

Incident ID	nAPP2213664988
District RP	
Facility ID	
Application ID	

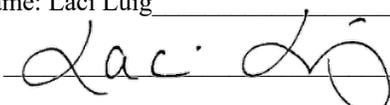
Closure

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: 9/26/2022
 email: laci.luig@coterra.com Telephone: (432) 208-3035

OCD Only

Received by: Jocelyn Harimon Date: 09/26/2022

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: 12/14/2022
 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

Irwin 23-14 Federal #003H
API# 30-015-39893
Incident# nAPP2213664988
Eddy County, New Mexico

Prepared For:

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

Prepared By:

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

September 23, 2022

Mrs. Crisha Morgan
Bureau of Land Management
602 E. Green St.
Carlsbad, NM 88240

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

Subject: **Remediation and Closure Report**
Irwin 23-14 Federal #003H
Incident# nAPP2213664988
Eddy County, NM

Dear to whom it may concern,

Cimarex Energy Co. of Colorado 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 Irwin 23-14 Federal #003H is located approximately 25.4 miles Northeast of Carlsbad, New Mexico. The legal location for this release is Unit Letter A, Section 23, Township 19 South and Range 30 East in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.64949 North and -103.93660 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 Potter Simona complex, 5 to 25 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 65-feet below ground surface (BGS). See [Appendix II](#) for the referenced groundwater data.

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

Approximate Depth to Groundwater **65 Feet/BGS**

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

As this is a remediation in an area with a depth to groundwater of greater than 50-feet BGS but being located in a high Karst area, 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 16, 2022, a flowline from the wellhead to the production equipment failed, releasing 12 barrels (bbls) of fluid onto the well pad. Fluids released consisted of 10 bbls of produced water and 2 bbls of crude oil, 0 bbls of which were recovered.

Site Assessment and Reclamation Activities

H&R mobilized personnel to begin remediation activities of the location. Grab samples were obtained by way of test trenching the release area. Field chloride titrations were performed as well as transported to Cardinal Laboratories for analysis. Initial test trench locations are illustrated on Test Trench Map, [Appendix I](#). After remediation was completed, composite confirmation samples were collected from the sidewalls and bottoms of the excavation and sent to Cardinal Laboratory to confirm NMOCD closure criteria had been met. Before, during, and after photographs of the location are attached in [Appendix IV](#). Complete laboratory reports can be found in [Appendix VI](#).

Table 1: Initial Test Trench 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
TT-1	9/2/2022	0-1'	ND	ND	ND	ND	ND	0	6640
		2'	ND	ND	ND	ND	ND	0	3440
		3'	ND	ND	ND	ND	ND	0	2480
		4'	ND	ND	ND	ND	ND	0	1380
		6'	ND	ND	ND	ND	ND	0	176
TT-2	9/2/2022	0-1'	ND	ND	ND	ND	ND	0	2520
		2'	ND	ND	ND	ND	ND	0	3440
		3'	ND	ND	ND	ND	ND	0	592
		4'	ND	ND	ND	ND	ND	0	256
TT-3	9/2/2022	0-1'	ND	ND	ND	ND	ND	0	832
		2'	ND	ND	ND	ND	ND	0	704
		3'	ND	ND	ND	ND	ND	0	880
		4'	ND	ND	ND	ND	ND	0	224

ND = Analyte Not Detected TT = Test Trench

Based on the results of our test trenching and upon client authorization, excavation of the release began. 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 composite sample locations and excavation dimensions can be found on Confirmation Sample Map in [Appendix I](#). Complete laboratory reports are attached in [Appendix VI](#).

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	100 mg/kg			100 mg/kg	600 mg/kg
S-1	9/8/2022	2'	ND	ND	ND	ND	ND	0	304
S-2	9/8/2022	2'	ND	ND	ND	ND	ND	0	208
S-3	9/8/2022	2'	ND	ND	ND	ND	ND	0	304
S-4	9/8/2022	2'	ND	ND	ND	ND	ND	0	304
S-5	9/8/2022	2'	ND	ND	ND	ND	ND	0	256
S-6	9/8/2022	2'	ND	ND	ND	ND	ND	0	256
S-7	9/8/2022	2'	ND	ND	ND	ND	ND	0	272
S-8	9/8/2022	4'	ND	ND	ND	ND	ND	0	400
S-9	9/8/2022	4'	ND	ND	ND	ND	ND	0	384
S-10	9/8/2022	4'	ND	ND	ND	ND	ND	0	256
S-11	9/8/2022	4'	ND	ND	ND	20.1	ND	20.1	640
	9/9/2022	5'	ND	ND	ND	ND	ND	0	112
S-12	9/8/2022	4'	ND	ND	ND	17	ND	17	800
	9/9/2022	5'	ND	ND	ND	ND	ND	0	128
S-13	9/8/2022	4'	ND	ND	ND	ND	ND	0	240
S-14	9/8/2022	5'	ND	ND	ND	12.4	ND	12.4	752
	9/9/2022	6'	ND	ND	ND	ND	ND	0	256
S-15	9/8/2022	6'	ND	ND	ND	ND	ND	0	256
SW-1	9/8/2022	2'	ND	ND	ND	ND	ND	0	224
SW-2	9/8/2022	2'	ND	ND	ND	ND	ND	0	240
SW-3	9/8/2022	4'	ND	ND	ND	ND	ND	0	720
	9/9/2022	4'	ND	ND	ND	ND	ND	0	256
SW-4	9/8/2022	5'	ND	ND	ND	ND	ND	0	256
SW-5	9/8/2022	6'	ND	ND	ND	ND	ND	0	240
SW-6	9/8/2022	6'	ND	ND	ND	ND	ND	0	320
SW-7	9/8/2022	6'	ND	ND	ND	ND	ND	0	192
SW-8	9/8/2022	5'	ND	ND	ND	ND	ND	0	256
SW-9	9/8/2022	4'	ND	ND	ND	ND	ND	0	688
	9/9/2022	4'	ND	ND	ND	ND	ND	0	256
SW-10	9/8/2022	2'	ND	ND	ND	ND	ND	0	224
BG-1	9/8/2022	0-1'	ND	ND	ND	ND	ND	0	32
BG-2	9/8/2022	0-1'	ND	ND	ND	ND	ND	0	16
BG-3	9/8/2022	0-1'	ND	ND	ND	ND	ND	0	ND
BG-4	9/8/2022	0-1'	ND	ND	ND	ND	ND	0	ND

ND = Analyte Not Detected SW = Sidewall BG = Background

Remedial Actions

- The impacted areas in the vicinity of sample points S-1 through S-7 were excavated to a total depth of 2-feet BGS.
- The areas near sample points S-8 through S-10 and S-13 were excavated to a total depth of 4-feet BGS.
- The areas near S-11 and S-12 were excavated to a total depth of 5-feet BGS. The areas near S-14 and S-15 were excavated to a total depth of 6-feet BGS.
- Composite confirmation samples were obtained from the sidewalls and bottoms of the excavated areas to verify that all contaminants above closure criteria had been removed. After initial confirmation sampling occurred, the sample zones of S-11, S-12, and S-14 were excavated 1-foot further vertically and resampled. The sidewall sample zones of SW-3 and SW-9 were excavated 2-feet horizontally and resampled. The results are shown on Table 2 and the corresponding lab reports may be found in [Appendix VI](#).
- All the excavated material (540yds) 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. of Colorado 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

Irwin 23-14 Federal #003H

Cimarex Energy Co. of Colorado
AP# 30-015-39893
Incident# nAPP2213664988
Eddy County, NM
Test Trench Map

Legend

-  Irwin 23-14 Federal #003H
-  Test Trench



Irwin 23-14 Federal #003H

Cimarex Energy Co. of Colorado
AP# 30-015-39893
Incident# nAPP2213664988
Eddy County, NM
Confirmation Sample Map

Legend

-  2ft. Excavation
-  4-5ft. Excavation
-  6ft. Excavation
-  Confirmation Composite Sample

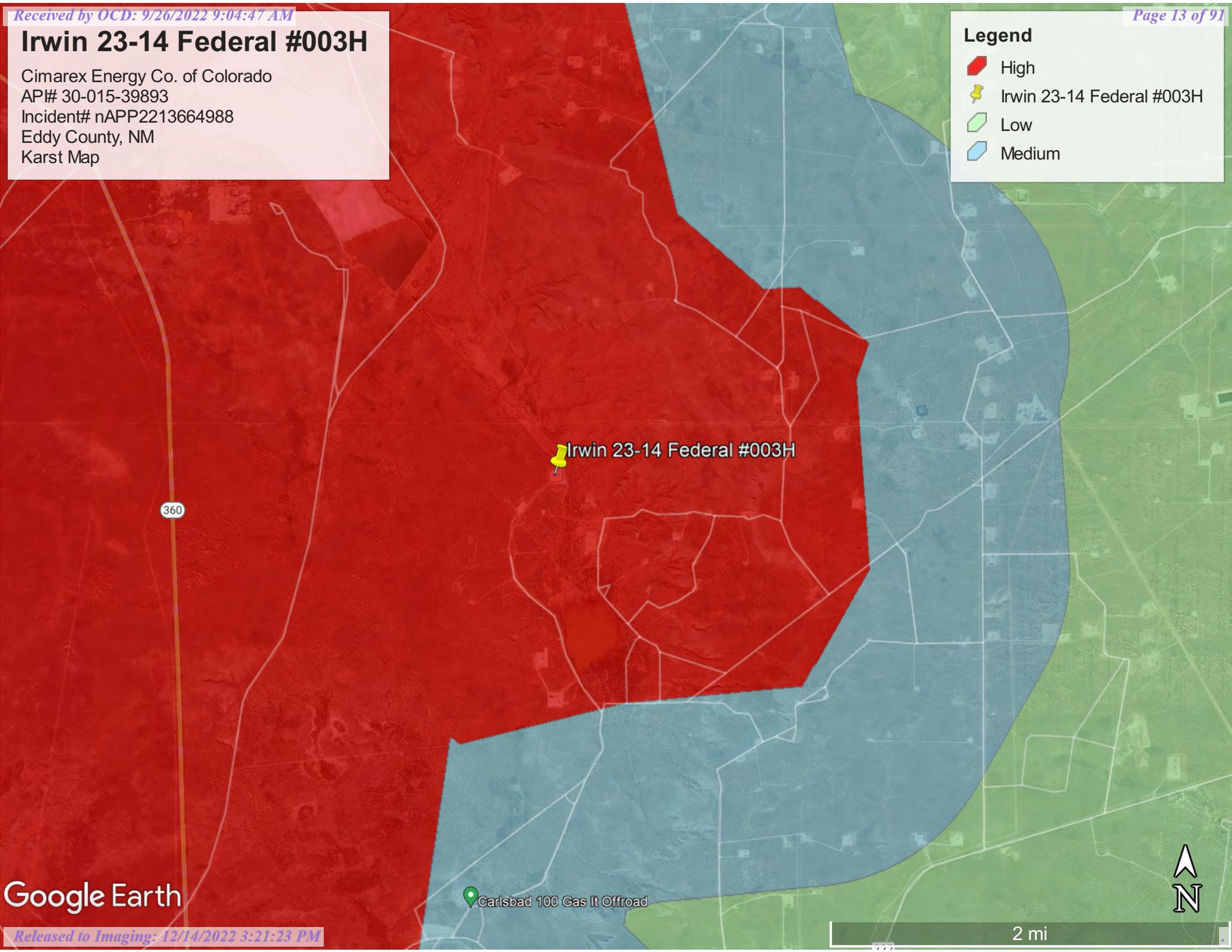


Irwin 23-14 Federal #003H

Cimarex Energy Co. of Colorado
AP# 30-015-39893
Incident# nAPP2213664988
Eddy County, NM
Karst Map

Legend

-  High
-  Irwin 23-14 Federal #003H
-  Low
-  Medium



Google Earth



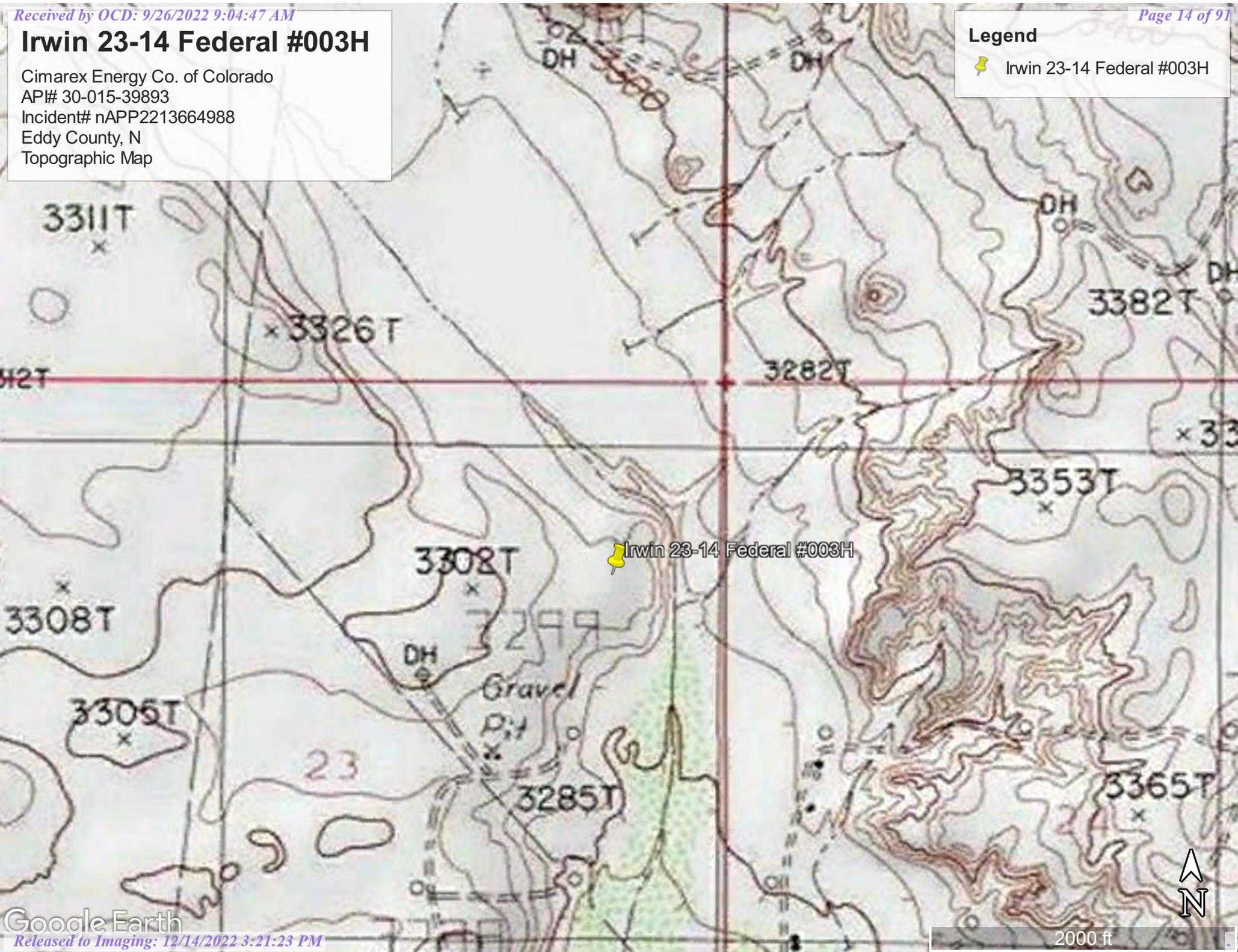
2 mi

Irwin 23-14 Federal #003H

Cimarex Energy Co. of Colorado
AP# 30-015-39893
Incident# nAPP2213664988
Eddy County, N
Topographic Map

Legend

-  Irwin 23-14 Federal #003H



 Irwin 23-14 Federal #003H

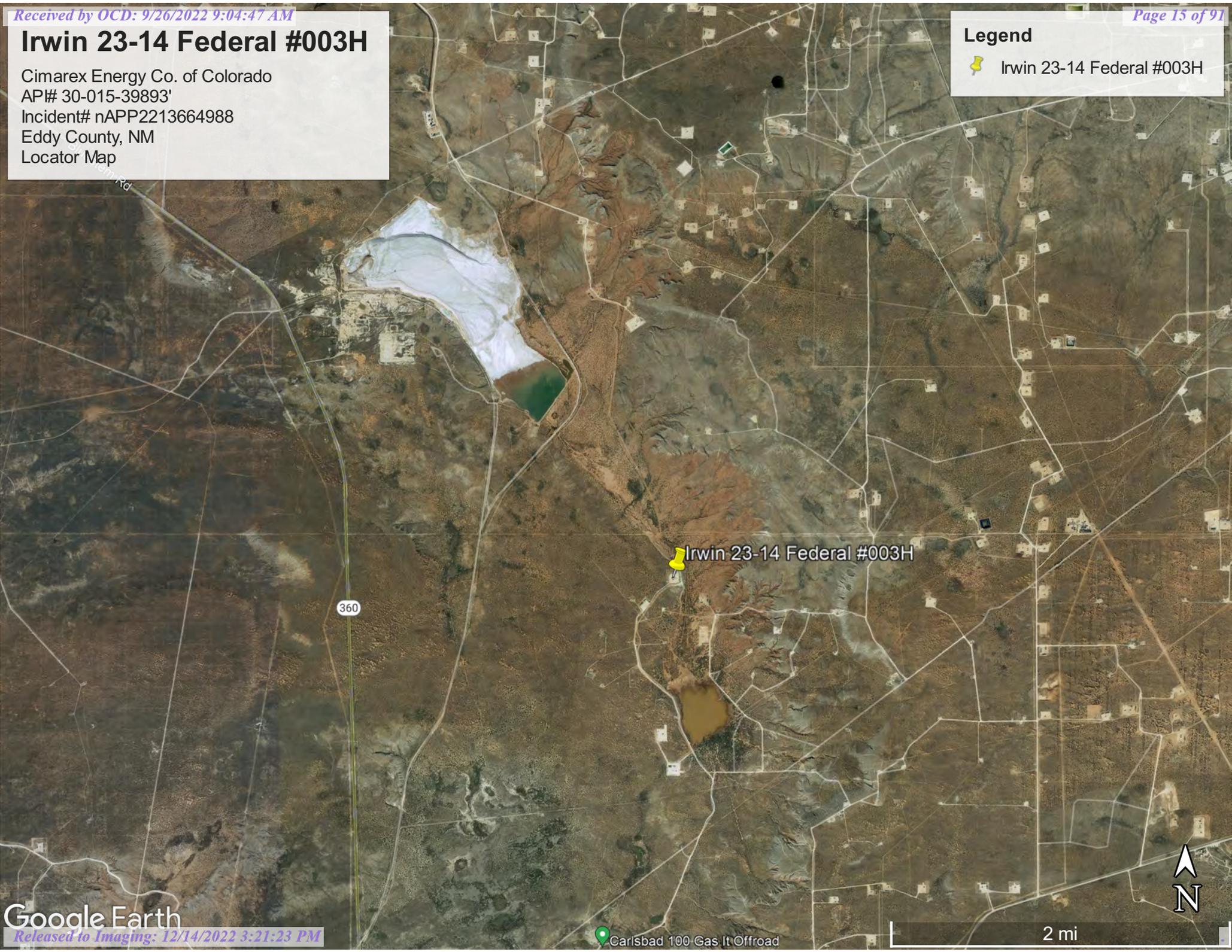


Irwin 23-14 Federal #003H

Cimarex Energy Co. of Colorado
AP# 30-015-39893'
Incident# nAPP2213664988
Eddy County, NM
Locator Map

Legend

-  Irwin 23-14 Federal #003H



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 4	Q 16	Q 64	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
CP.00357.POD2		CP	ED	4	3	1	24	19S	30E	600265	3612627*	610	630		
CP.00357.POD1		CP	ED	4	4	1	24	19S	30E	600667	3612631*	978	630		
CP.00722.POD2		CP	ED	2	1	1	25	19S	30E	600276	3611620*	1419	350	65	285
CP.00647.POD1	O	CP	ED	4	2	2	15	19S	30E	598235	3614621*	2259	200	92	108

Average Depth to Water: **78 feet**

Minimum Depth: **65 feet**

Maximum Depth: **92 feet**

Record Count: 4

Basin/County Search:

County: Eddy

UTMNAD83 Radius Search (in meters):

Easting (X): 599736.45

Northing (Y): 3612932.59

Radius: 3000

*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.

9/8/22 1:14 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

Map Unit Description: Potter-Simona complex, 5 to 25 percent slopes---Eddy Area, New Mexico

Eddy Area, New Mexico

PS—Potter-Simona complex, 5 to 25 percent slopes

Map Unit Setting

National map unit symbol: 1w57
Elevation: 2,750 to 5,000 feet
Mean annual precipitation: 8 to 16 inches
Mean annual air temperature: 57 to 70 degrees F
Frost-free period: 180 to 230 days
Farmland classification: Not prime farmland

Map Unit Composition

Potter and similar soils: 80 percent
Simona and similar soils: 15 percent
Minor components: 5 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Potter

Setting

Landform: Ridges, 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: Alluvium

Typical profile

H1 - 0 to 10 inches: gravelly loam
H2 - 10 to 60 inches: cemented material

Properties and qualities

Slope: 5 to 25 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Very high
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 60 percent
Maximum salinity: Nonsaline to slightly saline (0.0 to 4.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Very low (about 1.2 inches)

Map Unit Description: Potter-Simona complex, 5 to 25 percent slopes---Eddy Area, New Mexico

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: D
Ecological site: R042XC025NM - Shallow
Hydric soil rating: No

Description of Simona

Setting

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

Typical profile

H1 - 0 to 11 inches: gravelly fine sandy loam
H2 - 11 to 19 inches: gravelly fine sandy loam
H3 - 19 to 60 inches: cemented material

Properties and qualities

Slope: 5 to 10 percent
Depth to restrictive feature: 7 to 20 inches to petrocalcic
Drainage class: Well drained
Runoff class: Very high
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 15 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Very low (about 2.2 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: D
Ecological site: R042XC002NM - Shallow Sandy
Hydric soil rating: No

Minor Components

Simona

Percent of map unit: 3 percent
Ecological site: R042XC002NM - Shallow Sandy
Hydric soil rating: No

Rock outcrop

Percent of map unit: 2 percent

Map Unit Description: Potter-Simona complex, 5 to 25 percent slopes---Eddy Area, New Mexico

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



103°56'30"W 32°39'13"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
GENERAL STRUCTURES		Area of Undetermined Flood Hazard <i>Zone D</i>
		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance
		17.5 Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
MAP PANELS		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature
		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 9/23/2022 at 12:49 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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

APPENDIX III

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	nAPP2213664988
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Cimarex Energy Co. of Colorado	OGRID: 162683
Contact Name: Laci Luig	Contact Telephone: (432) 571-7800
Contact email: laci.luig@coterra.com	Incident # (assigned by OCD) nAPP2213664988
Contact mailing address: 600 N Marienfeld Street, Ste. 600 Midland, TX 79701	

Location of Release Source

Latitude 32.64949 _____ Longitude -103.93660 _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Irwin 23-14 Federal 3H	Site Type: Well Pad
Date Release Discovered: 5/16/2022	API# (if applicable) 30-015-39893

Unit Letter	Section	Township	Range	County
A	23	19S	30E	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) 2	Volume Recovered (bbls) 0
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 10	Volume Recovered (bbls) 0
	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

A flowline from the wellhead to the production equipment failed, releasing 12 bbls of fluid. The fluid released was comprised of 10 bbls produced water and 2 bbls of crude oil. A hydrovac has been dispatched to location to remove impact. An environmental consultant will begin the delineation and remediation process soon.

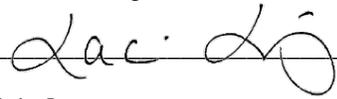
State of New Mexico
Oil Conservation Division

Incident ID	nAPP2213664988
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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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain why:
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.
Printed Name: Laci Luig _____ Title: ESH Specialist _____ Signature:  _____ Date: 5/16/2022 _____ email: laci.luig@coterra.com _____ Telephone: (432) 208-3035 _____
<u>OCD Only</u> Received by: Jocelyn Harimon _____ Date: 09/26/2022 _____

Incident ID	nAPP2213664988
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?	_65_ (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 checked="" type="checkbox"/> Yes <input 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 not 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

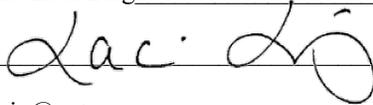
If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, 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	nAPP2213664988
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: 9/26/2022 _____
 email: laci.luig@coterra.com _____ Telephone: (432) 208-3035 _____

OCD Only

Received by: Jocelyn Harimon _____ Date: 09/26/2022 _____

Incident ID	nAPP2213664988
District RP	
Facility ID	
Application ID	

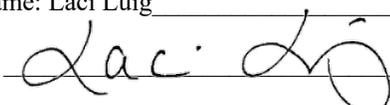
Closure

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: 9/26/2022 _____
 email: laci.luig@coterra.com _____ Telephone: (432) 208-3035 _____

OCD Only

Received by: Jocelyn Harimon _____ Date: 09/26/2022 _____

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: [NMOCD Spill Notifications](#); [BLM NM CFO Spill](#)
Cc: [Jim Hawley](#); [Michael Collier](#)
Subject: nAPP2213664988 - Irwin 23-14 Federal 3H confirmation sampling
Date: Thursday, September 1, 2022 1:45:09 PM

This email serves as notification for confirmation sampling on the Irwin 23-14 Federal 3H. Sampling is scheduled to begin as early as September 6th, weather and soil conditions permitting. H&R Enterprises will be onsite for confirmation sampling.

Thank you,



Laci Luig | Environmental Safety & Health Specialist
T: 432.571.7810 | M: 432.208.3035 | laci.luig@coterra.com | 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 REPORTS



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

September 07, 2022

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

RE: IRWIN 23-14 FEDERAL #003H (IRWIN)

Enclosed are the results of analyses for samples received by the laboratory on 09/06/22 11:04.

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.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/06/2022	Sampling Date:	09/02/2022
Reported:	09/07/2022	Sampling Type:	Soil
Project Name:	IRWIN 23-14 FEDERAL #003H (IRWIN)	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY COUNTY, NM		

Sample ID: TT - 1 0-1' (H224060-01)

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	09/06/2022	ND	1.83	91.7	2.00	4.85	
Toluene*	<0.050	0.050	09/06/2022	ND	1.90	95.1	2.00	5.21	
Ethylbenzene*	<0.050	0.050	09/06/2022	ND	1.92	96.1	2.00	5.08	
Total Xylenes*	<0.150	0.150	09/06/2022	ND	5.95	99.2	6.00	5.59	
Total BTEX	<0.300	0.300	09/06/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	6640	16.0	09/07/2022	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	09/06/2022	ND	197	98.4	200	3.48	
DRO >C10-C28*	<10.0	10.0	09/06/2022	ND	193	96.7	200	4.81	
EXT DRO >C28-C36	<10.0	10.0	09/06/2022	ND					

Surrogate: 1-Chlorooctane 77.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 81.6 % 46.3-178

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:	09/06/2022	Sampling Date:	09/02/2022
Reported:	09/07/2022	Sampling Type:	Soil
Project Name:	IRWIN 23-14 FEDERAL #003H (IRWIN)	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY COUNTY, NM		

Sample ID: TT - 1 2' (H224060-02)

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	09/06/2022	ND	1.83	91.7	2.00	4.85		
Toluene*	<0.050	0.050	09/06/2022	ND	1.90	95.1	2.00	5.21		
Ethylbenzene*	<0.050	0.050	09/06/2022	ND	1.92	96.1	2.00	5.08		
Total Xylenes*	<0.150	0.150	09/06/2022	ND	5.95	99.2	6.00	5.59		
Total BTEX	<0.300	0.300	09/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	
Chloride	3440	16.0	09/07/2022	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	09/06/2022	ND	197	98.4	200	3.48		
DRO >C10-C28*	<10.0	10.0	09/06/2022	ND	193	96.7	200	4.81		
EXT DRO >C28-C36	<10.0	10.0	09/06/2022	ND						

Surrogate: 1-Chlorooctane 79.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 86.4 % 46.3-178

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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:	09/06/2022	Sampling Date:	09/02/2022
Reported:	09/07/2022	Sampling Type:	Soil
Project Name:	IRWIN 23-14 FEDERAL #003H (IRWIN)	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY COUNTY, NM		

Sample ID: TT - 1 3' (H224060-03)

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	09/06/2022	ND	1.83	91.7	2.00	4.85		
Toluene*	<0.050	0.050	09/06/2022	ND	1.90	95.1	2.00	5.21		
Ethylbenzene*	<0.050	0.050	09/06/2022	ND	1.92	96.1	2.00	5.08		
Total Xylenes*	<0.150	0.150	09/06/2022	ND	5.95	99.2	6.00	5.59		
Total BTEX	<0.300	0.300	09/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	
Chloride	2480	16.0	09/07/2022	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	09/06/2022	ND	197	98.4	200	3.48		
DRO >C10-C28*	<10.0	10.0	09/06/2022	ND	193	96.7	200	4.81		
EXT DRO >C28-C36	<10.0	10.0	09/06/2022	ND						

Surrogate: 1-Chlorooctane 78.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 82.7 % 46.3-178

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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:	09/06/2022	Sampling Date:	09/02/2022
Reported:	09/07/2022	Sampling Type:	Soil
Project Name:	IRWIN 23-14 FEDERAL #003H (IRWIN)	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY COUNTY, NM		

Sample ID: TT - 1 4' (H224060-04)

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	09/06/2022	ND	1.83	91.7	2.00	4.85	
Toluene*	<0.050	0.050	09/06/2022	ND	1.90	95.1	2.00	5.21	
Ethylbenzene*	<0.050	0.050	09/06/2022	ND	1.92	96.1	2.00	5.08	
Total Xylenes*	<0.150	0.150	09/06/2022	ND	5.95	99.2	6.00	5.59	
Total BTEX	<0.300	0.300	09/06/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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
Chloride	1380	16.0	09/07/2022	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	09/06/2022	ND	197	98.4	200	3.48	
DRO >C10-C28*	<10.0	10.0	09/06/2022	ND	193	96.7	200	4.81	
EXT DRO >C28-C36	<10.0	10.0	09/06/2022	ND					

Surrogate: 1-Chlorooctane 77.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 83.5 % 46.3-178

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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:	09/06/2022	Sampling Date:	09/02/2022
Reported:	09/07/2022	Sampling Type:	Soil
Project Name:	IRWIN 23-14 FEDERAL #003H (IRWIN)	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY COUNTY, NM		

Sample ID: TT - 1 6' (H224060-05)

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	09/06/2022	ND	1.83	91.7	2.00	4.85		
Toluene*	<0.050	0.050	09/06/2022	ND	1.90	95.1	2.00	5.21		
Ethylbenzene*	<0.050	0.050	09/06/2022	ND	1.92	96.1	2.00	5.08		
Total Xylenes*	<0.150	0.150	09/06/2022	ND	5.95	99.2	6.00	5.59		
Total BTEX	<0.300	0.300	09/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	
Chloride	176	16.0	09/07/2022	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	09/06/2022	ND	197	98.4	200	3.48		
DRO >C10-C28*	<10.0	10.0	09/06/2022	ND	193	96.7	200	4.81		
EXT DRO >C28-C36	<10.0	10.0	09/06/2022	ND						

Surrogate: 1-Chlorooctane 79.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 83.6 % 46.3-178

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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:	09/06/2022	Sampling Date:	09/02/2022
Reported:	09/07/2022	Sampling Type:	Soil
Project Name:	IRWIN 23-14 FEDERAL #003H (IRWIN)	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY COUNTY, NM		

Sample ID: TT - 2 0-1' (H224060-06)

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	09/06/2022	ND	1.83	91.7	2.00	4.85		
Toluene*	<0.050	0.050	09/06/2022	ND	1.90	95.1	2.00	5.21		
Ethylbenzene*	<0.050	0.050	09/06/2022	ND	1.92	96.1	2.00	5.08		
Total Xylenes*	<0.150	0.150	09/06/2022	ND	5.95	99.2	6.00	5.59		
Total BTEX	<0.300	0.300	09/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	2520	16.0	09/07/2022	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	09/06/2022	ND	197	98.4	200	3.48		
DRO >C10-C28*	<10.0	10.0	09/06/2022	ND	193	96.7	200	4.81		
EXT DRO >C28-C36	<10.0	10.0	09/06/2022	ND						

Surrogate: 1-Chlorooctane 78.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 83.4 % 46.3-178

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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:	09/06/2022	Sampling Date:	09/02/2022
Reported:	09/07/2022	Sampling Type:	Soil
Project Name:	IRWIN 23-14 FEDERAL #003H (IRWIN)	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY COUNTY, NM		

Sample ID: TT - 2 2' (H224060-07)

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	09/06/2022	ND	1.83	91.7	2.00	4.85		
Toluene*	<0.050	0.050	09/06/2022	ND	1.90	95.1	2.00	5.21		
Ethylbenzene*	<0.050	0.050	09/06/2022	ND	1.92	96.1	2.00	5.08		
Total Xylenes*	<0.150	0.150	09/06/2022	ND	5.95	99.2	6.00	5.59		
Total BTEX	<0.300	0.300	09/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	
Chloride	3440	16.0	09/07/2022	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	09/06/2022	ND	197	98.4	200	3.48		
DRO >C10-C28*	<10.0	10.0	09/06/2022	ND	193	96.7	200	4.81		
EXT DRO >C28-C36	<10.0	10.0	09/06/2022	ND						

Surrogate: 1-Chlorooctane 77.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 81.5 % 46.3-178

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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:	09/06/2022	Sampling Date:	09/02/2022
Reported:	09/07/2022	Sampling Type:	Soil
Project Name:	IRWIN 23-14 FEDERAL #003H (IRWIN)	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY COUNTY, NM		

Sample ID: TT - 2 3' (H224060-08)

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	09/06/2022	ND	1.83	91.7	2.00	4.85	
Toluene*	<0.050	0.050	09/06/2022	ND	1.90	95.1	2.00	5.21	
Ethylbenzene*	<0.050	0.050	09/06/2022	ND	1.92	96.1	2.00	5.08	
Total Xylenes*	<0.150	0.150	09/06/2022	ND	5.95	99.2	6.00	5.59	
Total BTEX	<0.300	0.300	09/06/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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
Chloride	592	16.0	09/07/2022	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	09/06/2022	ND	197	98.4	200	3.48	
DRO >C10-C28*	<10.0	10.0	09/06/2022	ND	193	96.7	200	4.81	
EXT DRO >C28-C36	<10.0	10.0	09/06/2022	ND					

Surrogate: 1-Chlorooctane 76.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 80.8 % 46.3-178

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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:	09/06/2022	Sampling Date:	09/02/2022
Reported:	09/07/2022	Sampling Type:	Soil
Project Name:	IRWIN 23-14 FEDERAL #003H (IRWIN)	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY COUNTY, NM		

Sample ID: TT - 2 4' (H224060-09)

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	09/06/2022	ND	1.83	91.7	2.00	4.85		
Toluene*	<0.050	0.050	09/06/2022	ND	1.90	95.1	2.00	5.21		
Ethylbenzene*	<0.050	0.050	09/06/2022	ND	1.92	96.1	2.00	5.08		
Total Xylenes*	<0.150	0.150	09/06/2022	ND	5.95	99.2	6.00	5.59		
Total BTEX	<0.300	0.300	09/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	
Chloride	256	16.0	09/07/2022	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	09/06/2022	ND	197	98.4	200	3.48		
DRO >C10-C28*	<10.0	10.0	09/06/2022	ND	193	96.7	200	4.81		
EXT DRO >C28-C36	<10.0	10.0	09/06/2022	ND						

Surrogate: 1-Chlorooctane 79.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 84.3 % 46.3-178

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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:	09/06/2022	Sampling Date:	09/02/2022
Reported:	09/07/2022	Sampling Type:	Soil
Project Name:	IRWIN 23-14 FEDERAL #003H (IRWIN)	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY COUNTY, NM		

Sample ID: TT - 3 0-1' (H224060-10)

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	09/06/2022	ND	1.83	91.7	2.00	4.85	
Toluene*	<0.050	0.050	09/06/2022	ND	1.90	95.1	2.00	5.21	
Ethylbenzene*	<0.050	0.050	09/06/2022	ND	1.92	96.1	2.00	5.08	
Total Xylenes*	<0.150	0.150	09/06/2022	ND	5.95	99.2	6.00	5.59	
Total BTEX	<0.300	0.300	09/06/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	832	16.0	09/07/2022	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	09/06/2022	ND	197	98.4	200	3.48	
DRO >C10-C28*	<10.0	10.0	09/06/2022	ND	193	96.7	200	4.81	
EXT DRO >C28-C36	<10.0	10.0	09/06/2022	ND					

Surrogate: 1-Chlorooctane 74.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 80.7 % 46.3-178

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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:	09/06/2022	Sampling Date:	09/02/2022
Reported:	09/07/2022	Sampling Type:	Soil
Project Name:	IRWIN 23-14 FEDERAL #003H (IRWIN)	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY COUNTY, NM		

Sample ID: TT - 3 2' (H224060-11)

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	09/06/2022	ND	1.83	91.7	2.00	4.85	
Toluene*	<0.050	0.050	09/06/2022	ND	1.90	95.1	2.00	5.21	
Ethylbenzene*	<0.050	0.050	09/06/2022	ND	1.92	96.1	2.00	5.08	
Total Xylenes*	<0.150	0.150	09/06/2022	ND	5.95	99.2	6.00	5.59	
Total BTEX	<0.300	0.300	09/06/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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
Chloride	704	16.0	09/07/2022	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	09/06/2022	ND	197	98.4	200	3.48	
DRO >C10-C28*	<10.0	10.0	09/06/2022	ND	193	96.7	200	4.81	
EXT DRO >C28-C36	<10.0	10.0	09/06/2022	ND					

Surrogate: 1-Chlorooctane 78.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 83.1 % 46.3-178

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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:	09/06/2022	Sampling Date:	09/02/2022
Reported:	09/07/2022	Sampling Type:	Soil
Project Name:	IRWIN 23-14 FEDERAL #003H (IRWIN)	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY COUNTY, NM		

Sample ID: TT - 3 3' (H224060-12)

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	09/06/2022	ND	1.83	91.7	2.00	4.85	
Toluene*	<0.050	0.050	09/06/2022	ND	1.90	95.1	2.00	5.21	
Ethylbenzene*	<0.050	0.050	09/06/2022	ND	1.92	96.1	2.00	5.08	
Total Xylenes*	<0.150	0.150	09/06/2022	ND	5.95	99.2	6.00	5.59	
Total BTEX	<0.300	0.300	09/06/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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
Chloride	880	16.0	09/07/2022	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	09/06/2022	ND	197	98.4	200	3.48	
DRO >C10-C28*	<10.0	10.0	09/06/2022	ND	193	96.7	200	4.81	
EXT DRO >C28-C36	<10.0	10.0	09/06/2022	ND					

Surrogate: 1-Chlorooctane 76.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 83.5 % 46.3-178

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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:	09/06/2022	Sampling Date:	09/02/2022
Reported:	09/07/2022	Sampling Type:	Soil
Project Name:	IRWIN 23-14 FEDERAL #003H (IRWIN)	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY COUNTY, NM		

Sample ID: TT - 3 4' (H224060-13)

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	09/06/2022	ND	1.83	91.7	2.00	4.85	
Toluene*	<0.050	0.050	09/06/2022	ND	1.90	95.1	2.00	5.21	
Ethylbenzene*	<0.050	0.050	09/06/2022	ND	1.92	96.1	2.00	5.08	
Total Xylenes*	<0.150	0.150	09/06/2022	ND	5.95	99.2	6.00	5.59	
Total BTEX	<0.300	0.300	09/06/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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
Chloride	224	16.0	09/07/2022	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	09/06/2022	ND	197	98.4	200	3.48	
DRO >C10-C28*	<10.0	10.0	09/06/2022	ND	193	96.7	200	4.81	
EXT DRO >C28-C36	<10.0	10.0	09/06/2022	ND					

Surrogate: 1-Chlorooctane 79.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 84.3 % 46.3-178

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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

BILL TO

ANALYSIS REQUEST

Company Name: H&R Enterprises
 Project Manager: Michael Collier
 Address:
 City: State: Zip:
 Phone #: Fax #:
 Project #: Project Owner: Cimarex Energy
 Project Name: Irwin 23-14 Federal #003H (Irwin)
 Project Location: Eddy County, NM
 Sampler Name: Michael Collier
 Lab I.D.:

P.O. #: Company: Cimarex Energy
 Attn: Lael Luig
 Address:
 City: State: Zip:
 Phone #: Fax #:

Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	MATRIX							DATE	TIME	BTEX	TPH	Chlorides
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER : ACID/BASE:	ICE / COOL					
TT-1 0-1'	G	1			X					9-2-22		X	X	X
TT-1 2'														
TT-1 3'														
TT-1 4'														
TT-1 6'														
TT-2 0-1'														
TT-2 2'														
TT-2 3'														
TT-2 4'														
TT-3 0-1'														

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Reinforced By: [Signature] Date: 9-10-22 Received By: [Signature] Date: 9-2-22
 Delivered By: (Circle One) Observed Temp. °C Corrected Temp. °C
 Sampler - UPS - Bus - Other: 3.42 4.02
 Sample Condition: Cool Intact [X] No []
 Checked By: [Signature] (Initials) [Signature]
 Thermal Trace: Standard [] Observed Temp. °C
 Thermometer ID #113 Correction Factor: -0.162
 REMARKS: PAGE 1 of 2 48 HR RUSH
 Verbal Result: Yes [] No [] Add'l Phone #:
 All Results are emailed. Please provide Email address:
 Add'l Phone #:
 Corrected Temp. °C

FORM-006 R 3.2 1007/21

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



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: Irwin 23-14 Federal #003H (Irwin)
Project Location: Eddy County, NM
Sampler Name: Michael Collier
Lab I.D.: _____

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	BTEX	TPH	Chlorides
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER : ACID/BASE:	ICE / COOL					
H224000	TT-3 2'	G	1			X					9-27-22		X	X	X
	TT-3 3'					X							X	X	X
	TT-3 4'					X							X	X	X

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Relinquished By: *Michael Collier* **Date:** 9-27-22
Received By: *Spodkiewicz* **Date:** 10-4
Observed Temp, °C: 4.0°C **Corrected Temp, °C:** 3.4°C
Sample Condition: Cool Intact No Yes
CHECKED BY: *SK* (Initials)
REMARKS: PAGE 2 of 2 48 HR RUSH
Thermometer ID #113 **Correction Factor** -0.0°C
Standard **Bacteria (only) Sample Condition:** Yes No
Cool Invert **Observed Temp, °C:** Yes No
Corrected Temp, °C: Yes No

FORM-006 R 3.2 1/07/21 Cardinal cannot accept verbal changes. Please email changes to caley.keene@cardinalabnm.com



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

September 09, 2022

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

RE: IRWIN 23-14 FEDERAL #003H (IRWIN)

Enclosed are the results of analyses for samples received by the laboratory on 09/08/22 13:40.

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.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/08/2022	Sampling Date:	09/08/2022
Reported:	09/09/2022	Sampling Type:	Soil
Project Name:	IRWIN 23-14 FEDERAL #003H (IRWIN)	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: S - 1 2' (H224127-01)

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	09/09/2022	ND	2.12	106	2.00	9.77	QR-03	
Toluene*	<0.050	0.050	09/09/2022	ND	2.06	103	2.00	9.00	QR-03	
Ethylbenzene*	<0.050	0.050	09/09/2022	ND	2.04	102	2.00	10.2	QR-03	
Total Xylenes*	<0.150	0.150	09/09/2022	ND	6.31	105	6.00	11.3		
Total BTEX	<0.300	0.300	09/09/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	304	16.0	09/09/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/08/2022	ND	200	100	200	0.455		
DRO >C10-C28*	<10.0	10.0	09/08/2022	ND	224	112	200	5.01		
EXT DRO >C28-C36	<10.0	10.0	09/08/2022	ND						

Surrogate: 1-Chlorooctane 86.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 102 % 46.3-178

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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:	09/08/2022	Sampling Date:	09/08/2022
Reported:	09/09/2022	Sampling Type:	Soil
Project Name:	IRWIN 23-14 FEDERAL #003H (IRWIN)	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: S - 2 2' (H224127-02)

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	09/09/2022	ND	2.12	106	2.00	9.77		
Toluene*	<0.050	0.050	09/09/2022	ND	2.06	103	2.00	9.00		
Ethylbenzene*	<0.050	0.050	09/09/2022	ND	2.04	102	2.00	10.2		
Total Xylenes*	<0.150	0.150	09/09/2022	ND	6.31	105	6.00	11.3		
Total BTEX	<0.300	0.300	09/09/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	
Chloride	208	16.0	09/09/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/08/2022	ND	200	100	200	0.455		
DRO >C10-C28*	<10.0	10.0	09/08/2022	ND	224	112	200	5.01		
EXT DRO >C28-C36	<10.0	10.0	09/08/2022	ND						

Surrogate: 1-Chlorooctane 94.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 111 % 46.3-178

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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:	09/08/2022	Sampling Date:	09/08/2022
Reported:	09/09/2022	Sampling Type:	Soil
Project Name:	IRWIN 23-14 FEDERAL #003H (IRWIN)	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: S - 3 2' (H224127-03)

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	09/09/2022	ND	2.12	106	2.00	9.77		
Toluene*	<0.050	0.050	09/09/2022	ND	2.06	103	2.00	9.00		
Ethylbenzene*	<0.050	0.050	09/09/2022	ND	2.04	102	2.00	10.2		
Total Xylenes*	<0.150	0.150	09/09/2022	ND	6.31	105	6.00	11.3		
Total BTEX	<0.300	0.300	09/09/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	
Chloride	304	16.0	09/09/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/08/2022	ND	200	100	200	0.455		
DRO >C10-C28*	<10.0	10.0	09/08/2022	ND	224	112	200	5.01		
EXT DRO >C28-C36	<10.0	10.0	09/08/2022	ND						

Surrogate: 1-Chlorooctane 88.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 104 % 46.3-178

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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:	09/08/2022	Sampling Date:	09/08/2022
Reported:	09/09/2022	Sampling Type:	Soil
Project Name:	IRWIN 23-14 FEDERAL #003H (IRWIN)	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: S - 4 2' (H224127-04)

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	09/09/2022	ND	2.12	106	2.00	9.77		
Toluene*	<0.050	0.050	09/09/2022	ND	2.06	103	2.00	9.00		
Ethylbenzene*	<0.050	0.050	09/09/2022	ND	2.04	102	2.00	10.2		
Total Xylenes*	<0.150	0.150	09/09/2022	ND	6.31	105	6.00	11.3		
Total BTEX	<0.300	0.300	09/09/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	
Chloride	304	16.0	09/09/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/08/2022	ND	200	100	200	0.455		
DRO >C10-C28*	<10.0	10.0	09/08/2022	ND	224	112	200	5.01		
EXT DRO >C28-C36	<10.0	10.0	09/08/2022	ND						

Surrogate: 1-Chlorooctane 90.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 105 % 46.3-178

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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:	09/08/2022	Sampling Date:	09/08/2022
Reported:	09/09/2022	Sampling Type:	Soil
Project Name:	IRWIN 23-14 FEDERAL #003H (IRWIN)	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: S - 5 2' (H224127-05)

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	09/09/2022	ND	2.12	106	2.00	9.77		
Toluene*	<0.050	0.050	09/09/2022	ND	2.06	103	2.00	9.00		
Ethylbenzene*	<0.050	0.050	09/09/2022	ND	2.04	102	2.00	10.2		
Total Xylenes*	<0.150	0.150	09/09/2022	ND	6.31	105	6.00	11.3		
Total BTEX	<0.300	0.300	09/09/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	
Chloride	256	16.0	09/09/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/08/2022	ND	200	100	200	0.455		
DRO >C10-C28*	<10.0	10.0	09/08/2022	ND	224	112	200	5.01		
EXT DRO >C28-C36	<10.0	10.0	09/08/2022	ND						

Surrogate: 1-Chlorooctane 93.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 110 % 46.3-178

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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:	09/08/2022	Sampling Date:	09/08/2022
Reported:	09/09/2022	Sampling Type:	Soil
Project Name:	IRWIN 23-14 FEDERAL #003H (IRWIN)	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: S - 6 2' (H224127-06)

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	09/09/2022	ND	2.12	106	2.00	9.77		
Toluene*	<0.050	0.050	09/09/2022	ND	2.06	103	2.00	9.00		
Ethylbenzene*	<0.050	0.050	09/09/2022	ND	2.04	102	2.00	10.2		
Total Xylenes*	<0.150	0.150	09/09/2022	ND	6.31	105	6.00	11.3		
Total BTEX	<0.300	0.300	09/09/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	
Chloride	256	16.0	09/09/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/08/2022	ND	200	100	200	0.455		
DRO >C10-C28*	<10.0	10.0	09/08/2022	ND	224	112	200	5.01		
EXT DRO >C28-C36	<10.0	10.0	09/08/2022	ND						

Surrogate: 1-Chlorooctane 85.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 103 % 46.3-178

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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:	09/08/2022	Sampling Date:	09/08/2022
Reported:	09/09/2022	Sampling Type:	Soil
Project Name:	IRWIN 23-14 FEDERAL #003H (IRWIN)	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: S - 7 2' (H224127-07)

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	09/09/2022	ND	2.12	106	2.00	9.77	
Toluene*	<0.050	0.050	09/09/2022	ND	2.06	103	2.00	9.00	
Ethylbenzene*	<0.050	0.050	09/09/2022	ND	2.04	102	2.00	10.2	
Total Xylenes*	<0.150	0.150	09/09/2022	ND	6.31	105	6.00	11.3	
Total BTEX	<0.300	0.300	09/09/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	272	16.0	09/09/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/08/2022	ND	200	100	200	0.455	
DRO >C10-C28*	<10.0	10.0	09/08/2022	ND	224	112	200	5.01	
EXT DRO >C28-C36	<10.0	10.0	09/08/2022	ND					

Surrogate: 1-Chlorooctane 87.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 102 % 46.3-178

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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:	09/08/2022	Sampling Date:	09/08/2022
Reported:	09/09/2022	Sampling Type:	Soil
Project Name:	IRWIN 23-14 FEDERAL #003H (IRWIN)	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: S - 8 4' (H224127-08)

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	09/09/2022	ND	2.12	106	2.00	9.77		
Toluene*	<0.050	0.050	09/09/2022	ND	2.06	103	2.00	9.00		
Ethylbenzene*	<0.050	0.050	09/09/2022	ND	2.04	102	2.00	10.2		
Total Xylenes*	<0.150	0.150	09/09/2022	ND	6.31	105	6.00	11.3		
Total BTEX	<0.300	0.300	09/09/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	
Chloride	400	16.0	09/09/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/08/2022	ND	200	100	200	0.455		
DRO >C10-C28*	<10.0	10.0	09/08/2022	ND	224	112	200	5.01		
EXT DRO >C28-C36	<10.0	10.0	09/08/2022	ND						

Surrogate: 1-Chlorooctane 95.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 112 % 46.3-178

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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:	09/08/2022	Sampling Date:	09/08/2022
Reported:	09/09/2022	Sampling Type:	Soil
Project Name:	IRWIN 23-14 FEDERAL #003H (IRWIN)	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: S - 9 4' (H224127-09)

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	09/09/2022	ND	2.12	106	2.00	9.77		
Toluene*	<0.050	0.050	09/09/2022	ND	2.06	103	2.00	9.00		
Ethylbenzene*	<0.050	0.050	09/09/2022	ND	2.04	102	2.00	10.2		
Total Xylenes*	<0.150	0.150	09/09/2022	ND	6.31	105	6.00	11.3		
Total BTEX	<0.300	0.300	09/09/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	
Chloride	384	16.0	09/09/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/09/2022	ND	200	100	200	0.455		
DRO >C10-C28*	<10.0	10.0	09/09/2022	ND	224	112	200	5.01		
EXT DRO >C28-C36	<10.0	10.0	09/09/2022	ND						

Surrogate: 1-Chlorooctane 98.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 116 % 46.3-178

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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:	09/08/2022	Sampling Date:	09/08/2022
Reported:	09/09/2022	Sampling Type:	Soil
Project Name:	IRWIN 23-14 FEDERAL #003H (IRWIN)	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: S - 10 4' (H224127-10)

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	09/09/2022	ND	2.12	106	2.00	9.77	
Toluene*	<0.050	0.050	09/09/2022	ND	2.06	103	2.00	9.00	
Ethylbenzene*	<0.050	0.050	09/09/2022	ND	2.04	102	2.00	10.2	
Total Xylenes*	<0.150	0.150	09/09/2022	ND	6.31	105	6.00	11.3	
Total BTEX	<0.300	0.300	09/09/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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
Chloride	256	16.0	09/09/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/09/2022	ND	200	100	200	0.455	
DRO >C10-C28*	<10.0	10.0	09/09/2022	ND	224	112	200	5.01	
EXT DRO >C28-C36	<10.0	10.0	09/09/2022	ND					

Surrogate: 1-Chlorooctane 87.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 103 % 46.3-178

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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:	09/08/2022	Sampling Date:	09/08/2022
Reported:	09/09/2022	Sampling Type:	Soil
Project Name:	IRWIN 23-14 FEDERAL #003H (IRWIN)	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: S - 11 4' (H224127-11)

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	09/09/2022	ND	2.12	106	2.00	9.77	
Toluene*	<0.050	0.050	09/09/2022	ND	2.06	103	2.00	9.00	
Ethylbenzene*	<0.050	0.050	09/09/2022	ND	2.04	102	2.00	10.2	
Total Xylenes*	<0.150	0.150	09/09/2022	ND	6.31	105	6.00	11.3	
Total BTEX	<0.300	0.300	09/09/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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
Chloride	640	16.0	09/09/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/09/2022	ND	200	100	200	0.455	
DRO >C10-C28*	20.1	10.0	09/09/2022	ND	224	112	200	5.01	
EXT DRO >C28-C36	<10.0	10.0	09/09/2022	ND					

Surrogate: 1-Chlorooctane 119 % 45.3-161

Surrogate: 1-Chlorooctadecane 142 % 46.3-178

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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:	09/08/2022	Sampling Date:	09/08/2022
Reported:	09/09/2022	Sampling Type:	Soil
Project Name:	IRWIN 23-14 FEDERAL #003H (IRWIN)	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: S - 12 4' (H224127-12)

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	09/09/2022	ND	2.12	106	2.00	9.77	
Toluene*	<0.050	0.050	09/09/2022	ND	2.06	103	2.00	9.00	
Ethylbenzene*	<0.050	0.050	09/09/2022	ND	2.04	102	2.00	10.2	
Total Xylenes*	<0.150	0.150	09/09/2022	ND	6.31	105	6.00	11.3	
Total BTEX	<0.300	0.300	09/09/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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
Chloride	800	16.0	09/09/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/09/2022	ND	200	100	200	0.455	
DRO >C10-C28*	17.0	10.0	09/09/2022	ND	224	112	200	5.01	
EXT DRO >C28-C36	<10.0	10.0	09/09/2022	ND					

Surrogate: 1-Chlorooctane 91.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 109 % 46.3-178

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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:	09/08/2022	Sampling Date:	09/08/2022
Reported:	09/09/2022	Sampling Type:	Soil
Project Name:	IRWIN 23-14 FEDERAL #003H (IRWIN)	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: S - 13 4' (H224127-13)

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	09/09/2022	ND	2.12	106	2.00	9.77	
Toluene*	<0.050	0.050	09/09/2022	ND	2.06	103	2.00	9.00	
Ethylbenzene*	<0.050	0.050	09/09/2022	ND	2.04	102	2.00	10.2	
Total Xylenes*	<0.150	0.150	09/09/2022	ND	6.31	105	6.00	11.3	
Total BTEX	<0.300	0.300	09/09/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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
Chloride	240	16.0	09/09/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/09/2022	ND	200	100	200	0.455	
DRO >C10-C28*	<10.0	10.0	09/09/2022	ND	224	112	200	5.01	
EXT DRO >C28-C36	<10.0	10.0	09/09/2022	ND					

Surrogate: 1-Chlorooctane 86.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 103 % 46.3-178

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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:	09/08/2022	Sampling Date:	09/08/2022
Reported:	09/09/2022	Sampling Type:	Soil
Project Name:	IRWIN 23-14 FEDERAL #003H (IRWIN)	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: S - 14 5' (H224127-14)

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	09/09/2022	ND	2.12	106	2.00	9.77	
Toluene*	<0.050	0.050	09/09/2022	ND	2.06	103	2.00	9.00	
Ethylbenzene*	<0.050	0.050	09/09/2022	ND	2.04	102	2.00	10.2	
Total Xylenes*	<0.150	0.150	09/09/2022	ND	6.31	105	6.00	11.3	
Total BTEX	<0.300	0.300	09/09/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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
Chloride	752	16.0	09/09/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/09/2022	ND	200	100	200	0.455	
DRO >C10-C28*	12.4	10.0	09/09/2022	ND	224	112	200	5.01	
EXT DRO >C28-C36	<10.0	10.0	09/09/2022	ND					

Surrogate: 1-Chlorooctane 82.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 97.6 % 46.3-178

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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:	09/08/2022	Sampling Date:	09/08/2022
Reported:	09/09/2022	Sampling Type:	Soil
Project Name:	IRWIN 23-14 FEDERAL #003H (IRWIN)	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: S - 15 6' (H224127-15)

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	09/09/2022	ND	2.12	106	2.00	9.77	
Toluene*	<0.050	0.050	09/09/2022	ND	2.06	103	2.00	9.00	
Ethylbenzene*	<0.050	0.050	09/09/2022	ND	2.04	102	2.00	10.2	
Total Xylenes*	<0.150	0.150	09/09/2022	ND	6.31	105	6.00	11.3	
Total BTEX	<0.300	0.300	09/09/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	256	16.0	09/09/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/09/2022	ND	200	100	200	0.455	
DRO >C10-C28*	<10.0	10.0	09/09/2022	ND	224	112	200	5.01	
EXT DRO >C28-C36	<10.0	10.0	09/09/2022	ND					

Surrogate: 1-Chlorooctane 91.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 108 % 46.3-178

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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:	09/08/2022	Sampling Date:	09/08/2022
Reported:	09/09/2022	Sampling Type:	Soil
Project Name:	IRWIN 23-14 FEDERAL #003H (IRWIN)	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: SW - 1 2' (H224127-16)

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	09/09/2022	ND	2.12	106	2.00	9.77		
Toluene*	<0.050	0.050	09/09/2022	ND	2.06	103	2.00	9.00		
Ethylbenzene*	<0.050	0.050	09/09/2022	ND	2.04	102	2.00	10.2		
Total Xylenes*	<0.150	0.150	09/09/2022	ND	6.31	105	6.00	11.3		
Total BTEX	<0.300	0.300	09/09/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	
Chloride	224	16.0	09/09/2022	ND	400	100	400	7.69		

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	09/09/2022	ND	200	100	200	0.455		
DRO >C10-C28*	<10.0	10.0	09/09/2022	ND	224	112	200	5.01		
EXT DRO >C28-C36	<10.0	10.0	09/09/2022	ND						

Surrogate: 1-Chlorooctane 89.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 105 % 46.3-178

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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:	09/08/2022	Sampling Date:	09/08/2022
Reported:	09/09/2022	Sampling Type:	Soil
Project Name:	IRWIN 23-14 FEDERAL #003H (IRWIN)	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: SW - 2 2' (H224127-17)

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	09/09/2022	ND	2.12	106	2.00	9.77	
Toluene*	<0.050	0.050	09/09/2022	ND	2.06	103	2.00	9.00	
Ethylbenzene*	<0.050	0.050	09/09/2022	ND	2.04	102	2.00	10.2	
Total Xylenes*	<0.150	0.150	09/09/2022	ND	6.31	105	6.00	11.3	
Total BTEX	<0.300	0.300	09/09/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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
Chloride	240	16.0	09/09/2022	ND	400	100	400	7.69	

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	09/09/2022	ND	200	100	200	0.455	
DRO >C10-C28*	<10.0	10.0	09/09/2022	ND	224	112	200	5.01	
EXT DRO >C28-C36	<10.0	10.0	09/09/2022	ND					

Surrogate: 1-Chlorooctane 94.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 111 % 46.3-178

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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:	09/08/2022	Sampling Date:	09/08/2022
Reported:	09/09/2022	Sampling Type:	Soil
Project Name:	IRWIN 23-14 FEDERAL #003H (IRWIN)	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: SW - 3 4' (H224127-18)

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	09/09/2022	ND	2.12	106	2.00	9.77		
Toluene*	<0.050	0.050	09/09/2022	ND	2.06	103	2.00	9.00		
Ethylbenzene*	<0.050	0.050	09/09/2022	ND	2.04	102	2.00	10.2		
Total Xylenes*	<0.150	0.150	09/09/2022	ND	6.31	105	6.00	11.3		
Total BTEX	<0.300	0.300	09/09/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	
Chloride	720	16.0	09/09/2022	ND	400	100	400	7.69		

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	09/08/2022	ND	195	97.6	200	7.77		
DRO >C10-C28*	<10.0	10.0	09/08/2022	ND	192	95.8	200	8.26		
EXT DRO >C28-C36	<10.0	10.0	09/08/2022	ND						

Surrogate: 1-Chlorooctane 95.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 105 % 46.3-178

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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:	09/08/2022	Sampling Date:	09/08/2022
Reported:	09/09/2022	Sampling Type:	Soil
Project Name:	IRWIN 23-14 FEDERAL #003H (IRWIN)	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: SW - 4 5' (H224127-19)

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	09/09/2022	ND	2.12	106	2.00	9.77	
Toluene*	<0.050	0.050	09/09/2022	ND	2.06	103	2.00	9.00	
Ethylbenzene*	<0.050	0.050	09/09/2022	ND	2.04	102	2.00	10.2	
Total Xylenes*	<0.150	0.150	09/09/2022	ND	6.31	105	6.00	11.3	
Total BTEX	<0.300	0.300	09/09/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 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
Chloride	256	16.0	09/09/2022	ND	400	100	400	7.69	

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	09/09/2022	ND	195	97.6	200	7.77	
DRO >C10-C28*	<10.0	10.0	09/09/2022	ND	192	95.8	200	8.26	
EXT DRO >C28-C36	<10.0	10.0	09/09/2022	ND					

Surrogate: 1-Chlorooctane 90.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 98.5 % 46.3-178

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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:	09/08/2022	Sampling Date:	09/08/2022
Reported:	09/09/2022	Sampling Type:	Soil
Project Name:	IRWIN 23-14 FEDERAL #003H (IRWIN)	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: SW - 5 6' (H224127-20)

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	09/09/2022	ND	2.12	106	2.00	9.77	
Toluene*	<0.050	0.050	09/09/2022	ND	2.06	103	2.00	9.00	
Ethylbenzene*	<0.050	0.050	09/09/2022	ND	2.04	102	2.00	10.2	
Total Xylenes*	<0.150	0.150	09/09/2022	ND	6.31	105	6.00	11.3	
Total BTEX	<0.300	0.300	09/09/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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
Chloride	240	16.0	09/09/2022	ND	400	100	400	7.69	

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	09/09/2022	ND	195	97.6	200	7.77	
DRO >C10-C28*	<10.0	10.0	09/09/2022	ND	192	95.8	200	8.26	
EXT DRO >C28-C36	<10.0	10.0	09/09/2022	ND					

Surrogate: 1-Chlorooctane 91.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 100 % 46.3-178

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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:	09/08/2022	Sampling Date:	09/08/2022
Reported:	09/09/2022	Sampling Type:	Soil
Project Name:	IRWIN 23-14 FEDERAL #003H (IRWIN)	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: SW - 6 6' (H224127-21)

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	09/09/2022	ND	2.05	103	2.00	9.30	
Toluene*	<0.050	0.050	09/09/2022	ND	2.06	103	2.00	10.0	
Ethylbenzene*	<0.050	0.050	09/09/2022	ND	1.99	99.6	2.00	9.02	
Total Xylenes*	<0.150	0.150	09/09/2022	ND	6.19	103	6.00	8.91	
Total BTEX	<0.300	0.300	09/09/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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
Chloride	320	16.0	09/09/2022	ND	400	100	400	7.69	

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	09/09/2022	ND	195	97.6	200	7.77	
DRO >C10-C28*	<10.0	10.0	09/09/2022	ND	192	95.8	200	8.26	
EXT DRO >C28-C36	<10.0	10.0	09/09/2022	ND					

Surrogate: 1-Chlorooctane 88.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 96.8 % 46.3-178

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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:	09/08/2022	Sampling Date:	09/08/2022
Reported:	09/09/2022	Sampling Type:	Soil
Project Name:	IRWIN 23-14 FEDERAL #003H (IRWIN)	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: SW - 7 6' (H224127-22)

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	09/09/2022	ND	2.05	103	2.00	9.30		
Toluene*	<0.050	0.050	09/09/2022	ND	2.06	103	2.00	10.0		
Ethylbenzene*	<0.050	0.050	09/09/2022	ND	1.99	99.6	2.00	9.02		
Total Xylenes*	<0.150	0.150	09/09/2022	ND	6.19	103	6.00	8.91		
Total BTEX	<0.300	0.300	09/09/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	
Chloride	192	16.0	09/09/2022	ND	400	100	400	7.69		

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	09/09/2022	ND	195	97.6	200	7.77		
DRO >C10-C28*	<10.0	10.0	09/09/2022	ND	192	95.8	200	8.26		
EXT DRO >C28-C36	<10.0	10.0	09/09/2022	ND						

Surrogate: 1-Chlorooctane 94.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 104 % 46.3-178

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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:	09/08/2022	Sampling Date:	09/08/2022
Reported:	09/09/2022	Sampling Type:	Soil
Project Name:	IRWIN 23-14 FEDERAL #003H (IRWIN)	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: SW - 8 5' (H224127-23)

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	09/09/2022	ND	2.05	103	2.00	9.30	
Toluene*	<0.050	0.050	09/09/2022	ND	2.06	103	2.00	10.0	
Ethylbenzene*	<0.050	0.050	09/09/2022	ND	1.99	99.6	2.00	9.02	
Total Xylenes*	<0.150	0.150	09/09/2022	ND	6.19	103	6.00	8.91	
Total BTEX	<0.300	0.300	09/09/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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
Chloride	256	16.0	09/09/2022	ND	400	100	400	7.69	

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	09/09/2022	ND	195	97.6	200	7.77	
DRO >C10-C28*	<10.0	10.0	09/09/2022	ND	192	95.8	200	8.26	
EXT DRO >C28-C36	<10.0	10.0	09/09/2022	ND					

Surrogate: 1-Chlorooctane 94.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 104 % 46.3-178

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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:	09/08/2022	Sampling Date:	09/08/2022
Reported:	09/09/2022	Sampling Type:	Soil
Project Name:	IRWIN 23-14 FEDERAL #003H (IRWIN)	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: SW - 9 4' (H224127-24)

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	09/09/2022	ND	2.05	103	2.00	9.30	
Toluene*	<0.050	0.050	09/09/2022	ND	2.06	103	2.00	10.0	
Ethylbenzene*	<0.050	0.050	09/09/2022	ND	1.99	99.6	2.00	9.02	
Total Xylenes*	<0.150	0.150	09/09/2022	ND	6.19	103	6.00	8.91	
Total BTEX	<0.300	0.300	09/09/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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
Chloride	688	16.0	09/09/2022	ND	400	100	400	7.69	

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	09/09/2022	ND	195	97.6	200	7.77	
DRO >C10-C28*	<10.0	10.0	09/09/2022	ND	192	95.8	200	8.26	
EXT DRO >C28-C36	<10.0	10.0	09/09/2022	ND					

Surrogate: 1-Chlorooctane 87.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 93.6 % 46.3-178

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:	09/08/2022	Sampling Date:	09/08/2022
Reported:	09/09/2022	Sampling Type:	Soil
Project Name:	IRWIN 23-14 FEDERAL #003H (IRWIN)	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: SW - 10 2' (H224127-25)

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	09/09/2022	ND	2.05	103	2.00	9.30	
Toluene*	<0.050	0.050	09/09/2022	ND	2.06	103	2.00	10.0	
Ethylbenzene*	<0.050	0.050	09/09/2022	ND	1.99	99.6	2.00	9.02	
Total Xylenes*	<0.150	0.150	09/09/2022	ND	6.19	103	6.00	8.91	
Total BTEX	<0.300	0.300	09/09/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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
Chloride	224	16.0	09/09/2022	ND	400	100	400	7.69	

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	09/09/2022	ND	195	97.6	200	7.77	
DRO >C10-C28*	<10.0	10.0	09/09/2022	ND	192	95.8	200	8.26	
EXT DRO >C28-C36	<10.0	10.0	09/09/2022	ND					

Surrogate: 1-Chlorooctane 88.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 95.7 % 46.3-178

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:	09/08/2022	Sampling Date:	09/08/2022
Reported:	09/09/2022	Sampling Type:	Soil
Project Name:	IRWIN 23-14 FEDERAL #003H (IRWIN)	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: BG - 1 0-1' (H224127-26)

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	09/09/2022	ND	2.05	103	2.00	9.30	
Toluene*	<0.050	0.050	09/09/2022	ND	2.06	103	2.00	10.0	
Ethylbenzene*	<0.050	0.050	09/09/2022	ND	1.99	99.6	2.00	9.02	
Total Xylenes*	<0.150	0.150	09/09/2022	ND	6.19	103	6.00	8.91	
Total BTEX	<0.300	0.300	09/09/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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
Chloride	32.0	16.0	09/09/2022	ND	400	100	400	7.69	

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	09/09/2022	ND	195	97.6	200	7.77	
DRO >C10-C28*	<10.0	10.0	09/09/2022	ND	192	95.8	200	8.26	
EXT DRO >C28-C36	<10.0	10.0	09/09/2022	ND					

Surrogate: 1-Chlorooctane 90.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 97.7 % 46.3-178

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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:	09/08/2022	Sampling Date:	09/08/2022
Reported:	09/09/2022	Sampling Type:	Soil
Project Name:	IRWIN 23-14 FEDERAL #003H (IRWIN)	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: BG - 2 0-1' (H224127-27)

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	09/09/2022	ND	2.05	103	2.00	9.30	
Toluene*	<0.050	0.050	09/09/2022	ND	2.06	103	2.00	10.0	
Ethylbenzene*	<0.050	0.050	09/09/2022	ND	1.99	99.6	2.00	9.02	
Total Xylenes*	<0.150	0.150	09/09/2022	ND	6.19	103	6.00	8.91	
Total BTEX	<0.300	0.300	09/09/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	16.0	16.0	09/09/2022	ND	400	100	400	7.69	

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	09/09/2022	ND	195	97.6	200	7.77	
DRO >C10-C28*	<10.0	10.0	09/09/2022	ND	192	95.8	200	8.26	
EXT DRO >C28-C36	<10.0	10.0	09/09/2022	ND					

Surrogate: 1-Chlorooctane 92.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 101 % 46.3-178

Cardinal Laboratories

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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:	09/08/2022	Sampling Date:	09/08/2022
Reported:	09/09/2022	Sampling Type:	Soil
Project Name:	IRWIN 23-14 FEDERAL #003H (IRWIN)	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: BG - 3 0-1' (H224127-28)

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	09/09/2022	ND	2.05	103	2.00	9.30	
Toluene*	<0.050	0.050	09/09/2022	ND	2.06	103	2.00	10.0	
Ethylbenzene*	<0.050	0.050	09/09/2022	ND	1.99	99.6	2.00	9.02	
Total Xylenes*	<0.150	0.150	09/09/2022	ND	6.19	103	6.00	8.91	
Total BTEX	<0.300	0.300	09/09/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	<16.0	16.0	09/09/2022	ND	400	100	400	7.69	

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	09/09/2022	ND	195	97.6	200	7.77	
DRO >C10-C28*	<10.0	10.0	09/09/2022	ND	192	95.8	200	8.26	
EXT DRO >C28-C36	<10.0	10.0	09/09/2022	ND					

Surrogate: 1-Chlorooctane 94.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 103 % 46.3-178

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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:	09/08/2022	Sampling Date:	09/08/2022
Reported:	09/09/2022	Sampling Type:	Soil
Project Name:	IRWIN 23-14 FEDERAL #003H (IRWIN)	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: BG - 4 0-1' (H224127-29)

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	09/09/2022	ND	2.05	103	2.00	9.30	
Toluene*	<0.050	0.050	09/09/2022	ND	2.06	103	2.00	10.0	
Ethylbenzene*	<0.050	0.050	09/09/2022	ND	1.99	99.6	2.00	9.02	
Total Xylenes*	<0.150	0.150	09/09/2022	ND	6.19	103	6.00	8.91	
Total BTEX	<0.300	0.300	09/09/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	<16.0	16.0	09/09/2022	ND	400	100	400	7.69	

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	09/09/2022	ND	195	97.6	200	7.77	
DRO >C10-C28*	<10.0	10.0	09/09/2022	ND	192	95.8	200	8.26	
EXT DRO >C28-C36	<10.0	10.0	09/09/2022	ND					

Surrogate: 1-Chlorooctane 96.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 104 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCS/D recovery and/or RPD values.
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

BILL TO

ANALYSIS REQUEST

Company Name: H&R Enterprises
 Project Manager: Michael Collier
 Address:
 City: State: Zip:
 Phone #: Fax #:
 Project #: Project Owner: Cimarex Energy
 Project Name: Irwin 23-14 Federal #003H (Irwin)
 Project Location: Eddy County, NM
 Sampler Name: Roy Bell
 Lab I.D.:

P.O. #: Company: Cimarex Energy
 Attn: Lacl Luby
 Address:
 City: State: Zip:
 Phone #: Fax #:

Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	BTEX	TPH	Chlorides
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:					
H224127	C	1			X				4-8-12	X	X	X	
11	S-11 4'												
12	S-12 4'												
13	S-13 4'												
14	S-14 5'												
15	S-15 6'												
16	SW-1 2'												
17	SW-2 2'												
18	SW-3 4'												
19	SW-4 5'												
20	SW-5 6'												

REMARKS: PAGE 2 of 3 24 HR RUSH

Relinquished By: [Signature] Received By: [Signature]
 Date: 8-22-12

Delivered By: (Circle One) Observed Temp. °C: 5.6 Corrected Temp. °C: 5.0
 Sampler - UPS - Bus - Other: UPS Bus Other

Sample Condition: Cool Intact No No

Checked By: (Initials) [Signature]

Thermometer ID #113 Correction Factor -0.8°C

Standard Observed Temp. °C

Backus (only) Sample Condition: Yes No

ADD'l Phone #:

FORM-006 R 3.2 10/07/21

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



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

September 13, 2022

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

RE: IRWIN 23-14 FEDERAL #003H (IRWIN)

Enclosed are the results of analyses for samples received by the laboratory on 09/09/22 13:00.

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.

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:	09/09/2022	Sampling Date:	09/09/2022
Reported:	09/13/2022	Sampling Type:	Soil
Project Name:	IRWIN 23-14 FEDERAL #003H (IRWIN)	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: S - 11 5' (H224155-01)

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	09/09/2022	ND	2.07	104	2.00	3.84	
Toluene*	<0.050	0.050	09/09/2022	ND	2.01	101	2.00	2.93	
Ethylbenzene*	<0.050	0.050	09/09/2022	ND	1.98	99.0	2.00	3.73	
Total Xylenes*	<0.150	0.150	09/09/2022	ND	6.08	101	6.00	3.86	
Total BTEX	<0.300	0.300	09/09/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	112	16.0	09/12/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/10/2022	ND	211	105	200	2.08	
DRO >C10-C28*	<10.0	10.0	09/10/2022	ND	212	106	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	09/10/2022	ND					

Surrogate: 1-Chlorooctane 98.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 102 % 46.3-178

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:	09/09/2022	Sampling Date:	09/09/2022
Reported:	09/13/2022	Sampling Type:	Soil
Project Name:	IRWIN 23-14 FEDERAL #003H (IRWIN)	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: S - 12 5' (H224155-02)

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	09/09/2022	ND	2.07	104	2.00	3.84	
Toluene*	<0.050	0.050	09/09/2022	ND	2.01	101	2.00	2.93	
Ethylbenzene*	<0.050	0.050	09/09/2022	ND	1.98	99.0	2.00	3.73	
Total Xylenes*	<0.150	0.150	09/09/2022	ND	6.08	101	6.00	3.86	
Total BTEX	<0.300	0.300	09/09/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 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
Chloride	128	16.0	09/12/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/10/2022	ND	211	105	200	2.08	
DRO >C10-C28*	<10.0	10.0	09/10/2022	ND	212	106	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	09/10/2022	ND					

Surrogate: 1-Chlorooctane 95.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 98.3 % 46.3-178

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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:	09/09/2022	Sampling Date:	09/09/2022
Reported:	09/13/2022	Sampling Type:	Soil
Project Name:	IRWIN 23-14 FEDERAL #003H (IRWIN)	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: S - 14 6' (H224155-03)

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	09/09/2022	ND	2.07	104	2.00	3.84	
Toluene*	<0.050	0.050	09/09/2022	ND	2.01	101	2.00	2.93	
Ethylbenzene*	<0.050	0.050	09/09/2022	ND	1.98	99.0	2.00	3.73	
Total Xylenes*	<0.150	0.150	09/09/2022	ND	6.08	101	6.00	3.86	
Total BTEX	<0.300	0.300	09/09/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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
Chloride	256	16.0	09/12/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/10/2022	ND	211	105	200	2.08	
DRO >C10-C28*	<10.0	10.0	09/10/2022	ND	212	106	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	09/10/2022	ND					

Surrogate: 1-Chlorooctane 90.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 94.9 % 46.3-178

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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:	09/09/2022	Sampling Date:	09/09/2022
Reported:	09/13/2022	Sampling Type:	Soil
Project Name:	IRWIN 23-14 FEDERAL #003H (IRWIN)	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: SW - 3 4' (H224155-04)

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	09/10/2022	ND	2.07	104	2.00	3.84		
Toluene*	<0.050	0.050	09/10/2022	ND	2.01	101	2.00	2.93		
Ethylbenzene*	<0.050	0.050	09/10/2022	ND	1.98	99.0	2.00	3.73		
Total Xylenes*	<0.150	0.150	09/10/2022	ND	6.08	101	6.00	3.86		
Total BTEX	<0.300	0.300	09/10/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 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	
Chloride	256	16.0	09/12/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/10/2022	ND	211	105	200	2.08		
DRO >C10-C28*	<10.0	10.0	09/10/2022	ND	212	106	200	1.28		
EXT DRO >C28-C36	<10.0	10.0	09/10/2022	ND						

Surrogate: 1-Chlorooctane 95.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 99.6 % 46.3-178

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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:	09/09/2022	Sampling Date:	09/09/2022
Reported:	09/13/2022	Sampling Type:	Soil
Project Name:	IRWIN 23-14 FEDERAL #003H (IRWIN)	Sampling Condition:	Cool & Intact
Project Number:	CIMAREX	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: SW - 9 4' (H224155-05)

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	09/10/2022	ND	2.07	104	2.00	3.84		
Toluene*	<0.050	0.050	09/10/2022	ND	2.01	101	2.00	2.93		
Ethylbenzene*	<0.050	0.050	09/10/2022	ND	1.98	99.0	2.00	3.73		
Total Xylenes*	<0.150	0.150	09/10/2022	ND	6.08	101	6.00	3.86		
Total BTEX	<0.300	0.300	09/10/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 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	
Chloride	256	16.0	09/12/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/10/2022	ND	211	105	200	2.08		
DRO >C10-C28*	<10.0	10.0	09/10/2022	ND	212	106	200	1.28		
EXT DRO >C28-C36	<10.0	10.0	09/10/2022	ND						

Surrogate: 1-Chlorooctane 105 % 45.3-161

Surrogate: 1-Chlorooctadecane 110 % 46.3-178

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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

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 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 146072

CONDITIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 600 N. Marienfeld Street Midland, TX 79701	OGRID: 162683
	Action Number: 146072
	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 #NAPP2213664988 IRWIN 23-14 FEDERAL 3H, thank you. This closure is approved.	12/14/2022