	ND	432	108	400	7.69	QM-07
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/02/2022	ND	191	95.3	200	0.358	
DRO >C10-C28*	<10.0	10.0	06/02/2022	ND	204	102	200	0.588	
EXT DRO >C28-C36	<10.0	10.0	06/02/2022	ND					
Surrogate: 1-Chlorooctane	76.5	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	85.1	% 59.5-14	2						

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Analytical Results For:

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

Received: 06/01/2022 Reported: 06/03/2022

06/03/2022 MESQUITE VACA DRAW BATTERY ROW

mg/kg

Project Name: MESQUITE \
Project Number: (M.V.D.B.)

Project Location: CIMAREX - LEA CO NM

Sampling Date: 05/31/2022

Sampling Type: Soil

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

Sample ID: S - 8 4' (H222319-08)

BTEX 8021B

	9,	9	7	7: 5::.,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/02/2022	ND	2.15	107	2.00	7.50	
Toluene*	<0.050	0.050	06/02/2022	ND	2.13	107	2.00	7.78	
Ethylbenzene*	<0.050	0.050	06/02/2022	ND	2.04	102	2.00	7.10	
Total Xylenes*	<0.150	0.150	06/02/2022	ND	6.34	106	6.00	7.53	
Total BTEX	<0.300	0.300	06/02/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4960	16.0	06/02/2022	ND	432	108	400	7.69	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/02/2022	ND	191	95.3	200	0.358	
DRO >C10-C28*	<10.0	10.0	06/02/2022	ND	204	102	200	0.588	
EXT DRO >C28-C36	<10.0	10.0	06/02/2022	ND					
Surrogate: 1-Chlorooctane	72.3	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	82.1	% 59.5-14	2						

Analyzed By: JH/

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Analytical Results For:

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

Received: 06/01/2022 Reported:

06/03/2022 MESQUITE VACA DRAW BATTERY ROW

Project Name: Project Number: (M.V.D.B.)

Project Location: CIMAREX - LEA CO NM Sampling Date: 05/31/2022

Sampling Type: Soil

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

Sample ID: S - 9 4' (H222319-09)

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	06/02/2022	ND	2.15	107	2.00	7.50	
Toluene*	<0.050	0.050	06/02/2022	ND	2.13	107	2.00	7.78	
Ethylbenzene*	<0.050	0.050	06/02/2022	ND	2.04	102	2.00	7.10	
Total Xylenes*	<0.150	0.150	06/02/2022	ND	6.34	106	6.00	7.53	
Total BTEX	<0.300	0.300	06/02/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.1	% 69.9-14	0						
Chloride, SM4500CI-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2760	16.0	06/02/2022	ND	432	108	400	7.69	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/02/2022	ND	191	95.3	200	0.358	
DRO >C10-C28*	<10.0	10.0	06/02/2022	ND	204	102	200	0.588	
EXT DRO >C28-C36	<10.0	10.0	06/02/2022	ND					
Surrogate: 1-Chlorooctane	76.2	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	85.7	% 59.5-14	2						

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Analytical Results For:

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

Received: 06/01/2022 Reported:

Sampling Date: 05/31/2022 06/03/2022 Sampling Type:

Project Name: MESQUITE VACA DRAW BATTERY ROW Project Number: (M.V.D.B.)

Project Location: CIMAREX - LEA CO NM

Soil Sampling Condition: Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: N.SW 1-1.5' (H222319-10)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/02/2022	ND	2.15	107	2.00	7.50	
Toluene*	<0.050	0.050	06/02/2022	ND	2.13	107	2.00	7.78	
Ethylbenzene*	<0.050	0.050	06/02/2022	ND	2.04	102	2.00	7.10	
Total Xylenes*	<0.150	0.150	06/02/2022	ND	6.34	106	6.00	7.53	
Total BTEX	<0.300	0.300	06/02/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.1	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/02/2022	ND	432	108	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/02/2022	ND	191	95.3	200	0.358	
DRO >C10-C28*	<10.0	10.0	06/02/2022	ND	204	102	200	0.588	
EXT DRO >C28-C36	<10.0	10.0	06/02/2022	ND					
Surrogate: 1-Chlorooctane	74.9	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	83.4	% 59.5-14	2						

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Analytical Results For:

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

Received: 06/01/2022 Reported:

06/03/2022

ma/ka

Project Name: MESQUITE VACA DRAW BATTERY ROW Project Number: (M.V.D.B.)

Project Location: CIMAREX - LEA CO NM Sampling Date: 05/31/2022

Sampling Type: Soil

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

Sample ID: S.SW 4' (H222319-11)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/02/2022	ND	2.15	107	2.00	7.50	
Toluene*	<0.050	0.050	06/02/2022	ND	2.13	107	2.00	7.78	
Ethylbenzene*	<0.050	0.050	06/02/2022	ND	2.04	102	2.00	7.10	
Total Xylenes*	<0.150	0.150	06/02/2022	ND	6.34	106	6.00	7.53	
Total BTEX	<0.300	0.300	06/02/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.3	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	06/02/2022	ND	432	108	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/02/2022	ND	191	95.3	200	0.358	
DRO >C10-C28*	<10.0	10.0	06/02/2022	ND	204	102	200	0.588	
EXT DRO >C28-C36	<10.0	10.0	06/02/2022	ND					
Surrogate: 1-Chlorooctane	73.9	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	82.4	% 59.5-14	2						

Applyzod By: 1H /

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Analytical Results For:

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

Received: 06/01/2022 Reported:

06/03/2022

MESQUITE VACA DRAW BATTERY ROW

Project Number: (M.V.D.B.)

Project Name:

RTFY 8021R

Project Location: CIMAREX - LEA CO NM Sampling Date: 05/31/2022

Sampling Type: Soil

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

Sample ID: E.SW - 1 1-1.5' (H222319-12)

B1EX 8021B	mg/	кg	Апануге	a By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/02/2022	ND	2.15	107	2.00	7.50	
Toluene*	<0.050	0.050	06/02/2022	ND	2.13	107	2.00	7.78	
Ethylbenzene*	<0.050	0.050	06/02/2022	ND	2.04	102	2.00	7.10	
Total Xylenes*	<0.150	0.150	06/02/2022	ND	6.34	106	6.00	7.53	
Total BTEX	<0.300	0.300	06/02/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.9	% 69.9-14	0						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/02/2022	ND	432	108	400	7.69	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/02/2022	ND	191	95.3	200	0.358	
DRO >C10-C28*	<10.0	10.0	06/02/2022	ND	204	102	200	0.588	
EXT DRO >C28-C36	<10.0	10.0	06/02/2022	ND					
Surrogate: 1-Chlorooctane	75.1	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	84.0	% 59.5-14	2						

Applyzod By: 1H /

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Analytical Results For:

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

Received: 06/01/2022 Reported: 06/03/2022

06/03/2022

Project Name: MESQUITE VACA DRAW BATTERY ROW

Project Number: (M.V.D.B.)

Project Location: CIMAREX - LEA CO NM

Sampling Date: 05/31/2022

Sampling Type: Soil

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

Sample ID: E.SW - 2 4' (H222319-13)

BTEX 8021B	mg	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/02/2022	ND	2.15	107	2.00	7.50	
Toluene*	<0.050	0.050	06/02/2022	ND	2.13	107	2.00	7.78	
Ethylbenzene*	<0.050	0.050	06/02/2022	ND	2.04	102	2.00	7.10	
Total Xylenes*	<0.150	0.150	06/02/2022	ND	6.34	106	6.00	7.53	
Total BTEX	<0.300	0.300	06/02/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.9	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	06/02/2022	ND	432	108	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/02/2022	ND	191	95.3	200	0.358	
DRO >C10-C28*	<10.0	10.0	06/02/2022	ND	204	102	200	0.588	
EXT DRO >C28-C36	<10.0	10.0	06/02/2022	ND					
Surrogate: 1-Chlorooctane	74.7	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	83.1	% 59.5-14	12						

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Analytical Results For:

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

Received: 06/01/2022 Reported:

06/03/2022

MESQUITE VACA DRAW BATTERY ROW

Project Number: (M.V.D.B.)

Project Name:

Project Location: CIMAREX - LEA CO NM Sampling Date: 05/31/2022

Sampling Type: Soil

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

Sample ID: W.SW-1 1-1.5' (H222319-14)

BTEX 8021B	mg	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/02/2022	ND	2.15	107	2.00	7.50	
Toluene*	<0.050	0.050	06/02/2022	ND	2.13	107	2.00	7.78	
Ethylbenzene*	<0.050	0.050	06/02/2022	ND	2.04	102	2.00	7.10	
Total Xylenes*	<0.150	0.150	06/02/2022	ND	6.34	106	6.00	7.53	
Total BTEX	<0.300	0.300	06/02/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.0	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	06/02/2022	ND	432	108	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/02/2022	ND	191	95.3	200	0.358	
DRO >C10-C28*	<10.0	10.0	06/02/2022	ND	204	102	200	0.588	
EXT DRO >C28-C36	<10.0	10.0	06/02/2022	ND					
Surrogate: 1-Chlorooctane	75.7	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	84.1	% 59.5-14	12						

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Analytical Results For:

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

Received: 06/01/2022 Reported:

06/03/2022

MESQUITE VACA DRAW BATTERY ROW

Project Number: (M.V.D.B.)

Project Location: CIMAREX - LEA CO NM Sampling Date: 05/31/2022

Sampling Type: Soil

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

Sample ID: W.SW-2 4' (H222319-15)

Project Name:

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/02/2022	ND	2.15	107	2.00	7.50	
Toluene*	<0.050	0.050	06/02/2022	ND	2.13	107	2.00	7.78	
Ethylbenzene*	<0.050	0.050	06/02/2022	ND	2.04	102	2.00	7.10	
Total Xylenes*	<0.150	0.150	06/02/2022	ND	6.34	106	6.00	7.53	
Total BTEX	<0.300	0.300	06/02/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.8	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	06/02/2022	ND	432	108	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/02/2022	ND	191	95.3	200	0.358	
DRO >C10-C28*	<10.0	10.0	06/02/2022	ND	204	102	200	0.588	
EXT DRO >C28-C36	<10.0	10.0	06/02/2022	ND					
Surrogate: 1-Chlorooctane	78.4	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	88.0	% 59.5-14	2						

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Analytical Results For:

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

Received: 06/01/2022 Reported:

06/03/2022

Project Name: MESQUITE VACA DRAW BATTERY ROW Project Number: (M.V.D.B.)

Project Location: CIMAREX - LEA CO NM Sampling Date: 05/31/2022

Sampling Type: Soil

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

Sample ID: BG - 1 0-1' (H222319-16)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/02/2022	ND	2.15	107	2.00	7.50	
Toluene*	<0.050	0.050	06/02/2022	ND	2.13	107	2.00	7.78	
Ethylbenzene*	<0.050	0.050	06/02/2022	ND	2.04	102	2.00	7.10	
Total Xylenes*	<0.150	0.150	06/02/2022	ND	6.34	106	6.00	7.53	
Total BTEX	<0.300	0.300	06/02/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/02/2022	ND	432	108	400	7.69	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/02/2022	ND	191	95.3	200	0.358	
DRO >C10-C28*	<10.0	10.0	06/02/2022	ND	204	102	200	0.588	
EXT DRO >C28-C36	<10.0	10.0	06/02/2022	ND					
Surrogate: 1-Chlorooctane	77.6	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	86.9	% 59.5-14	2						

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Analytical Results For:

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

Received: 06/01/2022 Reported: 06/03/2022

06/03/2022 MESQUITE VACA DRAW BATTERY ROW

Project Name: MESQUITE V Project Number: (M.V.D.B.)

Project Location: CIMAREX - LEA CO NM

Sampling Date: 05/31/2022

Sampling Type: Soil

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

Sample ID: BG - 2 0-1' (H222319-17)

BTEX 8021B	mg	/kg	Analyze	ed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/02/2022	ND	2.15	107	2.00	7.50	
Toluene*	<0.050	0.050	06/02/2022	ND	2.13	107	2.00	7.78	
Ethylbenzene*	<0.050	0.050	06/02/2022	ND	2.04	102	2.00	7.10	
Total Xylenes*	<0.150	0.150	06/02/2022	ND	6.34	106	6.00	7.53	
Total BTEX	<0.300	0.300	06/02/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/02/2022	ND	432	108	400	7.69	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/02/2022	ND	191	95.3	200	0.358	
DRO >C10-C28*	<10.0	10.0	06/02/2022	ND	204	102	200	0.588	
EXT DRO >C28-C36	<10.0	10.0	06/02/2022	ND					
Surrogate: 1-Chlorooctane	76.7	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	85.8	% 59.5-14	2						

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Analytical Results For:

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

Received: 06/01/2022 Reported: 06/03/2022

06/03/2022

Project Name: MESQUITE VACA DRAW BATTERY ROW Project Number: (M.V.D.B.)

Project Location: CIMAREX - LEA CO NM

Sampling Date: 05/31/2022

Sampling Type: Soil

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

Sample ID: BG - 3 0-1' (H222319-18)

BTEX 8021B	mg	/kg	Analyze	ed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/02/2022	ND	2.15	107	2.00	7.50	
Toluene*	<0.050	0.050	06/02/2022	ND	2.13	107	2.00	7.78	
Ethylbenzene*	<0.050	0.050	06/02/2022	ND	2.04	102	2.00	7.10	
Total Xylenes*	<0.150	0.150	06/02/2022	ND	6.34	106	6.00	7.53	
Total BTEX	<0.300	0.300	06/02/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.0	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/02/2022	ND	432	108	400	7.69	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/02/2022	ND	191	95.3	200	0.358	
DRO >C10-C28*	<10.0	10.0	06/02/2022	ND	204	102	200	0.588	
EXT DRO >C28-C36	<10.0	10.0	06/02/2022	ND					
Surrogate: 1-Chlorooctane	81.4	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	91.0	% 59.5-14	22						

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Analytical Results For:

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

Received: 06/01/2022 Reported:

Sampling Date: 05/31/2022 06/03/2022 Sampling Type: Soil

Project Name: MESQUITE VACA DRAW BATTERY ROW

Sampling Condition: Cool & Intact Project Number: (M.V.D.B.) Sample Received By: Tamara Oldaker

Project Location: CIMAREX - LEA CO NM

Sample ID: BG - 4 0-1' (H222319-19)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/02/2022	ND	2.15	107	2.00	7.50	
Toluene*	<0.050	0.050	06/02/2022	ND	2.13	107	2.00	7.78	
Ethylbenzene*	<0.050	0.050	06/02/2022	ND	2.04	102	2.00	7.10	
Total Xylenes*	<0.150	0.150	06/02/2022	ND	6.34	106	6.00	7.53	
Total BTEX	<0.300	0.300	06/02/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.7	% 69.9-14	0						
Chloride, SM4500CI-B mg/kg		/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/02/2022	ND	432	108	400	7.69	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/02/2022	ND	191	95.3	200	0.358	
DRO >C10-C28*	<10.0	10.0	06/02/2022	ND	204	102	200	0.588	
EXT DRO >C28-C36	<10.0	10.0	06/02/2022	ND					
Surrogate: 1-Chlorooctane	81.3	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	91.0	% 59.5-14	2						

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Celey D. Keene



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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Celeg & Freene



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: H&R Enterprises			BILL TO	0	AN	ANALYSIS REDIJEST
Project Manager: Michael Collier			P.O.#:			
Address:			Company: Cimarex Energy	nergy	_	
Crry:	State: Zip:		Attn: Laci Luig		_	
Droine #.	Fax#:		Address:			
Project Name: Monthly	Project Owner: Cimarex Energy	larex Energy	City:		_	
Project Name: Mesquite Vaca Draw Battery ROW (M.V.D.B.)	ery ROW (M.V.D.B.)		State: Zip:		_	_
Project Location: Lea County, NM			*		_	_
Sampler Name: M.Collier			Fax#:			
FOR UNB USE ONLY		1				
Lab I.D.	Р.	MATRIX	PRESERV. SA	SAMPLING		
Sample I.D.	R (C)OMP	WATER			es	
422239	G)RAB O	VASTEWA OIL DIL LUDGE	THER: CID/BASE CE / COOI THER:		PH hloride	
S-1 1-1.5	+	G N S	AC IC	TIME		
Z S-2 1-1.5'		^	X 5-31-11	X	XX	
3 S-3 1-1.5'					-	
S 8-5 4'						
6 8-6 4'						
7 8-7 4						
8 8-8 4'						
9 8-9 4						
0 N.SW 1-1.5	-					
covers not a commy ser Central's laiding and durith section's minely for any distin ratingly plants based in contract or fort, shad be limited to the decided be included as consequently distingted, noticely without limitation, business Herroptoms, board care, or less of profits incurred by district, as specialistics; efficient or successors arising out of or related to the performance of services hereunder by Cardinal, impartises of whether such datin is based upon any of the done action in section hereunder by Cardinal, impartises of whether such datin is based upon any of the done action in section in the contract of the contract of services hereunder by Cardinal, impartises of whether such datin is based upon any of the done action in section of the contract of the con	e nemely for any cities entaing whether based in controlled by the controlled without limitation, business interruptions, riches hereunder by Cardinal, regardless of whether the controlled by Cardinal, regardless of the controlled by Cardinal, regardless of the controlled by Cardinal, regardless of the controlled by Cardinal, regardless of the controlled by Cardinal, regardless of the controlled by Cardinal, regardless of the controlled by Cardinal, regardless of the controlled by Cardinal, regardless of the controlled by Cardinal, regardless of the controlled by Cardinal, regardless of the controlled by Cardinal, regardless of the controlled by Cardinal, regardless of the controlled by Cardinal, regardless of the controlled by Cardinal, regardless of the controlled by Cardinal, regardless of the controlled by Cardinal, regardless of the controlled by Cardinal, regardless of the controlled by Cardinal, regardless of the controlled by Cardinal, regardless of the controlled by Cardin	act or tort, shall be limited to the amount loss of use, or loss of profits incurred her such claim is based upon any of t	paid by the disest for the stratyness. All claims by claimt, the subsidiaries, he above statled reasons or otherwise.	ains including those for negligence and any other cause	Whiteoo	we shall be deemed waterd unless made in writing and received by Cardinal within 30 days after
MALL Relinquished B.	4350	Enwara 1	Maky	Verbal Result: ☐ Yes ☐ No Add'ti Ph. All Results are emailed. Please provide Email address:	. Please provide Emai	Add'l Phone #:
annique by	Time:	ed By:	1	REMARKS: PAGE 1 of 2	2 (48HR RUSH	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C 3.0 Corrected Temp. °C 3.5	Sample Condition Cool Mact	CHECKED BY: (Initials)	Tunuround Time: Standard Rush Cool Intact	Bacteria (only) Observed Temp. 'C	Sample Condition
		No No	76	Thermometer ID #113 Correction Factor -0.5°C		O Yes O Yes

Page 22 of 23

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

The same of the sa	(575) 393-2326 FAX (575) 393-2476	93-2476														
company Name:	Company Name: nak Enterprises					BILL TO	,			A	ALYSI	ANALYSIS REQUEST	JEST			
Project Manager: Michael Collier	Michael Collier				P.O. #:					+				1		-
Address:					Company	Company: Cimarex Energy	ergy	_		_				_		_
City:	State:	Zip:			Attn: Laci Luig	Luig			_	_				_		_
Phone #:	Fax#:				Address:			_	_	_	_					_
Project #:	Project O	Project Owner: Cimarex Energy	rex Energy		City:			_		_	_					
roject Name: Me	Project Name: Mesquite Vaca Draw Battery ROW (M.V.D.B.)	5			State:	Zip:		_		_				_		
Project Location: Lea County, NM	Lea County, NM				Phone #:			_		_	_			_		
Sampler Name: M.Collier	Collier				Fax#:			_	_	_			_			
ATMO SEN BYT BOA		-			2000			_	_	_			_	_		
Lab I.D.		IP.	M	MATRIX	PRESERV.	+	SAMPLING						_			
	Sample I.D.	B OR (C)OM	NDWATER		ASE:	0				ides						
11522	0.000	-		OIL	OTHE ACID/	DATE	TIME	вте	ТРН	Chlo			_			
	E CW 4	CI	X		X	5-31-22	_	X	×	X			+	+	+	1
_	E.SW-1 1-1.5'					-		-	-	- 1			+	1	+	
14	W.SW-1 1-1 5'					-										
151	W.SW-2 4'			-		-	T									
16	BG-1 0-1'					+	T			-		L	-	H		
17	BG-2 0-1'					+	T			+			+	T		
181	BG-3 0-1'				#	+		+		+	İ		-			
191	BG-4 0-1"	-				+		-		+	İ		+	t	-	
PLEASE NOTE: Liability and Damay event shall Cardinal be liable for it affiliates or successors arising ou	REASER HOTE: Liability and Damigue. Content's saidility and ident's walchin versing the any dates socially end also accept place of the content or bot, shall be finand us the amount paid by the dest to the analyses. All claims including those for negligence and any other capas enter shall Content to the content or conceptual dates and a content or bot, business extenditions, business ext	ther based in contract ess interruptions, los gardiess of whether	t or bot, shall be limb as of case, or loas of r such claim is base	ad to the amount p r profits incurred ad upon any of th	ed by the oliard for by client, its subju- se above stated ra-	the analyses, All claim disries, esconderates	ns including those to	r ragigence and	any other cau	hatsoever	hall by description	walved unless	made in writin	g and received	abid to deemed waived unless made in writing and received by Cardinal within 30 days after on	30 days after con
Relinquished By	Date: (-32	Received By	By:	100	a		Verbal Result: ☐ Yes ☐ No Add'i Ph. All Results are emailed. Please provide Email address:	It: Yes	Please pr	ovide Ema	Add'l Phone #:	hone #:				
wannique by.	Time:	Received By:	аву:			1	REMARKS: PAGE 2 of 2	AGE 2 of 2	7	49HR RUSH						
Delivered By: (Circle One) Sampler - UPS - Bus - Other.	Other: Other: Corrected Temp. *C 3.0	20	Sample Condition Cool Intact Yes Yes	ondition act	CHECKEI (Initial	CHECKED BY: (Initials)	Tunuirouse Time: Standa Ross Cool insu Thermometer ID #113 Correction Factor -0.5°C	Standard Cool Intact D #113 tor -0.5°C	Bacteria (or Observed Temp. 'C	dy) Sam	şle Condition	_ γ _{es} γ _{es}				
FORM-006 R 3.2 10/07/21	3.2 10/07/21											ON ON	Corrected Temp. "C	ong. 'C		

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

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

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

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

COMMENTS

Action 124824

COMMENTS

Operator:	OGRID:
CIMAREX ENERGY CO.	215099
600 N. Marienfeld Street	Action Number:
Midland, TX 79701	124824
	Action Type:
	[C-141] Release Corrective Action (C-141)

COMMENTS

Created By	Comment	Comment Date
jharimon	Initial to Closure	7/13/2022

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CONDITIONS

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Created By		Condition Date
jnobui	Closure Report Approved.	7/13/2022