



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

## Remediation and Closure Report

Dos Equis 11-14 Federal Com #025H  
Incident# nAPP2215863582  
Lea County, New Mexico

### Prepared For:

Cimarex Energy Co.  
6000 Deauville Blvd. Suite 300N  
Midland, TX 79706

### Prepared By:

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

**June 29, 2023**

Mr. Mike Bratcher  
**NMOCD**  
1220 S. St. Francis Dr.  
Santa Fe, NM 87505

Subject: **Remediation and Closure Report**  
Dos Equis 11-14 Federal Com #025H  
Lea County, NM

Dear Mr. Bratcher,

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 Dos Equis 11-14 Federal Com #025H is located approximately 31.2 miles West of Jal, New Mexico. The legal location for this release is Unit Letter C, Section 11, Township 24 South and Range 32 East in Lea County, New Mexico. More specifically the latitude and longitude for the release are 32.237909 North and -103.64844 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 loamy fine sand, 0 to 3 percent slopes. The referenced soil data is attached in [Appendix II](#). Drainage courses in this area are typically dry. The project site is not located in a high Karst potential area (Karst Map, [Appendix I](#)).

### Groundwater and Site Characterization

The New Mexico Office of the State Engineer web site indicates that the nearest reported depth to groundwater is 133-feet below ground surface (BGS). See [Appendix II](#) for the referenced groundwater data.

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

<b>Approximate Depth to Groundwater</b>	<b>133 Feet/BGS</b>
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<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Within 300 feet of any continuously flowing watercourse or any other significant watercourse
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Within 200 feet of any lakebed, sinkhole, or a playa lake
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Within 300 feet from an occupied permanent residence, school, hospital, institution, or church
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Within 1000 feet of any freshwater well or spring
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Within incorporated municipal boundaries or within a defined municipal freshwater well field covered under a municipal ordinance adopted pursuant to Section 3-2703 NMSA 1978
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Within 300 feet of a wetland
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Within the area overlying a subsurface mine
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Within an unstable area
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Within a 100-year floodplain

Due to groundwater data not being within the recommended 0.5-mile radius an exploratory water bore was drilled on Dos Equis 11-14 Federal Com #025H well pad to a total depth of 105-feet BGS. No groundwater was encountered during drilling nor 72-hours after drilling occurred. The closure criteria for this site are as follows:

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

### Incident Description

On June 6, 2022, while transferring drilling fluid from the active system mud tanks to storage tanks, a hose burst and resulted in the loss of 20 barrels (bbls) of oil based mud onto the well pad. Of the 20 bbls released, a total of 12 bbls were recovered.

## Site Assessment and Reclamation Activities

H&R mobilized personnel to begin site assessment, sampling, and remediation activities of the release area. Grab samples were obtained by way of drilling sampling bore holes in the release area. Samples collected were transported to Cardinal Laboratory for analysis and the results of that analysis are presented in the following data table. Initial site assessment and sampling locations are illustrated on Site Assessment Map, [Appendix I](#). Before, during, and after photographs of the location are attached in [Appendix IV](#). Complete laboratory reports can be found in [Appendix V](#).

Table 1: Initial Soil Samples Analysis

Sample ID	Sample Date	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
NMOCD Table 1 Closure Criteria 19.15.29 NMAC			50 mg/kg	10 mg/kg	1000 mg/kg		2500 mg/kg	2500 mg/kg	20,000 mg/kg
BH-1	5/18/2023	0-1'	25.6	ND	78.4	3670	2210	5958.4	3920
		2'	ND	ND	ND	ND	ND	0	1440
		3'	ND	ND	ND	ND	ND	0	1090
		4'	ND	ND	ND	ND	ND	0	368
BH-2	5/18/2023	0-1'	ND	ND	ND	917	38.3	955.3	240
		2'	ND	ND	ND	ND	ND	0	48
		3'	ND	ND	ND	ND	ND	0	48
		4'	ND	ND	ND	ND	ND	0	96
BH-3	5/18/2023	0-1'	ND	ND	ND	54.5	ND	54.5	368
		2'	ND	ND	ND	ND	ND	0	80
		3'	ND	ND	ND	ND	ND	0	160
		4'	ND	ND	ND	ND	ND	0	80
H-1	5/18/2023	0-1'	ND	ND	ND	ND	ND	0	48
H-2	5/18/2023	0-1'	ND	ND	ND	ND	ND	0	32
H-3	5/18/2023	0-1'	ND	ND	ND	ND	ND	0	80
H-4	5/18/2023	0-1'	ND	ND	ND	ND	ND	0	80
H-5	5/18/2023	0-1'	ND	ND	ND	ND	ND	0	48

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

Based on the results of our site and upon client authorization, excavation activities of the impacted area commenced. Confirmation composite 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

Sample ID	Sample Date	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
NMOCD Table 1 Closure Criteria 19.15.29 NMAC			50 mg/kg	10 mg/kg	1000 mg/kg		2500 mg/kg	2500 mg/kg	20,000 mg/kg
S-1	6/13/2023	1.5'	ND	ND	ND	101	134	235	128
S-2	6/13/2023	1.5'	ND	ND	ND	97	109	206	128
S-3	6/13/2023	1.5'	ND	ND	ND	83.8	97.7	181.5	128
SW-1	6/13/2023	1.5'	ND	ND	ND	ND	ND	0	48
SW-2	6/13/2023	1.5'	ND	ND	ND	ND	ND	0	32
SW-3	6/13/2023	1.5'	ND	ND	ND	ND	ND	0	32

ND = Analyte Not Detected S = Bottom Sample SW = Sidewall Sample

### Remedial Actions

- The impacted area in the vicinity of sample point BH-1 was excavated to a total depth of 1.5-feet BGS.
- Composite confirmation samples were obtained from the sidewalls and bottom of the excavated areas to verify that all contaminants above closure criteria had been removed.
- All the excavated material (40yds) was hauled to R360, a NMOCD approved solid waste disposal facility.
- The excavated areas on the well pad were backfilled with new caliche at depth and brought to grade, machine compacted and contoured to match the surrounding location.
- The Final C-141 formally documenting the remedial actions is attached in [Appendix III](#).

## 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*

Michael Collier  
Environmental Project Manager

### Attachments:

Appendix I Site Maps

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

Appendix III Initial and Final C-141

Appendix IV Photographic Documentation

Appendix V Laboratory Reports

# APPENDIX I

## SITE MAPS

## KARST MAP

## TOPOGRAPHIC MAP

## LOCATOR MAP

# Dos Equis 11-14 Fed Com #025H

Cimarex Energy Co.  
Incident # nAPP2215863582  
Lea County, NM  
Site Assessment Map

**Legend**

-  Initial Spill Area
-  Horizontal Sample Point
-  Vertical Bore Hole Sample Point



Google Earth



100 ft

# Dos Equis 11-14 Fed Com #025H

Cimarex Energy Co.  
Incident # nAPP2215863582  
Lea County, NM  
Confirmation Sample Map

## Legend

-  1.5ft Excavation
-  Composite Confirmation Sample



Google Earth



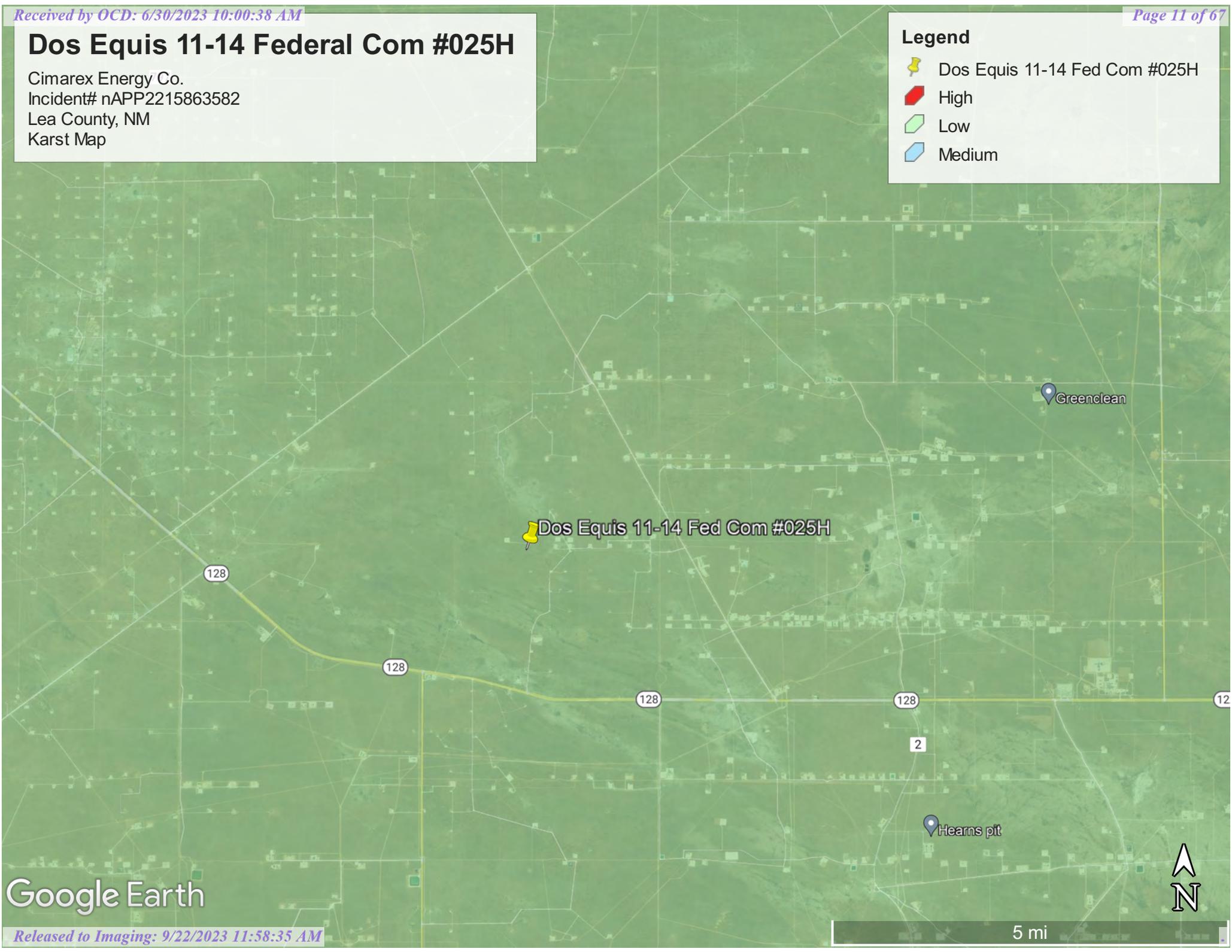
70 ft

# Dos Equis 11-14 Federal Com #025H

Cimarex Energy Co.  
Incident# nAPP2215863582  
Lea County, NM  
Karst Map

## Legend

-  Dos Equis 11-14 Fed Com #025H
-  High
-  Low
-  Medium



Google Earth

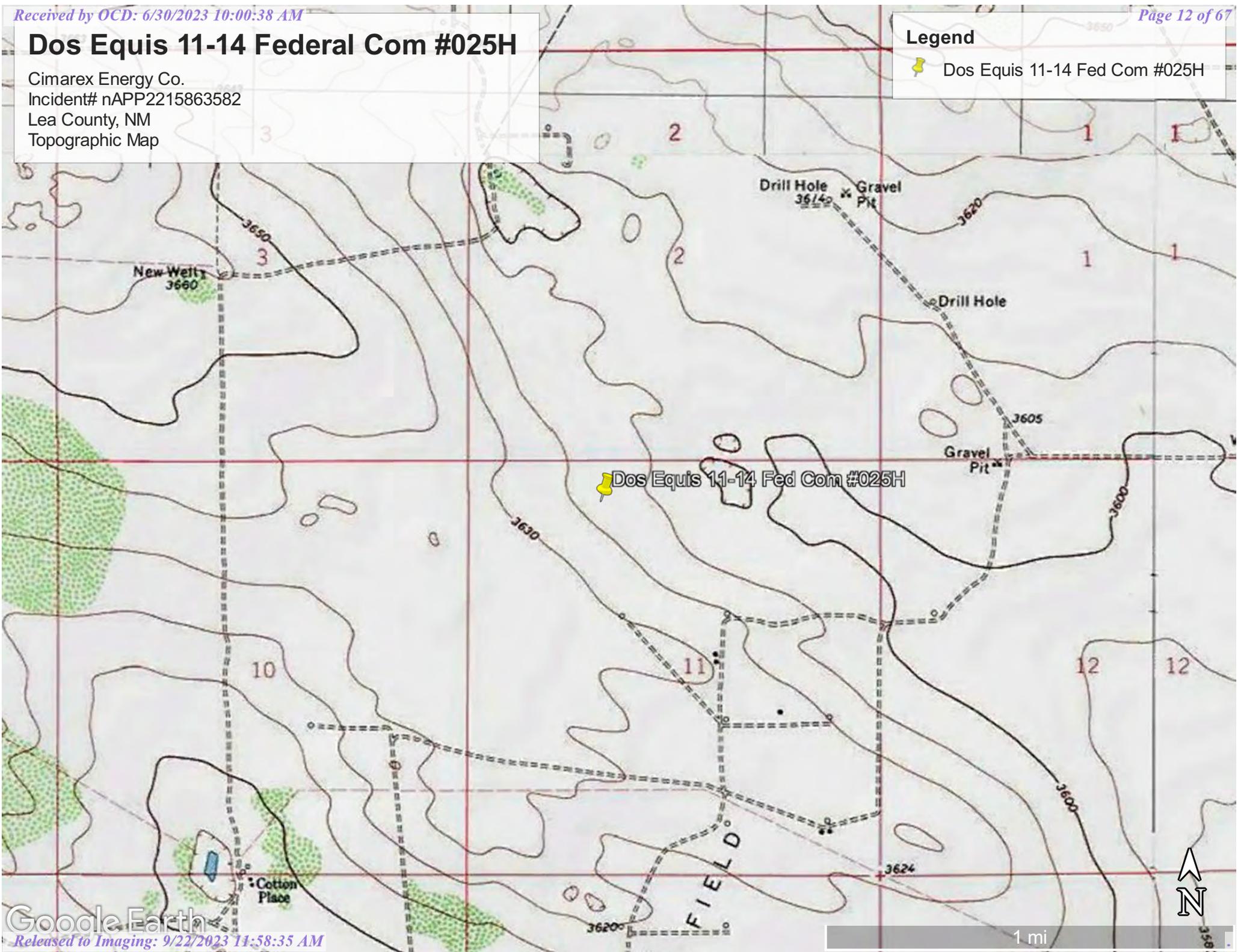
5 mi

# Dos Equis 11-14 Federal Com #025H

Cimarex Energy Co.  
Incident# nAPP2215863582  
Lea County, NM  
Topographic Map

## Legend

 Dos Equis 11-14 Fed Com #025H



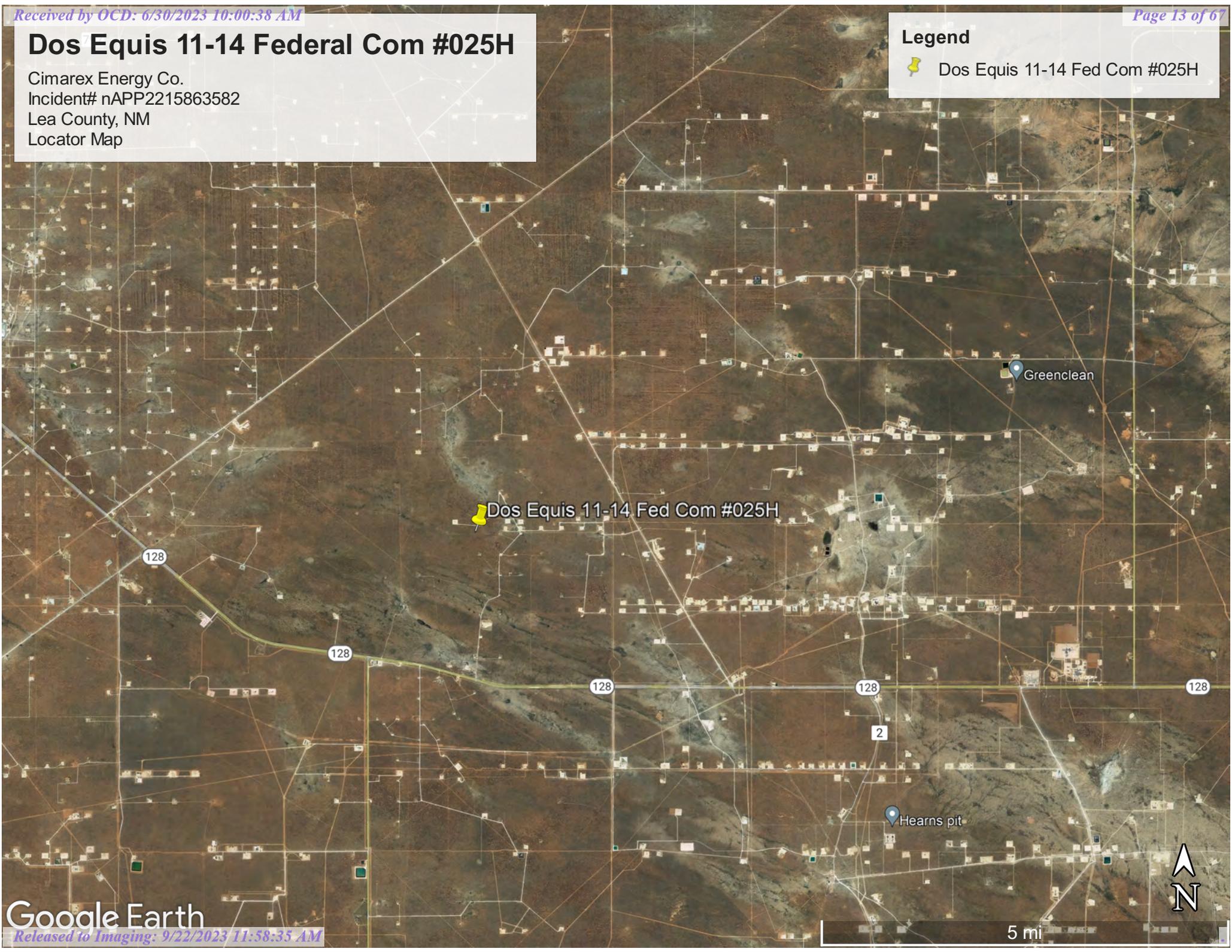
1 mi

# Dos Equis 11-14 Federal Com #025H

Cimarex Energy Co.  
Incident# nAPP2215863582  
Lea County, NM  
Locator Map

## Legend

 Dos Equis 11-14 Fed Com #025H



# APPENDIX II

## GROUNDWATER DATA

### SOIL SURVEY

### FEMA FLOOD ZONE

### WATER BORE MAP

### SOIL BORE LOG



# 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 Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
<a href="#">C_03527.POD1</a>		C	LE	1	2	3	03	24S	32E	625770	3568487	<input type="checkbox"/>	1796	500	
<a href="#">C_03528.POD1</a>		C	LE	1	1	2	15	24S	32E	626040	3566129	<input type="checkbox"/>	1966	541	133 408

Average Depth to Water: **133 feet**

Minimum Depth: **133 feet**

Maximum Depth: **133 feet**

**Record Count:** 2

**Basin/County Search:**

**County:** Lea

**UTMNAD83 Radius Search (in meters):**

**Easting (X):** 627336.45

**Northing (Y):** 3567607.86

**Radius:** 3000

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.

6/29/23 1:09 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

Map Unit Description: Pyote loamy fine sand---Lea County, New Mexico

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## 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

Map Unit Description: Pyote loamy fine sand---Lea County, New Mexico

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*Hydrologic Soil Group: A*  
*Ecological site: R070BD003NM - Loamy Sand*  
*Hydric soil rating: No*

**Minor Components**

**Maljamar**

*Percent of map unit: 8 percent*  
*Ecological site: R070BD003NM - Loamy Sand*  
*Hydric soil rating: No*

**Palomas**

*Percent of map unit: 7 percent*  
*Ecological site: R070BD003NM - Loamy Sand*  
*Hydric soil rating: No*

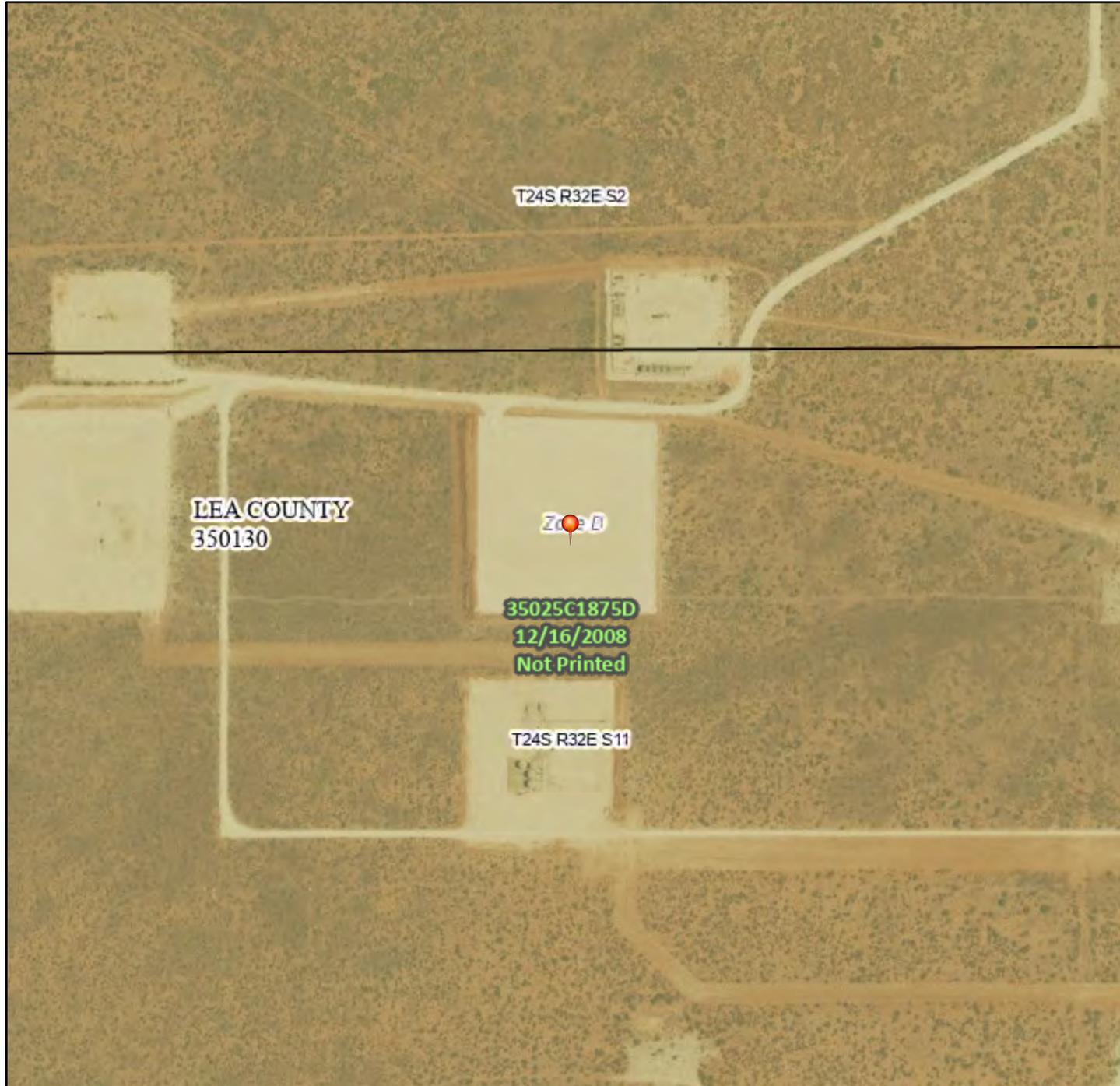
**Data Source Information**

Soil Survey Area: Lea County, New Mexico  
Survey Area Data: Version 19, Sep 8, 2022

# National Flood Hazard Layer FIRMMette



103°39'13"W 32°14'32"N



1:6,000

103°38'36"W 32°14'11"N

## Legend

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

<b>SPECIAL FLOOD HAZARD AREAS</b>		Without Base Flood Elevation (BFE) <i>Zone A, V, A99</i>
		With BFE or Depth <i>Zone AE, AO, AH, VE, AR</i> Regulatory Floodway
<b>OTHER AREAS OF FLOOD HAZARD</b>		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile <i>Zone X</i>
		Future Conditions 1% Annual Chance Flood Hazard <i>Zone X</i>
		Area with Reduced Flood Risk due to Levee. See Notes. <i>Zone X</i>
		Area with Flood Risk due to Levee <i>Zone D</i>
<b>OTHER AREAS</b>		NO SCREEN Area of Minimal Flood Hazard <i>Zone X</i>
		Effective LOMRs
<b>GENERAL STRUCTURES</b>		Area of Undetermined Flood Hazard <i>Zone D</i>
		Channel, Culvert, or Storm Sewer
<b>OTHER FEATURES</b>		Levee, Dike, or Floodwall
		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
<b>MAP PANELS</b>		17.5 Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
	Hydrographic Feature	
<b>MAP PANELS</b>		Digital Data Available
		No Digital Data Available
		Unmapped
	The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.	



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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 6/29/2023 at 3:12 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

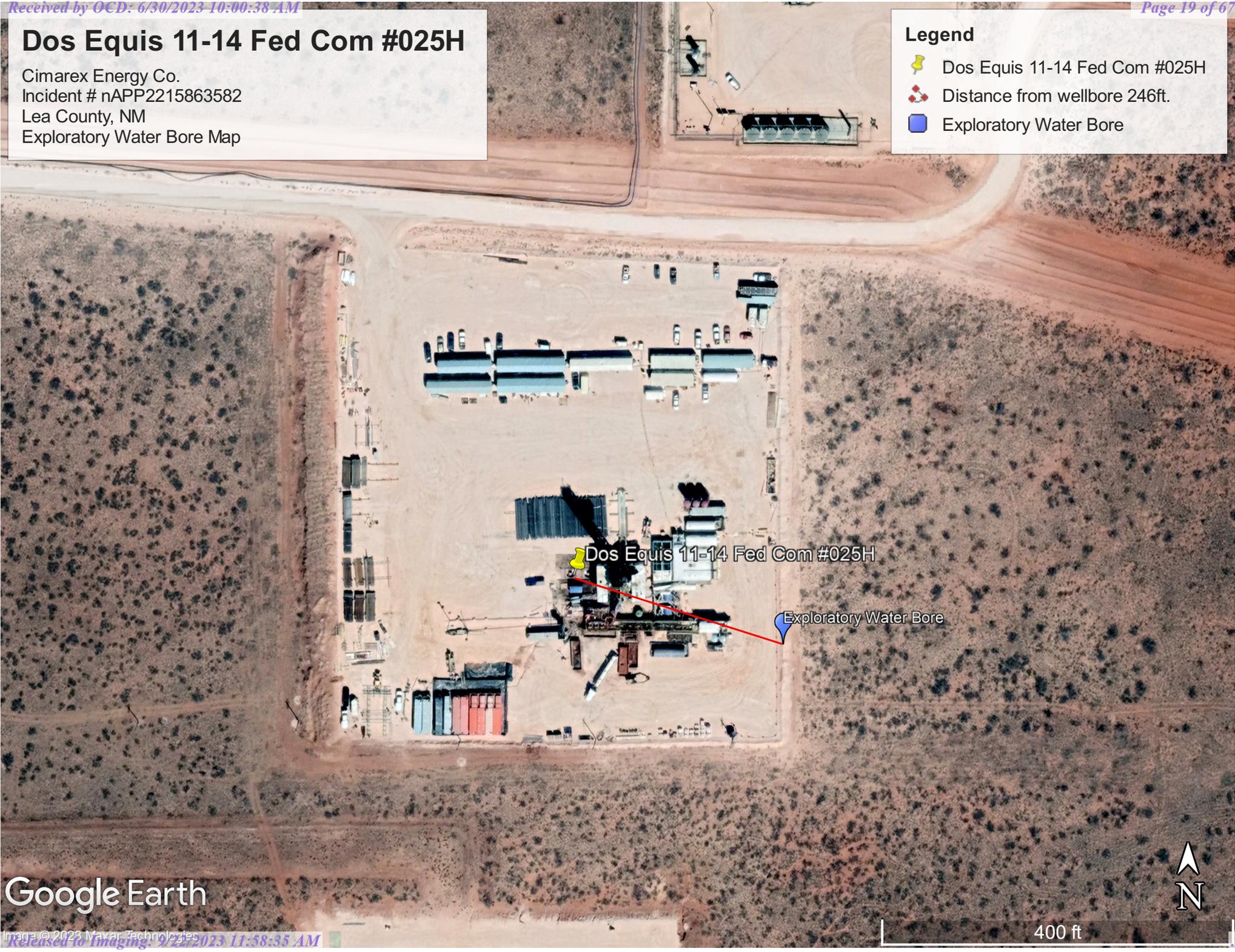
This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory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

# Dos Equis 11-14 Fed Com #025H

Cimarex Energy Co.  
Incident # nAPP2215863582  
Lea County, NM  
Exploratory Water Bore Map

## Legend

-  Dos Equis 11-14 Fed Com #025H
-  Distance from wellbore 246ft.
-  Exploratory Water Bore



Google Earth



400 ft

## SOIL BORE LOG

<b>Project:</b>	Dos Equis 11-14 Fed Com #025H	<b>Date:</b>	Jun 14, 2022
<b>Type:</b>	Exploratory Water Bore	<b>Location:</b>	Dos Equis 11-14 Fed Com #025H

Depth	Soil Type	Classification	Comments
0-5'	Caliche		
10'	Fine Sand		
15'	Fine Sand		
20'	Fine Sand		
25'	Fine Sand		
30'	Fine Sand		
35'	Fine Sand		
40'	Fine Sand		
45'	Fine Sand		
50'	Fine Sand		
55'	Fine Sand		
60'	Fine Sand		
65'	Fine Sand		
70'	Fine Sand		
75'	Fine Sand		
80'	Fine Sand		
85'	Fine Sand		
90'	Fine Sand		GPS: 32.237693,-103.64768
100-105'	Fine Sand		Total Depth 105' No GW 5-18-2023 No GW 5-21-23

# APPENDIX III

**INITIAL C-141**

**FINAL C-141**

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	nAPP2215863582
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party: Cimarex Energy Co.	OGRID: 215099
Contact Name: Laci Luig	Contact Telephone: (432) 571-7800
Contact email: laci.luig@coterra.com	Incident # (assigned by OCD) nAPP2215863582
Contact mailing address: 600 N Marienfeld Street, Ste. 600 Midland, TX 79701	

### Location of Release Source

Latitude 32.237909 \_\_\_\_\_ Longitude -103.64844 \_\_\_\_\_  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Dos Equis 11-14 Federal Com 25H	Site Type: Well Pad
Date Release Discovered: 6/6/2022	API# (if applicable) 30-025-47646

Unit Letter	Section	Township	Range	County
C	11	24S	32E	Lea

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

### Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input checked="" type="checkbox"/> Other (describe) Oil Based Mud	Volume/Weight Released (provide units) 20 bbls	Volume/Weight Recovered (provide units) 12 bbls

Cause of Release: Equipment Failure

While transferring drilling fluid from the active system mud tanks to storage tanks, a hose burst and resulted in the loss of 20 barrels of oil based mud onto the location pad. The crew members reacted quickly isolating valves and disengaging the pump to prevent further loss of product. Total of 12 barrels spilled material was picked up by a vacuum tanker. An environmental consultant will be contacted for remediation.

State of New Mexico  
Oil Conservation Division

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Incident ID	nAPP2215863582
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?  <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
---	--

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?  
 By: Tell Montoya  
 To: OCD Enviro, BLM  
 By: Email

### Initial Response

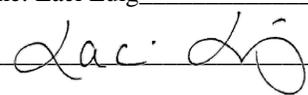
*The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury*

- The source of the release has been stopped.
- The impacted area has been secured to protect human health and the environment.
- Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
- All free liquids and recoverable materials have been removed and managed appropriately.

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

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

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

Printed Name: Laci Luig \_\_\_\_\_ Title: ESH Specialist \_\_\_\_\_  
 Signature:  \_\_\_\_\_ Date: 6/7/2022 \_\_\_\_\_  
 email: laci.luig@coterra.com \_\_\_\_\_ Telephone: (432) 208-3035 \_\_\_\_\_

**OCD Only**  
 Received by: \_\_\_\_\_ Date: \_\_\_\_\_

Incident ID	nAPP2215863582
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?	>105_ (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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.

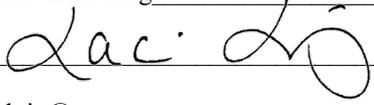
State of New Mexico  
Oil Conservation Division

Page 4

Incident ID	nAPP2215863582
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: 6/30/2023 \_\_\_\_\_

email: laci.luig@coterra.com \_\_\_\_\_ Telephone: (432) 208-3035 \_\_\_\_\_

**OCD Only**

Received by: Shelly Wells \_\_\_\_\_ Date: 6/30/2023 \_\_\_\_\_

Incident ID	nAPP2215863582
District RP	
Facility ID	
Application ID	

## Closure

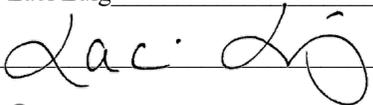
The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled 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 19.15.29.11 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 ODC District office must be notified 2 days prior to final sampling)
- Description of remediation activities

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

Printed Name: Laci Luig Title: ESH Specialist

Signature:  Date: 6/30/2023

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

**OCD Only**

Received by: Shelly Wells Date: 6/30/2023

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: 09/22/2023

Printed Name: Nelson Velez Title: Environmental Specialist - Adv

**From:** [Laci Luig](#)  
**To:** [NMOCD Spill Notifications](#); [BLM Spill Notifications](#)  
**Cc:** [Ashton Thielke](#); [Jim Hawley](#); [Michael Collier](#)  
**Subject:** nAPP2215863582 Dos Equis 11-14 Federal Com 25H  
**Date:** Wednesday, June 7, 2023 12:41:45 PM

---

Good afternoon,

This email serves as notification for confirmation sampling on the Dos Equis 11-14 Federal Com 25H well pad. Excavation and confirmation sampling is scheduled to begin as early as Tuesday, June 13<sup>th</sup>, weather and soil conditions permitting. H&R Enterprises will be onsite to collect the confirmation samples.

Coordinates: 32.237909, -103.64844

Thank you,



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

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

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# APPENDIX IV

# PHOTOGRAPHIC DOCUMENTATION

PHOTOGRAPHIC DOCUMENTATION

ASSESSMENT PHOTOGRAPHS



PHOTOGRAPHIC DOCUMENTATION

ASSESSMENT PHOTOGRAPHS



PHOTOGRAPHIC DOCUMENTATION

ASSESSMENT PHOTOGRAPHS



PHOTOGRAPHIC DOCUMENTATION

ASSESSMENT PHOTOGRAPHS



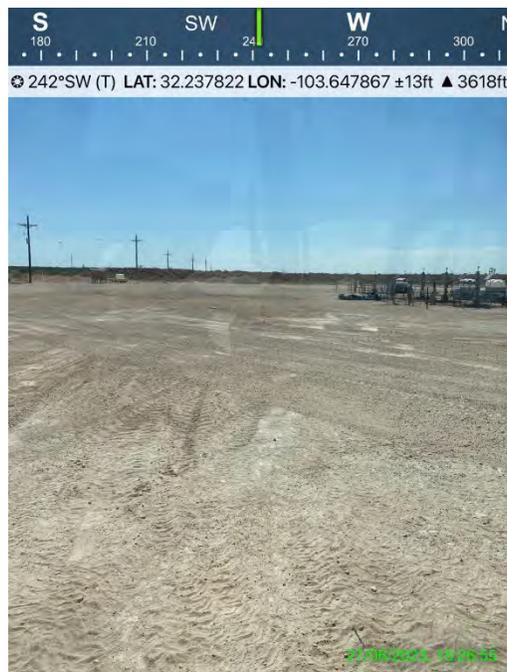
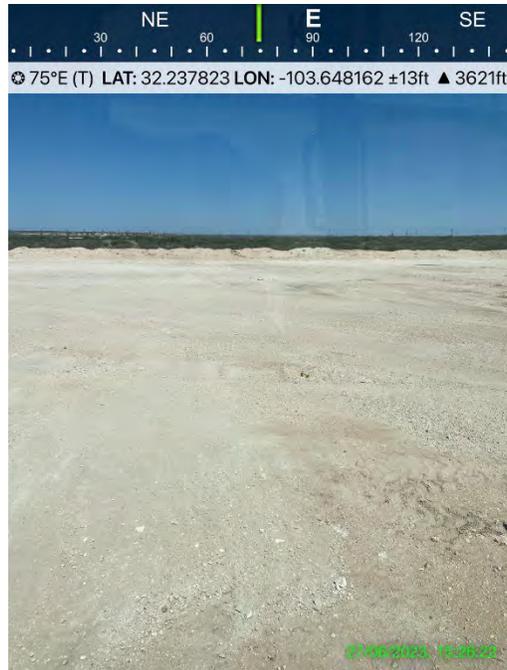
PHOTOGRAPHIC DOCUMENTATION

EXCAVATION PHOTOGRAPHS



PHOTOGRAPHIC DOCUMENTATION

**FINAL PHOTOGRAPHS**



PHOTOGRAPHIC DOCUMENTATION

**EXPLORATORY WATER BORE PHOTOGRAPHS**



# APPENDIX V

## LABORATORY REPORTS



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

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May 24, 2023

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

RE: DOS EQUIS 11-14 FED COM #025H (DOS)

Enclosed are the results of analyses for samples received by the laboratory on 05/19/23 12:52.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, flowing "C" at the beginning.

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:	05/19/2023	Sampling Date:	05/18/2023
Reported:	05/24/2023	Sampling Type:	Soil
Project Name:	DOS EQUIS 11-14 FED COM #025H (DO)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA COUNTY, NM		

**Sample ID: BH - 1 0-1' (H232564-01)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.200	0.200	05/22/2023	ND	2.42	121	2.00	1.10		
<b>Toluene*</b>	<b>24.4</b>	0.200	05/22/2023	ND	2.37	119	2.00	1.10		
Ethylbenzene*	<0.200	0.200	05/22/2023	ND	2.32	116	2.00	1.95	GC-NC	
<b>Total Xylenes*</b>	<b>1.20</b>	0.600	05/22/2023	ND	7.09	118	6.00	1.54	GC-NC1	
<b>Total BTEX</b>	<b>25.6</b>	1.20	05/22/2023	ND					GC-NC1	

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>3920</b>	16.0	05/22/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS							S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
<b>GRO C6-C10*</b>	<b>78.4</b>	10.0	05/20/2023	ND	162	81.1	200	4.37			
<b>DRO &gt;C10-C28*</b>	<b>3670</b>	10.0	05/20/2023	ND	172	85.8	200	3.22			
<b>EXT DRO &gt;C28-C36</b>	<b>2210</b>	10.0	05/20/2023	ND							

Surrogate: 1-Chlorooctane 124 % 48.2-134

Surrogate: 1-Chlorooctadecane 215 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	05/19/2023	Sampling Date:	05/18/2023
Reported:	05/24/2023	Sampling Type:	Soil
Project Name:	DOS EQUIS 11-14 FED COM #025H (DO:	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA COUNTY, NM		

**Sample ID: BH - 1 2' (H232564-02)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/22/2023	ND	2.42	121	2.00	1.10	
Toluene*	<0.050	0.050	05/22/2023	ND	2.37	119	2.00	1.10	
Ethylbenzene*	<0.050	0.050	05/22/2023	ND	2.32	116	2.00	1.95	
Total Xylenes*	<0.150	0.150	05/22/2023	ND	7.09	118	6.00	1.54	
Total BTEX	<0.300	0.300	05/22/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1440	16.0	05/22/2023	ND	432	108	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	05/20/2023	ND	162	81.1	200	4.37	
DRO >C10-C28*	<10.0	10.0	05/20/2023	ND	172	85.8	200	3.22	
EXT DRO >C28-C36	<10.0	10.0	05/20/2023	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	05/19/2023	Sampling Date:	05/18/2023
Reported:	05/24/2023	Sampling Type:	Soil
Project Name:	DOS EQUIS 11-14 FED COM #025H (DO:	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA COUNTY, NM		

**Sample ID: BH - 1 3' (H232564-03)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/21/2023	ND	2.42	121	2.00	1.10	
Toluene*	<0.050	0.050	05/21/2023	ND	2.37	119	2.00	1.10	
Ethylbenzene*	<0.050	0.050	05/21/2023	ND	2.32	116	2.00	1.95	
Total Xylenes*	<0.150	0.150	05/21/2023	ND	7.09	118	6.00	1.54	
Total BTEX	<0.300	0.300	05/21/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1090	16.0	05/22/2023	ND	432	108	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	05/24/2023	ND	162	81.1	200	4.37	
DRO >C10-C28*	<10.0	10.0	05/24/2023	ND	172	85.8	200	3.22	
EXT DRO >C28-C36	<10.0	10.0	05/24/2023	ND					

Surrogate: 1-Chlorooctane 80.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.8 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	05/19/2023	Sampling Date:	05/18/2023
Reported:	05/24/2023	Sampling Type:	Soil
Project Name:	DOS EQUIS 11-14 FED COM #025H (DO:	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA COUNTY, NM		

**Sample ID: BH - 1 4' (H232564-04)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/21/2023	ND	2.42	121	2.00	1.10	
Toluene*	<0.050	0.050	05/21/2023	ND	2.37	119	2.00	1.10	
Ethylbenzene*	<0.050	0.050	05/21/2023	ND	2.32	116	2.00	1.95	
Total Xylenes*	<0.150	0.150	05/21/2023	ND	7.09	118	6.00	1.54	
Total BTEX	<0.300	0.300	05/21/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	05/22/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/20/2023	ND	162	81.1	200	4.37	
DRO >C10-C28*	<10.0	10.0	05/20/2023	ND	172	85.8	200	3.22	
EXT DRO >C28-C36	<10.0	10.0	05/20/2023	ND					

Surrogate: 1-Chlorooctane 120 % 48.2-134

Surrogate: 1-Chlorooctadecane 135 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	05/19/2023	Sampling Date:	05/18/2023
Reported:	05/24/2023	Sampling Type:	Soil
Project Name:	DOS EQUIS 11-14 FED COM #025H (DO:	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA COUNTY, NM		

**Sample ID: BH - 2 0-1' (H232564-05)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/20/2023	ND	2.16	108	2.00	2.65	
Toluene*	<0.050	0.050	05/20/2023	ND	2.19	109	2.00	2.73	
Ethylbenzene*	<0.050	0.050	05/20/2023	ND	2.27	113	2.00	3.77	
Total Xylenes*	<0.150	0.150	05/20/2023	ND	6.67	111	6.00	4.35	
Total BTEX	<0.300	0.300	05/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>240</b>	16.0	05/22/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/20/2023	ND	162	81.1	200	4.37		
<b>DRO &gt;C10-C28*</b>	<b>917</b>	10.0	05/20/2023	ND	172	85.8	200	3.22		
<b>EXT DRO &gt;C28-C36</b>	<b>38.3</b>	10.0	05/20/2023	ND						

Surrogate: 1-Chlorooctane 120 % 48.2-134

Surrogate: 1-Chlorooctadecane 177 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	05/19/2023	Sampling Date:	05/18/2023
Reported:	05/24/2023	Sampling Type:	Soil
Project Name:	DOS EQUIS 11-14 FED COM #025H (DO:	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA COUNTY, NM		

**Sample ID: BH - 2 2' (H232564-06)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/20/2023	ND	2.16	108	2.00	2.65	
Toluene*	<0.050	0.050	05/20/2023	ND	2.19	109	2.00	2.73	
Ethylbenzene*	<0.050	0.050	05/20/2023	ND	2.27	113	2.00	3.77	
Total Xylenes*	<0.150	0.150	05/20/2023	ND	6.67	111	6.00	4.35	
Total BTEX	<0.300	0.300	05/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/22/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/20/2023	ND	162	81.1	200	4.37	
DRO >C10-C28*	<10.0	10.0	05/20/2023	ND	172	85.8	200	3.22	
EXT DRO >C28-C36	<10.0	10.0	05/20/2023	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 133 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	05/19/2023	Sampling Date:	05/18/2023
Reported:	05/24/2023	Sampling Type:	Soil
Project Name:	DOS EQUIS 11-14 FED COM #025H (DO:	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA COUNTY, NM		

**Sample ID: BH - 2 3' (H232564-07)**

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	05/20/2023	ND	2.16	108	2.00	2.65	
Toluene*	<0.050	0.050	05/20/2023	ND	2.19	109	2.00	2.73	
Ethylbenzene*	<0.050	0.050	05/20/2023	ND	2.27	113	2.00	3.77	
Total Xylenes*	<0.150	0.150	05/20/2023	ND	6.67	111	6.00	4.35	
Total BTEX	<0.300	0.300	05/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/22/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/20/2023	ND	162	81.1	200	4.37	
DRO >C10-C28*	<10.0	10.0	05/20/2023	ND	172	85.8	200	3.22	
EXT DRO >C28-C36	<10.0	10.0	05/20/2023	ND					

Surrogate: 1-Chlorooctane 119 % 48.2-134

Surrogate: 1-Chlorooctadecane 135 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	05/19/2023	Sampling Date:	05/18/2023
Reported:	05/24/2023	Sampling Type:	Soil
Project Name:	DOS EQUIS 11-14 FED COM #025H (DO:	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA COUNTY, NM		

**Sample ID: BH - 2 4' (H232564-08)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/20/2023	ND	2.16	108	2.00	2.65	
Toluene*	<0.050	0.050	05/20/2023	ND	2.19	109	2.00	2.73	
Ethylbenzene*	<0.050	0.050	05/20/2023	ND	2.27	113	2.00	3.77	
Total Xylenes*	<0.150	0.150	05/20/2023	ND	6.67	111	6.00	4.35	
Total BTEX	<0.300	0.300	05/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	05/22/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/20/2023	ND	162	81.1	200	4.37	
DRO >C10-C28*	<10.0	10.0	05/20/2023	ND	172	85.8	200	3.22	
EXT DRO >C28-C36	<10.0	10.0	05/20/2023	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 127 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	05/19/2023	Sampling Date:	05/18/2023
Reported:	05/24/2023	Sampling Type:	Soil
Project Name:	DOS EQUIS 11-14 FED COM #025H (DO:	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA COUNTY, NM		

**Sample ID: BH - 3 0-1' (H232564-09)**

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	05/20/2023	ND	2.16	108	2.00	2.65	
Toluene*	<0.050	0.050	05/20/2023	ND	2.19	109	2.00	2.73	
Ethylbenzene*	<0.050	0.050	05/20/2023	ND	2.27	113	2.00	3.77	
Total Xylenes*	<0.150	0.150	05/20/2023	ND	6.67	111	6.00	4.35	
Total BTEX	<0.300	0.300	05/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>368</b>	16.0	05/22/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/20/2023	ND	162	81.1	200	4.37	
<b>DRO &gt;C10-C28*</b>	<b>54.5</b>	10.0	05/20/2023	ND	172	85.8	200	3.22	
EXT DRO >C28-C36	<10.0	10.0	05/20/2023	ND					

Surrogate: 1-Chlorooctane 98.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	05/19/2023	Sampling Date:	05/18/2023
Reported:	05/24/2023	Sampling Type:	Soil
Project Name:	DOS EQUIS 11-14 FED COM #025H (DO:	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA COUNTY, NM		

**Sample ID: BH - 3 2' (H232564-10)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/20/2023	ND	2.16	108	2.00	2.65		
Toluene*	<0.050	0.050	05/20/2023	ND	2.19	109	2.00	2.73		
Ethylbenzene*	<0.050	0.050	05/20/2023	ND	2.27	113	2.00	3.77		
Total Xylenes*	<0.150	0.150	05/20/2023	ND	6.67	111	6.00	4.35		
Total BTEX	<0.300	0.300	05/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	05/22/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/20/2023	ND	162	81.1	200	4.37		
DRO >C10-C28*	<10.0	10.0	05/20/2023	ND	172	85.8	200	3.22		
EXT DRO >C28-C36	<10.0	10.0	05/20/2023	ND						

Surrogate: 1-Chlorooctane 118 % 48.2-134

Surrogate: 1-Chlorooctadecane 134 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	05/19/2023	Sampling Date:	05/18/2023
Reported:	05/24/2023	Sampling Type:	Soil
Project Name:	DOS EQUIS 11-14 FED COM #025H (DO:	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA COUNTY, NM		

**Sample ID: BH - 3 3' (H232564-11)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/20/2023	ND	2.16	108	2.00	2.65	
Toluene*	<0.050	0.050	05/20/2023	ND	2.19	109	2.00	2.73	
Ethylbenzene*	<0.050	0.050	05/20/2023	ND	2.27	113	2.00	3.77	
Total Xylenes*	<0.150	0.150	05/20/2023	ND	6.67	111	6.00	4.35	
Total BTEX	<0.300	0.300	05/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	05/22/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/22/2023	ND	172	85.9	200	4.58	
DRO >C10-C28*	<10.0	10.0	05/22/2023	ND	162	80.9	200	1.36	
EXT DRO >C28-C36	<10.0	10.0	05/22/2023	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	05/19/2023	Sampling Date:	05/18/2023
Reported:	05/24/2023	Sampling Type:	Soil
Project Name:	DOS EQUIS 11-14 FED COM #025H (DO:	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA COUNTY, NM		

**Sample ID: BH - 3 4' (H232564-12)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/20/2023	ND	2.16	108	2.00	2.65		
Toluene*	<0.050	0.050	05/20/2023	ND	2.19	109	2.00	2.73		
Ethylbenzene*	<0.050	0.050	05/20/2023	ND	2.27	113	2.00	3.77		
Total Xylenes*	<0.150	0.150	05/20/2023	ND	6.67	111	6.00	4.35		
Total BTEX	<0.300	0.300	05/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	05/22/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/22/2023	ND	172	85.9	200	4.58		
DRO >C10-C28*	<10.0	10.0	05/22/2023	ND	162	80.9	200	1.36		
EXT DRO >C28-C36	<10.0	10.0	05/22/2023	ND						

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	05/19/2023	Sampling Date:	05/18/2023
Reported:	05/24/2023	Sampling Type:	Soil
Project Name:	DOS EQUIS 11-14 FED COM #025H (DO:	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA COUNTY, NM		

**Sample ID: H - 1 0-1' (H232564-13)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/20/2023	ND	2.16	108	2.00	2.65		
Toluene*	<0.050	0.050	05/20/2023	ND	2.19	109	2.00	2.73		
Ethylbenzene*	<0.050	0.050	05/20/2023	ND	2.27	113	2.00	3.77		
Total Xylenes*	<0.150	0.150	05/20/2023	ND	6.67	111	6.00	4.35		
Total BTEX	<0.300	0.300	05/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	05/22/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/22/2023	ND	172	85.9	200	4.58		
DRO >C10-C28*	<10.0	10.0	05/22/2023	ND	162	80.9	200	1.36		
EXT DRO >C28-C36	<10.0	10.0	05/22/2023	ND						

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	05/19/2023	Sampling Date:	05/18/2023
Reported:	05/24/2023	Sampling Type:	Soil
Project Name:	DOS EQUIS 11-14 FED COM #025H (DO:	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA COUNTY, NM		

**Sample ID: H - 2 0-1' (H232564-14)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/20/2023	ND	2.16	108	2.00	2.65		
Toluene*	<0.050	0.050	05/20/2023	ND	2.19	109	2.00	2.73		
Ethylbenzene*	<0.050	0.050	05/20/2023	ND	2.27	113	2.00	3.77		
Total Xylenes*	<0.150	0.150	05/20/2023	ND	6.67	111	6.00	4.35		
Total BTEX	<0.300	0.300	05/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/22/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/22/2023	ND	172	85.9	200	4.58		
DRO >C10-C28*	<10.0	10.0	05/22/2023	ND	162	80.9	200	1.36		
EXT DRO >C28-C36	<10.0	10.0	05/22/2023	ND						

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	05/19/2023	Sampling Date:	05/18/2023
Reported:	05/24/2023	Sampling Type:	Soil
Project Name:	DOS EQUIS 11-14 FED COM #025H (DO:	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA COUNTY, NM		

**Sample ID: H - 3 0-1' (H232564-15)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/20/2023	ND	2.16	108	2.00	2.65	
Toluene*	<0.050	0.050	05/20/2023	ND	2.19	109	2.00	2.73	
Ethylbenzene*	<0.050	0.050	05/20/2023	ND	2.27	113	2.00	3.77	
Total Xylenes*	<0.150	0.150	05/20/2023	ND	6.67	111	6.00	4.35	
Total BTEX	<0.300	0.300	05/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/22/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/22/2023	ND	172	85.9	200	4.58	
DRO >C10-C28*	<10.0	10.0	05/22/2023	ND	162	80.9	200	1.36	
EXT DRO >C28-C36	<10.0	10.0	05/22/2023	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	05/19/2023	Sampling Date:	05/18/2023
Reported:	05/24/2023	Sampling Type:	Soil
Project Name:	DOS EQUIS 11-14 FED COM #025H (DO:	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA COUNTY, NM		

**Sample ID: H - 4 0-1' (H232564-16)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/22/2023	ND	2.40	120	2.00	1.36	
Toluene*	<0.050	0.050	05/22/2023	ND	2.34	117	2.00	1.07	
Ethylbenzene*	<0.050	0.050	05/22/2023	ND	2.29	114	2.00	2.39	
Total Xylenes*	<0.150	0.150	05/22/2023	ND	6.95	116	6.00	2.74	
Total BTEX	<0.300	0.300	05/22/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/22/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/22/2023	ND	172	85.9	200	4.58	
DRO >C10-C28*	<10.0	10.0	05/22/2023	ND	162	80.9	200	1.36	
EXT DRO >C28-C36	<10.0	10.0	05/22/2023	ND					

Surrogate: 1-Chlorooctane 92.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	05/19/2023	Sampling Date:	05/18/2023
Reported:	05/24/2023	Sampling Type:	Soil
Project Name:	DOS EQUIS 11-14 FED COM #025H (DO:	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA COUNTY, NM		

**Sample ID: H - 5 0-1' (H232564-17)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/22/2023	ND	2.40	120	2.00	1.36	
Toluene*	<0.050	0.050	05/22/2023	ND	2.34	117	2.00	1.07	
Ethylbenzene*	<0.050	0.050	05/22/2023	ND	2.29	114	2.00	2.39	
Total Xylenes*	<0.150	0.150	05/22/2023	ND	6.95	116	6.00	2.74	
Total BTEX	<0.300	0.300	05/22/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/22/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/22/2023	ND	172	85.9	200	4.58	
DRO >C10-C28*	<10.0	10.0	05/22/2023	ND	162	80.9	200	1.36	
EXT DRO >C28-C36	<10.0	10.0	05/22/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
GC-NC1 8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
GC-NC 8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.
BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
\*\* Samples not received at proper temperature of 6°C or below.
\*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: H&R Enterprises
Project Manager: Michael Collier
Address:
City: State: Zip:
Phone #: Fax #:
Project #: Project Owner: Cimarex Energy
Project Name: Dos Equis 11-14 Fed Com #025H (Dos)
Project Location: Lea County, NM
Sampler Name: R.Bell
BILL TO ANALYSIS REQUEST
FOR LAB USE ONLY
Lab I.D. H232564
MATRIX: GROUNDWATER, WASTEWATER, SOIL, OIL, SLUDGE
PRESERV.: ACID/BASE, ICE/COOL, OTHER
SAMPLING: DATE, TIME
BTX, TPH, Chlorides

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Relinquished By: [Signature] Date: 5-19-23 Time: 1:53
Received By: [Signature] Verbal Result: [ ] Yes [ ] No Add'l Phone #:
REMARKS: Pg 1 of 2 72 HR RUSH
Delivered By: (Circle One) Sampler - UPS - Bus - Other:
Observed Temp. °C 3.1 Corrected Temp. °C 2.5
Sample Condition Cool Intact [ ] Yes [ ] No [ ] No [ ] No
CHECKED BY: (Initials) YTO
Turnaround Time: Standard [ ] Bacteria (only) Sample Condition [ ]
Rush [ ] Cool Intact [ ] Observed Temp. °C
Thermometer ID #113 Correction Factor -0.5°C
[ ] Yes [ ] No [ ] No [ ] No Corrected Temp. °C

FORM-005 R 3.2 10/07/21

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





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

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June 16, 2023

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

RE: DOS EQUIS 11-14 FED COM #025H (DOS)

Enclosed are the results of analyses for samples received by the laboratory on 06/13/23 13:19.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene  
Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	06/13/2023	Sampling Date:	06/13/2023
Reported:	06/16/2023	Sampling Type:	Soil
Project Name:	DOS EQUIS 11-14 FED COM #025H (DO)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - LEA COUNTY, NM		

**Sample ID: S - 1 1.5' (H233022-01)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/15/2023	ND	2.17	109	2.00	3.82	
Toluene*	<0.050	0.050	06/15/2023	ND	2.13	107	2.00	2.97	
Ethylbenzene*	<0.050	0.050	06/15/2023	ND	2.23	112	2.00	2.14	
Total Xylenes*	<0.150	0.150	06/15/2023	ND	6.57	109	6.00	3.31	
Total BTEX	<0.300	0.300	06/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>128</b>	16.0	06/14/2023	ND	400	100	400	3.92	

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	06/14/2023	ND	173	86.4	200	2.19	
<b>DRO &gt;C10-C28*</b>	<b>101</b>	10.0	06/14/2023	ND	150	75.0	200	3.05	
<b>EXT DRO &gt;C28-C36</b>	<b>134</b>	10.0	06/14/2023	ND					

Surrogate: 1-Chlorooctane 94.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	06/13/2023	Sampling Date:	06/13/2023
Reported:	06/16/2023	Sampling Type:	Soil
Project Name:	DOS EQUIS 11-14 FED COM #025H (DO:	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - LEA COUNTY, NM		

**Sample ID: S - 2 1.5' (H233022-02)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/15/2023	ND	2.17	109	2.00	3.82	
Toluene*	<0.050	0.050	06/15/2023	ND	2.13	107	2.00	2.97	
Ethylbenzene*	<0.050	0.050	06/15/2023	ND	2.23	112	2.00	2.14	
Total Xylenes*	<0.150	0.150	06/15/2023	ND	6.57	109	6.00	3.31	
Total BTEX	<0.300	0.300	06/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	06/14/2023	ND	400	100	400	3.92	

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	06/14/2023	ND	173	86.4	200	2.19	
DRO >C10-C28*	97.0	10.0	06/14/2023	ND	150	75.0	200	3.05	
EXT DRO >C28-C36	109	10.0	06/14/2023	ND					

Surrogate: 1-Chlorooctane 86.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	06/13/2023	Sampling Date:	06/13/2023
Reported:	06/16/2023	Sampling Type:	Soil
Project Name:	DOS EQUIS 11-14 FED COM #025H (DO:	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - LEA COUNTY, NM		

**Sample ID: S - 3 1.5' (H233022-03)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/15/2023	ND	2.17	109	2.00	3.82	
Toluene*	<0.050	0.050	06/15/2023	ND	2.13	107	2.00	2.97	
Ethylbenzene*	<0.050	0.050	06/15/2023	ND	2.23	112	2.00	2.14	
Total Xylenes*	<0.150	0.150	06/15/2023	ND	6.57	109	6.00	3.31	
Total BTEX	<0.300	0.300	06/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>128</b>	16.0	06/14/2023	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	06/14/2023	ND	173	86.4	200	2.19	
<b>DRO &gt;C10-C28*</b>	<b>83.8</b>	10.0	06/14/2023	ND	150	75.0	200	3.05	
<b>EXT DRO &gt;C28-C36</b>	<b>97.7</b>	10.0	06/14/2023	ND					

Surrogate: 1-Chlorooctane 93.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	06/13/2023	Sampling Date:	06/13/2023
Reported:	06/16/2023	Sampling Type:	Soil
Project Name:	DOS EQUIS 11-14 FED COM #025H (DO:	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - LEA COUNTY, NM		

**Sample ID: SW - 1 1.5' (H233022-04)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/15/2023	ND	2.17	109	2.00	3.82	
Toluene*	<0.050	0.050	06/15/2023	ND	2.13	107	2.00	2.97	
Ethylbenzene*	<0.050	0.050	06/15/2023	ND	2.23	112	2.00	2.14	
Total Xylenes*	<0.150	0.150	06/15/2023	ND	6.57	109	6.00	3.31	
Total BTEX	<0.300	0.300	06/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/14/2023	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	06/14/2023	ND	173	86.4	200	2.19	
DRO >C10-C28*	<10.0	10.0	06/14/2023	ND	150	75.0	200	3.05	
EXT DRO >C28-C36	<10.0	10.0	06/14/2023	ND					

Surrogate: 1-Chlorooctane 83.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.7 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	06/13/2023	Sampling Date:	06/13/2023
Reported:	06/16/2023	Sampling Type:	Soil
Project Name:	DOS EQUIS 11-14 FED COM #025H (DO:	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - LEA COUNTY, NM		

**Sample ID: SW - 2 1.5' (H233022-05)**

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/15/2023	ND	2.17	109	2.00	3.82		
Toluene*	<0.050	0.050	06/15/2023	ND	2.13	107	2.00	2.97		
Ethylbenzene*	<0.050	0.050	06/15/2023	ND	2.23	112	2.00	2.14		
Total Xylenes*	<0.150	0.150	06/15/2023	ND	6.57	109	6.00	3.31		
Total BTEX	<0.300	0.300	06/15/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	06/14/2023	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	06/14/2023	ND	173	86.4	200	2.19		
DRO >C10-C28*	<10.0	10.0	06/14/2023	ND	150	75.0	200	3.05		
EXT DRO >C28-C36	<10.0	10.0	06/14/2023	ND						

Surrogate: 1-Chlorooctane 78.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	06/13/2023	Sampling Date:	06/13/2023
Reported:	06/16/2023	Sampling Type:	Soil
Project Name:	DOS EQUIS 11-14 FED COM #025H (DO:	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - LEA COUNTY, NM		

**Sample ID: SW - 3 1.5' (H233022-06)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/15/2023	ND	2.17	109	2.00	3.82	
Toluene*	<0.050	0.050	06/15/2023	ND	2.13	107	2.00	2.97	
Ethylbenzene*	<0.050	0.050	06/15/2023	ND	2.23	112	2.00	2.14	
Total Xylenes*	<0.150	0.150	06/15/2023	ND	6.57	109	6.00	3.31	
Total BTEX	<0.300	0.300	06/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/14/2023	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	06/14/2023	ND	173	86.4	200	2.19	
DRO >C10-C28*	<10.0	10.0	06/14/2023	ND	150	75.0	200	3.05	
EXT DRO >C28-C36	<10.0	10.0	06/14/2023	ND					

Surrogate: 1-Chlorooctane 87.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Form with sections: Company Name: H&R Enterprises, BILL TO, ANALYSIS REQUEST, Project Manager: Michael Collier, Address, City, State, Zip, Project Name: Dos Equis 11-14 Fed Com #025H (Dos Equis), Project Location: Lea County, Sampler Name: R. Bell. Includes a table for Lab I.D. with columns for Matrix, Preserv., and Sampling.

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses.

Form with sections: Relinquished By, Received By, Verbal Result, All Results are emailed, Delivered By, Observed Temp, Sample Condition, CHECKED BY, Turnaround Time, Bacteria (only) Sample Condition.

FORM-006 R 3.2 10/07/21

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

**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

**District IV**  
 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**

CONDITIONS

Action 234864

**CONDITIONS**

Operator: CIMAREX ENERGY CO. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 234864
	Action Type: [C-141] Release Corrective Action (C-141)

**CONDITIONS**

Created By	Condition	Condition Date
nvelez	None	9/22/2023