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

Site Assessment, Remediation, and Closure Report

DaVinci 7 18 Federal Com #009H
Incident# nAB1906751888
Eddy County, New Mexico

Prepared For:

Cimarex Energy Co.
6001 Deauville Blvd. Suite 300N
Midland, TX 79706

Prepared By:

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

March 21, 2024

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

Subject: **Site Assessment, Remediation, and Closure Report**
DaVinci 7 18 Federal Com #009H
Eddy County, NM

Dear Mr. Bratcher,

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

Site Information

The DaVinci 7 18 Federal Com #009H is located approximately 16 miles South of Carlsbad, New Mexico. The legal location for this release is Unit Letter M, Section 06, Township 25 South and Range 27 East in Lea County, New Mexico. More specifically the latitude and longitude for the release are 32.148997 North and -104.232530 West. Site plans are presented in Appendix I.

According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Service, the soil in this area is made up of Reeves-Reagan loams, 0 to 3 percent slopes. The referenced soil data is attached in Appendix II. Drainage courses in this area are typically dry. The project site is located in a 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 42-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	**42 Feet/BGS**

☐ Yes ☒ No	Within 300 feet of any continuously flowing watercourse or any other significant watercourse
☐ Yes ☒ No	Within 200 feet of any lakebed, sinkhole, or a playa lake
☐ Yes ☒ No	Within 300 feet from an occupied permanent residence, school, hospital, institution, or church
☐ Yes ☒ 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
☐ Yes ☒ No	Within 1000 feet of any freshwater well or spring
☐ Yes ☒ No	Within incorporated municipal boundaries or within a defined municipal freshwater well field covered under a municipal ordinance adopted pursuant to Section 3-2703 NMSA 1978
☐ Yes ☒ No	Within 300 feet of a wetland
☐ Yes ☒ No	Within the area overlying a subsurface mine
☐ Yes ☒ No	Within an unstable area
☐ Yes ☒ No	Within a 100-year floodplain

As this is a remediation in an area with a depth to groundwater of less than 50-feet BGS, the closure criteria for this site is as follows:

Table I			
Closure Criteria for Soils Impacted by a Release			
Minimum depth below any point within the horizontal boundary of the release to ground water less than 10,000 mg/l TDS	Constituent	Method*	Limit**
≤ 50 feet	Chloride **	EPA 300.0 or SM4500 CIB	600 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	100 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

Incident Description

On February 25, 2019, it was discovered that the target tees coming off of the high pressure separator going to the low pressure separator failed causing the release of 45 barrels (bbls) of produced water into the lined containment as well as 5 bbls onto the well pad. Of the 50 bbls released, 45 bbls were recovered from the containment.

Site Assessment and Remediation Activities

H&R mobilized personnel to begin site assessment, sampling, and remediation activities of the release area. Grab samples were obtained by way of test trenching the release area and transported to Eurofins Laboratory for analysis. The results of that analysis are presented in Table 1 below. Initial site assessment sampling locations can be found on the Site Assessment Map in Appendix I. A complete laboratory report is attached 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	11/16/2023	0-1'	0.409	ND	263	2120	153	2536	54.1
	11/16/2023	2' R	ND	ND	ND	ND	ND	0	38.3
TT-2	11/16/2023	0-1'	ND	ND	ND	ND	ND	0	81
	11/16/2023	2'	ND	ND	ND	ND	ND	0	24
	11/16/2023	3' R	ND	ND	ND	ND	ND	0	26.5
TT-3	11/16/2023	0-1'	ND	ND	ND	50.2	ND	50.2	273
	11/16/2023	2' R	ND	ND	ND	ND	ND	0	55.6

ND= No Analyte Detected TT= Test Trench

Based on the results of our site assessment and upon client authorization, excavation activities of the impacted area commenced. Composite confirmation samples were collected from the bottom and sidewalls every 200-square foot and transported to Cardinal Laboratory for analysis. The results of that analysis are presented in Table 2 below. Confirmation sample locations and excavation dimensions can be found on the Confirmation Sample Map in Appendix I. A complete laboratory report is attached in Appendix V. Photographic documentation can be found in Appendix IV.

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	3/7/2024	1.5-2'	ND	ND	ND	ND	ND	0	96
S-2	3/7/2024	1.5-2'	ND	ND	ND	ND	ND	0	80
S-3	3/7/2024	1.5-2'	ND	ND	ND	ND	ND	0	48
SW-1	3/7/2024	1.5-2'	ND	ND	ND	ND	ND	0	80
SW-2	3/7/2024	1.5-2'	ND	ND	ND	ND	ND	0	80
SW-3	3/7/2024	1.5-2'	ND	ND	ND	ND	ND	0	80
SW-4	3/7/2024	1.5-2'	ND	ND	ND	ND	ND	0	64

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

Remedial Actions

- The impacted area near sample point TT-1 was excavated to a total depth of 1.5 to 2-feet BGS.
- Composite confirmation samples were obtained from the bottom and sidewalls of the excavated area every 200-square feet.
- All excavated material approximately (70yds) was hauled to Lea Land, a NMOCD approved solid waste disposal facility.
- The excavated area on the well pad were backfilled with new caliche at depth and brought to grade, machine compacted and contoured to match the surrounding location.

Closure

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

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

Respectfully submitted,

H&R Enterprises, LLC

Michael Collier

Michael Collier
Environmental Project Manager

Attachments:

Appendix I Site Maps
Appendix II Soil Survey, Groundwater Data, FEMA Flood Zone
Appendix III NMOCD Correspondence
Appendix IV Photographic Documentation
Appendix V Laboratory Reports

APPENDIX I

SITE MAPS

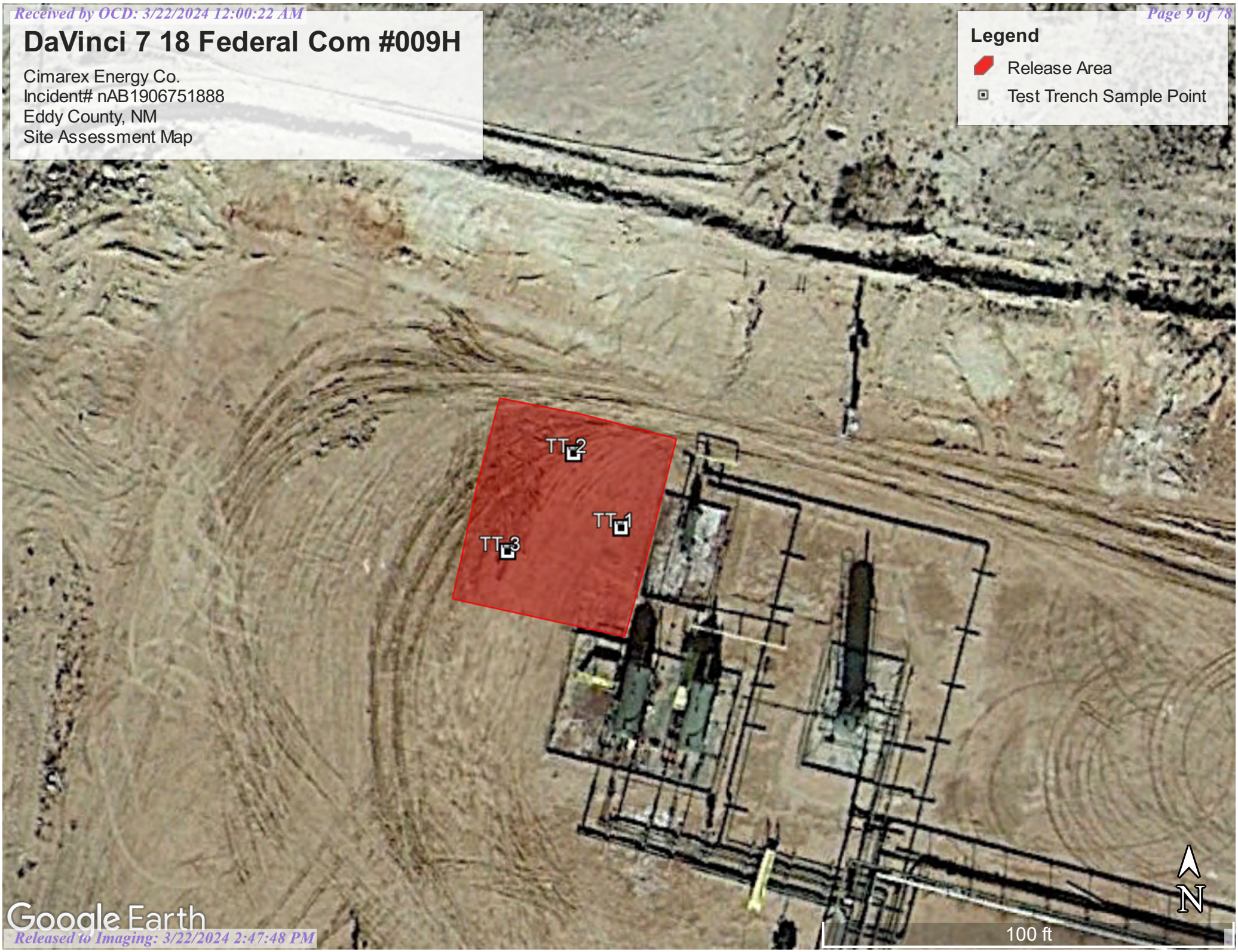
KARST MAP

TOPOGRAPHIC MAP

LOCATOR MAP

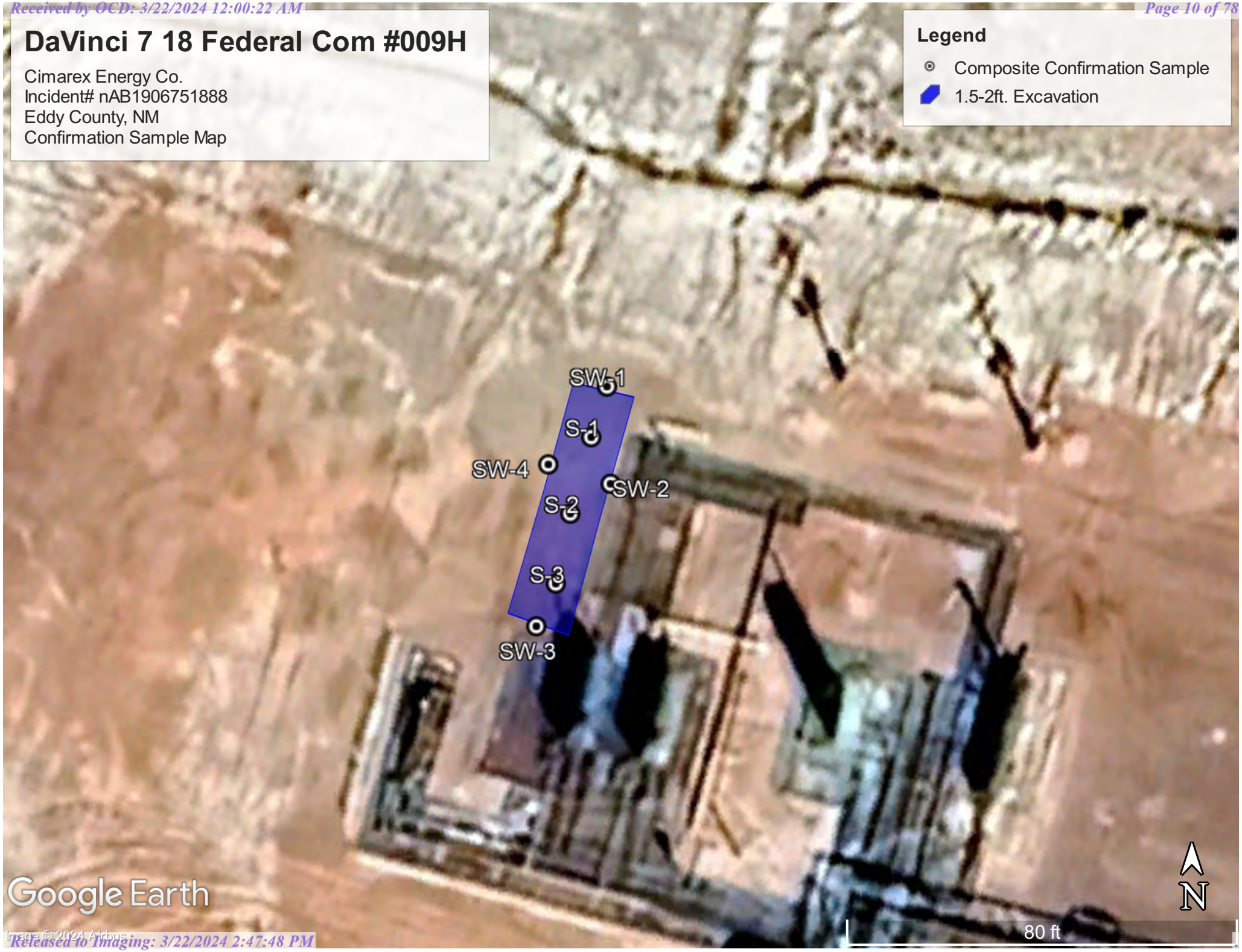
DaVinci 7 18 Federal Com #009H

Cimarex Energy Co.
Incident# nAB1906751888
Eddy County, NM
Site Assessment Map



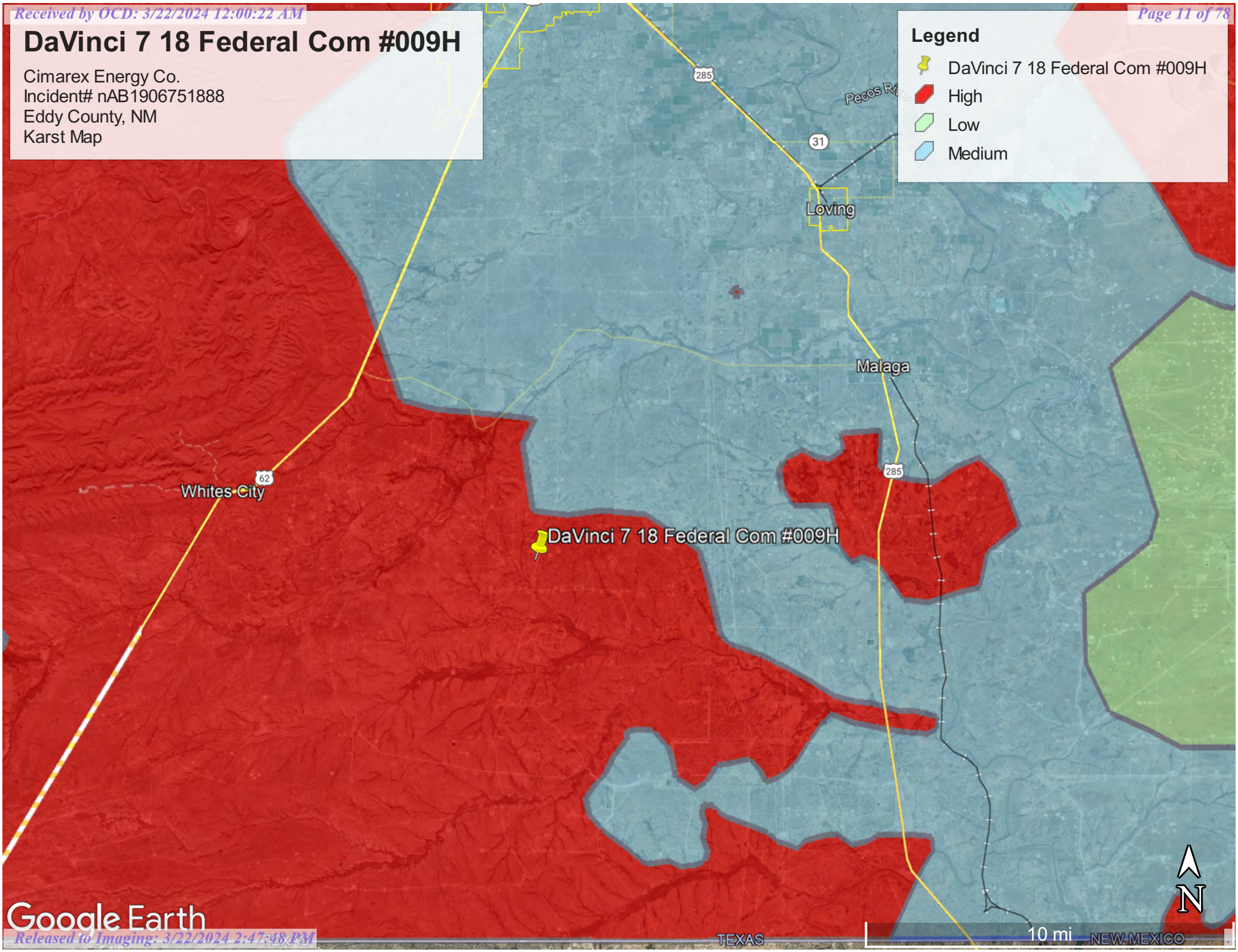
DaVinci 7 18 Federal Com #009H

Cimarex Energy Co.
Incident# nAB1906751888
Eddy County, NM
Confirmation Sample Map



DaVinci 7 18 Federal Com #009H

Cimarex Energy Co.
Incident# nAB1906751888
Eddy County, NM
Karst Map

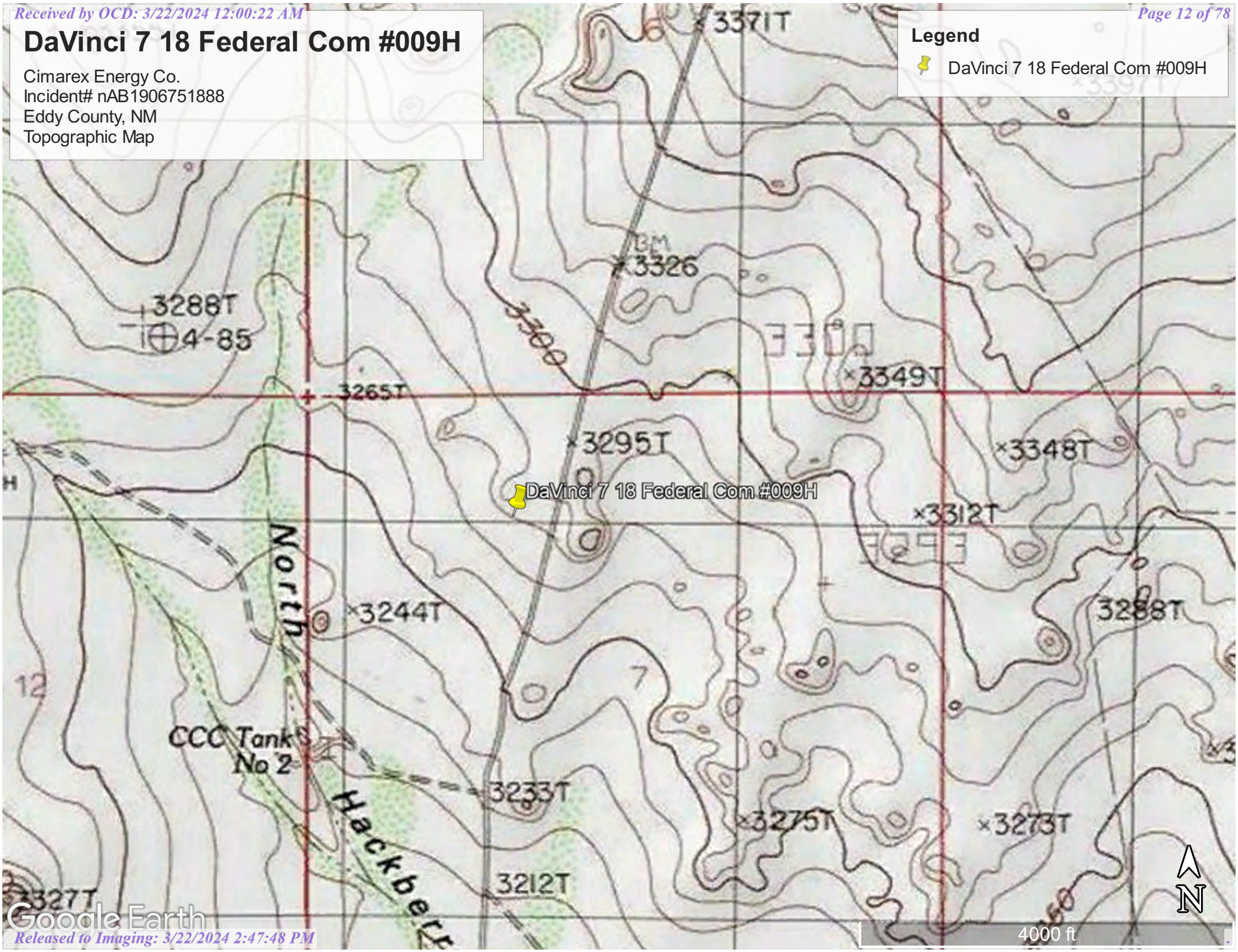


DaVinci 7 18 Federal Com #009H

Cimarex Energy Co.
Incident# nAB1906751888
Eddy County, NM
Topographic Map

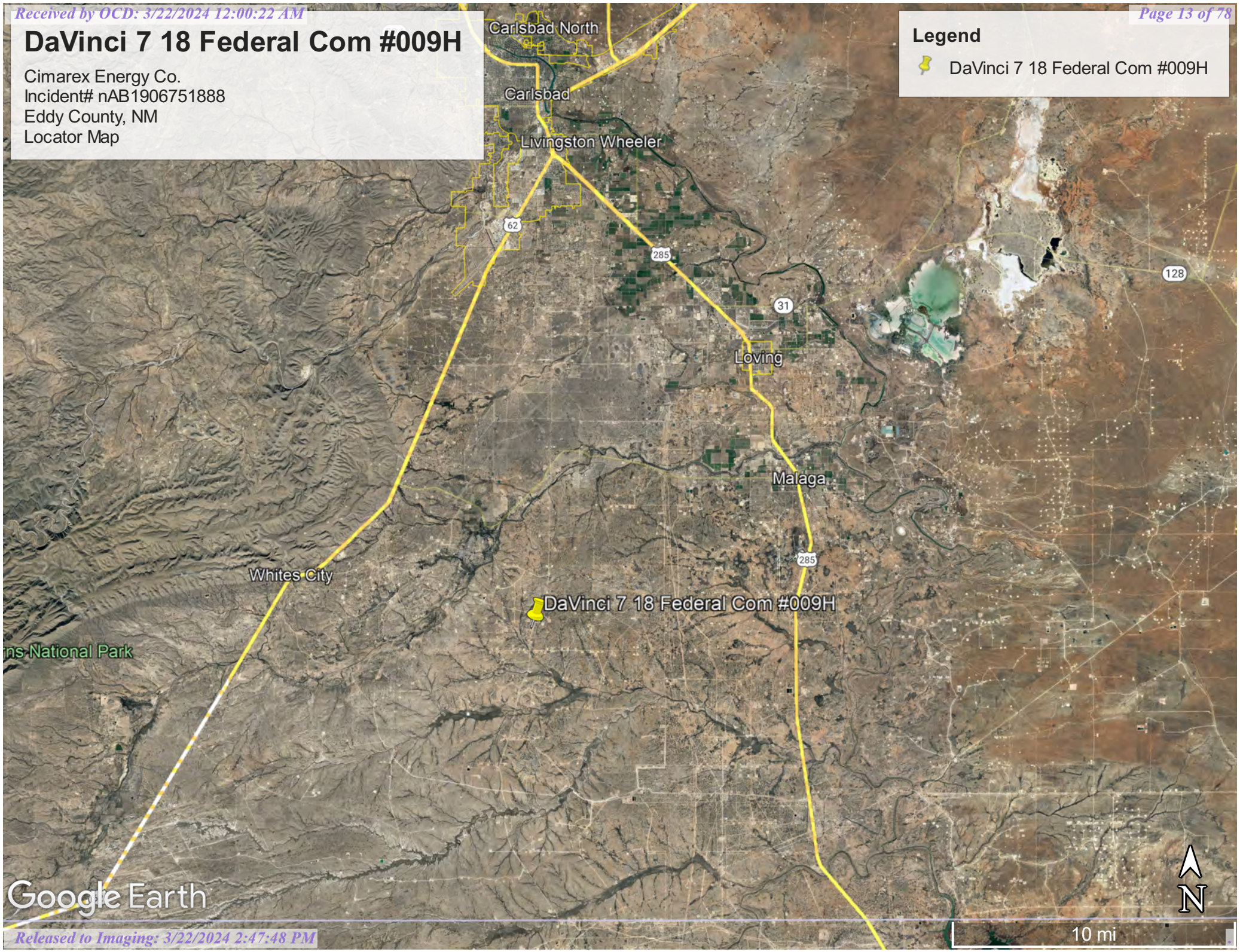
Legend

DaVinci 7 18 Federal Com #009H



DaVinci 7 18 Federal Com #009H

Cimarex Energy Co.
Incident# nAB1906751888
Eddy County, NM
Locator Map



APPENDIX II

GROUNDWATER DATA

SOIL SURVEY

FEMA FLOOD ZONE

New Mexico Office of the State Engineer
Water Column/Average Depth to Water

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

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

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

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

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 03261 POD1		CUB	ED	3	2	1	20	25S	27E	574007	3554006*	3594	351		
C 03569 POD1		CUB	ED	2	1	1	14	25S	26E	568862	3555746	3805	30	0	30
C 03654 POD1		CUB	ED	2	3	1	24	25S	26E	570654	3553773	3842			
C 00819		C	ED		4	4	26	24S	26E	570022	3560935*	4406	62	42	20
C 03200 POD1		C	ED	2	3	4	34	24S	26E	568206	3559349	4686	80	52	28
C 04586 POD1		C	ED	4	1	1	35	24S	26E	568993	3560476	4702	150		
C 01841		C	ED			1	29	24S	27E	573806	3561953*	4955	150		

Average Depth to Water: **31 feet**

Minimum Depth: **0 feet**

Maximum Depth: **52 feet**

Record Count: 7

Basin/County Search:

County: Eddy

UTMNAD83 Radius Search (in meters):

Easting (X): 572375 **Northing (Y):** 3557209 **Radius:** 5000

***UTM location was derived from PLSS - see Help**

3/21/24 10:46 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

Eddy Area, New Mexico

RM—Reeves-Reagan loams, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 1w5g
Elevation: 1,100 to 4,400 feet
Mean annual precipitation: 7 to 25 inches
Mean annual air temperature: 57 to 70 degrees F
Frost-free period: 200 to 240 days
Farmland classification: Not prime farmland

Map Unit Composition

Reeves and similar soils: 50 percent
Reagan and similar soils: 35 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Reeves

Setting

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

Typical profile

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

Properties and qualities

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

Interpretive groups

Land capability classification (irrigated): 3s
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: B
Ecological site: R070BC007NM - Loamy
Hydric soil rating: No

Description of Reagan

Setting

Landform: Fan remnants, alluvial fans
Landform position (three-dimensional): Rise
Down-slope shape: Convex, linear
Across-slope shape: Linear
Parent material: Alluvium and/or eolian deposits

Typical profile

H1 - 0 to 8 inches: loam
H2 - 8 to 30 inches: loam
H3 - 30 to 82 inches: clay loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 50 percent
Maximum salinity: Very slightly saline to moderately saline (2.0 to 8.0 mmhos/cm)
Sodium adsorption ratio, maximum: 15.0
Available water supply, 0 to 60 inches: Moderate (about 8.2 inches)

Interpretive groups

Land capability classification (irrigated): 2e
Land capability classification (nonirrigated): 6e
Hydrologic Soil Group: B
Ecological site: R070BC007NM - Loamy
Hydric soil rating: No

Minor Components

Cottonwood

Percent of map unit: 5 percent
Ecological site: R070BB006NM - Gyp Upland
Hydric soil rating: No

Upton

Percent of map unit: 5 percent

Ecological site: R070BC025NM - Shallow
Hydric soil rating: No

Gypsum land
Percent of map unit: 5 percent
Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico
Survey Area Data: Version 19, Sep 7, 2023

National Flood Hazard Layer FIRMette

FEMA

104°14'23"W 32°9'26"N

104°13'46"W 32°8'55"N

0 250 500 1,000 1,500 2,000 Feet

1:6,000

Basemap Imagery Source: USGS National Map 2023

Legend

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

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- 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 *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 Cross Sections with 1% Annual Chance
- 17.5 Water Surface Elevation
- Coastal Transect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

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 3/21/2024 at 12:48 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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

APPENDIX III

NMOCD CORRESPONDENCE

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

State of New Mexico
Energy Minerals and Natural Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

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

Incident ID	NAB1906751888
District RP	2RP-5288
Facility ID	
Application ID	pAB1906751326

Release Notification

Responsible Party

Responsible Party Cimarex Energy	OGRID 215099
Contact Name Christine Alderman	Contact Telephone 432-853-7059
Contact email calderman@cimarex.com	Incident # *(assigned by OCD)* NAB1906751888
Contact mailing address 600 N Marienfeld Ste 60, Midland, TX 79701	

Location of Release Source

Latitude 32.15291 Longitude -104.234597
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Da Vinci 7-18 Fed Com 9H **	Site Type production battery
Date Release Discovered 02-25-2019	API# *(if applicable)* 30-025-41174 30-015-44697**

Unit Letter	Section	Township	Range	County
M	06	25S	27E	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)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☐ Produced Water	Volume Released (bbls) 50	Volume Recovered (bbls) 45
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☒ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

The target Tee's coming off the high pressure separator going to the low pressure separator failed causing a release. 45 bbls were in a lined containment and recovered and 5 bbls were outside containment and were unable to be recovered. A hydro vac was utilized to remove the impscted soils immediately. Sampling will take place to determine remainder, if any, of the impact.

Form C-141 State of New Mexico
Page 2 Oil Conservation Division

Incident ID	NAB1906751888
District RP	2RP-5288
Facility ID	
Application ID	pAB1906751326

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? The release was >25 bbls
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Yes Christine Alderman Jim Griswold, Mike Bratcher 02/26/2019 email	

Initial Response

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

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

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

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

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

Printed Name: Christine Alderman Title: ESH Supervisor

Signature: Christine Alderman Date: 02/26/2019

email: calderman@cimarex.com Telephone: 432-853-7059

OCD Only

Received by: Amelia Barramente Date: 3/8/2019

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 320080

QUESTIONS

Operator: CIMAREX ENERGY CO. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 320080
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAB1906751888**
Incident Name	**NAB1906751888 DAVINCI 7 18 FEDERAL COM #009H @ 30-015-44697**
Incident Type	**Produced Water Release**
Incident Status	**Initial C-141 Approved**
Incident Well	**[30-015-44697] DAVINCI 7 18 FEDERAL COM #009H**

Location of Release Source	
Site Name	**DAVINCI 7 18 FEDERAL COM #009H**
Date Release Discovered	**02/25/2019**
Surface Owner	**Federal**

Sampling Event General Information *Please answer all the questions in this group.*	
What is the sampling surface area in square feet	864
What is the estimated number of samples that will be gathered	10
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/07/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Michael Collier - H&R - 575-909-0326
Please provide any information necessary for navigation to sampling site	32.15291,-104.234597

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

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

CONDITIONS

Operator: CIMAREX ENERGY CO. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 320080
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
lluig	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	3/4/2024

From: Ashton Thielke
To: Michael Collier
Subject: Fwd: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 320080
Date: Wednesday, March 6, 2024 10:58:14 AM

Ashton Thielke | PBU – Environmental Consultant
T: 432.813.8988 | M: 281.753.5659 | Ashton.Thielke@coterra.com | www.coterra.com
Coterra Energy Inc. | 6001 Deauville Blvd., Suite 300N | Midland, TX 79706

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

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Monday, March 4, 2024 8:56:20 PM
To: DL_Permian Environmental <DL_PermianEnvironmental@coterra.com>
Subject: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 320080

To whom it may concern (c/o Laci Luig for CIMAREX ENERGY CO.),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAB1906751888.

The sampling event is expected to take place:

When: 03/07/2024 @ 09:00
Where: M-06-25S-27E 0 FNL 0 FEL (32.15291,-104.234597)

Additional Information: Michael Collier - H&R - 575-909-0326

Additional Instructions: 32.15291,-104.234597

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation**

closure samples not being accepted.

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

APPENDIX IV

PHOTOGRAPHIC DOCUMENTATION

PHOTOGRAPHIC DOCUMENTATION

SITE ASSESSMENT PHOTOGRAPHS

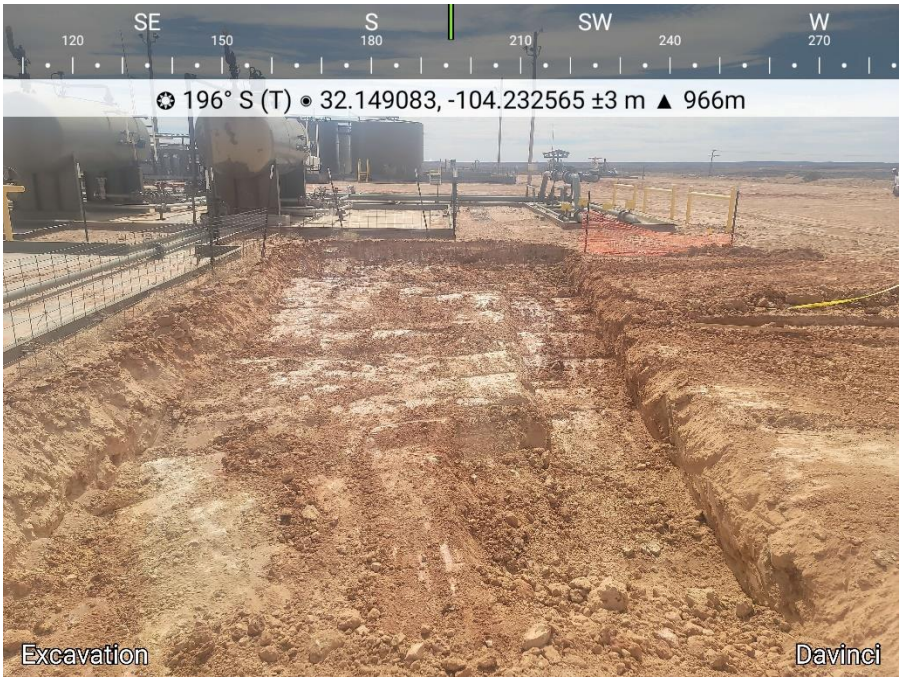
TEST TRENCH AREA

TEST TRENCH AREA

PHOTOGRAPHIC DOCUMENTATION

EXCAVATION PHOTOGRAPHS

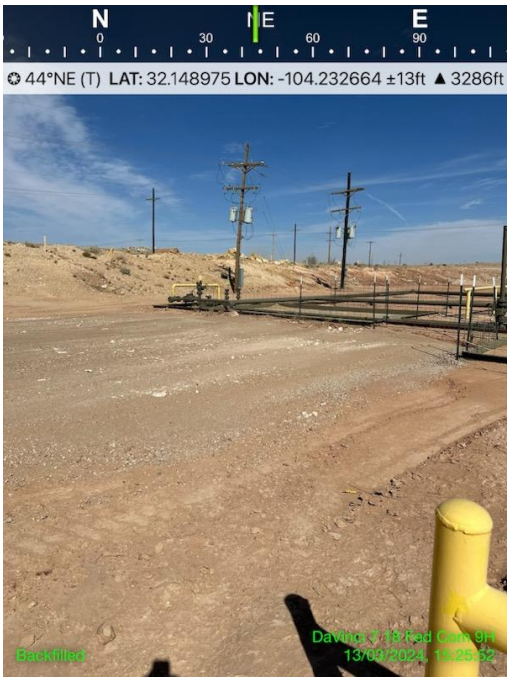
1.5-2FT. EXCAVATION



1.5-2FT. EXCAVATION

PHOTOGRAPHIC DOCUMENTATION

FINAL PHOTOGRAPHS



APPENDIX V

LABORATORY REPORTS

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Michael Collier
H & R Enterprises
5120 W Kansas St
Hobbs, New Mexico 88242

Generated 11/29/2023 10:04:42 AM

JOB DESCRIPTION

Davinci 7 18 Fed Com 0094
Eddy County NM

JOB NUMBER

890-5649-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

my EOL

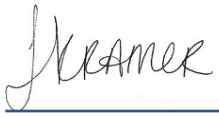
Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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11/29/2023 10:04:42 AM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: H & R Enterprises
Project/Site: Davinci 7 18 Fed Com 0094

Laboratory Job ID: 890-5649-1
SDG: Eddy County NM

Table of Contents

Definitions/Glossary

Client: H & R Enterprises
Project/Site: Davinci 7 18 Fed Com 0094

Job ID: 890-5649-1
SDG: Eddy County NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: H & R Enterprises
Project/Site: Davinci 7 18 Fed Com 0094

Job ID: 890-5649-1
SDG: Eddy County NM

Job ID: 890-5649-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-5649-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 11/16/2023 3:01 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.0°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: TT-1 0-1 (890-5649-1), TT-1 2 R (890-5649-2), TT-2 0-1 (890-5649-3), TT-2 2 (890-5649-4), TT-2 3 R (890-5649-5), TT-3 0-1 (890-5649-6) and TT-3 2 R (890-5649-7).

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-67586 and analytical batch 880-67691 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-67586 and analytical batch 880-67691 was outside the upper control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA
Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-67650 and analytical batch 880-67805 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: H & R Enterprises
Project/Site: Davinci 7 18 Fed Com 0094

Job ID: 890-5649-1
SDG: Eddy County NM

Client Sample ID: TT-1 0-1

Lab Sample ID: 890-5649-1
Matrix: Solid
Date Collected: 11/16/23 00:00
Date Received: 11/16/23 15:01
Sample Depth: 0-1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/22/23 17:00	11/27/23 12:22	1
Toluene	**0.00652**	**F1**	0.00200		mg/Kg		11/22/23 17:00	11/27/23 12:22	1
Ethylbenzene	**0.0150**	**F1**	0.00200		mg/Kg		11/22/23 17:00	11/27/23 12:22	1
m-Xylene & p-Xylene	**0.276**	**F1**	0.00401		mg/Kg		11/22/23 17:00	11/27/23 12:22	1
o-Xylene	**0.111**	**F1**	0.00200		mg/Kg		11/22/23 17:00	11/27/23 12:22	1
Xylenes, Total	**0.387**	**F1**	0.00401		mg/Kg		11/22/23 17:00	11/27/23 12:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*	*11/22/23 17:00*	*11/27/23 12:22*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*11/22/23 17:00*	*11/27/23 12:22*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.409**		0.00401		mg/Kg			11/27/23 12:22	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**2540**		49.9		mg/Kg			11/28/23 10:19	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**263**	**F2**	49.9		mg/Kg		11/22/23 15:02	11/28/23 10:19	1
Diesel Range Organics (Over C10-C28)	**2120**	**F1**	49.9		mg/Kg		11/22/23 15:02	11/28/23 10:19	1
Oil Range Organics (Over C28-C36)	**153**		49.9		mg/Kg		11/22/23 15:02	11/28/23 10:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*11/22/23 15:02*	*11/28/23 10:19*	*1*
o-Terphenyl	*79*		*70 - 130*	*11/22/23 15:02*	*11/28/23 10:19*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**54.1**		5.03		mg/Kg			11/22/23 09:50	1

Client Sample ID: TT-1 2 R

Lab Sample ID: 890-5649-2
Matrix: Solid
Date Collected: 11/16/23 00:00
Date Received: 11/16/23 15:01
Sample Depth: 2

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/22/23 17:00	11/27/23 14:25	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/22/23 17:00	11/27/23 14:25	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/22/23 17:00	11/27/23 14:25	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/22/23 17:00	11/27/23 14:25	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/22/23 17:00	11/27/23 14:25	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/22/23 17:00	11/27/23 14:25	1

Client Sample Results

Client: H & R Enterprises
Project/Site: Davinci 7 18 Fed Com 0094

Job ID: 890-5649-1
SDG: Eddy County NM

Client Sample ID: TT-1 2 R

Lab Sample ID: 890-5649-2
Matrix: Solid
Date Collected: 11/16/23 00:00
Date Received: 11/16/23 15:01
Sample Depth: 2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*11/22/23 17:00*	*11/27/23 14:25*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*11/22/23 17:00*	*11/27/23 14:25*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/27/23 14:25	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**73.7**		50.3		mg/Kg			11/28/23 11:29	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		11/22/23 15:02	11/28/23 11:29	1
Diesel Range Organics (Over C10-C28)	**73.7**		50.3		mg/Kg		11/22/23 15:02	11/28/23 11:29	1
OII Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		11/22/23 15:02	11/28/23 11:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*11/22/23 15:02*	*11/28/23 11:29*	*1*
o-Terphenyl	*92*		*70 - 130*	*11/22/23 15:02*	*11/28/23 11:29*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**38.3**		5.04		mg/Kg			11/22/23 09:56	1

Client Sample ID: TT-2 0-1

Lab Sample ID: 890-5649-3
Matrix: Solid
Date Collected: 11/16/23 00:00
Date Received: 11/16/23 15:01
Sample Depth: 0-1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/22/23 17:00	11/27/23 14:45	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/22/23 17:00	11/27/23 14:45	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/22/23 17:00	11/27/23 14:45	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/22/23 17:00	11/27/23 14:45	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/22/23 17:00	11/27/23 14:45	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/22/23 17:00	11/27/23 14:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*11/22/23 17:00*	*11/27/23 14:45*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*11/22/23 17:00*	*11/27/23 14:45*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/27/23 14:45	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			11/28/23 11:51	1

Eurofins Carlsbad

Client Sample Results

Client: H & R Enterprises
Project/Site: Davinci 7 18 Fed Com 0094

Job ID: 890-5649-1
SDG: Eddy County NM

Client Sample ID: TT-2 0-1

Lab Sample ID: 890-5649-3
Matrix: Solid
Date Collected: 11/16/23 00:00
Date Received: 11/16/23 15:01
Sample Depth: 0-1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		11/22/23 15:02	11/28/23 11:51	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		11/22/23 15:02	11/28/23 11:51	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		11/22/23 15:02	11/28/23 11:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*11/22/23 15:02*	*11/28/23 11:51*	*1*
o-Terphenyl	*90*		*70 - 130*	*11/22/23 15:02*	*11/28/23 11:51*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**81.0**		4.95		mg/Kg			11/22/23 10:13	1

Client Sample ID: TT-2 2

Lab Sample ID: 890-5649-4
Matrix: Solid
Date Collected: 11/16/23 00:00
Date Received: 11/16/23 15:01
Sample Depth: 2

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/22/23 17:00	11/27/23 15:06	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/22/23 17:00	11/27/23 15:06	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/22/23 17:00	11/27/23 15:06	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/22/23 17:00	11/27/23 15:06	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/22/23 17:00	11/27/23 15:06	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/22/23 17:00	11/27/23 15:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*11/22/23 17:00*	*11/27/23 15:06*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*11/22/23 17:00*	*11/27/23 15:06*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/27/23 15:06	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			11/28/23 12:14	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		11/22/23 15:02	11/28/23 12:14	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		11/22/23 15:02	11/28/23 12:14	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		11/22/23 15:02	11/28/23 12:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*70 - 130*	*11/22/23 15:02*	*11/28/23 12:14*	*1*
o-Terphenyl	*77*		*70 - 130*	*11/22/23 15:02*	*11/28/23 12:14*	*1*

Client Sample Results

Client: H & R Enterprises
Project/Site: Davinci 7 18 Fed Com 0094

Job ID: 890-5649-1
SDG: Eddy County NM

Client Sample ID: TT-2 2

Lab Sample ID: 890-5649-4
Matrix: Solid
Date Collected: 11/16/23 00:00
Date Received: 11/16/23 15:01
Sample Depth: 2

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	24.0		4.96		mg/Kg			11/22/23 10:18	1

Client Sample ID: TT-2 3 R

Lab Sample ID: 890-5649-5
Matrix: Solid
Date Collected: 11/16/23 00:00
Date Received: 11/16/23 15:01
Sample Depth: 3

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		11/22/23 17:00	11/27/23 15:26	1
Toluene	<0.00198	U	0.00198		mg/Kg		11/22/23 17:00	11/27/23 15:26	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		11/22/23 17:00	11/27/23 15:26	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		11/22/23 17:00	11/27/23 15:26	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		11/22/23 17:00	11/27/23 15:26	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		11/22/23 17:00	11/27/23 15:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*11/22/23 17:00*	*11/27/23 15:26*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*11/22/23 17:00*	*11/27/23 15:26*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			11/27/23 15:26	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			11/28/23 12:36	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		11/22/23 15:02	11/28/23 12:36	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		11/22/23 15:02	11/28/23 12:36	1
OII Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		11/22/23 15:02	11/28/23 12:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*11/22/23 15:02*	*11/28/23 12:36*	*1*
o-Terphenyl	*80*		*70 - 130*	*11/22/23 15:02*	*11/28/23 12:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	26.5		4.97		mg/Kg			11/22/23 10:35	1

Client Sample Results

Client: H & R Enterprises
Project/Site: Davinci 7 18 Fed Com 0094

Job ID: 890-5649-1
SDG: Eddy County NM

Client Sample ID: TT-3 0-1

Lab Sample ID: 890-5649-6
Matrix: Solid
Date Collected: 11/16/23 00:00
Date Received: 11/16/23 15:01
Sample Depth: 0-1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/22/23 17:00	11/27/23 17:16	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/22/23 17:00	11/27/23 17:16	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/22/23 17:00	11/27/23 17:16	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/22/23 17:00	11/27/23 17:16	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/22/23 17:00	11/27/23 17:16	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/22/23 17:00	11/27/23 17:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*11/22/23 17:00*	*11/27/23 17:16*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*11/22/23 17:00*	*11/27/23 17:16*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/27/23 17:16	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**50.2**		49.5		mg/Kg			11/28/23 13:01	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.5	U	49.5		mg/Kg		11/22/23 15:02	11/28/23 13:01	1
Diesel Range Organics (Over C10-C28)	**50.2**		49.5		mg/Kg		11/22/23 15:02	11/28/23 13:01	1
OII Range Organics (Over C28-C36)	<49.5	U	49.5		mg/Kg		11/22/23 15:02	11/28/23 13:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*83*		*70 - 130*	*11/22/23 15:02*	*11/28/23 13:01*	*1*
o-Terphenyl	*78*		*70 - 130*	*11/22/23 15:02*	*11/28/23 13:01*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**273**		5.00		mg/Kg			11/22/23 10:41	1

Client Sample ID: TT-3 2 R

Lab Sample ID: 890-5649-7
Matrix: Solid
Date Collected: 11/16/23 00:00
Date Received: 11/16/23 15:01
Sample Depth: 2

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/22/23 17:00	11/27/23 17:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/22/23 17:00	11/27/23 17:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/22/23 17:00	11/27/23 17:37	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/22/23 17:00	11/27/23 17:37	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/22/23 17:00	11/27/23 17:37	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/22/23 17:00	11/27/23 17:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*11/22/23 17:00*	*11/27/23 17:37*	*1*

Client Sample Results

Client: H & R Enterprises
Project/Site: Davinci 7 18 Fed Com 0094

Job ID: 890-5649-1
SDG: Eddy County NM

Client Sample ID: TT-3 2 R

Date Collected: 11/16/23 00:00
Date Received: 11/16/23 15:01
Sample Depth: 2

Lab Sample ID: 890-5649-7

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*11/22/23 17:00*	*11/27/23 17:37*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/27/23 17:37	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/28/23 13:25	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/22/23 15:02	11/28/23 13:25	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/22/23 15:02	11/28/23 13:25	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/22/23 15:02	11/28/23 13:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*80*		*70 - 130*	*11/22/23 15:02*	*11/28/23 13:25*	*1*
o-Terphenyl	*77*		*70 - 130*	*11/22/23 15:02*	*11/28/23 13:25*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**55.6**		5.01		mg/Kg			11/22/23 10:46	1

Surrogate Summary

Client: H & R Enterprises
Project/Site: Davinci 7 18 Fed Com 0094

Job ID: 890-5649-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-5649-1	TT-1 0-1	124	102
890-5649-1 MS	TT-1 0-1	106	85
890-5649-1 MSD	TT-1 0-1	90	99
890-5649-2	TT-1 2 R	107	100
890-5649-3	TT-2 0-1	109	99
890-5649-4	TT-2 2	107	101
890-5649-5	TT-2 3 R	115	97
890-5649-6	TT-3 0-1	92	100
890-5649-7	TT-3 2 R	97	102
LCS 880-67586/1-A	Lab Control Sample	99	96
LCSD 880-67586/2-A	Lab Control Sample Dup	94	107
MB 880-67586/5-A	Method Blank	98	144 S1+

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-5649-1	TT-1 0-1	98	79
890-5649-1 MS	TT-1 0-1	93	72
890-5649-1 MSD	TT-1 0-1	105	79
890-5649-2	TT-1 2 R	97	92
890-5649-3	TT-2 0-1	92	90
890-5649-4	TT-2 2	81	77
890-5649-5	TT-2 3 R	85	80
890-5649-6	TT-3 0-1	83	78
890-5649-7	TT-3 2 R	80	77
LCS 880-67650/2-A	Lab Control Sample	121	125
LCSD 880-67650/3-A	Lab Control Sample Dup	97	99
MB 880-67650/1-A	Method Blank	104	106

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: H & R Enterprises
Project/Site: Davinci 7 18 Fed Com 0094

Job ID: 890-5649-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-67586/5-A
Matrix: Solid
Analysis Batch: 67691

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 67586

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/22/23 17:00	11/27/23 11:54	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/22/23 17:00	11/27/23 11:54	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/22/23 17:00	11/27/23 11:54	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/22/23 17:00	11/27/23 11:54	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/22/23 17:00	11/27/23 11:54	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/22/23 17:00	11/27/23 11:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*11/22/23 17:00*	*11/27/23 11:54*	*1*
1,4-Difluorobenzene (Surr)	*144*	*S1+*	*70 - 130*	*11/22/23 17:00*	*11/27/23 11:54*	*1*

Lab Sample ID: LCS 880-67586/1-A
Matrix: Solid
Analysis Batch: 67691

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 67586

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.08717		mg/Kg		87	70 - 130		
Toluene			0.100	0.09063		mg/Kg		91	70 - 130		
Ethylbenzene			0.100	0.08672		mg/Kg		87	70 - 130		
m-Xylene & p-Xylene			0.200	0.2109		mg/Kg		105	70 - 130		
o-Xylene			0.100	0.1033		mg/Kg		103	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: LCSD 880-67586/2-A
Matrix: Solid
Analysis Batch: 67691

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 67586

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09477		mg/Kg		95	70 - 130	8	35
Toluene			0.100	0.08743		mg/Kg		87	70 - 130	4	35
Ethylbenzene			0.100	0.08464		mg/Kg		85	70 - 130	2	35
m-Xylene & p-Xylene			0.200	0.1930		mg/Kg		96	70 - 130	9	35
o-Xylene			0.100	0.09338		mg/Kg		93	70 - 130	10	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*

Lab Sample ID: 890-5649-1 MS
Matrix: Solid
Analysis Batch: 67691

Client Sample ID: TT-1 0-1
Prep Type: Total/NA
Prep Batch: 67586

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.0998	0.07451		mg/Kg		75	70 - 130		
Toluene	0.00652	F1	0.0998	0.07145	F1	mg/Kg		65	70 - 130		

QC Sample Results

Client: H & R Enterprises
Project/Site: Davinci 7 18 Fed Com 0094

Job ID: 890-5649-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-5649-1 MS
Matrix: Solid
Analysis Batch: 67691

Client Sample ID: TT-1 0-1
Prep Type: Total/NA
Prep Batch: 67586

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	0.0150	F1	0.0998	0.09961		mg/Kg		85	70 - 130
m-Xylene & p-Xylene	0.276	F1	0.200	0.3536	F1	mg/Kg		39	70 - 130
o-Xylene	0.111	F1	0.0998	0.1338	F1	mg/Kg		23	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*

Lab Sample ID: 890-5649-1 MSD
Matrix: Solid
Analysis Batch: 67691

Client Sample ID: TT-1 0-1
Prep Type: Total/NA
Prep Batch: 67586

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0990	0.08737		mg/Kg		88	70 - 130	16	35
Toluene	0.00652	F1	0.0990	0.06412	F1	mg/Kg		58	70 - 130	11	35
Ethylbenzene	0.0150	F1	0.0990	0.07849	F1	mg/Kg		64	70 - 130	24	35
m-Xylene & p-Xylene	0.276	F1	0.198	0.2876	F1	mg/Kg		6	70 - 130	21	35
o-Xylene	0.111	F1	0.0990	0.1040	F1	mg/Kg		-7	70 - 130	25	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-67650/1-A
Matrix: Solid
Analysis Batch: 67805

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 67650

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/22/23 15:02	11/28/23 07:40	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/22/23 15:02	11/28/23 07:40	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/22/23 15:02	11/28/23 07:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*11/22/23 15:02*	*11/28/23 07:40*	*1*
o-Terphenyl	*106*		*70 - 130*	*11/22/23 15:02*	*11/28/23 07:40*	*1*

Lab Sample ID: LCS 880-67650/2-A
Matrix: Solid
Analysis Batch: 67805

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 67650

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1019		mg/Kg		102	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1056		mg/Kg		106	70 - 130

QC Sample Results

Client: H & R Enterprises
Project/Site: Davinci 7 18 Fed Com 0094

Job ID: 890-5649-1
SDG: Eddy County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-67650/2-A
Matrix: Solid
Analysis Batch: 67805

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 67650

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	121		70 - 130
o-Terphenyl	125		70 - 130

Lab Sample ID: LCSD 880-67650/3-A
Matrix: Solid
Analysis Batch: 67805

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 67650

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	951.5		mg/Kg		95	70 - 130	7	20
Diesel Range Organics (Over C10-C28)			1000	985.1		mg/Kg		99	70 - 130	7	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	97		70 - 130
o-Terphenyl	99		70 - 130

Lab Sample ID: 890-5649-1 MS
Matrix: Solid
Analysis Batch: 67805

Client Sample ID: TT-1 0-1
Prep Type: Total/NA
Prep Batch: 67650

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	263	F2	991	1022		mg/Kg		77	70 - 130
Diesel Range Organics (Over C10-C28)	2120	F1	991	2513	F1	mg/Kg		40	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	93		70 - 130
o-Terphenyl	72		70 - 130

Lab Sample ID: 890-5649-1 MSD
Matrix: Solid
Analysis Batch: 67805

Client Sample ID: TT-1 0-1
Prep Type: Total/NA
Prep Batch: 67650

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	263	F2	991	1537	F2	mg/Kg		128	70 - 130	40	20
Diesel Range Organics (Over C10-C28)	2120	F1	991	2788	F1	mg/Kg		68	70 - 130	10	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	105		70 - 130
o-Terphenyl	79		70 - 130

QC Sample Results

Client: H & R Enterprises
Project/Site: Davinci 7 18 Fed Com 0094

Job ID: 890-5649-1
SDG: Eddy County NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-67440/1-A
Matrix: Solid
Analysis Batch: 67622

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			11/22/23 08:20	1

Lab Sample ID: LCS 880-67440/2-A
Matrix: Solid
Analysis Batch: 67622

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	242.9		mg/Kg		97	90 - 110		

Lab Sample ID: LCSD 880-67440/3-A
Matrix: Solid
Analysis Batch: 67622

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	246.4		mg/Kg		99	90 - 110	1	20

Lab Sample ID: 890-5649-2 MS
Matrix: Solid
Analysis Batch: 67622

Client Sample ID: TT-1 2 R
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	38.3		252	287.9		mg/Kg		99	90 - 110		

Lab Sample ID: 890-5649-2 MSD
Matrix: Solid
Analysis Batch: 67622

Client Sample ID: TT-1 2 R
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	38.3		252	288.7		mg/Kg		99	90 - 110	0	20

QC Association Summary

Client: H & R Enterprises
Project/Site: Davinci 7 18 Fed Com 0094

Job ID: 890-5649-1
SDG: Eddy County NM

GC VOA

Prep Batch: 67586

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5649-1	TT-1 0-1	Total/NA	Solid	5035	
890-5649-2	TT-1 2 R	Total/NA	Solid	5035	
890-5649-3	TT-2 0-1	Total/NA	Solid	5035	
890-5649-4	TT-2 2	Total/NA	Solid	5035	
890-5649-5	TT-2 3 R	Total/NA	Solid	5035	
890-5649-6	TT-3 0-1	Total/NA	Solid	5035	
890-5649-7	TT-3 2 R	Total/NA	Solid	5035	
MB 880-67586/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-67586/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-67586/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-5649-1 MS	TT-1 0-1	Total/NA	Solid	5035	
890-5649-1 MSD	TT-1 0-1	Total/NA	Solid	5035	

Analysis Batch: 67691

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5649-1	TT-1 0-1	Total/NA	Solid	8021B	67586
890-5649-2	TT-1 2 R	Total/NA	Solid	8021B	67586
890-5649-3	TT-2 0-1	Total/NA	Solid	8021B	67586
890-5649-4	TT-2 2	Total/NA	Solid	8021B	67586
890-5649-5	TT-2 3 R	Total/NA	Solid	8021B	67586
890-5649-6	TT-3 0-1	Total/NA	Solid	8021B	67586
890-5649-7	TT-3 2 R	Total/NA	Solid	8021B	67586
MB 880-67586/5-A	Method Blank	Total/NA	Solid	8021B	67586
LCS 880-67586/1-A	Lab Control Sample	Total/NA	Solid	8021B	67586
LCSD 880-67586/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	67586
890-5649-1 MS	TT-1 0-1	Total/NA	Solid	8021B	67586
890-5649-1 MSD	TT-1 0-1	Total/NA	Solid	8021B	67586

Analysis Batch: 67788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5649-1	TT-1 0-1	Total/NA	Solid	Total BTEX	
890-5649-2	TT-1 2 R	Total/NA	Solid	Total BTEX	
890-5649-3	TT-2 0-1	Total/NA	Solid	Total BTEX	
890-5649-4	TT-2 2	Total/NA	Solid	Total BTEX	
890-5649-5	TT-2 3 R	Total/NA	Solid	Total BTEX	
890-5649-6	TT-3 0-1	Total/NA	Solid	Total BTEX	
890-5649-7	TT-3 2 R	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 67650

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5649-1	TT-1 0-1	Total/NA	Solid	8015NM Prep	
890-5649-2	TT-1 2 R	Total/NA	Solid	8015NM Prep	
890-5649-3	TT-2 0-1	Total/NA	Solid	8015NM Prep	
890-5649-4	TT-2 2	Total/NA	Solid	8015NM Prep	
890-5649-5	TT-2 3 R	Total/NA	Solid	8015NM Prep	
890-5649-6	TT-3 0-1	Total/NA	Solid	8015NM Prep	
890-5649-7	TT-3 2 R	Total/NA	Solid	8015NM Prep	
MB 880-67650/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-67650/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: H & R Enterprises
Project/Site: Davinci 7 18 Fed Com 0094

Job ID: 890-5649-1
SDG: Eddy County NM

GC Semi VOA (Continued)

Prep Batch: 67650 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-67650/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-5649-1 MS	TT-1 0-1	Total/NA	Solid	8015NM Prep	
890-5649-1 MSD	TT-1 0-1	Total/NA	Solid	8015NM Prep	

Analysis Batch: 67805

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5649-1	TT-1 0-1	Total/NA	Solid	8015B NM	67650
890-5649-2	TT-1 2 R	Total/NA	Solid	8015B NM	67650
890-5649-3	TT-2 0-1	Total/NA	Solid	8015B NM	67650
890-5649-4	TT-2 2	Total/NA	Solid	8015B NM	67650
890-5649-5	TT-2 3 R	Total/NA	Solid	8015B NM	67650
890-5649-6	TT-3 0-1	Total/NA	Solid	8015B NM	67650
890-5649-7	TT-3 2 R	Total/NA	Solid	8015B NM	67650
MB 880-67650/1-A	Method Blank	Total/NA	Solid	8015B NM	67650
LCS 880-67650/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	67650
LCSD 880-67650/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	67650
890-5649-1 MS	TT-1 0-1	Total/NA	Solid	8015B NM	67650
890-5649-1 MSD	TT-1 0-1	Total/NA	Solid	8015B NM	67650

Analysis Batch: 67904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5649-1	TT-1 0-1	Total/NA	Solid	8015 NM	
890-5649-2	TT-1 2 R	Total/NA	Solid	8015 NM	
890-5649-3	TT-2 0-1	Total/NA	Solid	8015 NM	
890-5649-4	TT-2 2	Total/NA	Solid	8015 NM	
890-5649-5	TT-2 3 R	Total/NA	Solid	8015 NM	
890-5649-6	TT-3 0-1	Total/NA	Solid	8015 NM	
890-5649-7	TT-3 2 R	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 67440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5649-1	TT-1 0-1	Soluble	Solid	DI Leach	
890-5649-2	TT-1 2 R	Soluble	Solid	DI Leach	
890-5649-3	TT-2 0-1	Soluble	Solid	DI Leach	
890-5649-4	TT-2 2	Soluble	Solid	DI Leach	
890-5649-5	TT-2 3 R	Soluble	Solid	DI Leach	
890-5649-6	TT-3 0-1	Soluble	Solid	DI Leach	
890-5649-7	TT-3 2 R	Soluble	Solid	DI Leach	
MB 880-67440/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-67440/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-67440/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-5649-2 MS	TT-1 2 R	Soluble	Solid	DI Leach	
890-5649-2 MSD	TT-1 2 R	Soluble	Solid	DI Leach	

Analysis Batch: 67622

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5649-1	TT-1 0-1	Soluble	Solid	300.0	67440
890-5649-2	TT-1 2 R	Soluble	Solid	300.0	67440
890-5649-3	TT-2 0-1	Soluble	Solid	300.0	67440

QC Association Summary

Client: H & R Enterprises
Project/Site: Davinci 7 18 Fed Com 0094

Job ID: 890-5649-1
SDG: Eddy County NM

HPLC/IC (Continued)

Analysis Batch: 67622 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5649-4	TT-2 2	Soluble	Solid	300.0	67440
890-5649-5	TT-2 3 R	Soluble	Solid	300.0	67440
890-5649-6	TT-3 0-1	Soluble	Solid	300.0	67440
890-5649-7	TT-3 2 R	Soluble	Solid	300.0	67440
MB 880-67440/1-A	Method Blank	Soluble	Solid	300.0	67440
LCS 880-67440/2-A	Lab Control Sample	Soluble	Solid	300.0	67440
LCSD 880-67440/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	67440
890-5649-2 MS	TT-1 2 R	Soluble	Solid	300.0	67440
890-5649-2 MSD	TT-1 2 R	Soluble	Solid	300.0	67440

Lab Chronicle

Client: H & R Enterprises
Project/Site: Davinci 7 18 Fed Com 0094

Job ID: 890-5649-1
SDG: Eddy County NM

Client Sample ID: TT-1 0-1

Lab Sample ID: 890-5649-1
Matrix: Solid
Date Collected: 11/16/23 00:00
Date Received: 11/16/23 15:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	67586	11/22/23 17:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67691	11/27/23 12:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67788	11/27/23 12:22	SM	EET MID
Total/NA	Analysis	8015 NM		1			67904	11/28/23 10:19	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	67650	11/22/23 15:02	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67805	11/28/23 10:19	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	67440	11/20/23 14:55	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67622	11/22/23 09:50	SMC	EET MID

Client Sample ID: TT-1 2 R

Lab Sample ID: 890-5649-2
Matrix: Solid
Date Collected: 11/16/23 00:00
Date Received: 11/16/23 15:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	67586	11/22/23 17:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67691	11/27/23 14:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67788	11/27/23 14:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			67904	11/28/23 11:29	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	67650	11/22/23 15:02	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67805	11/28/23 11:29	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	67440	11/20/23 14:55	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67622	11/22/23 09:56	SMC	EET MID

Client Sample ID: TT-2 0-1

Lab Sample ID: 890-5649-3
Matrix: Solid
Date Collected: 11/16/23 00:00
Date Received: 11/16/23 15:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	67586	11/22/23 17:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67691	11/27/23 14:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67788	11/27/23 14:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			67904	11/28/23 11:51	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	67650	11/22/23 15:02	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67805	11/28/23 11:51	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	67440	11/20/23 14:55	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67622	11/22/23 10:13	SMC	EET MID

Client Sample ID: TT-2 2

Lab Sample ID: 890-5649-4
Matrix: Solid
Date Collected: 11/16/23 00:00
Date Received: 11/16/23 15:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	67586	11/22/23 17:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67691	11/27/23 15:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67788	11/27/23 15:06	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: H & R Enterprises
Project/Site: Davinci 7 18 Fed Com 0094

Job ID: 890-5649-1
SDG: Eddy County NM

Client Sample ID: TT-2 2
Date Collected: 11/16/23 00:00
Date Received: 11/16/23 15:01

Lab Sample ID: 890-5649-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			67904	11/28/23 12:14	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	67650	11/22/23 15:02	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67805	11/28/23 12:14	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	67440	11/20/23 14:55	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67622	11/22/23 10:18	SMC	EET MID

Client Sample ID: TT-2 3 R
Date Collected: 11/16/23 00:00
Date Received: 11/16/23 15:01

Lab Sample ID: 890-5649-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	67586	11/22/23 17:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67691	11/27/23 15:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67788	11/27/23 15:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			67904	11/28/23 12:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	67650	11/22/23 15:02	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67805	11/28/23 12:36	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	67440	11/20/23 14:55	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67622	11/22/23 10:35	SMC	EET MID

Client Sample ID: TT-3 0-1
Date Collected: 11/16/23 00:00
Date Received: 11/16/23 15:01

Lab Sample ID: 890-5649-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	67586	11/22/23 17:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67691	11/27/23 17:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67788	11/27/23 17:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			67904	11/28/23 13:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.10 g	10 mL	67650	11/22/23 15:02	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67805	11/28/23 13:01	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	67440	11/20/23 14:55	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67622	11/22/23 10:41	SMC	EET MID

Client Sample ID: TT-3 2 R
Date Collected: 11/16/23 00:00
Date Received: 11/16/23 15:01

Lab Sample ID: 890-5649-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	67586	11/22/23 17:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67691	11/27/23 17:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67788	11/27/23 17:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			67904	11/28/23 13:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	67650	11/22/23 15:02	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67805	11/28/23 13:25	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: H & R Enterprises
Job ID: 890-5649-1
Project/Site: Davinci 7 18 Fed Com 0094
SDG: Eddy County NM

Client Sample ID: TT-3 2 R
Lab Sample ID: 890-5649-7

Date Collected: 11/16/23 00:00
Matrix: Solid

Date Received: 11/16/23 15:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	67440	11/20/23 14:55	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67622	11/22/23 10:46	SMC	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: H & R Enterprises
Project/Site: Davinci 7 18 Fed Com 0094

Job ID: 890-5649-1
SDG: Eddy County NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: H & R Enterprises
Project/Site: Davinci 7 18 Fed Com 0094

Job ID: 890-5649-1
SDG: Eddy County NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: H & R Enterprises
Project/Site: Davinci 7 18 Fed Com 0094

Job ID: 890-5649-1
SDG: Eddy County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-5649-1	TT-1 0-1	Solid	11/16/23 00:00	11/16/23 15:01	0-1
890-5649-2	TT-1 2 R	Solid	11/16/23 00:00	11/16/23 15:01	2
890-5649-3	TT-2 0-1	Solid	11/16/23 00:00	11/16/23 15:01	0-1
890-5649-4	TT-2 2	Solid	11/16/23 00:00	11/16/23 15:01	2
890-5649-5	TT-2 3 R	Solid	11/16/23 00:00	11/16/23 15:01	3
890-5649-6	TT-3 0-1	Solid	11/16/23 00:00	11/16/23 15:01	0-1
890-5649-7	TT-3 2 R	Solid	11/16/23 00:00	11/16/23 15:01	2

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 1 of 1

Project Manager:	M. COLLIER	Bill to: (if different)	LACI LUIG-
Company Name:	H&R ENTERPRISES	Company Name:	COTERRA ENERGY
Address:		Address:	
City, State ZIP:		City, State ZIP:	
Phone:	575-909-0326	Email:	

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	DAVINCI 7 18 FED COM # 6H	Turn Around	
Project Number:	(DAVINCI)	☒ Routine ☐ Rush	
Project Location:	EDDY COUNTY, NM	Due Date:	
Sampler's Name:	R. BELL	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	TM09
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.3
Sample Custody Seals:	Yes No N/A	Temperature Reading:	2.2
Total Containers:		Corrected Temperature:	2.2

ANALYSIS REQUEST

Pres. Code / Parameters: BTEX, TPH, CHLORIDES

Preservative Codes

None: NO DI Water: H_2O
Cool: Cool MeOH: Me
HCL: HC HNO_3: HN
H_2SO_4: H_2 NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	BTEX	TPH	CHLORIDES	Sample Comments
TT-1 0-1'	SOIL	11-16-23		0-1'	GRAB	1	X	X	X	
TT-1 2'R				2'R						
TT-2 0-1'				0-1'						
TT-2 2'				2'						
TT-3 3'R				3'R						
TT-3 0-1'				0-1'						
TT-3 2'R				2'R						

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		11-16	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Phone: 575-988-3199 Fax. 575-988-3199

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kramer Jessica	Carrier Tracking No(s):	COC No: 890-1821 1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Jessica.Kramer@et.eurofinsus.com	State of Origin: New Mexico	Page: Page 1 of 1
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 890-5649-1
Address: 1211 W Florida Ave	Due Date Requested: 11/27/2023			
City: Midland	TAT Requested (days):			
State, Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email	WO #:			
Project Name: davinci 7 18 fed com 0094	Project #: 89000108			
Site	SSOW#:			

Analysis Requested

Preservation Codes

A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W - pH 4-5, Y Trizma, Z other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8021B/5035FP_Calc BTEX	Total_BTEX_GCV	8015MOD_Calc	8015MOD_NM/8015NM_S_Prep Full TPH	300_ORGFM_28D/DI_LEACH Chloride	Total Number of containers	Special Instructions/Note
			Preservation Code:										
TT-1 0-1 (890-5649-1)	11/16/23	Mountain		Solid			X	X	X	X	X	1	
TT-1 2 R (890-5649-2)	11/16/23	Mountain		Solid			X	X	X	X	X	1	
TT-2 0-1 (890-5649-3)	11/16/23	Mountain		Solid			X	X	X	X	X	1	
TT-2 2 (890-5649-4)	11/16/23	Mountain		Solid			X	X	X	X	X	1	
TT-2 3 R (890-5649-5)	11/16/23	Mountain		Solid			X	X	X	X	X	1	
TT-3 0-1 (890-5649-6)	11/16/23	Mountain		Solid			X	X	X	X	X	1	
TT-3 2 R (890-5649-7)	11/16/23	Mountain		Solid			X	X	X	X	X	1	

Note Since laboratory accreditations are subject to change Eurofins Environment Testing South Central LLC places the ownership of method analyte & accreditation compliance upon our subcontract laboratories This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Environment Testing South Central LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately If all requested accreditations are current to date return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central LLC.

Possible Hazard Identification: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank. 2	Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time.	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks.

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: H & R Enterprises

Job Number: 890-5649-1
SDG Number: Eddy County NM

Login Number: 5649
List Number: 1
Creator: Lopez, Abraham

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: H & R Enterprises

Job Number: 890-5649-1
SDG Number: Eddy County NM

Login Number: 5649
List Number: 2
Creator: Kramer, Jessica

List Source: Eurofins Midland
List Creation: 11/20/23 10:41 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

CARDINAL Laboratories

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

March 12, 2024

MICHAEL COLLIER

H & R ENTERPRISES

1010 GAMBLIN ROAD

HOBBS, NM 88240

RE: DA VINCI 7 18 FED COM #009H

Enclosed are the results of analyses for samples received by the laboratory on 03/07/24 11:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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 accreditated through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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:	03/07/2024	Sampling Date:	03/07/2024
Reported:	03/12/2024	Sampling Type:	Soil
Project Name:	DA VINCI 7 18 FED COM #009H	Sampling Condition:	Cool & Intact
Project Number:	(DAV)	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

Sample ID: S - 1 1.5' - 2' (H241153-01)

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	03/09/2024	ND	1.94	97.1	2.00	0.721	
Toluene*	<0.050	0.050	03/09/2024	ND	2.04	102	2.00	1.33	
Ethylbenzene*	<0.050	0.050	03/09/2024	ND	2.00	100	2.00	1.65	
Total Xylenes*	<0.150	0.150	03/09/2024	ND	6.09	102	6.00	1.63	
Total BTEX	<0.300	0.300	03/09/2024	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**96.0**	16.0	03/11/2024	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/08/2024	ND	228	114	200	4.37	
DRO >C10-C28*	<10.0	10.0	03/08/2024	ND	219	110	200	4.34	
EXT DRO >C28-C36	<10.0	10.0	03/08/2024	ND					

Surrogate: 1-Chlorooctane *95.9 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *90.7 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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:	03/07/2024	Sampling Date:	03/07/2024
Reported:	03/12/2024	Sampling Type:	Soil
Project Name:	DA VINCI 7 18 FED COM #009H	Sampling Condition:	Cool & Intact
Project Number:	(DAV)	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

Sample ID: S - 2 1.5' - 2' (H241153-02)

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	03/09/2024	ND	1.94	97.1	2.00	0.721	
Toluene*	<0.050	0.050	03/09/2024	ND	2.04	102	2.00	1.33	
Ethylbenzene*	<0.050	0.050	03/09/2024	ND	2.00	100	2.00	1.65	
Total Xylenes*	<0.150	0.150	03/09/2024	ND	6.09	102	6.00	1.63	
Total BTEX	<0.300	0.300	03/09/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *112 %* *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	03/11/2024	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/08/2024	ND	228	114	200	4.37	
DRO >C10-C28*	<10.0	10.0	03/08/2024	ND	219	110	200	4.34	
EXT DRO >C28-C36	<10.0	10.0	03/08/2024	ND					

Surrogate: 1-Chlorooctane *94.0 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *91.3 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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:	03/07/2024	Sampling Date:	03/07/2024
Reported:	03/12/2024	Sampling Type:	Soil
Project Name:	DA VINCI 7 18 FED COM #009H	Sampling Condition:	Cool & Intact
Project Number:	(DAV)	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

Sample ID: S - 3 1.5' - 2' (H241153-03)

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	03/09/2024	ND	1.94	97.1	2.00	0.721	
Toluene*	<0.050	0.050	03/09/2024	ND	2.04	102	2.00	1.33	
Ethylbenzene*	<0.050	0.050	03/09/2024	ND	2.00	100	2.00	1.65	
Total Xylenes*	<0.150	0.150	03/09/2024	ND	6.09	102	6.00	1.63	
Total BTEX	<0.300	0.300	03/09/2024	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	03/11/2024	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/08/2024	ND	228	114	200	4.37	
DRO >C10-C28*	<10.0	10.0	03/08/2024	ND	219	110	200	4.34	
EXT DRO >C28-C36	<10.0	10.0	03/08/2024	ND					

Surrogate: 1-Chlorooctane *96.9 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *94.9 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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:	03/07/2024	Sampling Date:	03/07/2024
Reported:	03/12/2024	Sampling Type:	Soil
Project Name:	DA VINCI 7 18 FED COM #009H	Sampling Condition:	Cool & Intact
Project Number:	(DAV)	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

Sample ID: SW - 1 1.5' - 2' (H241153-04)

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	03/09/2024	ND	1.94	97.1	2.00	0.721	
Toluene*	<0.050	0.050	03/09/2024	ND	2.04	102	2.00	1.33	
Ethylbenzene*	<0.050	0.050	03/09/2024	ND	2.00	100	2.00	1.65	
Total Xylenes*	<0.150	0.150	03/09/2024	ND	6.09	102	6.00	1.63	
Total BTEX	<0.300	0.300	03/09/2024	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**80.0**	16.0	03/11/2024	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/08/2024	ND	228	114	200	4.37	
DRO >C10-C28*	<10.0	10.0	03/08/2024	ND	219	110	200	4.34	
EXT DRO >C28-C36	<10.0	10.0	03/08/2024	ND					

Surrogate: 1-Chlorooctane *94.6 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *87.9 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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:	03/07/2024	Sampling Date:	03/07/2024
Reported:	03/12/2024	Sampling Type:	Soil
Project Name:	DA VINCI 7 18 FED COM #009H	Sampling Condition:	Cool & Intact
Project Number:	(DAV)	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

Sample ID: SW - 2 1.5' - 2' (H241153-05)

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	03/09/2024	ND	1.94	97.1	2.00	0.721	
Toluene*	<0.050	0.050	03/09/2024	ND	2.04	102	2.00	1.33	
Ethylbenzene*	<0.050	0.050	03/09/2024	ND	2.00	100	2.00	1.65	
Total Xylenes*	<0.150	0.150	03/09/2024	ND	6.09	102	6.00	1.63	
Total BTEX	<0.300	0.300	03/09/2024	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**80.0**	16.0	03/11/2024	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/08/2024	ND	228	114	200	4.37	
DRO >C10-C28*	<10.0	10.0	03/08/2024	ND	219	110	200	4.34	
EXT DRO >C28-C36	<10.0	10.0	03/08/2024	ND					

Surrogate: 1-Chlorooctane *95.4 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *90.9 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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:	03/07/2024	Sampling Date:	03/07/2024
Reported:	03/12/2024	Sampling Type:	Soil
Project Name:	DA VINCI 7 18 FED COM #009H	Sampling Condition:	Cool & Intact
Project Number:	(DAV)	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

Sample ID: SW - 3 1.5' - 2' (H241153-06)

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	03/09/2024	ND	1.94	97.1	2.00	0.721	
Toluene*	<0.050	0.050	03/09/2024	ND	2.04	102	2.00	1.33	
Ethylbenzene*	<0.050	0.050	03/09/2024	ND	2.00	100	2.00	1.65	
Total Xylenes*	<0.150	0.150	03/09/2024	ND	6.09	102	6.00	1.63	
Total BTEX	<0.300	0.300	03/09/2024	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**80.0**	16.0	03/11/2024	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/08/2024	ND	228	114	200	4.37	
DRO >C10-C28*	<10.0	10.0	03/08/2024	ND	219	110	200	4.34	
EXT DRO >C28-C36	<10.0	10.0	03/08/2024	ND					

Surrogate: 1-Chlorooctane *95.4 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *90.5 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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:	03/07/2024	Sampling Date:	03/07/2024
Reported:	03/12/2024	Sampling Type:	Soil
Project Name:	DA VINCI 7 18 FED COM #009H	Sampling Condition:	Cool & Intact
Project Number:	(DAV)	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

Sample ID: SW - 4 1.5' - 2' (H241153-07)

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	03/09/2024	ND	1.94	97.1	2.00	0.721	
Toluene*	<0.050	0.050	03/09/2024	ND	2.04	102	2.00	1.33	
Ethylbenzene*	<0.050	0.050	03/09/2024	ND	2.00	100	2.00	1.65	
Total Xylenes*	<0.150	0.150	03/09/2024	ND	6.09	102	6.00	1.63	
Total BTEX	<0.300	0.300	03/09/2024	ND					

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

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	03/11/2024	ND	400	100	400	3.92	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/08/2024	ND	228	114	200	4.37	
DRO >C10-C28*	<10.0	10.0	03/08/2024	ND	219	110	200	4.34	
EXT DRO >C28-C36	<10.0	10.0	03/08/2024	ND					

Surrogate: 1-Chlorooctane *86.1 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *76.7 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: H&R Enterprises	**BILL TO**
Project Manager: Michael Collier	P.O. #:
Address:	Company: Cimarex
City: State: Zip:	Attn: Laci Luig
Phone #: Fax #:	Address:
Project #: Project Owner: Cimarex	City:
Project Name: DaVinci 7 18 Fed Com #009H (Dav)	State: Zip:
Project Location: Eddy	Phone #:
Sampler Name: R. Bell	Fax #:

FOR LAB USE ONLY

Lab I.D.		(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	MATRIX: WASTEWATER	MATRIX: SOIL	MATRIX: OIL	MATRIX: SLUDGE	MATRIX: OTHER :	PRESERV.: ACID/BASE:	PRESERV.: ICE / COOL	PRESERV.: OTHER :	SAMPLING: DATE	SAMPLING: TIME	ANALYSIS REQUEST: BTEX	TPH	Chlorides
H241153																	
1	S-1 1.5'-2'	C	1			X					X		3/7/24		X	X	X
2	S-2 1.5'-2'																
3	S-3 1.5'-2'																
4	SW-1 1.5'-2'																
5	SW-2 1.5'-2'																
6	SW-3 1.5'-2'																
7	SW-4 1.5'-2'																

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:	Date: 3-7-24	Received By:	Verbal Result: ☐ Yes ☐ No — Add'l Phone #:
	Time: 1125		All Results are emailed. Please provide Email address:
Relinquished By:	Date:	Received By:	REMARKS:
	Time:		

Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C 5.4 Corrected Temp. °C	Sample Condition: Cool ~~Intact~~ — ☑ Yes ☑ Yes / ☐ No ☐ No	CHECKED BY: (Initials) TO	Turnaround Time: Standard ☒ Bacteria (only) Sample Condition Rush ☐ Cool Intact Observed Temp. °C Thermometer ID ~~#113~~ #140 Correction Factor ~~-0.5°C~~ T°. 3/7/24 ☐ Yes ☐ Yes / ☐ No ☐ No Corrected Temp. °C

FORM-006 R 3.2 10/07/21

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

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QUESTIONS

Action 325695

QUESTIONS

Operator: CIMAREX ENERGY CO. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 325695
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAB1906751888**
Incident Name	**NAB1906751888 DAVINCI 7 18 FEDERAL COM #009H @ 30-015-44697**
Incident Type	**Produced Water Release**
Incident Status	**Remediation Closure Report Received**
Incident Well	**[30-015-44697] DAVINCI 7 18 FEDERAL COM #009H**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	DAVINCI 7 18 FEDERAL COM #009H
Date Release Discovered	02/25/2019
Surface Owner	Federal

Incident Details	
Please answer all the questions in this group.	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	*Not answered.*
Produced Water Released (bbls) Details	Cause: Equipment Failure | Separator | Produced Water | Released: 50 BBL | Recovered: 45 BBL | Lost: 5 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	*Not answered.*
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	*Not answered.*
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	*Not answered.*

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QUESTIONS (continued)

Operator: CIMAREX ENERGY CO. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 325695
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	**No, according to supplied volumes this does not appear to be a "gas only" report.**
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	**Yes**
Reasons why this would be considered a submission for a notification of a major release	**From paragraph A. "Major release" determine using:** **(1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.**
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response	
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	*Not answered.*
Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.	

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.

I hereby agree and sign off to the above statement	Name: Laci Luig Title: ES&H Specialist Email: DL_PermianEnvironmental@coterra.com Date: 03/21/2024

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QUESTIONS (continued)

Operator: CIMAREX ENERGY CO. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 325695
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). 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 in feet below ground surface (ft bgs)	Between 26 and 50 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1000 (ft.) and ½ (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Zero feet, overlying, or within area
Categorize the risk of this well / site being in a karst geology	High
A 100-year floodplain	Between 1000 (ft.) and ½ (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	273
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	2536
GRO+DRO (EPA SW-846 Method 8015M)	2383
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
On what estimated date will the remediation commence	03/07/2024
On what date will (or did) the final sampling or liner inspection occur	03/07/2024
On what date will (or was) the remediation complete(d)	03/07/2024
What is the estimated surface area (in square feet) that will be reclaimed	530
What is the estimated volume (in cubic yards) that will be reclaimed	70
What is the estimated surface area (in square feet) that will be remediated	530
What is the estimated volume (in cubic yards) that will be remediated	70
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.	
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

Operator: CIMAREX ENERGY CO. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 325695
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and **off-site** disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for **off-site** disposal	LEA LAND LANDFILL [fEEM0112342028]
OR which OCD approved well (API) will be used for **off-site** disposal	*Not answered.*
OR is the **off-site** disposal site, to be used, out-of-state	*Not answered.*
OR is the **off-site** disposal site, to be used, an NMED facility	*Not answered.*
(Ex Situ) Excavation and **on-site** remediation (i.e. On-Site Land Farms)	*Not answered.*
(In Situ) Soil Vapor Extraction	*Not answered.*
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	*Not answered.*
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	*Not answered.*
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	*Not answered.*
Ground Water Abatement pursuant to 19.15.30 NMAC	*Not answered.*
OTHER (Non-listed remedial process)	*Not answered.*
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
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.	
I hereby agree and sign off to the above statement	Name: Laci Luig Title: ES&H Specialist Email: DL_PermianEnvironmental@coterra.com Date: 03/21/2024
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

Operator: CIMAREX ENERGY CO. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 325695
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS (continued)

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	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**320080**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**03/07/2024**
What was the (estimated) number of samples that were to be gathered	**10**
What was the sampling surface area in square feet	**864**

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	**Yes**
Was this release entirely contained within a lined containment area	**No**
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	530
What was the total volume (cubic yards) remediated	70
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	0
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	Area was remediated and backfilled with clean material

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 (in .pdf format) 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.

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.

I hereby agree and sign off to the above statement	Name: Laci Luig Title: ES&H Specialist Email: DL_PermianEnvironmental@coterra.com Date: 03/21/2024

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QUESTIONS (continued)

Operator: CIMAREX ENERGY CO. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 325695
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 325695

CONDITIONS

Operator:	OGRID:
CIMAREX ENERGY CO. 6001 Deauville Blvd Midland, TX 79706	215099
	Action Number: 325695
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	Remediation closure approved.	3/22/2024
amaxwell	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	3/22/2024