



MCollier@H-R_Enterprises.com 575-909-0326

Remediation and Closure Report

Burton 6 Federal #002
Incident# nAPP2303839212
Eddy County, New Mexico

Prepared For:

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

Prepared By:

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

March 22, 2023

Mrs. Chrisha Morgan
Bureau of Land Management
620 E. Green St.
Carlsbad, NM 88240

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

Subject: **Remediation and Closure Report**
Burton 6 Federal #002
Eddy County, NM

Dear Mrs. Morgan and Mrs. Nobui,

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

Site Information

The Burton 6 Federal #002 is located approximately 21.5 miles Northwest of Carlsbad, New Mexico. The legal location for this release is Unit Letter C, Section 6, Township 20 South and Range 30 East in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.608357 North and -104.015015 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 Gypsum Land. 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 115-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	115 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 a high karst area, the closure criteria for this site are as follows:

Table I			
Closure Criteria for Soils Impacted by a Release			
Minimum depth below any point within the horizontal boundary of the release to ground water less than 10,000 mg/l TDS	Constituent	Method*	Limit**
≤ 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 February 06, 2023, the wellhead packing failed causing a release of 26 barrels (bbls) of produced water onto the well pad. Of the 26 bbls released, a vac truck was able to recover 18 bbls. An initial surface scrape was performed to help minimize impact.

Site Assessment and Reclamation Activities

H&R mobilized personnel to begin site assessment, sampling, and remediation activities of the impacted area. Grab samples were obtained by way of 3 test trenches. Samples collected were transported to Cardinal Laboratory for analysis, and the results of that analysis are presented in the following data table. Initial test trench sampling locations are illustrated on Test Trench Map, [Appendix I](#). After the excavation was complete, composite confirmation samples were collected and sent to Cardinal Laboratory to confirm NMOCD closure criteria had been met. Confirmation sample locations can be found on Confirmation Sample Map, [Appendix I](#). Before, during, and after photographs of the location are attached in [Appendix IV](#). Complete laboratory reports can be found in [Appendix V](#).

Table 1: Initial Soil Samples Analysis

Sample ID	Sample Date	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
NMOCD Table 1 Closure Criteria 19.15.29 NMAC			50 mg/kg	10 mg/kg	100 mg/kg			100 mg/kg	600 mg/kg
TT-1	3/7/2023	0-1'	ND	ND	ND	ND	ND	0	128
	3/7/2023	2'	ND	ND	ND	ND	ND	0	160
	3/7/2023	3'	ND	ND	ND	ND	ND	0	112
	3/7/2023	4'	ND	ND	ND	ND	ND	0	80
TT-2	3/7/2023	0-1'	ND	ND	ND	ND	ND	0	320
	3/7/2023	2'	ND	ND	ND	ND	ND	0	48
	3/7/2023	3'	ND	ND	ND	ND	ND	0	80
	3/7/2023	4'	ND	ND	ND	ND	ND	0	160
TT-3	3/7/2023	0-1'	ND	ND	ND	ND	ND	0	480
	3/7/2023	2'	ND	ND	ND	ND	ND	0	112
	3/7/2023	3'	ND	ND	ND	ND	ND	0	160
	3/7/2023	4'	ND	ND	ND	ND	ND	0	176

TT= Test Trench ND= No Analytical Detected

Based on the results of our field titrations during test trenching and upon client authorization, excavation activities of impacted area began. Confirmation composite samples were collected every 200sqft. 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 V](#).

Table 2: Confirmation Soil Sample Analysis

Sample ID	Sample Date	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
NMOCD Table 1 Closure Criteria 19.15.29 NMAC			50 mg/kg	10 mg/kg	100 mg/kg			100 mg/kg	600 mg/kg
S-1	3/10/2023	2'	ND	ND	ND	118	14.7	132.7	304
	3/16/2023	2.5'	ND	ND	ND	ND	ND	0	32
S-2	3/10/2023	2'	ND	ND	ND	98	ND	98	288
S-3	3/10/2023	2'	ND	ND	ND	114	10	124	272
	3/16/2023	2.5'	ND	ND	ND	ND	ND	0	32
S-4	3/10/2023	2'	ND	ND	ND	101	ND	101	272
	3/16/2023	2.5'	ND	ND	ND	ND	ND	0	16
S-5	3/10/2023	2'	ND	ND	ND	104	11.7	115.7	288
	3/16/2023	2.5'	ND	ND	ND	ND	ND	0	32
S-6	3/10/2023	2'	ND	ND	ND	ND	ND	0	192
S-7	3/10/2023	2'	ND	ND	ND	104	11.2	115.2	320
	3/16/2023	2.5'	ND	ND	ND	ND	ND	0	16
S-8	3/10/2023	2'	ND	ND	ND	ND	ND	0	192
SW-1	3/10/2023	2'	ND	ND	ND	95.6	ND	95.6	288
SW-2	3/10/2023	2'	ND	ND	ND	ND	ND	0	208
SW-3	3/10/2023	2'	ND	ND	ND	ND	ND	0	176
SW-4	3/10/2023	2'	ND	ND	ND	128	13.1	141.1	288
	3/16/2023	2.5'	ND	ND	ND	ND	ND	0	16
BG-1	3/10/2023	0-1'	ND	ND	ND	ND	ND	0	96
BG-2	3/10/2023	0-1'	ND	ND	ND	ND	ND	0	128
BG-3	3/10/2023	0-1'	ND	ND	ND	ND	ND	0	112
BG-4	3/10/2023	0-1'	ND	ND	ND	ND	ND	0	80
BG-5	3/10/2023	0-1'	ND	ND	ND	29.2	ND	29.2	288
BG-6	3/10/2023	0-1'	ND	ND	ND	77.2	ND	77.2	288
S=Sample Point SW=Side Wall BG=Back Ground ND=No Analytical Detected									

Remedial Actions

- The impacted areas in the vicinity of sample points S-1, S-3, S-4, S-5, and S-7 were excavated to a total depth of 2.5-feet BGS.
- The areas near sample points S-2, S-6, and S-8 were excavated to 2-feet BGS.
- Composite confirmation samples were obtained from the sidewalls and bottom of the excavated area every 200sqft. to verify that all contaminants above closure criteria had been removed. Complete laboratory reports can be found in [Appendix V](#).
- All the excavated material 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 site assessment, remedial actions and confirmation sampling results completed for this project, on behalf of Cimarex Energy Co. we request that no further actions be required, and that closure of this incident be granted.

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

Respectfully submitted,

H&R Enterprises, LLC

Michael Collier
Environmental Project Manager

Attachments:

Appendix I Site Maps
Appendix II Soil Survey, Groundwater Data
Appendix III Initial and Final C-141
Appendix IV Photographic Documentation
Appendix V Laboratory Reports

APPENDIX I

SITE MAPS

KARST MAP

TOPOGRAPHIC MAP

LOCATOR MAP

Burton 6 Federal #002

Cimarex Energy Co.
Incident# nAPP2303839212
Eddy County, NM
Test Trench Map

Legend

-  Initial Release Boundary
-  Test Trench





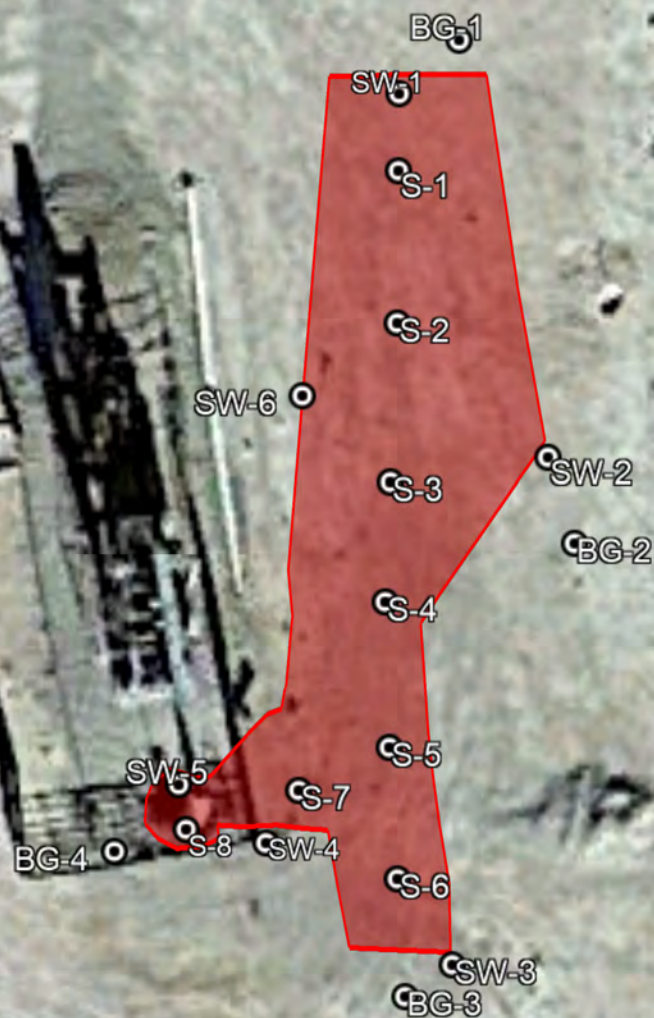
100 ft

Burton 6 Federal #002

Cimarex Energy Co.
Incident# nAPP2303839212
Eddy County, NM
Confirmation Sample Map

Legend

-  2-2.5ft Excavation
-  Composite Confirmation Sample








70 ft


Burton 6 Federal #002

Cimarex Energy Co.
Incident# nAPP2303839212
Eddy County, NM
Karst Map

Legend

-  Burton 6 Federal #002
-  High
-  Low
-  Medium

 Burton 6 Federal #002

 Carlsbad 100 Gas It Offroad

235

360

222




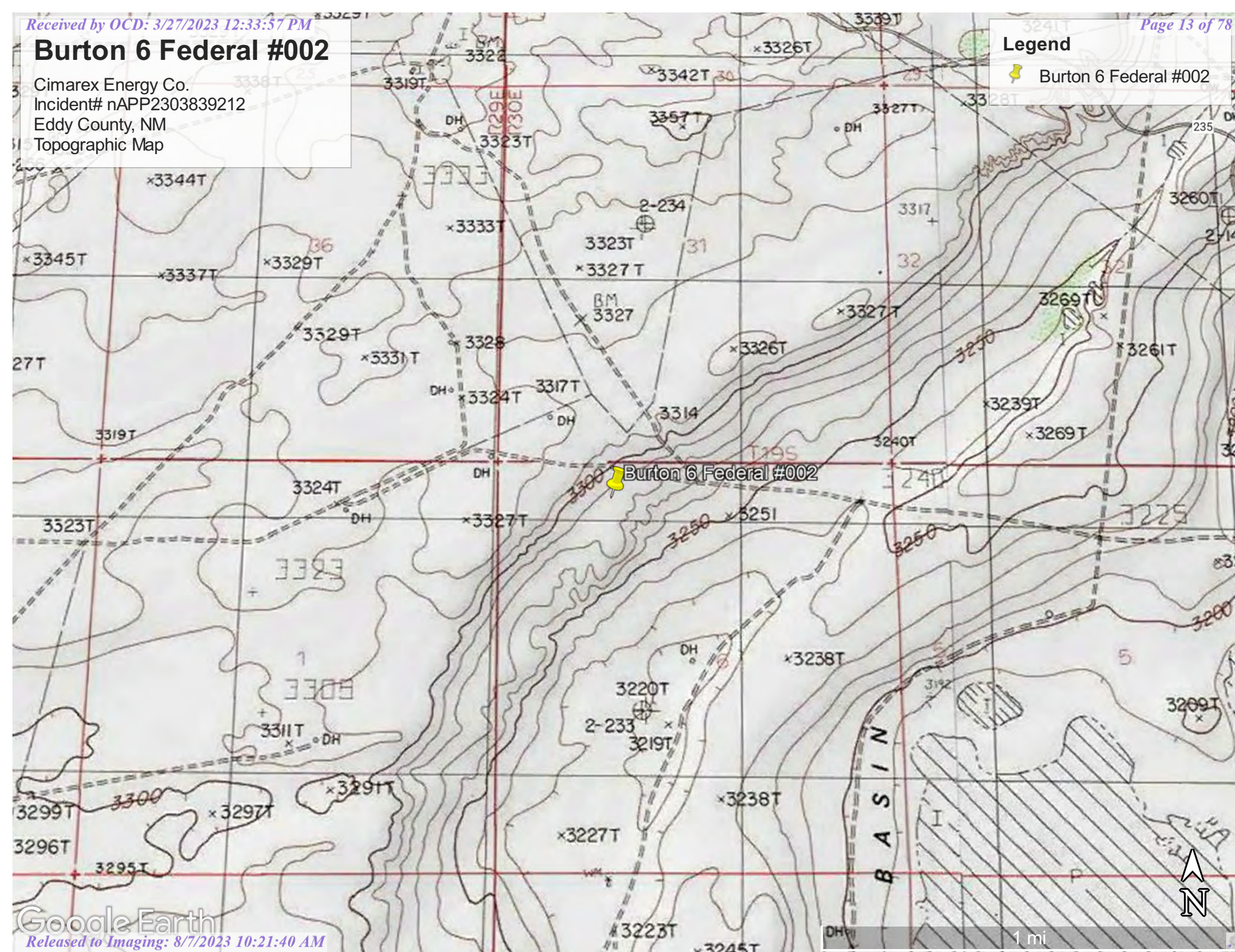
3 mi

Burton 6 Federal #002

Cimarex Energy Co.
Incident# nAPP2303839212
Eddy County, NM
Topographic Map

Legend


 Burton 6 Federal #002




Burton 6 Federal #002

Cimarex Energy Co.
Incident# nAPP2303839212
Eddy County, NM
Locator Map

Legend

 Burton 6 Federal #002

 Burton 6 Federal #002

Avalon

Carlsbad North

Happy Valley

Carlsbad

Google Earth



10 mi

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														Water	
POD Number	Code	Sub-basin	County	Q	Q	Q	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Column		
				64	16	4											
CP 00742		CP	ED	3	3	31	19S	30E	592208	3608940	<input type="checkbox"/>	631	223	115	108		
CP 00703 POD1		CP	ED	4	1	36	19S	29E	591050	3609382	<input type="checkbox"/>	1713	225	115	110		
CP 00522		CP	ED		3	30	19S	30E	592347	3610451*	<input type="checkbox"/>	2109	120	90	30		
CP 00739 POD1		CP	ED	3	4	4	35	19S	29E	590068	3608622	<input type="checkbox"/>	2360	200	110	90	
Average Depth to Water:														107 feet			
Minimum Depth:														90 feet			
Maximum Depth:														115 feet			

Record Count: 4

Basin/County Search:

County: Eddy

UTMNAD83 Radius Search (in meters):

Easting (X): 592411.76

Northing (Y): 3608342.24

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.

3/22/23 8:38 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

Map Unit Description: Gypsum land---Eddy Area, New Mexico

Eddy Area, New Mexico

GA—Gypsum land

Map Unit Setting

National map unit symbol: 1w4f

Elevation: 1,250 to 5,000 feet

Mean annual precipitation: 10 to 25 inches

Mean annual air temperature: 57 to 66 degrees F

Frost-free period: 190 to 225 days

Farmland classification: Not prime farmland

Map Unit Composition

Gypsum land: 98 percent

Minor components: 2 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Gypsum Land

Setting

Landform: Ridges, plains, hills

Landform position (two-dimensional): Shoulder, backslope, footslope, toeslope

Landform position (three-dimensional): Side slope, head slope, nose slope, crest

Down-slope shape: Convex

Across-slope shape: Linear

Parent material: Residuum weathered from gypsum

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 8s

Hydric soil rating: No

Minor Components

Reeves

Percent of map unit: 1 percent

Ecological site: R070BC033NM - Salty Bottomland

Hydric soil rating: No

Cottonwood

Percent of map unit: 1 percent

Ecological site: R070BC033NM - Salty Bottomland

Hydric soil rating: No

Data Source Information

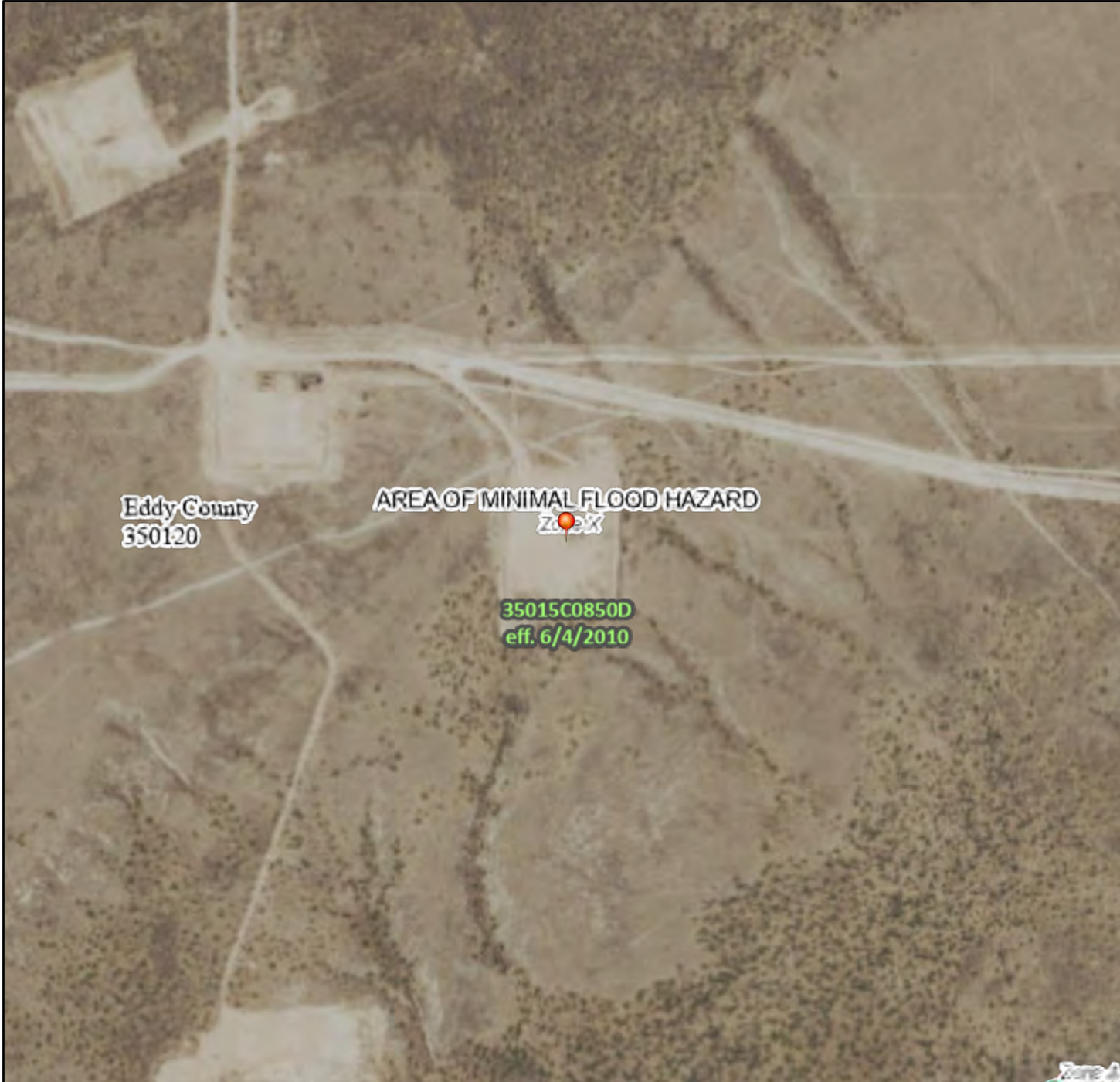
Soil Survey Area: Eddy Area, New Mexico

Survey Area Data: Version 18, Sep 8, 2022

National Flood Hazard Layer FIRMette



104°1'13"W 32°36'45"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
OTHER FEATURES		Levee, Dike, or Floodwall
		Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
MAP PANELS		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 3/22/2023 at 10:42 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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

APPENDIX III

INITIAL C-141

FINAL C-141

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	nAPP2303839212
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Cimarex Energy Co.	OGRID: 215099
Contact Name: Laci Luig	Contact Telephone: (432) 571-7800
Contact email: laci.luig@coterra.com	Incident # (assigned by OCD) nAPP2303839212
Contact mailing address: 600 N Marienfeld Street, Ste. 600 Midland, TX 79701	

Location of Release Source

Latitude 32.608323 _____ Longitude -104.014917 _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Burton 6 Federal 2H	Site Type: Well Pad
Date Release Discovered: 2/6/2023	API# (if applicable) 30-015-42352

Unit Letter	Section	Township	Range	County
C	6	20S	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 type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 26	Volume Recovered (bbls) 18
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: Equipment Failure

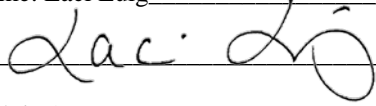
The wellhead packing failed causing a release of 26 barrels of produced water onto the well pad. The well failed to shut in due to an automation failure. A vac truck recovered 18 barrels from the well pad. An initial surface scrape will be performed. Further remediation will take place in the coming weeks.

Incident ID	nAPP2303839212
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? Total amount released is greater than 25 barrels.
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: 2/7/2023
email: laci.luig@coterra.com	Telephone: (432) 208-3035
<u>OCD Only</u>	
Received by: Jocelyn Harimon	Date: 03/27/2023

Incident ID	nAPP2303839212
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?	<u>115</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas 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.*

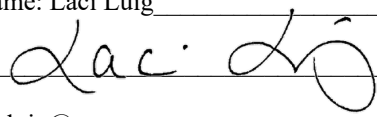
- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☐ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile 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

Incident ID	nAPP2303839212
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: 3/27/2023 _____
email: laci.luig@coterra.com _____ Telephone: (432) 208-3035 _____

OCD Only

Received by: _____ Jocelyn Harimon _____ Date: 03/27/2023 _____

Incident ID	nAPP2303839212
District RP	
Facility ID	
Application ID	

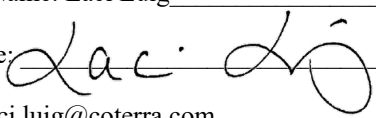
Closure

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: 3/27/2023 _____
email: laci.luig@coterra.com _____ Telephone: (432) 208-3035 _____

OCD Only

Received by: Jocelyn Harimon _____ Date: 03/27/2023 _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by:  _____ Date: 8/7/2023 _____
Printed Name: Ashley Maxwell _____ Title: Environmental Specialist _____

From: [Enviro, OCD, EMNRD](#)
To: [Ashton Thielke](#); [Hamlet, Robert, EMNRD](#); [Bratcher, Michael, EMNRD](#)
Cc: [Laci Luig](#); [Michael Collier](#)
Subject: RE: [EXTERNAL] nAPP2303839212 - Burton Flat 6 Federal 2H - Confirmation Sampling Notification
Date: Tuesday, March 7, 2023 1:24:34 PM

Ashton,

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

JH

Jocelyn Harimon • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov
<http://www.emnrd.nm.gov>



From: Ashton Thielke <Ashton.Thielke@coterra.com>
Sent: Tuesday, March 7, 2023 11:51 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Laci Luig <Laci.Luig@coterra.com>; mcollier@h-r-enterprises.com
Subject: [EXTERNAL] nAPP2303839212 - Burton Flat 6 Federal 2H - Confirmation Sampling Notification

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good morning,

This new email serves as 48 hr notification for confirmation sampling on the above mentioned site. Sampling is now scheduled to begin as early as 12:00 (MST) March 9, 2023, weather and soil conditions permitting.

Incident ID: nAPP2303839212

Coordinates: 32.608323, -104.01917

Thank you,



Ashton Thielke | PBU - Environmental Consultant

T: 432.813.8988 | M: 281.753.5659 | ashton.thielke@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

INITIAL PHOTOGRAPHS

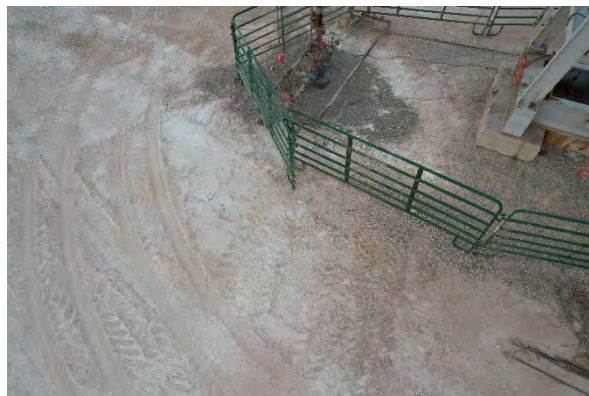


PHOTOGRAPHIC DOCUMENTATION

EXCAVATION PHOTOGRAPHS



FINAL PHOTOGRAPHS



APPENDIX V

LABORATORY REPORTS



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

March 14, 2023

MICHAEL COLLIER

H & R ENTERPRISES

1010 GAMBLIN ROAD

HOBBS, NM 88240

RE: BURTON 6 FED 2H

Enclosed are the results of analyses for samples received by the laboratory on 03/08/23 14:39.

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: 03/08/2023
 Reported: 03/14/2023
 Project Name: BURTON 6 FED 2H
 Project Number: NONE GIVEN
 Project Location: CIMAREX - EDDY CO.

Sampling Date: 03/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: TT - 1 0-1' (H231055-01)

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	03/10/2023	ND	1.98	98.9	2.00	2.27	
Toluene*	<0.050	0.050	03/10/2023	ND	2.10	105	2.00	0.727	
Ethylbenzene*	<0.050	0.050	03/10/2023	ND	2.32	116	2.00	1.66	
Total Xylenes*	<0.150	0.150	03/10/2023	ND	7.37	123	6.00	2.79	
Total BTEx	<0.300	0.300	03/10/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	03/09/2023	ND	448	112	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	03/09/2023	ND	184	92.2	200	6.75	
DRO >C10-C28*	<10.0	10.0	03/09/2023	ND	188	93.8	200	7.73	
EXT DRO >C28-C36	<10.0	10.0	03/09/2023	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/08/2023
 Reported: 03/14/2023
 Project Name: BURTON 6 FED 2H
 Project Number: NONE GIVEN
 Project Location: CIMAREX - EDDY CO.

Sampling Date: 03/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: TT - 1 2' (H231055-02)

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	03/10/2023	ND	1.98	98.9	2.00	2.27		
Toluene*	<0.050	0.050	03/10/2023	ND	2.10	105	2.00	0.727		
Ethylbenzene*	<0.050	0.050	03/10/2023	ND	2.32	116	2.00	1.66		
Total Xylenes*	<0.150	0.150	03/10/2023	ND	7.37	123	6.00	2.79		
Total BTEX	<0.300	0.300	03/10/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	03/09/2023	ND	448	112	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	03/09/2023	ND	184	92.2	200	6.75	
DRO >C10-C28*	<10.0	10.0	03/09/2023	ND	188	93.8	200	7.73	
EXT DRO >C28-C36	<10.0	10.0	03/09/2023	ND					

Surrogate: 1-Chlorooctane 95.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/08/2023
 Reported: 03/14/2023
 Project Name: BURTON 6 FED 2H
 Project Number: NONE GIVEN
 Project Location: CIMAREX - EDDY CO.

Sampling Date: 03/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: TT - 1 3' (H231055-03)

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	03/10/2023	ND	1.98	98.9	2.00	2.27		
Toluene*	<0.050	0.050	03/10/2023	ND	2.10	105	2.00	0.727		
Ethylbenzene*	<0.050	0.050	03/10/2023	ND	2.32	116	2.00	1.66		
Total Xylenes*	<0.150	0.150	03/10/2023	ND	7.37	123	6.00	2.79		
Total BTEx	<0.300	0.300	03/10/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	03/09/2023	ND	448	112	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	03/09/2023	ND	184	92.2	200	6.75	
DRO >C10-C28*	<10.0	10.0	03/09/2023	ND	188	93.8	200	7.73	
EXT DRO >C28-C36	<10.0	10.0	03/09/2023	ND					

Surrogate: 1-Chlorooctane 93.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/08/2023
 Reported: 03/14/2023
 Project Name: BURTON 6 FED 2H
 Project Number: NONE GIVEN
 Project Location: CIMAREX - EDDY CO.

Sampling Date: 03/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: TT - 1 4' (H231055-04)

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	03/10/2023	ND	1.98	98.9	2.00	2.27		
Toluene*	<0.050	0.050	03/10/2023	ND	2.10	105	2.00	0.727		
Ethylbenzene*	<0.050	0.050	03/10/2023	ND	2.32	116	2.00	1.66		
Total Xylenes*	<0.150	0.150	03/10/2023	ND	7.37	123	6.00	2.79		
Total BTEX	<0.300	0.300	03/10/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	03/09/2023	ND	448	112	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	03/09/2023	ND	184	92.2	200	6.75	
DRO >C10-C28*	<10.0	10.0	03/09/2023	ND	188	93.8	200	7.73	
EXT DRO >C28-C36	<10.0	10.0	03/09/2023	ND					

Surrogate: 1-Chlorooctane 93.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/08/2023
 Reported: 03/14/2023
 Project Name: BURTON 6 FED 2H
 Project Number: NONE GIVEN
 Project Location: CIMAREX - EDDY CO.

Sampling Date: 03/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: TT - 2 0-1' (H231055-05)

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	03/10/2023	ND	1.98	98.9	2.00	2.27	
Toluene*	<0.050	0.050	03/10/2023	ND	2.10	105	2.00	0.727	
Ethylbenzene*	<0.050	0.050	03/10/2023	ND	2.32	116	2.00	1.66	
Total Xylenes*	<0.150	0.150	03/10/2023	ND	7.37	123	6.00	2.79	
Total BTEX	<0.300	0.300	03/10/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	03/09/2023	ND	448	112	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	03/09/2023	ND	184	92.2	200	6.75	
DRO >C10-C28*	<10.0	10.0	03/09/2023	ND	188	93.8	200	7.73	
EXT DRO >C28-C36	<10.0	10.0	03/09/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/08/2023
 Reported: 03/14/2023
 Project Name: BURTON 6 FED 2H
 Project Number: NONE GIVEN
 Project Location: CIMAREX - EDDY CO.

Sampling Date: 03/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: TT - 2 2' (H231055-06)

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	03/09/2023	ND	1.98	98.9	2.00	2.27	
Toluene*	0.093	0.050	03/09/2023	ND	2.10	105	2.00	0.727	
Ethylbenzene*	<0.050	0.050	03/09/2023	ND	2.32	116	2.00	1.66	
Total Xylenes*	<0.150	0.150	03/09/2023	ND	7.37	123	6.00	2.79	
Total BTEx	<0.300	0.300	03/09/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/09/2023	ND	448	112	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	03/09/2023	ND	184	92.2	200	6.75	
DRO >C10-C28*	<10.0	10.0	03/09/2023	ND	188	93.8	200	7.73	
EXT DRO >C28-C36	<10.0	10.0	03/09/2023	ND					

Surrogate: 1-Chlorooctane 118 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/08/2023
 Reported: 03/14/2023
 Project Name: BURTON 6 FED 2H
 Project Number: NONE GIVEN
 Project Location: CIMAREX - EDDY CO.

Sampling Date: 03/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: TT - 2 3' (H231055-07)

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	03/10/2023	ND	1.98	98.9	2.00	2.27		
Toluene*	0.194	0.050	03/10/2023	ND	2.10	105	2.00	0.727		
Ethylbenzene*	<0.050	0.050	03/10/2023	ND	2.32	116	2.00	1.66		
Total Xylenes*	<0.150	0.150	03/10/2023	ND	7.37	123	6.00	2.79		
Total BTEX	<0.300	0.300	03/10/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	03/09/2023	ND	448	112	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	03/09/2023	ND	184	92.2	200	6.75	
DRO >C10-C28*	<10.0	10.0	03/09/2023	ND	188	93.8	200	7.73	
EXT DRO >C28-C36	<10.0	10.0	03/09/2023	ND					

Surrogate: 1-Chlorooctane 87.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.3 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/08/2023
 Reported: 03/14/2023
 Project Name: BURTON 6 FED 2H
 Project Number: NONE GIVEN
 Project Location: CIMAREX - EDDY CO.

Sampling Date: 03/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: TT - 2 4' (H231055-08)

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	03/10/2023	ND	2.11	105	2.00	12.8	
Toluene*	<0.050	0.050	03/10/2023	ND	1.84	91.9	2.00	11.9	
Ethylbenzene*	<0.050	0.050	03/10/2023	ND	1.87	93.4	2.00	10.9	
Total Xylenes*	<0.150	0.150	03/10/2023	ND	5.64	94.1	6.00	10.6	
Total BTEX	<0.300	0.300	03/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	03/09/2023	ND	448	112	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	03/09/2023	ND	184	92.2	200	6.75	
DRO >C10-C28*	<10.0	10.0	03/09/2023	ND	188	93.8	200	7.73	
EXT DRO >C28-C36	<10.0	10.0	03/09/2023	ND					

Surrogate: 1-Chlorooctane 90.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/08/2023
 Reported: 03/14/2023
 Project Name: BURTON 6 FED 2H
 Project Number: NONE GIVEN
 Project Location: CIMAREX - EDDY CO.

Sampling Date: 03/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: TT - 3 0-1' (H231055-09)

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	03/10/2023	ND	2.11	105	2.00	12.8	
Toluene*	<0.050	0.050	03/10/2023	ND	1.84	91.9	2.00	11.9	
Ethylbenzene*	<0.050	0.050	03/10/2023	ND	1.87	93.4	2.00	10.9	
Total Xylenes*	<0.150	0.150	03/10/2023	ND	5.64	94.1	6.00	10.6	
Total BTEX	<0.300	0.300	03/10/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	03/09/2023	ND	448	112	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	03/09/2023	ND	184	92.2	200	6.75	
DRO >C10-C28*	<10.0	10.0	03/09/2023	ND	188	93.8	200	7.73	
EXT DRO >C28-C36	<10.0	10.0	03/09/2023	ND					

Surrogate: 1-Chlorooctane 92.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/08/2023
 Reported: 03/14/2023
 Project Name: BURTON 6 FED 2H
 Project Number: NONE GIVEN
 Project Location: CIMAREX - EDDY CO.

Sampling Date: 03/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: TT - 3 2' (H231055-10)

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	03/10/2023	ND	2.11	105	2.00	12.8		
Toluene*	0.054	0.050	03/10/2023	ND	1.84	91.9	2.00	11.9		
Ethylbenzene*	<0.050	0.050	03/10/2023	ND	1.87	93.4	2.00	10.9		
Total Xylenes*	<0.150	0.150	03/10/2023	ND	5.64	94.1	6.00	10.6		
Total BTEx	<0.300	0.300	03/10/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	03/09/2023	ND	448	112	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	03/09/2023	ND	184	92.2	200	6.75	
DRO >C10-C28*	<10.0	10.0	03/09/2023	ND	188	93.8	200	7.73	
EXT DRO >C28-C36	<10.0	10.0	03/09/2023	ND					

Surrogate: 1-Chlorooctane 97.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/08/2023
 Reported: 03/14/2023
 Project Name: BURTON 6 FED 2H
 Project Number: NONE GIVEN
 Project Location: CIMAREX - EDDY CO.

Sampling Date: 03/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: TT - 3 3' (H231055-11)

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	03/10/2023	ND	2.11	105	2.00	12.8		
Toluene*	0.064	0.050	03/10/2023	ND	1.84	91.9	2.00	11.9		
Ethylbenzene*	<0.050	0.050	03/10/2023	ND	1.87	93.4	2.00	10.9		
Total Xylenes*	<0.150	0.150	03/10/2023	ND	5.64	94.1	6.00	10.6		
Total BTEX	<0.300	0.300	03/10/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	03/09/2023	ND	448	112	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	03/09/2023	ND	184	92.2	200	6.75	
DRO >C10-C28*	<10.0	10.0	03/09/2023	ND	188	93.8	200	7.73	
EXT DRO >C28-C36	<10.0	10.0	03/09/2023	ND					

Surrogate: 1-Chlorooctane 92.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/08/2023
 Reported: 03/14/2023
 Project Name: BURTON 6 FED 2H
 Project Number: NONE GIVEN
 Project Location: CIMAREX - EDDY CO.

Sampling Date: 03/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: TT - 3 4' (H231055-12)

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	03/10/2023	ND	2.11	105	2.00	12.8	
Toluene*	<0.050	0.050	03/10/2023	ND	1.84	91.9	2.00	11.9	
Ethylbenzene*	<0.050	0.050	03/10/2023	ND	1.87	93.4	2.00	10.9	
Total Xylenes*	<0.150	0.150	03/10/2023	ND	5.64	94.1	6.00	10.6	
Total BTEX	<0.300	0.300	03/10/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	03/09/2023	ND	448	112	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	03/09/2023	ND	184	92.2	200	6.75	
DRO >C10-C28*	<10.0	10.0	03/09/2023	ND	188	93.8	200	7.73	
EXT DRO >C28-C36	<10.0	10.0	03/09/2023	ND					

Surrogate: 1-Chlorooctane 96.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: H.R. Enterprises
Project Manager: M. Collier

Address:

City: State: Zip:

Phone #: Fax #:

Project #: Project Owner: Cimarron

Project Name: Burton & Fed 2H (Burton)

Project Location: Eddy Co.

Sampler Name: R. Bell

BILL TO

ANALYSIS REQUEST

P.O. #:

Company: Cimarron Energy

Attn: Laci Luis

Address:

City:

State: Zip:

Phone #:

Fax #:

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

#1531055

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER:

ACID/BASE:

ICE / COOL

OTHER:

DATE

TIME

BTEX

TPH

Chlorides

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Reinquished By:

Date:

Time:

Received By:

Date:

Time:

Verbal Result: ☐ Yes ☐ No

Add'l Phone #:

All Results are emailed. Please provide Email address:

REMARKS:

Turnaround Time:

Standard ☐ Rush ☐

Bacteria (only) ☐

Cool Intact ☐

Yes ☐ No ☐

Corrected Temp. °C

Thermometer ID #113

Correction Factor -0.6°C

Sample Condition

Observed Temp. °C

Corrected Temp. °C

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

March 15, 2023

MICHAEL COLLIER

H & R ENTERPRISES

1010 GAMBLIN ROAD

HOBBS, NM 88240

RE: BURTON 6 FED 2H

Enclosed are the results of analyses for samples received by the laboratory on 03/10/23 11:17.

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 style with a large, stylized 'C' and 'K'.

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: 03/10/2023
 Reported: 03/15/2023
 Project Name: BURTON 6 FED 2H
 Project Number: NONE GIVEN
 Project Location: CIMAREX - EDDY CO.

Sampling Date: 03/09/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 1 2' (H231112-01)

BTX 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	03/13/2023	ND	1.94	96.8	2.00	6.32	
Toluene*	<0.050	0.050	03/13/2023	ND	1.98	99.0	2.00	6.65	
Ethylbenzene*	<0.050	0.050	03/13/2023	ND	2.03	101	2.00	7.07	
Total Xylenes*	<0.150	0.150	03/13/2023	ND	6.38	106	6.00	7.12	
Total BTX	<0.300	0.300	03/13/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	03/13/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2023	ND	229	114	200	0.970	
DRO >C10-C28*	118	10.0	03/11/2023	ND	224	112	200	0.100	
EXT DRO >C28-C36	14.7	10.0	03/11/2023	ND					

Surrogate: 1-Chlorooctane 86.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/10/2023
 Reported: 03/15/2023
 Project Name: BURTON 6 FED 2H
 Project Number: NONE GIVEN
 Project Location: CIMAREX - EDDY CO.

Sampling Date: 03/09/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 2 2' (H231112-02)

BTX 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	03/13/2023	ND	1.94	96.8	2.00	6.32	
Toluene*	<0.050	0.050	03/13/2023	ND	1.98	99.0	2.00	6.65	
Ethylbenzene*	<0.050	0.050	03/13/2023	ND	2.03	101	2.00	7.07	
Total Xylenes*	<0.150	0.150	03/13/2023	ND	6.38	106	6.00	7.12	
Total BTX	<0.300	0.300	03/13/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	03/13/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2023	ND	229	114	200	0.970	
DRO >C10-C28*	98.0	10.0	03/11/2023	ND	224	112	200	0.100	
EXT DRO >C28-C36	<10.0	10.0	03/11/2023	ND					

Surrogate: 1-Chlorooctane 83.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/10/2023
 Reported: 03/15/2023
 Project Name: BURTON 6 FED 2H
 Project Number: NONE GIVEN
 Project Location: CIMAREX - EDDY CO.

Sampling Date: 03/09/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 3 2' (H231112-03)

BTX 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	03/13/2023	ND	1.94	96.8	2.00	6.32	
Toluene*	<0.050	0.050	03/13/2023	ND	1.98	99.0	2.00	6.65	
Ethylbenzene*	<0.050	0.050	03/13/2023	ND	2.03	101	2.00	7.07	
Total Xylenes*	<0.150	0.150	03/13/2023	ND	6.38	106	6.00	7.12	
Total BTX	<0.300	0.300	03/13/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	03/13/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2023	ND	229	114	200	0.970	
DRO >C10-C28*	114	10.0	03/11/2023	ND	224	112	200	0.100	
EXT DRO >C28-C36	10.0	10.0	03/11/2023	ND					

Surrogate: 1-Chlorooctane 87.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/10/2023
 Reported: 03/15/2023
 Project Name: BURTON 6 FED 2H
 Project Number: NONE GIVEN
 Project Location: CIMAREX - EDDY CO.

Sampling Date: 03/09/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 4 2' (H231112-04)

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	03/13/2023	ND	1.94	96.8	2.00	6.32	
Toluene*	<0.050	0.050	03/13/2023	ND	1.98	99.0	2.00	6.65	
Ethylbenzene*	<0.050	0.050	03/13/2023	ND	2.03	101	2.00	7.07	
Total Xylenes*	<0.150	0.150	03/13/2023	ND	6.38	106	6.00	7.12	
Total BTEx	<0.300	0.300	03/13/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	03/13/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2023	ND	229	114	200	0.970	
DRO >C10-C28*	101	10.0	03/11/2023	ND	224	112	200	0.100	
EXT DRO >C28-C36	<10.0	10.0	03/11/2023	ND					

Surrogate: 1-Chlorooctane 86.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/10/2023
 Reported: 03/15/2023
 Project Name: BURTON 6 FED 2H
 Project Number: NONE GIVEN
 Project Location: CIMAREX - EDDY CO.

Sampling Date: 03/09/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 5 2' (H231112-05)

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	03/13/2023	ND	1.94	96.8	2.00	6.32	
Toluene*	<0.050	0.050	03/13/2023	ND	1.98	99.0	2.00	6.65	
Ethylbenzene*	<0.050	0.050	03/13/2023	ND	2.03	101	2.00	7.07	
Total Xylenes*	<0.150	0.150	03/13/2023	ND	6.38	106	6.00	7.12	
Total BTEx	<0.300	0.300	03/13/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 121 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	03/13/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2023	ND	229	114	200	0.970	
DRO >C10-C28*	104	10.0	03/11/2023	ND	224	112	200	0.100	
EXT DRO >C28-C36	11.7	10.0	03/11/2023	ND					

Surrogate: 1-Chlorooctane 86.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/10/2023
 Reported: 03/15/2023
 Project Name: BURTON 6 FED 2H
 Project Number: NONE GIVEN
 Project Location: CIMAREX - EDDY CO.

Sampling Date: 03/09/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 6 2' (H231112-06)

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	03/13/2023	ND	1.94	96.8	2.00	6.32	
Toluene*	<0.050	0.050	03/13/2023	ND	1.98	99.0	2.00	6.65	
Ethylbenzene*	<0.050	0.050	03/13/2023	ND	2.03	101	2.00	7.07	
Total Xylenes*	<0.150	0.150	03/13/2023	ND	6.38	106	6.00	7.12	
Total BTEx	<0.300	0.300	03/13/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	03/13/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2023	ND	229	114	200	0.970	
DRO >C10-C28*	<10.0	10.0	03/11/2023	ND	224	112	200	0.100	
EXT DRO >C28-C36	<10.0	10.0	03/11/2023	ND					

Surrogate: 1-Chlorooctane 86.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/10/2023
 Reported: 03/15/2023
 Project Name: BURTON 6 FED 2H
 Project Number: NONE GIVEN
 Project Location: CIMAREX - EDDY CO.

Sampling Date: 03/09/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 7 2' (H231112-07)

BTX 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	03/13/2023	ND	1.94	96.8	2.00	6.32	
Toluene*	<0.050	0.050	03/13/2023	ND	1.98	99.0	2.00	6.65	
Ethylbenzene*	<0.050	0.050	03/13/2023	ND	2.03	101	2.00	7.07	
Total Xylenes*	<0.150	0.150	03/13/2023	ND	6.38	106	6.00	7.12	
Total BTX	<0.300	0.300	03/13/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	03/13/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2023	ND	229	114	200	0.970	
DRO >C10-C28*	104	10.0	03/11/2023	ND	224	112	200	0.100	
EXT DRO >C28-C36	11.2	10.0	03/11/2023	ND					

Surrogate: 1-Chlorooctane 87.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/10/2023
 Reported: 03/15/2023
 Project Name: BURTON 6 FED 2H
 Project Number: NONE GIVEN
 Project Location: CIMAREX - EDDY CO.

Sampling Date: 03/09/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 8 2' (H231112-08)

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	03/13/2023	ND	1.94	96.8	2.00	6.32	
Toluene*	<0.050	0.050	03/13/2023	ND	1.98	99.0	2.00	6.65	
Ethylbenzene*	<0.050	0.050	03/13/2023	ND	2.03	101	2.00	7.07	
Total Xylenes*	<0.150	0.150	03/13/2023	ND	6.38	106	6.00	7.12	
Total BTEx	<0.300	0.300	03/13/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	03/13/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2023	ND	229	114	200	0.970	
DRO >C10-C28*	<10.0	10.0	03/11/2023	ND	224	112	200	0.100	
EXT DRO >C28-C36	<10.0	10.0	03/11/2023	ND					

Surrogate: 1-Chlorooctane 96.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/10/2023
 Reported: 03/15/2023
 Project Name: BURTON 6 FED 2H
 Project Number: NONE GIVEN
 Project Location: CIMAREX - EDDY CO.

Sampling Date: 03/09/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 1 2' (H231112-09)

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	03/13/2023	ND	1.94	96.8	2.00	6.32	
Toluene*	<0.050	0.050	03/13/2023	ND	1.98	99.0	2.00	6.65	
Ethylbenzene*	<0.050	0.050	03/13/2023	ND	2.03	101	2.00	7.07	
Total Xylenes*	<0.150	0.150	03/13/2023	ND	6.38	106	6.00	7.12	
Total BTEX	<0.300	0.300	03/13/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	03/13/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2023	ND	229	114	200	0.970	
DRO >C10-C28*	95.6	10.0	03/11/2023	ND	224	112	200	0.100	
EXT DRO >C28-C36	<10.0	10.0	03/11/2023	ND					

Surrogate: 1-Chlorooctane 95.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/10/2023
 Reported: 03/15/2023
 Project Name: BURTON 6 FED 2H
 Project Number: NONE GIVEN
 Project Location: CIMAREX - EDDY CO.

Sampling Date: 03/09/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 2 2' (H231112-10)

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	03/13/2023	ND	1.94	96.8	2.00	6.32		
Toluene*	<0.050	0.050	03/13/2023	ND	1.98	99.0	2.00	6.65		
Ethylbenzene*	<0.050	0.050	03/13/2023	ND	2.03	101	2.00	7.07		
Total Xylenes*	<0.150	0.150	03/13/2023	ND	6.38	106	6.00	7.12		
Total BTEx	<0.300	0.300	03/13/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	03/13/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2023	ND	229	114	200	0.970	
DRO >C10-C28*	<10.0	10.0	03/11/2023	ND	224	112	200	0.100	
EXT DRO >C28-C36	<10.0	10.0	03/11/2023	ND					

Surrogate: 1-Chlorooctane 96.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/10/2023
 Reported: 03/15/2023
 Project Name: BURTON 6 FED 2H
 Project Number: NONE GIVEN
 Project Location: CIMAREX - EDDY CO.

Sampling Date: 03/09/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 3 2' (H231112-11)

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	03/13/2023	ND	1.94	96.8	2.00	6.32		
Toluene*	<0.050	0.050	03/13/2023	ND	1.98	99.0	2.00	6.65		
Ethylbenzene*	<0.050	0.050	03/13/2023	ND	2.03	101	2.00	7.07		
Total Xylenes*	<0.150	0.150	03/13/2023	ND	6.38	106	6.00	7.12		
Total BTEx	<0.300	0.300	03/13/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	03/13/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2023	ND	229	114	200	0.970	
DRO >C10-C28*	<10.0	10.0	03/11/2023	ND	224	112	200	0.100	
EXT DRO >C28-C36	<10.0	10.0	03/11/2023	ND					

Surrogate: 1-Chlorooctane 92.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/10/2023
 Reported: 03/15/2023
 Project Name: BURTON 6 FED 2H
 Project Number: NONE GIVEN
 Project Location: CIMAREX - EDDY CO.

Sampling Date: 03/09/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 4 2' (H231112-12)

BTX 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	03/13/2023	ND	1.94	96.8	2.00	6.32	
Toluene*	<0.050	0.050	03/13/2023	ND	1.98	99.0	2.00	6.65	
Ethylbenzene*	<0.050	0.050	03/13/2023	ND	2.03	101	2.00	7.07	
Total Xylenes*	<0.150	0.150	03/13/2023	ND	6.38	106	6.00	7.12	
Total BTX	<0.300	0.300	03/13/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	03/13/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2023	ND	229	114	200	0.970	
DRO >C10-C28*	128	10.0	03/11/2023	ND	224	112	200	0.100	
EXT DRO >C28-C36	13.1	10.0	03/11/2023	ND					

Surrogate: 1-Chlorooctane 97.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/10/2023
 Reported: 03/15/2023
 Project Name: BURTON 6 FED 2H
 Project Number: NONE GIVEN
 Project Location: CIMAREX - EDDY CO.

Sampling Date: 03/09/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BG - 1 0-1' (H231112-13)

BTX 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	03/10/2023	ND	1.94	96.8	2.00	1.49	
Toluene*	<0.050	0.050	03/10/2023	ND	1.99	99.5	2.00	1.52	
Ethylbenzene*	<0.050	0.050	03/10/2023	ND	2.00	100	2.00	0.650	
Total Xylenes*	<0.150	0.150	03/10/2023	ND	6.02	100	6.00	1.09	
Total BTX	<0.300	0.300	03/10/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	03/13/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2023	ND	229	114	200	0.970	
DRO >C10-C28*	<10.0	10.0	03/11/2023	ND	224	112	200	0.100	
EXT DRO >C28-C36	<10.0	10.0	03/11/2023	ND					

Surrogate: 1-Chlorooctane 92.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/10/2023
 Reported: 03/15/2023
 Project Name: BURTON 6 FED 2H
 Project Number: NONE GIVEN
 Project Location: CIMAREX - EDDY CO.

Sampling Date: 03/09/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BG - 2 0-1' (H231112-14)

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	03/10/2023	ND	1.94	96.8	2.00	1.49	
Toluene*	<0.050	0.050	03/10/2023	ND	1.99	99.5	2.00	1.52	
Ethylbenzene*	<0.050	0.050	03/10/2023	ND	2.00	100	2.00	0.650	
Total Xylenes*	<0.150	0.150	03/10/2023	ND	6.02	100	6.00	1.09	
Total BTEx	<0.300	0.300	03/10/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	03/13/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2023	ND	190	94.8	200	7.63	
DRO >C10-C28*	<10.0	10.0	03/10/2023	ND	203	102	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	03/10/2023	ND					

Surrogate: 1-Chlorooctane 90.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/10/2023
 Reported: 03/15/2023
 Project Name: BURTON 6 FED 2H
 Project Number: NONE GIVEN
 Project Location: CIMAREX - EDDY CO.

Sampling Date: 03/09/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BG - 3 0-1' (H231112-15)

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	03/10/2023	ND	1.94	96.8	2.00	1.49	
Toluene*	<0.050	0.050	03/10/2023	ND	1.99	99.5	2.00	1.52	
Ethylbenzene*	<0.050	0.050	03/10/2023	ND	2.00	100	2.00	0.650	
Total Xylenes*	<0.150	0.150	03/10/2023	ND	6.02	100	6.00	1.09	
Total BTEx	<0.300	0.300	03/10/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	03/13/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2023	ND	190	94.8	200	7.63	
DRO >C10-C28*	<10.0	10.0	03/10/2023	ND	203	102	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	03/10/2023	ND					

Surrogate: 1-Chlorooctane 118 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/10/2023
 Reported: 03/15/2023
 Project Name: BURTON 6 FED 2H
 Project Number: NONE GIVEN
 Project Location: CIMAREX - EDDY CO.

Sampling Date: 03/09/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BG - 4 0-1' (H231112-16)

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	03/10/2023	ND	1.94	96.8	2.00	1.49	
Toluene*	<0.050	0.050	03/10/2023	ND	1.99	99.5	2.00	1.52	
Ethylbenzene*	<0.050	0.050	03/10/2023	ND	2.00	100	2.00	0.650	
Total Xylenes*	<0.150	0.150	03/10/2023	ND	6.02	100	6.00	1.09	
Total BTEx	<0.300	0.300	03/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	03/13/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2023	ND	190	94.8	200	7.63	
DRO >C10-C28*	<10.0	10.0	03/10/2023	ND	203	102	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	03/10/2023	ND					

Surrogate: 1-Chlorooctane 86.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/10/2023
 Reported: 03/15/2023
 Project Name: BURTON 6 FED 2H
 Project Number: NONE GIVEN
 Project Location: CIMAREX - EDDY CO.

Sampling Date: 03/09/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 5 2' (H231112-17)

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	03/10/2023	ND	1.94	96.8	2.00	1.49	
Toluene*	<0.050	0.050	03/10/2023	ND	1.99	99.5	2.00	1.52	
Ethylbenzene*	<0.050	0.050	03/10/2023	ND	2.00	100	2.00	0.650	
Total Xylenes*	<0.150	0.150	03/10/2023	ND	6.02	100	6.00	1.09	
Total BTEx	<0.300	0.300	03/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	03/13/2023	ND	416	104	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	03/10/2023	ND	190	94.8	200	7.63	
DRO >C10-C28*	29.2	10.0	03/10/2023	ND	203	102	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	03/10/2023	ND					

Surrogate: 1-Chlorooctane 81.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/10/2023
 Reported: 03/15/2023
 Project Name: BURTON 6 FED 2H
 Project Number: NONE GIVEN
 Project Location: CIMAREX - EDDY CO.

Sampling Date: 03/09/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 6 2' (H231112-18)

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	03/10/2023	ND	1.94	96.8	2.00	1.49		
Toluene*	<0.050	0.050	03/10/2023	ND	1.99	99.5	2.00	1.52		
Ethylbenzene*	<0.050	0.050	03/10/2023	ND	2.00	100	2.00	0.650		
Total Xylenes*	<0.150	0.150	03/10/2023	ND	6.02	100	6.00	1.09		
Total BTEx	<0.300	0.300	03/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	03/13/2023	ND	416	104	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	03/10/2023	ND	190	94.8	200	7.63	
DRO >C10-C28*	77.2	10.0	03/10/2023	ND	203	102	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	03/10/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

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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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: H&R Enterprises

Project Manager: Michael Collier

Address:

City:

State:

Zip:

Phone #:

Fax #:

Project #:

Project Name: Burton 6 Federal #2H (Burton)

Project Location: Eddy County, NM

Sampler Name: Roy Bell

Lab I.D.

FOR LAB USE ONLY

Lab I.D.

Lab I.D.

Lab I.D.

Lab I.D.

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Lab I.D.

Lab I.D.

Lab I.D.

Lab I.D.

BILL TO

ANALYSIS REQUEST

P.O. #:

Company: Cimarex Energy

Attn: Laci Ludwig

Address:

City:

State:

Zip:

Phone #:

Fax #:

Matrix

Preserv.

Sampling

DATE

TIME

BTX

TPH

Chlorides

Relinquished By: [Signature]

Relinquished By: [Signature]

Relinquished By: [Signature]

Relinquished By: [Signature]

Relinquished By: [Signature]

Relinquished By: [Signature]

Relinquished By: [Signature]

Relinquished By: [Signature]

Relinquished By: [Signature]

Relinquished By: [Signature]

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Relinquished By: [Signature]

Relinquished By: [Signature]

Verbal Result: ☐ Yes ☐ No Add'l Phone #:

All Results are emailed. Please provide Email address:

REMARKS: PAGE 1 of 2

REMARKS: PAGE 1 of 2

REMARKS: PAGE 1 of 2

REMARKS: PAGE 1 of 2

REMARKS: PAGE 1 of 2

REMARKS: PAGE 1 of 2

REMARKS: PAGE 1 of 2

REMARKS: PAGE 1 of 2

REMARKS: PAGE 1 of 2

REMARKS: PAGE 1 of 2

REMARKS: PAGE 1 of 2

Delivered By: (Circle One)

Delivered By: (Circle One)

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Sample Condition

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Sample Condition

Checked By: (Initials)

Checked By: (Initials)

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Turnaround Time: Standard

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Turnaround Time: Standard

Thermometer ID #113

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Correction Factor -0.5°C

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Yes ☐ No ☐

Yes ☐ No ☐

Yes ☐ No ☐

Yes ☐ No ☐

Yes ☐ No ☐

Yes ☐ No ☐

Yes ☐ No ☐

Yes ☐ No ☐

Yes ☐ No ☐

Yes ☐ No ☐

Yes ☐ No ☐

Yes ☐ No ☐

Yes ☐ No ☐

Yes ☐ No ☐

Yes ☐ No ☐

Yes ☐ No ☐

Yes ☐ No ☐

Yes ☐ No ☐

Yes ☐ No ☐

Yes ☐ No ☐

Yes ☐ No ☐

Yes ☐ No ☐

Yes ☐ No ☐

Yes ☐ No ☐

Yes ☐ No ☐

Yes ☐ No ☐

Yes ☐ No ☐

Yes ☐ No ☐

Yes ☐ No ☐

Yes ☐ No ☐

Yes ☐ No ☐

Yes ☐ No ☐

Yes ☐ No ☐

Yes ☐ No ☐

Yes ☐ No ☐

Yes ☐ No ☐

Yes ☐ No ☐

Yes ☐ No ☐

Yes ☐ No ☐

Yes ☐ No ☐

Yes ☐ No ☐

Yes ☐ No ☐

Yes ☐ No ☐

Yes ☐ No ☐

Yes ☐ No ☐



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: Burton 6 Federal #2H (Burton)

Project Location: Eddy County, NM

Sample Name: Roy Bell

BILL TO

ANALYSIS REQUEST

P.O. #:

Company: Cimarex Energy

Attn: Laci Lutz

Address:

City:

State:

Zip:

Phone #:

Fax #:

Lab I.D.

FOR LAB USE ONLY

Lab I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	BTX	TPH	Chlorides	
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER : ACID/BASE:	ICE / COOL						OTHER :
H231112															
11 SW-3 2'															
12 SW-4 2'															
13 BG-1 0-1'															
14 BG-2 0-1'															
15 BG-3 0-1'															
16 BG-4 0-1'															
17 SW-5 2'															
18 SW-6 2'															

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Relinquished By:

Date: 3-10-23

Time: 11:17

Received By: [Signature]

Verbal Result: ☐ Yes ☐ No

Add'l Phone #:

Relinquished By:

Date:

Time:

Received By:

REMARKS: PAGE 2 of 2

All Results are emailed. Please provide Email address:

Delivered By: (Circle One)

Corrected Temp. °C

3.3

Sample Condition

Code intact

☒ Yes ☐ No

CHECKED BY: (Initials)

Thermometer Type: Standard ☒ Bureau (only) Sample Condition

Thermometer ID: #113

Correction Factor: -0.5°C

☐ Yes ☐ No

Corrected Temp. °C

FORM-008 R 3.2 11/07/21

† Cardinal cannot accept verbal changes. Please email changes to caley.keene@cardinalabnm.com



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

March 20, 2023

MICHAEL COLLIER

H & R ENTERPRISES

1010 GAMBLIN ROAD

HOBBS, NM 88240

RE: BURTON 6 FED 2H

Enclosed are the results of analyses for samples received by the laboratory on 03/16/23 11:56.

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: 03/16/2023
 Reported: 03/20/2023
 Project Name: BURTON 6 FED 2H
 Project Number: (BURTON)
 Project Location: CIMAREX - EDDY CO.

Sampling Date: 03/16/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 1 2.5' (H231201-01)

BTX 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	03/16/2023	ND	2.03	101	2.00	2.01	
Toluene*	<0.050	0.050	03/16/2023	ND	2.03	102	2.00	1.04	
Ethylbenzene*	<0.050	0.050	03/16/2023	ND	2.11	105	2.00	2.01	
Total Xylenes*	<0.150	0.150	03/16/2023	ND	6.56	109	6.00	0.561	
Total BTX	<0.300	0.300	03/16/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/16/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/16/2023	ND	168	83.8	200	2.28	
DRO >C10-C28*	<10.0	10.0	03/16/2023	ND	177	88.7	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	03/16/2023	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 133 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/16/2023
 Reported: 03/20/2023
 Project Name: BURTON 6 FED 2H
 Project Number: (BURTON)
 Project Location: CIMAREX - EDDY CO.

Sampling Date: 03/16/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 3 2.5' (H231201-02)

BTX 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	03/16/2023	ND	2.03	101	2.00	2.01	
Toluene*	<0.050	0.050	03/16/2023	ND	2.03	102	2.00	1.04	
Ethylbenzene*	<0.050	0.050	03/16/2023	ND	2.11	105	2.00	2.01	
Total Xylenes*	<0.150	0.150	03/16/2023	ND	6.56	109	6.00	0.561	
Total BTX	<0.300	0.300	03/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/16/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/16/2023	ND	168	83.8	200	2.28	
DRO >C10-C28*	<10.0	10.0	03/16/2023	ND	177	88.7	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	03/16/2023	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 135 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/16/2023
 Reported: 03/20/2023
 Project Name: BURTON 6 FED 2H
 Project Number: (BURTON)
 Project Location: CIMAREX - EDDY CO.

Sampling Date: 03/16/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 4 2.5' (H231201-03)

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	03/16/2023	ND	2.03	101	2.00	2.01	
Toluene*	<0.050	0.050	03/16/2023	ND	2.03	102	2.00	1.04	
Ethylbenzene*	<0.050	0.050	03/16/2023	ND	2.11	105	2.00	2.01	
Total Xylenes*	<0.150	0.150	03/16/2023	ND	6.56	109	6.00	0.561	
Total BTEx	<0.300	0.300	03/16/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/16/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/16/2023	ND	168	83.8	200	2.28	
DRO >C10-C28*	<10.0	10.0	03/16/2023	ND	177	88.7	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	03/16/2023	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 131 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/16/2023
 Reported: 03/20/2023
 Project Name: BURTON 6 FED 2H
 Project Number: (BURTON)
 Project Location: CIMAREX - EDDY CO.

Sampling Date: 03/16/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 5 2.5' (H231201-04)

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	03/16/2023	ND	2.03	101	2.00	2.01	
Toluene*	<0.050	0.050	03/16/2023	ND	2.03	102	2.00	1.04	
Ethylbenzene*	<0.050	0.050	03/16/2023	ND	2.11	105	2.00	2.01	
Total Xylenes*	<0.150	0.150	03/16/2023	ND	6.56	109	6.00	0.561	
Total BTEx	<0.300	0.300	03/16/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/16/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/16/2023	ND	168	83.8	200	2.28	
DRO >C10-C28*	<10.0	10.0	03/16/2023	ND	177	88.7	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	03/16/2023	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 141 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/16/2023
 Reported: 03/20/2023
 Project Name: BURTON 6 FED 2H
 Project Number: (BURTON)
 Project Location: CIMAREX - EDDY CO.

Sampling Date: 03/16/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 7 2.5' (H231201-05)

BTX 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	03/16/2023	ND	2.03	101	2.00	2.01	
Toluene*	<0.050	0.050	03/16/2023	ND	2.03	102	2.00	1.04	
Ethylbenzene*	<0.050	0.050	03/16/2023	ND	2.11	105	2.00	2.01	
Total Xylenes*	<0.150	0.150	03/16/2023	ND	6.56	109	6.00	0.561	
Total BTX	<0.300	0.300	03/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/16/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/16/2023	ND	168	83.8	200	2.28	
DRO >C10-C28*	<10.0	10.0	03/16/2023	ND	177	88.7	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	03/16/2023	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 128 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/16/2023
 Reported: 03/20/2023
 Project Name: BURTON 6 FED 2H
 Project Number: (BURTON)
 Project Location: CIMAREX - EDDY CO.

Sampling Date: 03/16/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 4 2.5' (H231201-06)

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	03/16/2023	ND	2.03	101	2.00	2.01	
Toluene*	<0.050	0.050	03/16/2023	ND	2.03	102	2.00	1.04	
Ethylbenzene*	<0.050	0.050	03/16/2023	ND	2.11	105	2.00	2.01	
Total Xylenes*	<0.150	0.150	03/16/2023	ND	6.56	109	6.00	0.561	
Total BTEx	<0.300	0.300	03/16/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/16/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/16/2023	ND	168	83.8	200	2.28	
DRO >C10-C28*	<10.0	10.0	03/16/2023	ND	177	88.7	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	03/16/2023	ND					

Surrogate: 1-Chlorooctane 118 % 48.2-134

Surrogate: 1-Chlorooctadecane 146 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



ANALYSIS REQUEST

[illegible]

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

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Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
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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 201050

CONDITIONS

Operator: CIMAREX ENERGY CO. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 201050
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	None	8/7/2023