

Incident ID	nAPP2213973514
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

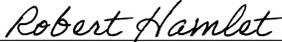
Signature:  Date: 8/18/2022

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

**OCD Only**

Received by: Jocelyn Harimon Date: 08/18/2022

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: 8/22/2022

Printed Name: Robert Hamlet Title: Environmental Specialist - Advanced



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

## Remediation and Closure Report

Bonnie 35 Federal Com 1H  
Incident# nAPP2213973514  
Eddy 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

**August 15, 2022**

Mrs. Jennifer Nobui  
**NMOCD**  
1220 S. St. Francis Drive  
Santa Fe, NM 87505

Subject: **Remediation and Closure Report**  
Bonnie 35 Federal Com 1H  
Incident# nAPP2213973514  
Eddy County, NM

Dear Mrs. Nobui,

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

### **Site Information**

The Bonnie 35 Federal Com 1H is located approximately 27.3 miles South of Carlsbad, New Mexico. The legal location for this release is Unit Letter P, Section 35, Township 25 South and Range 26 East in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.07956 North and -104.25831 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 Reeves Gypsum lands, 0 to 1 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 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 14-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>14 Feet/BGS</b>
---	--------------------

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

As this release is located in a high Karst area, as well as being in an area with a depth to groundwater of less than 50-feet BGS, the closure criteria for this site is 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**
≤ 50 feet	Chloride **	EPA 300.0 or SM4500 CIB	600 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	100 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 May 18, 2022, the Kimray flow control valve washed out on the bottom due to erosion, resulting in 20 barrels (bbls) of fluid spilling into the cellar and onto location. The well was shut in immediately and a vacuum truck was dispatched to location and able to recover 2 bbls of fluid. A hydrovac truck was used to recover fluids from the cellar and impacted soil as well. Fluids released were crude oil (5 bbls) and produced water (15 bbls).

## Remediation Activities

On August 02, 2022, H&R mobilized personnel to begin excavation of the release area on location. A hydrovac truck was utilized to exposed the flow lines coming off of the wellhead as well as remove any contaminants from the inside of the concrete bottomed and metal sided cellar. The hydrovac also pressure washed the wellhead. Field chloride titrations were performed to help determine the depth and horizontal extents of the release. Once excavation was complete composite confirmation samples were collected from the bottom and sidewalls of the excavation. Confirmation samples were taken to Cardinal Laboratories for analysis to ensure all contaminants above closure criteria were removed. Results from the confirmation sampling are contained in the following table. Excavation dimensions and confirmation sample locations can be found on Confirmation Sample Map, [Appendix I](#). Before, during, and, after photographs of the location are attached in [Appendix IV](#). Complete laboratory reports can be found in [Appendix VI](#).

Table 1: Confirmation 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	100 mg/kg			100 mg/kg	600 mg/kg
S-1	8/5/2022	3'	ND	ND	ND	26.6	ND	26.6	400
S-2	8/5/2022	3'	ND	ND	ND	ND	ND	0	112
S-3	8/5/2022	3'	ND	ND	ND	ND	ND	0	400
S-4	8/5/2022	3'	ND	ND	ND	ND	ND	0	16
S-5	8/5/2022	3'	ND	ND	ND	ND	ND	0	240
S-6	8/5/2022	3'	ND	ND	ND	ND	ND	0	160
S-7	8/5/2022	3'	ND	ND	ND	ND	ND	0	240
S-8	8/5/2022	3'	ND	ND	ND	ND	ND	0	224
S-9	8/5/2022	3'	ND	ND	ND	ND	ND	0	240
S-10	8/5/2022	3'	ND	ND	ND	ND	ND	0	192
SW-1	8/5/2022	3'	ND	ND	ND	ND	ND	0	176
SW-2	8/5/2022	3'	ND	ND	ND	ND	ND	0	256
SW-3	8/5/2022	3'	ND	ND	ND	ND	ND	0	64
SW-4	8/5/2022	3'	ND	ND	ND	55.2	ND	55.2	160
BG-1	8/5/2022	3'	ND	ND	ND	ND	ND	0	32
BG-2	8/5/2022	3'	ND	ND	ND	ND	ND	0	16
BG-3	8/5/2022	3'	ND	ND	ND	ND	ND	0	ND
BG-4	8/5/2022	3'	ND	ND	ND	ND	ND	0	ND
ND= Non Detect SW= SideWall BG= Background									

## Remedial Actions

- The entire impacted area around the wellhead was excavated to a total depth of 3-feet BGS.
- The cellar was cleaned out and pressure washed.
- Composite confirmation samples were obtained from the sidewalls and bottoms of the excavated area every 200 square feet to verify that all contaminants above closure criteria had been removed.
- All the excavated material (268yds) was hauled to Lea Land, 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 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
- Appendix III Initial and Final C-141
- Appendix IV Photographic Documentation
- Appendix V Laboratory Data

# APPENDIX I

## SITE MAPS

## KARST MAP

## TOPOGRAPHIC MAP

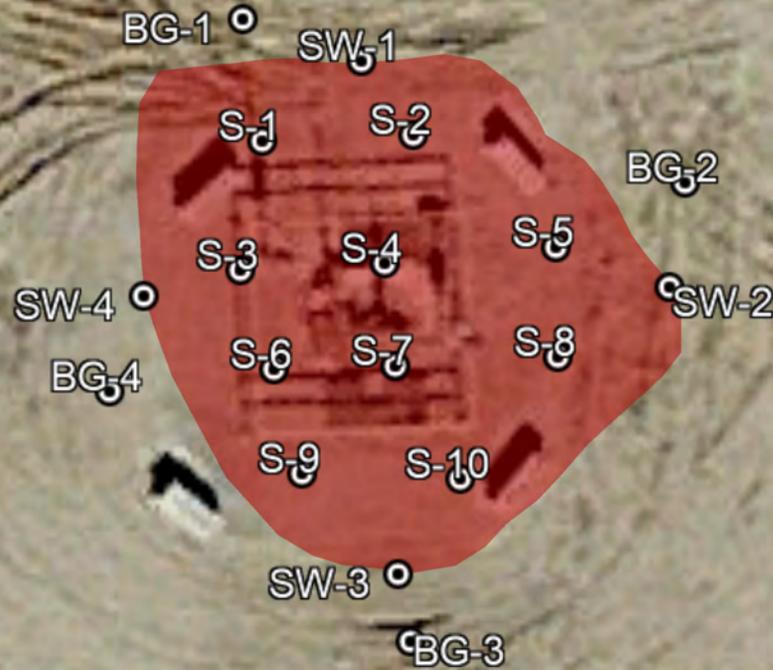
## LOCATOR MAP

# Bonnie 35 Federal Com 1H

Cimarex Energy Co.  
Incident# nAPP2213973514  
Eddy County, NM  
Confirmation Sample Map

## Legend

-  3ft. Excavation
-  Composite Confirmation Sample



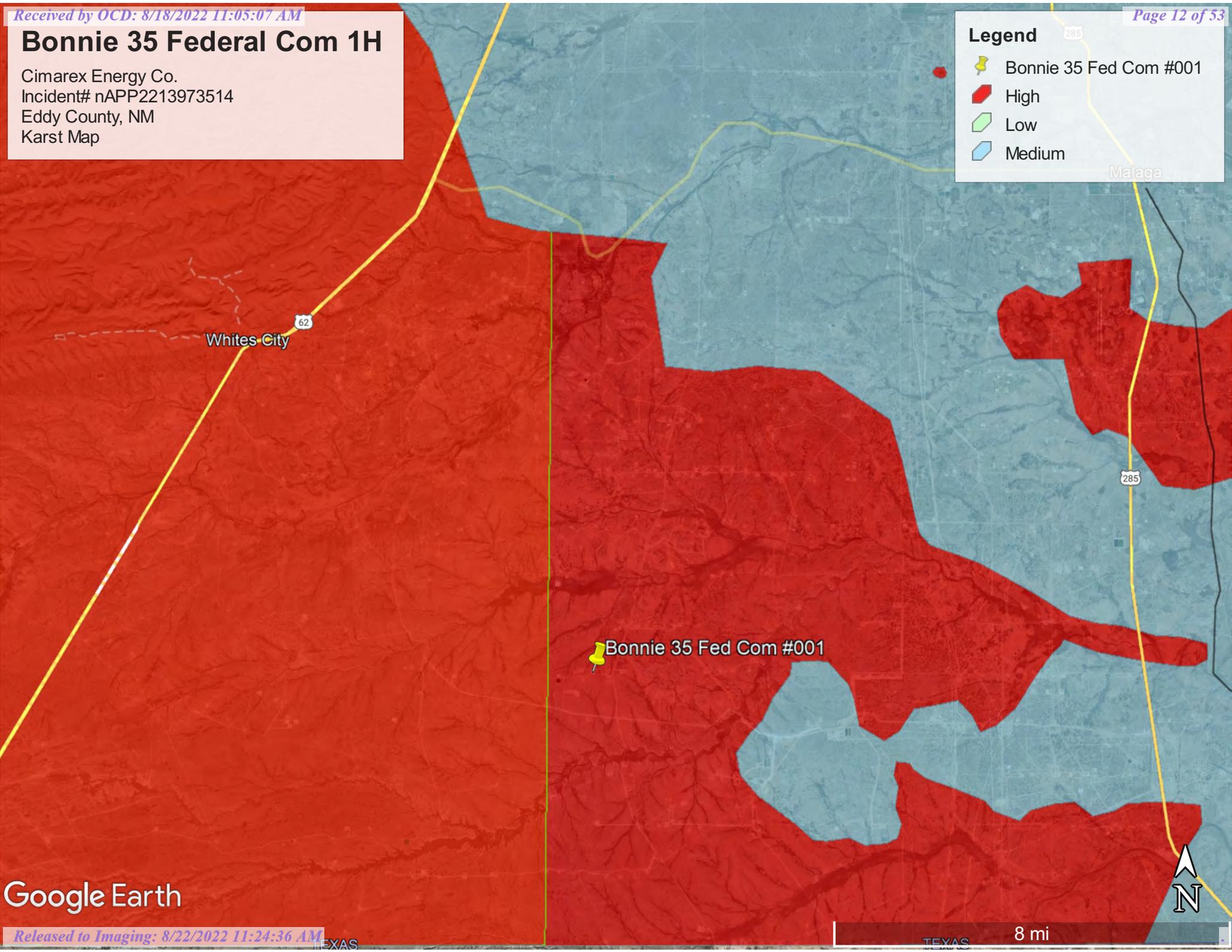
60 ft

# Bonnie 35 Federal Com 1H

Cimarex Energy Co.  
Incident# nAPP2213973514  
Eddy County, NM  
Karst Map

**Legend**

-  Bonnie 35 Fed Com #001
-  High
-  Low
-  Medium



Whites City

Malaga

Bonnie 35 Fed Com #001

Google Earth

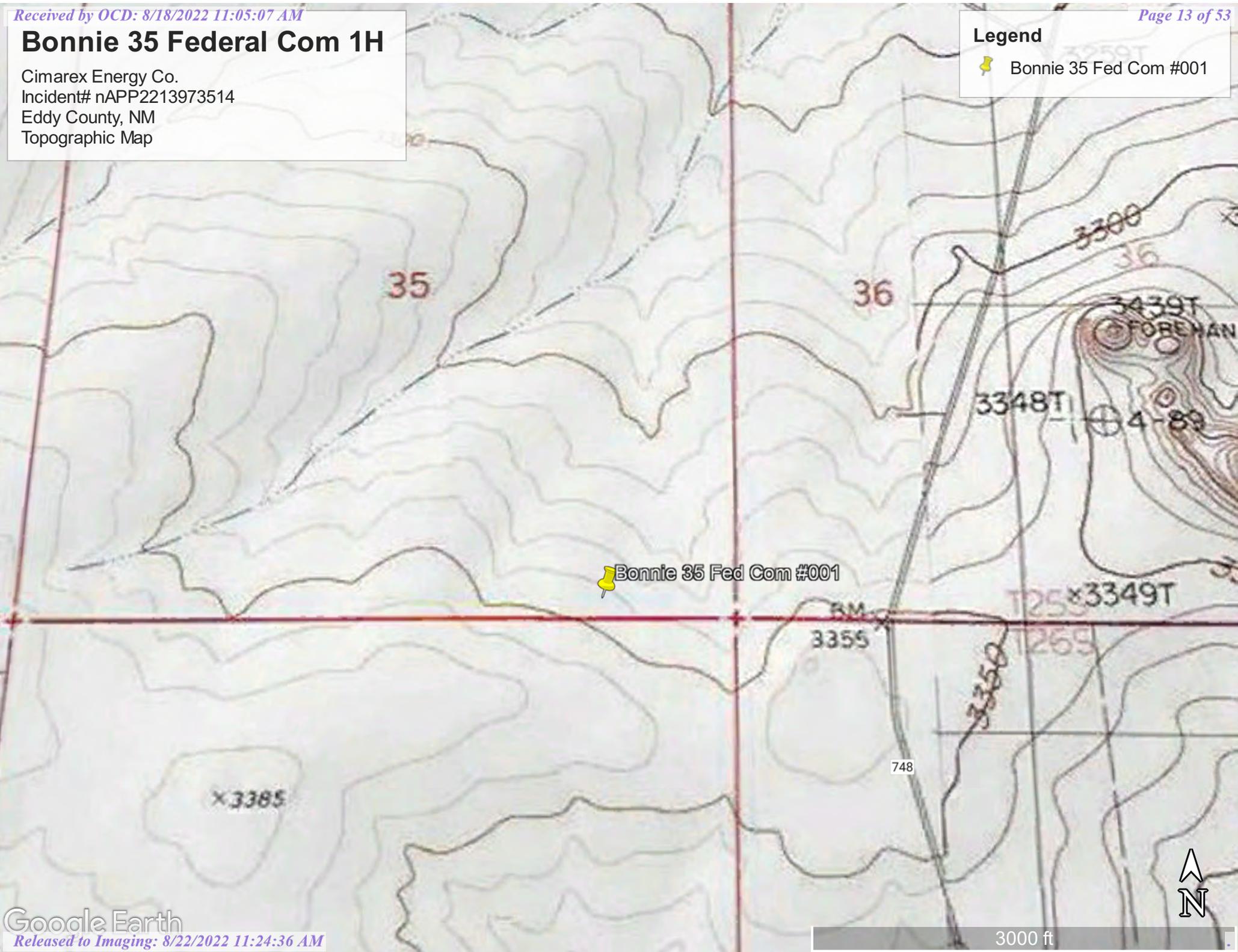


# Bonnie 35 Federal Com 1H

Cimarex Energy Co.  
Incident# nAPP2213973514  
Eddy County, NM  
Topographic Map

## Legend

 Bonnie 35 Fed Com #001

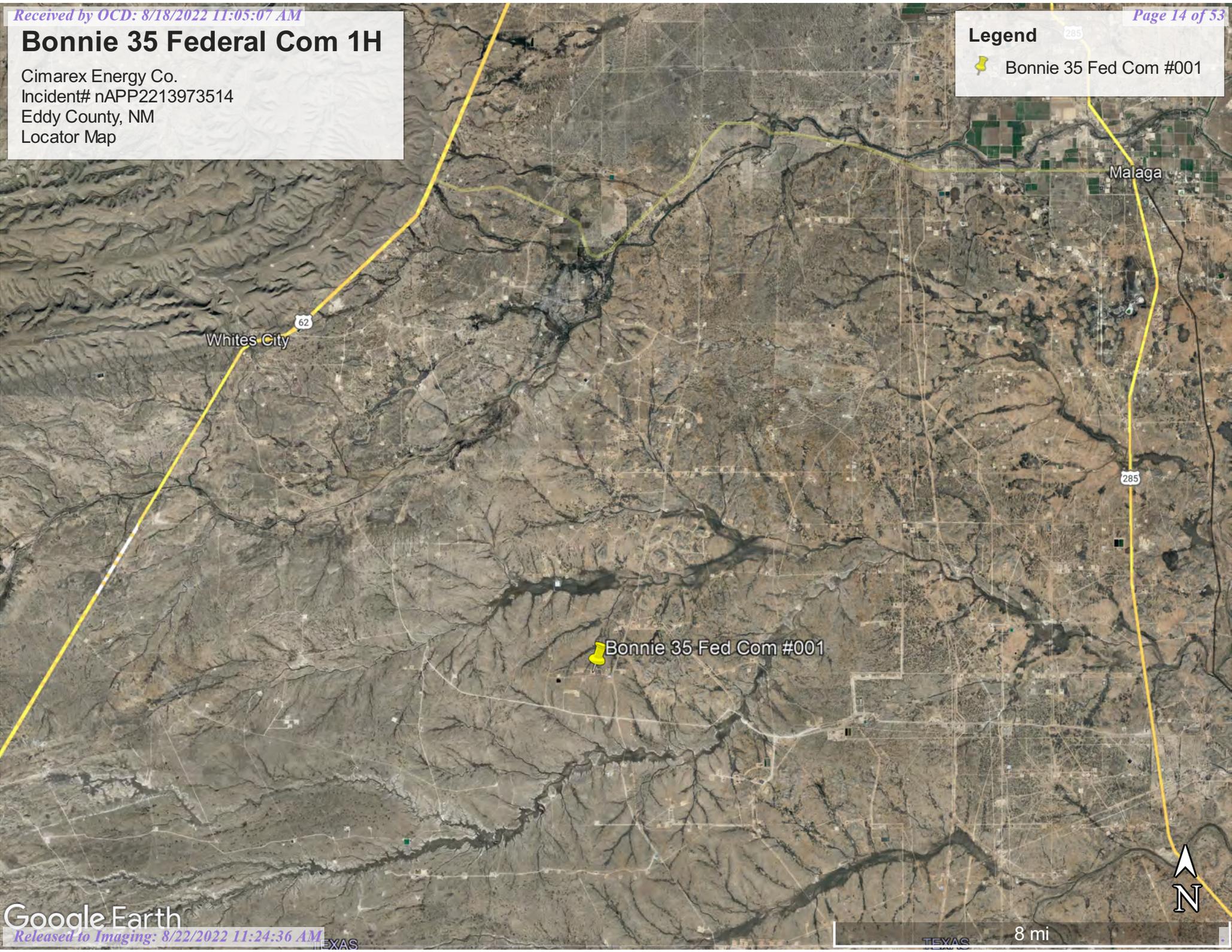


# Bonnie 35 Federal Com 1H

Cimarex Energy Co.  
Incident# nAPP2213973514  
Eddy County, NM  
Locator Map

## Legend

 Bonnie 35 Fed Com #001



# APPENDIX II

## GROUNDWATER DATA

## SOIL SURVEY

## FEMA FLOOD ZONE



# 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_01013</a>		C	ED			4	25	25S	26E	571505	3551456*	2475	245		
<a href="#">C_02221</a>		CUB	ED	4	3	2	25	25S	26E	571412	3551961*	2844	35		
<a href="#">C_02220</a>		CUB	ED	3	1	2	26	25S	26E	569598	3552352*	2884	35		
<a href="#">C_02438</a>		CUB	ED	4	2	3	12	26S	26E	571015	3546705*	2970	30		
<a href="#">C_04329 POD1</a>		C	ED	2	2	2	27	25S	26E	568577	3552567	3383	57	14	43
<a href="#">C_03655 POD3</a>		CUB	ED	1	4	4	22	25S	26E	568458	3553019	3844			
<a href="#">C_02439</a>		CUB	ED	2	4	2	15	26S	26E	568614	3545697*	4041	30		
<a href="#">C_02218</a>		CUB	ED	4	1	4	07	26S	27E	573039	3546725*	4116	35		
<a href="#">C_01887</a>		C	ED	4	4	2	15	26S	26E	568614	3545497*	4229	53	31	22
<a href="#">C_03654 POD1</a>		CUB	ED	2	3	1	24	25S	26E	570654	3553773	4328			

Average Depth to Water: **22 feet**  
 Minimum Depth: **14 feet**  
 Maximum Depth: **31 feet**

**Record Count:** 10

**Basin/County Search:**

**County:** Eddy

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

**Easting (X):** 569994.25

**Northing (Y):** 3549495

**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.

8/15/22 8:53 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)

<b>Well Tag</b>	<b>POD Number</b>	<b>Q64</b>	<b>Q16</b>	<b>Q4</b>	<b>Sec</b>	<b>Tws</b>	<b>Rng</b>	<b>X</b>	<b>Y</b>
222B5	C 04329 POD1	2	2	2	27	25S	26E	568577	3552567

<b>Driller License:</b> 1348	<b>Driller Company:</b> TAYLOR WATER WELL SERVICE	
<b>Driller Name:</b> CLINTON E TAYLOR		
<b>Drill Start Date:</b> 06/07/2019	<b>Drill Finish Date:</b> 06/08/2019	<b>Plug Date:</b>
<b>Log File Date:</b> 06/17/2019	<b>PCW Rev Date:</b>	<b>Source:</b> Shallow
<b>Pump Type:</b>	<b>Pipe Discharge Size:</b>	<b>Estimated Yield:</b> 100 GPM
<b>Casing Size:</b> 4.50	<b>Depth Well:</b> 57 feet	<b>Depth Water:</b> 14 feet

Water Bearing Stratifications:	Top	Bottom	Description
	14	24	Other/Unknown
	24	57	Other/Unknown

Casing Perforations:	Top	Bottom
	20	57

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.

8/15/22 8:39 AM

POINT OF DIVERSION SUMMARY

Map Unit Description: Reeves-Gypsum land complex, 0 to 3 percent slopes---Eddy Area, New Mexico

## Eddy Area, New Mexico

### RG—Reeves-Gypsum land complex, 0 to 3 percent slopes

#### Map Unit Setting

*National map unit symbol:* 1w5f  
*Elevation:* 1,250 to 5,000 feet  
*Mean annual precipitation:* 10 to 25 inches  
*Mean annual air temperature:* 57 to 70 degrees F  
*Frost-free period:* 190 to 235 days  
*Farmland classification:* Not prime farmland

#### Map Unit Composition

*Reeves and similar soils:* 55 percent  
*Gypsum land:* 30 percent  
*Minor components:* 15 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Reeves

##### Setting

*Landform:* Ridges, plains, hills  
*Landform position (two-dimensional):* Shoulder, backslope, footslope, toeslope  
*Landform position (three-dimensional):* Side slope, crest, nose slope, head slope  
*Down-slope shape:* Convex  
*Across-slope shape:* Linear  
*Parent material:* Residuum weathered from gypsum

##### Typical profile

*H1 - 0 to 8 inches:* loam  
*H2 - 8 to 32 inches:* clay loam  
*H3 - 32 to 60 inches:* gypsiferous material

##### Properties and qualities

*Slope:* 0 to 1 percent  
*Depth to restrictive feature:* More than 80 inches  
*Drainage class:* Well drained  
*Runoff class:* High  
*Capacity of the most limiting layer to transmit water (Ksat):* Very low to moderately low (0.00 to 0.06 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 25 percent  
*Gypsum, maximum content:* 80 percent  
*Maximum salinity:* Very slightly saline to moderately saline (2.0 to 8.0 mmhos/cm)  
*Sodium adsorption ratio, maximum:* 4.0  
*Available water supply, 0 to 60 inches:* Low (about 4.3 inches)

Map Unit Description: Reeves-Gypsum land complex, 0 to 3 percent slopes---Eddy Area, New Mexico

---

### Interpretive groups

*Land capability classification (irrigated):* 3s  
*Land capability classification (nonirrigated):* 7s  
*Hydrologic Soil Group:* B  
*Ecological site:* R042XC007NM - Loamy  
*Hydric soil rating:* No

### Description of Gypsum Land

#### Setting

*Landform:* Ridges, plains, hills  
*Landform position (two-dimensional):* Shoulder, backslope, footslope, toeslope  
*Landform position (three-dimensional):* Side slope, crest, nose slope, head slope  
*Down-slope shape:* Convex  
*Across-slope shape:* Linear  
*Parent material:* Residuum weathered from gypsum

### Interpretive groups

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 8s  
*Hydric soil rating:* No

### Minor Components

#### Largo

*Percent of map unit:* 5 percent  
*Ecological site:* R042XC007NM - Loamy  
*Hydric soil rating:* No

#### Cottonwood

*Percent of map unit:* 5 percent  
*Ecological site:* R042XC033NM - Salty Bottomland  
*Hydric soil rating:* No

#### Reagan

*Percent of map unit:* 5 percent  
*Ecological site:* R042XC007NM - Loamy  
*Hydric soil rating:* No

## Data Source Information

Soil Survey Area: Eddy Area, New Mexico  
Survey Area Data: Version 17, Sep 12, 2021

# National Flood Hazard Layer FIRMette



104°15'49"W 32°5'2"N



## Legend

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

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) <i>Zone A, V, A99</i>
		With BFE or Depth <i>Zone AE, AO, AH, VE, AR</i>
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile <i>Zone X</i>
		Future Conditions 1% Annual Chance Flood Hazard <i>Zone X</i>
		Area with Reduced Flood Risk due to Levee. See Notes. <i>Zone X</i>
		Area with Flood Risk due to Levee <i>Zone D</i>
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard <i>Zone X</i>
		Effective LOMRs
		Area of Undetermined Flood Hazard <i>Zone D</i>
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Profile Baseline
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped

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



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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 8/15/2022 at 10:55 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.

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

# APPENDIX III

**INITIAL C-141**

**FINAL C-141**

**NMOCD CORRESPONDENCE**

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

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

Incident ID	nAPP2213973514
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) nAPP2213973514
Contact mailing address: 600 N Marienfeld Street, Ste. 600 Midland, TX 79701	

### Location of Release Source

Latitude 32.07956 \_\_\_\_\_ Longitude -104.25831 \_\_\_\_\_  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Bonnie 35 Federal Com 1H	Site Type: Well Pad
Date Release Discovered: 5/18/2022	API# (if applicable) 30-015-42956

Unit Letter	Section	Township	Range	County
P	35	25S	26E	Eddy

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

### Nature and Volume of Release

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

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 5	Volume Recovered (bbls) 1
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 15	Volume Recovered (bbls) 1
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: Equipment Failure

The Kimray flow control valve washout on the bottom due to erosion, resulting in 20 barrels fluid spilling into the cellar and onto location. The well was shut in immediately and a vacuum tanker was dispatched and able to recover 2 barrels fluid. A hydrovac truck is being sought to recover fluids from the cellar and impacted soil as well. An environmental consultant will sample the impacted area to confirm clean.

State of New Mexico  
Oil Conservation Division

Page 2

Incident ID	nAPP2213973514
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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

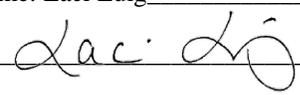
*The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury*

- 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: 5/19/2022 \_\_\_\_\_  
 email: laci.luig@coterra.com \_\_\_\_\_ Telephone: (432) 208-3035 \_\_\_\_\_

**OCD Only**  
 Received by: Jocelyn Harimon \_\_\_\_\_ Date: 08/18/2022 \_\_\_\_\_

Incident ID	nAPP2213973514
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?	_ 14 _ (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 checked="" type="checkbox"/> Yes <input 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	nAPP2213973514
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: 8/18/2022 \_\_\_\_\_

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

**OCD Only**

Received by: Jocelyn Harimon \_\_\_\_\_ Date: 08/18/2022 \_\_\_\_\_

Incident ID	nAPP2213973514
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: 8/18/2022

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

**OCD Only**

Received by: Jocelyn Harimon Date: 08/18/2022

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: \_\_\_\_\_

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

**From:** [Laci Luig](#)  
**To:** [Jim Hawley](#); [Michael Collier](#)  
**Subject:** FW: nAPP2213973514 Bonnie 35 Federal Com 1 confirmation sampling  
**Date:** Thursday, August 4, 2022 11:41:41 AM

---

[Laci Luig](#)  
(432) 208-3035

---

**From:** Laci Luig <[Laci.Luig@coterra.com](mailto:Laci.Luig@coterra.com)>  
**Sent:** Thursday, August 4, 2022 12:41 PM  
**To:** NMOCD Spill Notifications <[OCD.Enviro@state.nm.us](mailto:OCD.Enviro@state.nm.us)>; BLM NM CFO Spill <[BLM\\_NM\\_CFO\\_Spill@blm.gov](mailto:BLM_NM_CFO_Spill@blm.gov)>  
**Subject:** nAPP2213973514 Bonnie 35 Federal Com 1 confirmation sampling

This email serves as notification for confirmation sampling on the Cimarex – Bonnie 35 Federal Com 1H. Excavation began August 2nd and sampling is scheduled to begin as early as Friday, August 5th and will be collected by H&R Enterprises.

Thank you,



**Laci Luig** | Environmental Safety & Health 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. | 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



# APPENDIX V

## LABORATORY DATA



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

---

August 08, 2022

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

RE: BONNIE 35 FEDERAL COM 1H ( BONNIE )

Enclosed are the results of analyses for samples received by the laboratory on 08/05/22 14:14.

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.

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:	08/05/2022	Sampling Date:	08/05/2022
Reported:	08/08/2022	Sampling Type:	Soil
Project Name:	BONNIE 35 FEDERAL COM 1H ( BONNIE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX- EDDY CO NM		

**Sample ID: S - 1 3' (H223515-01)**

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	08/05/2022	ND	2.04	102	2.00	1.25	
Toluene*	<0.050	0.050	08/05/2022	ND	2.11	106	2.00	0.767	
Ethylbenzene*	<0.050	0.050	08/05/2022	ND	2.15	107	2.00	1.35	
Total Xylenes*	<0.150	0.150	08/05/2022	ND	6.57	109	6.00	1.23	
Total BTEX	<0.300	0.300	08/05/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	08/08/2022	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/08/2022	ND	195	97.5	200	3.96	
<b>DRO &gt;C10-C28*</b>	<b>26.6</b>	10.0	08/08/2022	ND	213	106	200	5.28	
EXT DRO >C28-C36	<10.0	10.0	08/08/2022	ND					

Surrogate: 1-Chlorooctane 94.5 % 43-149

Surrogate: 1-Chlorooctadecane 111 % 42.5-161

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:	08/05/2022	Sampling Date:	08/05/2022
Reported:	08/08/2022	Sampling Type:	Soil
Project Name:	BONNIE 35 FEDERAL COM 1H ( BONNIE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX- EDDY CO NM		

**Sample ID: S - 2 3' (H223515-02)**

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	08/05/2022	ND	2.04	102	2.00	1.25		
Toluene*	<0.050	0.050	08/05/2022	ND	2.11	106	2.00	0.767		
Ethylbenzene*	<0.050	0.050	08/05/2022	ND	2.15	107	2.00	1.35		
Total Xylenes*	<0.150	0.150	08/05/2022	ND	6.57	109	6.00	1.23		
Total BTEX	<0.300	0.300	08/05/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 69.9-140

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>112</b>	16.0	08/08/2022	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/05/2022	ND	224	112	200	0.930		
DRO >C10-C28*	<10.0	10.0	08/05/2022	ND	210	105	200	0.682		
EXT DRO >C28-C36	<10.0	10.0	08/05/2022	ND						

Surrogate: 1-Chlorooctane 94.3 % 43-149

Surrogate: 1-Chlorooctadecane 108 % 42.5-161

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:	08/05/2022	Sampling Date:	08/05/2022
Reported:	08/08/2022	Sampling Type:	Soil
Project Name:	BONNIE 35 FEDERAL COM 1H ( BONNIE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX- EDDY CO NM		

**Sample ID: S - 3 3' (H223515-03)**

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	08/05/2022	ND	2.04	102	2.00	1.25		
Toluene*	<0.050	0.050	08/05/2022	ND	2.11	106	2.00	0.767		
Ethylbenzene*	<0.050	0.050	08/05/2022	ND	2.15	107	2.00	1.35		
Total Xylenes*	<0.150	0.150	08/05/2022	ND	6.57	109	6.00	1.23		
Total BTEX	<0.300	0.300	08/05/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	08/08/2022	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	08/05/2022	ND	224	112	200	0.930		
DRO >C10-C28*	<10.0	10.0	08/05/2022	ND	210	105	200	0.682		
EXT DRO >C28-C36	<10.0	10.0	08/05/2022	ND						

Surrogate: 1-Chlorooctane 85.2 % 43-149

Surrogate: 1-Chlorooctadecane 103 % 42.5-161

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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:	08/05/2022	Sampling Date:	08/05/2022
Reported:	08/08/2022	Sampling Type:	Soil
Project Name:	BONNIE 35 FEDERAL COM 1H ( BONNIE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX- EDDY CO NM		

**Sample ID: S - 4 3' (H223515-04)**

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	08/05/2022	ND	2.04	102	2.00	1.25		
Toluene*	<0.050	0.050	08/05/2022	ND	2.11	106	2.00	0.767		
Ethylbenzene*	<0.050	0.050	08/05/2022	ND	2.15	107	2.00	1.35		
Total Xylenes*	<0.150	0.150	08/05/2022	ND	6.57	109	6.00	1.23		
Total BTEX	<0.300	0.300	08/05/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	08/08/2022	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	08/05/2022	ND	224	112	200	0.930		
DRO >C10-C28*	<10.0	10.0	08/05/2022	ND	210	105	200	0.682		
EXT DRO >C28-C36	<10.0	10.0	08/05/2022	ND						

Surrogate: 1-Chlorooctane 88.6 % 43-149

Surrogate: 1-Chlorooctadecane 105 % 42.5-161

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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:	08/05/2022	Sampling Date:	08/05/2022
Reported:	08/08/2022	Sampling Type:	Soil
Project Name:	BONNIE 35 FEDERAL COM 1H ( BONNIE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX- EDDY CO NM		

**Sample ID: S - 5 3' (H223515-05)**

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	08/05/2022	ND	2.04	102	2.00	1.25		
Toluene*	<0.050	0.050	08/05/2022	ND	2.11	106	2.00	0.767		
Ethylbenzene*	<0.050	0.050	08/05/2022	ND	2.15	107	2.00	1.35		
Total Xylenes*	<0.150	0.150	08/05/2022	ND	6.57	109	6.00	1.23		
Total BTEX	<0.300	0.300	08/05/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	08/08/2022	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	08/06/2022	ND	224	112	200	0.930		
DRO >C10-C28*	<10.0	10.0	08/06/2022	ND	210	105	200	0.682		
EXT DRO >C28-C36	<10.0	10.0	08/06/2022	ND						

Surrogate: 1-Chlorooctane 88.5 % 43-149

Surrogate: 1-Chlorooctadecane 106 % 42.5-161

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:	08/05/2022	Sampling Date:	08/05/2022
Reported:	08/08/2022	Sampling Type:	Soil
Project Name:	BONNIE 35 FEDERAL COM 1H ( BONNIE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX- EDDY CO NM		

**Sample ID: S - 6 3' (H223515-06)**

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	08/05/2022	ND	2.04	102	2.00	1.25		
Toluene*	<0.050	0.050	08/05/2022	ND	2.11	106	2.00	0.767		
Ethylbenzene*	<0.050	0.050	08/05/2022	ND	2.15	107	2.00	1.35		
Total Xylenes*	<0.150	0.150	08/05/2022	ND	6.57	109	6.00	1.23		
Total BTEX	<0.300	0.300	08/05/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	08/08/2022	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	08/06/2022	ND	224	112	200	0.930		
DRO >C10-C28*	<10.0	10.0	08/06/2022	ND	210	105	200	0.682		
EXT DRO >C28-C36	<10.0	10.0	08/06/2022	ND						

Surrogate: 1-Chlorooctane 81.6 % 43-149

Surrogate: 1-Chlorooctadecane 95.2 % 42.5-161

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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:	08/05/2022	Sampling Date:	08/05/2022
Reported:	08/08/2022	Sampling Type:	Soil
Project Name:	BONNIE 35 FEDERAL COM 1H ( BONNIE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX- EDDY CO NM		

**Sample ID: S - 7 3' (H223515-07)**

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	08/05/2022	ND	2.04	102	2.00	1.25		
Toluene*	<0.050	0.050	08/05/2022	ND	2.11	106	2.00	0.767		
Ethylbenzene*	<0.050	0.050	08/05/2022	ND	2.15	107	2.00	1.35		
Total Xylenes*	<0.150	0.150	08/05/2022	ND	6.57	109	6.00	1.23		
Total BTEX	<0.300	0.300	08/05/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	08/08/2022	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	08/06/2022	ND	224	112	200	0.930		
DRO >C10-C28*	<10.0	10.0	08/06/2022	ND	210	105	200	0.682		
EXT DRO >C28-C36	<10.0	10.0	08/06/2022	ND						

Surrogate: 1-Chlorooctane 87.8 % 43-149

Surrogate: 1-Chlorooctadecane 104 % 42.5-161

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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:	08/05/2022	Sampling Date:	08/05/2022
Reported:	08/08/2022	Sampling Type:	Soil
Project Name:	BONNIE 35 FEDERAL COM 1H ( BONNIE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX- EDDY CO NM		

**Sample ID: S - 8 3' (H223515-08)**

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	08/05/2022	ND	2.04	102	2.00	1.25		
Toluene*	<0.050	0.050	08/05/2022	ND	2.11	106	2.00	0.767		
Ethylbenzene*	<0.050	0.050	08/05/2022	ND	2.15	107	2.00	1.35		
Total Xylenes*	<0.150	0.150	08/05/2022	ND	6.57	109	6.00	1.23		
Total BTEX	<0.300	0.300	08/05/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	08/08/2022	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	08/06/2022	ND	224	112	200	0.930		
DRO >C10-C28*	<10.0	10.0	08/06/2022	ND	210	105	200	0.682		
EXT DRO >C28-C36	<10.0	10.0	08/06/2022	ND						

Surrogate: 1-Chlorooctane 90.8 % 43-149

Surrogate: 1-Chlorooctadecane 105 % 42.5-161

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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:	08/05/2022	Sampling Date:	08/05/2022
Reported:	08/08/2022	Sampling Type:	Soil
Project Name:	BONNIE 35 FEDERAL COM 1H ( BONNIE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX- EDDY CO NM		

**Sample ID: S - 9 3' (H223515-09)**

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	08/06/2022	ND	2.03	101	2.00	0.340		
Toluene*	<0.050	0.050	08/06/2022	ND	2.10	105	2.00	0.499		
Ethylbenzene*	<0.050	0.050	08/06/2022	ND	2.14	107	2.00	0.0391		
Total Xylenes*	<0.150	0.150	08/06/2022	ND	6.57	109	6.00	0.256		
Total BTEX	<0.300	0.300	08/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	08/08/2022	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	08/06/2022	ND	224	112	200	0.930		
DRO >C10-C28*	<10.0	10.0	08/06/2022	ND	210	105	200	0.682		
EXT DRO >C28-C36	<10.0	10.0	08/06/2022	ND						

Surrogate: 1-Chlorooctane 87.0 % 43-149

Surrogate: 1-Chlorooctadecane 101 % 42.5-161

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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:	08/05/2022	Sampling Date:	08/05/2022
Reported:	08/08/2022	Sampling Type:	Soil
Project Name:	BONNIE 35 FEDERAL COM 1H ( BONNIE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX- EDDY CO NM		

**Sample ID: S - 10 3' (H223515-10)**

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	08/06/2022	ND	2.03	101	2.00	0.340	
Toluene*	<0.050	0.050	08/06/2022	ND	2.10	105	2.00	0.499	
Ethylbenzene*	<0.050	0.050	08/06/2022	ND	2.14	107	2.00	0.0391	
Total Xylenes*	<0.150	0.150	08/06/2022	ND	6.57	109	6.00	0.256	
Total BTEX	<0.300	0.300	08/06/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	08/08/2022	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	08/06/2022	ND	224	112	200	0.930	
DRO >C10-C28*	<10.0	10.0	08/06/2022	ND	210	105	200	0.682	
EXT DRO >C28-C36	<10.0	10.0	08/06/2022	ND					

Surrogate: 1-Chlorooctane 100 % 43-149

Surrogate: 1-Chlorooctadecane 117 % 42.5-161

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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:	08/05/2022	Sampling Date:	08/05/2022
Reported:	08/08/2022	Sampling Type:	Soil
Project Name:	BONNIE 35 FEDERAL COM 1H ( BONNIE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX- EDDY CO NM		

**Sample ID: SW - 1 3' (H223515-11)**

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	08/06/2022	ND	2.03	101	2.00	0.340	
Toluene*	<0.050	0.050	08/06/2022	ND	2.10	105	2.00	0.499	
Ethylbenzene*	<0.050	0.050	08/06/2022	ND	2.14	107	2.00	0.0391	
Total Xylenes*	<0.150	0.150	08/06/2022	ND	6.57	109	6.00	0.256	
Total BTEX	<0.300	0.300	08/06/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>176</b>	16.0	08/08/2022	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	08/06/2022	ND	224	112	200	0.930	
DRO >C10-C28*	<10.0	10.0	08/06/2022	ND	210	105	200	0.682	
EXT DRO >C28-C36	<10.0	10.0	08/06/2022	ND					

Surrogate: 1-Chlorooctane 85.4 % 43-149

Surrogate: 1-Chlorooctadecane 99.1 % 42.5-161

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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:	08/05/2022	Sampling Date:	08/05/2022
Reported:	08/08/2022	Sampling Type:	Soil
Project Name:	BONNIE 35 FEDERAL COM 1H ( BONNIE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX- EDDY CO NM		

**Sample ID: SW - 2 3' (H223515-12)**

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	08/06/2022	ND	2.03	101	2.00	0.340		
Toluene*	<0.050	0.050	08/06/2022	ND	2.10	105	2.00	0.499		
Ethylbenzene*	<0.050	0.050	08/06/2022	ND	2.14	107	2.00	0.0391		
Total Xylenes*	<0.150	0.150	08/06/2022	ND	6.57	109	6.00	0.256		
Total BTEX	<0.300	0.300	08/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	08/08/2022	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	08/06/2022	ND	224	112	200	0.930		
DRO >C10-C28*	<10.0	10.0	08/06/2022	ND	210	105	200	0.682		
EXT DRO >C28-C36	<10.0	10.0	08/06/2022	ND						

Surrogate: 1-Chlorooctane 85.8 % 43-149

Surrogate: 1-Chlorooctadecane 100 % 42.5-161

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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:	08/05/2022	Sampling Date:	08/05/2022
Reported:	08/08/2022	Sampling Type:	Soil
Project Name:	BONNIE 35 FEDERAL COM 1H ( BONNIE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX- EDDY CO NM		

**Sample ID: SW - 3 3' (H223515-13)**

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	08/06/2022	ND	2.03	101	2.00	0.340		
Toluene*	<0.050	0.050	08/06/2022	ND	2.10	105	2.00	0.499		
Ethylbenzene*	<0.050	0.050	08/06/2022	ND	2.14	107	2.00	0.0391		
Total Xylenes*	<0.150	0.150	08/06/2022	ND	6.57	109	6.00	0.256		
Total BTEX	<0.300	0.300	08/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	08/08/2022	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	08/06/2022	ND	224	112	200	0.930		
DRO >C10-C28*	<10.0	10.0	08/06/2022	ND	210	105	200	0.682		
EXT DRO >C28-C36	<10.0	10.0	08/06/2022	ND						

Surrogate: 1-Chlorooctane 79.1 % 43-149

Surrogate: 1-Chlorooctadecane 91.5 % 42.5-161

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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:	08/05/2022	Sampling Date:	08/05/2022
Reported:	08/08/2022	Sampling Type:	Soil
Project Name:	BONNIE 35 FEDERAL COM 1H ( BONNIE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX- EDDY CO NM		

**Sample ID: SW - 4 3' (H223515-14)**

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	08/06/2022	ND	2.03	101	2.00	0.340	
Toluene*	<0.050	0.050	08/06/2022	ND	2.10	105	2.00	0.499	
Ethylbenzene*	<0.050	0.050	08/06/2022	ND	2.14	107	2.00	0.0391	
Total Xylenes*	<0.150	0.150	08/06/2022	ND	6.57	109	6.00	0.256	
Total BTEX	<0.300	0.300	08/06/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>160</b>	16.0	08/08/2022	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	08/06/2022	ND	224	112	200	0.930	
<b>DRO &gt;C10-C28*</b>	<b>55.2</b>	10.0	08/06/2022	ND	210	105	200	0.682	
EXT DRO >C28-C36	<10.0	10.0	08/06/2022	ND					

Surrogate: 1-Chlorooctane 86.7 % 43-149

Surrogate: 1-Chlorooctadecane 107 % 42.5-161

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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:	08/05/2022	Sampling Date:	08/05/2022
Reported:	08/08/2022	Sampling Type:	Soil
Project Name:	BONNIE 35 FEDERAL COM 1H ( BONNIE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX- EDDY CO NM		

**Sample ID: BG - 1 0-1' (H223515-15)**

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	08/06/2022	ND	2.03	101	2.00	0.340	
Toluene*	<0.050	0.050	08/06/2022	ND	2.10	105	2.00	0.499	
Ethylbenzene*	<0.050	0.050	08/06/2022	ND	2.14	107	2.00	0.0391	
Total Xylenes*	<0.150	0.150	08/06/2022	ND	6.57	109	6.00	0.256	
Total BTEX	<0.300	0.300	08/06/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/08/2022	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	08/06/2022	ND	224	112	200	0.930	
DRO >C10-C28*	<10.0	10.0	08/06/2022	ND	210	105	200	0.682	
EXT DRO >C28-C36	<10.0	10.0	08/06/2022	ND					

Surrogate: 1-Chlorooctane 81.4 % 43-149

Surrogate: 1-Chlorooctadecane 94.9 % 42.5-161

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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:	08/05/2022	Sampling Date:	08/05/2022
Reported:	08/08/2022	Sampling Type:	Soil
Project Name:	BONNIE 35 FEDERAL COM 1H ( BONNIE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX- EDDY CO NM		

**Sample ID: BG - 2 0-1' (H223515-16)**

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	08/06/2022	ND	2.03	101	2.00	0.340	
Toluene*	<0.050	0.050	08/06/2022	ND	2.10	105	2.00	0.499	
Ethylbenzene*	<0.050	0.050	08/06/2022	ND	2.14	107	2.00	0.0391	
Total Xylenes*	<0.150	0.150	08/06/2022	ND	6.57	109	6.00	0.256	
Total BTEX	<0.300	0.300	08/06/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/08/2022	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	08/08/2022	ND	195	97.5	200	3.96	
DRO >C10-C28*	<10.0	10.0	08/08/2022	ND	213	106	200	5.28	
EXT DRO >C28-C36	<10.0	10.0	08/08/2022	ND					

Surrogate: 1-Chlorooctane 72.7 % 43-149

Surrogate: 1-Chlorooctadecane 83.0 % 42.5-161

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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:	08/05/2022	Sampling Date:	08/05/2022
Reported:	08/08/2022	Sampling Type:	Soil
Project Name:	BONNIE 35 FEDERAL COM 1H ( BONNIE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX- EDDY CO NM		

**Sample ID: BG - 3 0-1' (H223515-17)**

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	08/06/2022	ND	2.03	101	2.00	0.340		
Toluene*	<0.050	0.050	08/06/2022	ND	2.10	105	2.00	0.499		
Ethylbenzene*	<0.050	0.050	08/06/2022	ND	2.14	107	2.00	0.0391		
Total Xylenes*	<0.150	0.150	08/06/2022	ND	6.57	109	6.00	0.256		
Total BTEX	<0.300	0.300	08/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	08/08/2022	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	08/08/2022	ND	195	97.5	200	3.96		
DRO >C10-C28*	<10.0	10.0	08/08/2022	ND	213	106	200	5.28		
EXT DRO >C28-C36	<10.0	10.0	08/08/2022	ND						

Surrogate: 1-Chlorooctane 91.1 % 43-149

Surrogate: 1-Chlorooctadecane 96.6 % 42.5-161

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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:	08/05/2022	Sampling Date:	08/05/2022
Reported:	08/08/2022	Sampling Type:	Soil
Project Name:	BONNIE 35 FEDERAL COM 1H ( BONNIE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX- EDDY CO NM		

**Sample ID: BG - 4 0-1' (H223515-18)**

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	08/06/2022	ND	2.03	101	2.00	0.340		
Toluene*	<0.050	0.050	08/06/2022	ND	2.10	105	2.00	0.499		
Ethylbenzene*	<0.050	0.050	08/06/2022	ND	2.14	107	2.00	0.0391		
Total Xylenes*	<0.150	0.150	08/06/2022	ND	6.57	109	6.00	0.256		
Total BTEX	<0.300	0.300	08/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	08/08/2022	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	08/08/2022	ND	195	97.5	200	3.96		
DRO >C10-C28*	<10.0	10.0	08/08/2022	ND	213	106	200	5.28		
EXT DRO >C28-C36	<10.0	10.0	08/08/2022	ND						

Surrogate: 1-Chlorooctane 90.3 % 43-149

Surrogate: 1-Chlorooctadecane 99.8 % 42.5-161

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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, 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 **BILL TO** ANALYSIS REQUEST

Project Manager: Michael Collier P.O. #: Company: Cimarex Energy  
 Address: City: State: Zip: Attn: Lael Lujg  
 Phone #: Fax #: Project Owner: Cimarex Energy  
 Project #: City: State: Zip: Address:  
 Project Name: Bonnie 35 Federal Com 1H (Bonnie) Phone #: Fax #:  
 Project Location: Eddy County, NM  
 Sample Name: M. Collier

FOR LAB USE ONLY  
 Lab I.D. Sample I.D. MATRIX PRESERV. SAMPLING

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER : ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	BTEX	TPH	Chlorides
	11	SW-1 3'	C	1		X			X			8-5-22		X	X	X
	12	SW-2 3'														
	13	SW-3 3'														
	14	SW-4 3'														
	15	BG-1 0-1'														
	16	BG-2 0-1'														
	17	BG-3 0-1'														
	18	BG-4 0-1'														

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Relinquished By: *M. Collier* Date: 8-5-22 Received By: *William R. [Signature]* Date: 8-5-22  
 Relinquished By: *[Signature]* Date: 8-5-22 Received By: *[Signature]* Date: 8-5-22

Delivered By: (Circle One) Observed Temp. °C: 28 Corrected Temp. °C: 28  
 Sampler - UPS - Bus - Other: Sample Condition: Cool  Yes  No  
 Checked By: (Initials) *W.R.* Thermometer ID #113 Observed Temp. °C: 48  
 Correction Factor -0.1°C Standard  Cool  Bacteria (only) Sample Condition:  Yes  No  
 Add'l Phone #:  Yes  No Corrected Temp. °C: 48

FORM-006 R.3.2.100721 Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinalabsnm.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 135440

**CONDITIONS**

Operator: CIMAREX ENERGY CO. 600 N. Marienfeld Street Midland, TX 79701	OGRID: 215099
	Action Number: 135440
	Action Type: [C-141] Release Corrective Action (C-141)

**CONDITIONS**

Created By	Condition	Condition Date
rhamlet	We have received your closure report and final C-141 for Incident #NAPP2213973514 BONNIE 35 FEDERAL COM 1H, thank you. This closure is approved.	8/22/2022