

July 15, 2024

New Mexico Energy and Natural Resources Department New Mexico Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Re: Closure Request

**Boundary Raider 7 CTB 2** 

Incident Numbers nAPP2414543825 & nAPP2415972085

Lea County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Devon Energy Production Company, LP (Devon), has prepared this *Closure Request* summarizing the response efforts and liner integrity inspection activities performed at the Boundary Raider 7 CTB 2 (Site) in Unit A, Section 18, Township 23 South, Range 32 East, in Lea County, New Mexico (Figure 1). The purpose of the liner integrity inspection was to determine if the lined secondary containment was capable of containing two separate produced water releases that occurred on May 24 and June 7, 2024, and whether impacts to soil in the areas immediately surrounding the containment liner were present or absent. Based on field observations during the liner integrity inspection, Devon is submitting this *Closure Request* and requesting closure for Incident Numbers nAPP2414543825 & nAPP2415972085.

#### SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Lea County, New Mexico (32.314206°, -103.709198°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On May 24, 2024, a 1/4-inch plug washed out on a transfer pump, which resulted in the release of 40 barrels (bbls) of produced water inside the lined secondary containment. A vacuum truck successfully recovered all 40 bbls of produced water. Devon reported the release to the New Mexico Oil Conservation Division (NMOCD) via web portal on May 24, 2024. The release was assigned Incident Number nAPP2414543825. A 48-hour advance notice of liner inspection was provided via web portal to the NMOCD on June 3, 2024. A liner integrity inspection was conducted by Ensolum personnel following fluid recovery and upon inspection, the liner was determined to be intact and had the ability to contain the release in question.

On June 7, 2024, a ¼-inch plug washed out on a strainer housing, which resulted in the release of 23 bbls of produced water inside the lined secondary containment. A vacuum truck successfully recovered 22 bbls of produced water. Devon reported the release to the NMOCD via web portal on June 7, 2024. The release was assigned Incident Number nAPP2415972085. A 48-hour advance notice of liner inspection was provided via web portal to the NMOCD on July 2, 2024. A liner integrity inspection was conducted by Ensolum personnel following fluid recovery and upon inspection, the liner was determined to be intact and had the ability to contain the release in question.

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants 3122 National Parky Hwy| Carlsbad, NM 88220 | ensolum.com



#### SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess the applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization. Potential Site receptors are identified on Figure 1.

The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well CP 04815 POD1 with a depth to water measurement greater than 55 feet below ground surface (bgs). The well is located 0.55 miles east of the Site and the most recent documented water level measurement was collected on April 16, 2024. All wells used for depth to groundwater determinations are depicted on Figure 1 and the referenced well records are included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is an intermittent dry wash, located approximately 3.04 miles northwest of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

Based on the results of the Site Characterization, the following NMOCD Table I Closure Criteria (Closure Criteria) apply:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH): 100 mg/kg
- Chloride: 600 mg/kg

#### **DELINEATION SOIL SAMPLING ACTIVITIES AND LINER INTEGRITY INSPECTIONS**

On June 3, 2024, Ensolum personnel arrived onsite to collect lateral surface samples associated with incident number nAPP2414543825. Four lateral delineation sample points (SS01 through SS04) were collected on all sides of the lined containment at ground surface to verify the release remained inside the lined containment. Delineation soil samples were field screened for chloride and TPH utilizing Mohr's titration method and a PetroFLAG® Soil Analyzer System, respectively. The delineation sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2.

The delineation soil samples (SS01 through SS04) were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Envirotech, Inc. (Envirotech) in Farmington, New Mexico, for analysis of the following contaminants of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

On June 6, 2024, Ensolum personnel competent in conducting liner inspections, returned to the Site to visually inspect the integrity of the containment liner associated with incident number nAPP2414543825. Prior to conducting the inspection, NMOCD was provided with a 48-hour liner inspection notification via email on June 3, 2024 (Appendix B). Ensolum personnel verified there was no visual evidence of a breach in the lined containment or any visible staining in the areas immediately surrounding the



containment walls. It was determined the liner remained intact and had to the ability to contain the release in question. Photographs taken during the liner inspection are included in Appendix C.

On July 1, 2024, Ensolum personnel returned to the Site to collect lateral surface samples associated with incident number nAPP2415972085. Four lateral delineation sample points (SS01 through SS04) were recollected in the same locations as incident number nAPP2414543825 on all sides of the lined containment at ground surface to verify the release remained inside the lined containment. Delineation soil samples were analyzed and handled in the same manner previously described and the sample locations are depicted on Figure 2.

On July 7, 2024, Ensolum personnel competent in conducting liner inspections, returned to the Site to visually inspect the integrity of the containment liner associated with incident number nAPP2415972085. Prior to conducting the inspection, NMOCD was provided with a 48-hour liner inspection notification via email on July 2, 2024 (Appendix B). Due to heavy rains on July 4, 2024, an inch of water was present in the containment during the inspection on July 5, 2024, however the water was clear, and the liner inspection was still possible. Ensolum personnel verified there was no visual evidence of a breach in the lined containment or any visible staining in the areas immediately surrounding the containment walls. It was determined the liner remained intact and had to the ability to contain the release in guestion.

#### LABORATORY ANALYITCAL RESULTS

Laboratory analytical results for lateral delineation soil samples (SS01 through SS04) collected at ground surface and associated with Incident Number nAPP2414543825 indicated all COC concentrations were in compliance with strictest Closure Criteria per NMOCD Table I and with the Site Closure Criteria. Laboratory analytical results for delineation soil samples (SS01 through SS04) collected at ground surface and in association with Incident Number nAPP2415972085 indicated that all COC concentrations were in compliance with the strictest Closure Criteria per NMOCD Table I and with the Site Closure Criteria. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included in Appendix D.

#### **CLOSURE REQUEST**

Following two liner integrity inspections at the Site, it was determined the releases were contained laterally and vertically by the lined secondary containment. Lateral delineation soil samples (SS01 through SS04) associated with Incident Number nAPP2414543825 collected at ground surface and lateral delineation soil samples (SS01 through SS04) collected at ground surface and associated with Incident Number nAPP2415972085 verified the release did not breach the containment walls during either release. Based on initial response efforts, and a reported depth to groundwater of greater than 55 feet bgs, Devon respectfully requests closure for Incident Numbers nAPP2414543825 & nAPP2415972085.

If you have any questions or comments, please contact Ms. Ashley Giovengo at (575) 988-0055 or agiovengo@ensolum.com.

Sincerely,

Ensolum, LLC

Ashley Giovengo Senior Scientist Daniel R. Moir, PG (licensed in WY & TX)

Senior Managing Geologist



#### Appendices:

Figure 1 Site Receptor Map

Figure 2 Delineation Soil Sample Locations

Table 1 Soil Sample Analytical Results (nAPP2414543825)
Table 2 Soil Sample Analytical Results (nAPP2415972085)

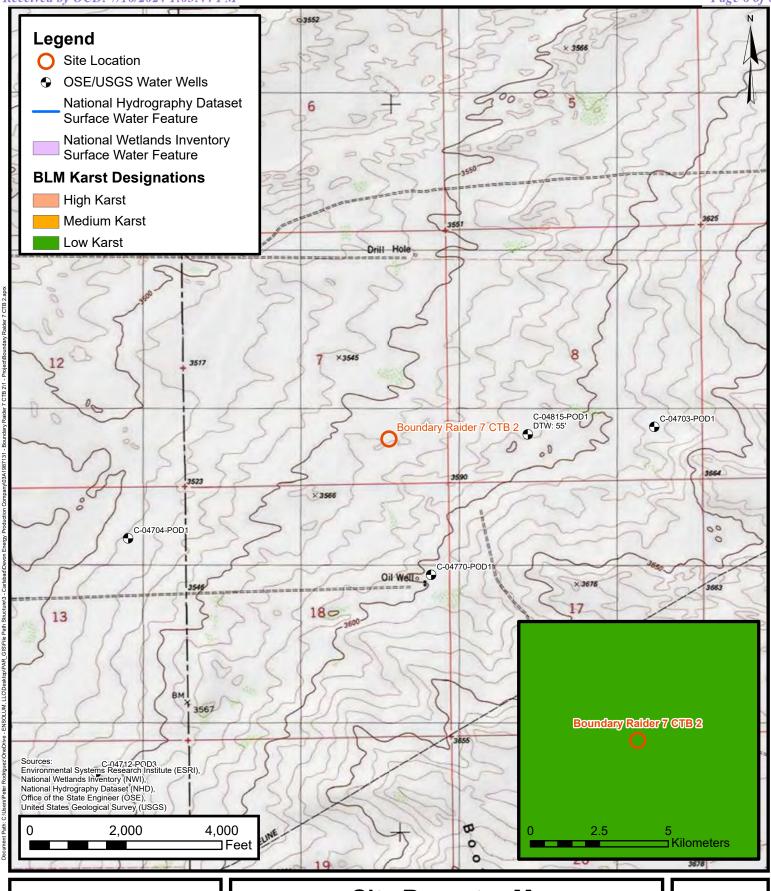
Appendix A Referenced Well Records Appendix B NMOCD Correspondence

Appendix C Photographic Log

Appendix D Laboratory Analytical Reports & Chain-of-Custody Documentation



**FIGURES** 





## **Site Receptor Map**

Devon Energy Production Company, LP Boundary Raider 7 CTB 2

Incident ID: nAPP2414543825 & nAPP2415972085

Unit A, Section 18, T 23S, R 32E Lea County, New Mexico FIGURE

1





## **Delineation Soil Sample Locations**

Devon Energy Production Company, LP Boundary Raider 7 CTB 2

Incident ID: nAPP2414543825 & nAPP2415972085

Unit A, Section 18, T 23S, R 32E Lea County, New Mexico FIGURE 2



**TABLES** 





#### **TABLE 1**

#### **SOIL SAMPLE ANALYTICAL RESULTS**

**Boundary Raider 7 CTB 2 Devon Energy Production Company, LP** 

Lea County, New Mexico

	Lea County, New Mexico									
Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I	Closure Criteria	(NMAC 19.15.29)	10	50	NE	NE	NE	NE	100	600
	Delineation Soil Samples (nAPP2414543825)									
SS01	6/3/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	48.7
SS02	6/3/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	245
SS03	6/3/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	181
SS04	6/3/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	197
	Delineation Soil Samples (nAPP2415972085)									
SS01	7/1/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
SS02	7/1/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	295
SS03	7/1/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	35.6
SS04	7/1/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	55.6

Notes:

bgs: below ground surface mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Grey text represents samples that have been excavated

Concentrations in bold exceed the NMOCD Table I Closure Criteria or reclamation standard where applicable.

GRO: Gasoline Range Organics DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

<sup>&</sup>quot;<": Laboratory Analytical result is less than reporting limit

<sup>\*</sup> Indicates sample was collected in area to be reclaimed after remediation is complete; reclamation for chloride in the top 4 feet is 600 mg/kg and total TPH is 100 mg/kg.



**APPENDIX A** 

Referenced Well Records



## New Mexico Office of the State Engineer **Point of Diversion Summary**

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number** 

Q64 Q16 Q4 Sec Tws Rng

Υ X

C 04815 POD1 NA 3 08 23S 32E 622392 3576025



**Driller License:** 1833

Driller Company: VISION RESOURCES, INC

**Driller Name:** JASON MALEY

**Drill Start Date:** 04/16/2024

**Drill Finish Date:** 04/16/2024 Plug Date: 04/22/2024

Log File Date: 04/25/2024 **PCW Rcv Date:** Pipe Discharge Size:

**Estimated Yield:** 

**Pump Type: Casing Size:** 

**Depth Well:** 55 feet **Depth Water:** 

Source:



**APPENDIX B** 

NMOCD Correspondence

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

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 350453

#### **QUESTIONS**

ı	Operator:	OGRID:
ı	DEVON ENERGY PRODUCTION COMPANY, LP	6137
ı	333 West Sheridan Ave.	Action Number:
ı	Oklahoma City, OK 73102	350453
ı		Action Type:
ı		[NOTIFY] Notification Of Liner Inspection (C-141L)

#### QUESTIONS

Prerequisites				
Incident ID (n#)	nAPP2414543825			
Incident Name	NAPP2414543825 BOUNDARY RAIDER 7 CTB 2 @ 0			
Incident Type	Produced Water Release			
Incident Status	Initial C-141 Approved			
Incident Facility	[fAPP2123645710] BOUNDARY RAIDER 7 CTB 2			

Location of Release Source				
Site Name	BOUNDARY RAIDER 7 CTB 2			
Date Release Discovered	05/24/2024			
Surface Owner	Federal			

Liner Inspection Event Information				
Please answer all the questions in this group.				
What is the liner inspection surface area in square feet	7,250			
Have all the impacted materials been removed from the liner	Yes			
Liner inspection date pursuant to Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC	06/06/2024			
Time liner inspection will commence	09:00 AM			
Please provide any information necessary for observers to liner inspection	Ashley Giovengo Senior Scientist 575-988-0055 Ensolum, LLC			
Please provide any information necessary for navigation to liner inspection site	32.314206, -103.709198			

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

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

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

CONDITIONS

Action 350453

#### **CONDITIONS**

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	350453
	Action Type:
	[NOTIFY] Notification Of Liner Inspection (C-141L)

#### CONDITIONS

F	By wdale	Failure to notify the OCD of liner inspections including any changes in date/time per the requirements of 19.15.29.11.A(5)(a)(ii) NMAC, may result in the	6/3/2024
		inspection not being accepted.	

District III

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

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

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 360346

#### **QUESTIONS**

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	360346
	Action Type:
	[NOTIFY] Notification Of Liner Inspection (C-141L)

#### QUESTIONS

Prerequisites			
Incident ID (n#)	nAPP2415972085		
Incident Name	NAPP2415972085 BOUNDARY RAIDER 7 CTB 2 @ 0		
Incident Type	Produced Water Release		
Incident Status	Initial C-141 Approved		
Incident Facility	[fAPP2123645710] BOUNDARY RAIDER 7 CTB 2		

Location of Release Source			
Site Name	BOUNDARY RAIDER 7 CTB 2		
Date Release Discovered	06/07/2024		
Surface Owner	Federal		

Liner Inspection Event Information				
Please answer all the questions in this group.				
What is the liner inspection surface area in square feet	7,248			
Have all the impacted materials been removed from the liner	Yes			
Liner inspection date pursuant to Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC	07/05/2024			
Time liner inspection will commence	09:00 AM			
Please provide any information necessary for observers to liner inspection	Contact Cole Burton 575-706-5056			
Please provide any information necessary for navigation to liner inspection site	32.314206, -103.709198			

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

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

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

CONDITIONS

Action 360346

#### **CONDITIONS**

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	360346
	Action Type:
	[NOTIFY] Notification Of Liner Inspection (C-141L)

#### CONDITIONS

Created By	Condition	Condition Date
jraley	Failure to notify the OCD of liner inspections including any changes in date/time per the requirements of 19.15.29.11.A(5)(a)(ii) NMAC, may result in the inspection not being accepted.	7/2/2024



APPENDIX C

Photographic Log

## **ENSOLUM**

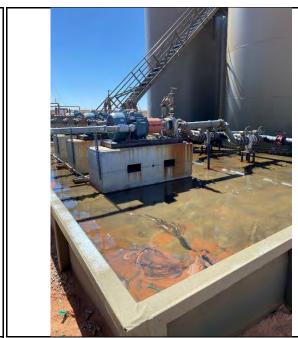
#### Photographic Log

Devon Energy Production Company, LP Boundary Raider 7 CTB 2 nAPP2414543825 & nAPP2415972085



Photograph 1 Date: 5/24/2024

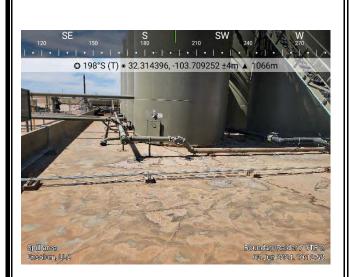
Description: Signage View: South



Photograph 2 Date: 5/24/2024

Description: Spill Area - nAPP2414543825

View: East



Photograph 3 Date: 6/3/2024 Description: Spill area - nAPP2414543825

View: South



Photograph 4 Date: 6/3/2024

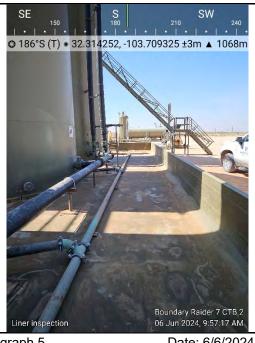
Description: Delineation Sampling - nAPP2414543825

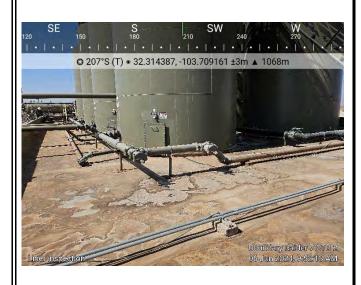
View: West

# **ENSOLUM**

#### **Photographic Log**

Devon Energy Production Company, LP Boundary Raider 7 CTB 2 nAPP2414543825 & nAPP2415972085





Photograph 5 Date: 6/6/2024 Description: Liner Inspection - nAPP2414543825

View: South

Photograph 6 Date: 6/6/2024 Description: Liner Inspection - nAPP2414543825

View: South



Photograph 7 Date: 6/6/2024 Description: Liner Inspection - nAPP2414543825

View: North



Photograph 8 Date: 6/6/2024 Description: Liner Inspection - nAPP2414543825

View: West

# **ENSOLUM**

#### **Photographic Log**

Devon Energy Production Company, LP Boundary Raider 7 CTB 2 nAPP2414543825 & nAPP2415972085





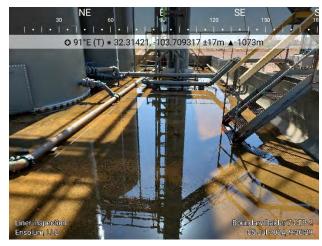
Photograph 9 Date: 7/1/2024 Description: Delineation - nAPP2415972085

View: East

Photograph 10 Date: 7/1/2024 Description: Delineation - nAPP2415972085

View: West





Photograph 11 Date: 7/5/2024 Description: Liner Inspection - nAPP2415972085

View: Southeast

Photograph 12 Date: 7/5/2024 Description: Liner Inspection - nAPP2415972085

View: East



#### **Photographic Log**

Devon Energy Production Company, LP Boundary Raider 7 CTB 2 nAPP2414543825 & nAPP2415972085





Photograph 13 Date: 7/1/2024 Description: Liner Inspection - nAPP2415972085

View: North

Photograph 14 Date: 7/1/2024 Description: Liner Inspection - nAPP2415972085

View: Northeast





Photograph 15 Date: 7/5/2024 Description: Liner Inspection - nAPP2415972085

View: Southwest

Photograph 16 Date: 7/5/2024 Description: Liner Inspection - nAPP2415972085

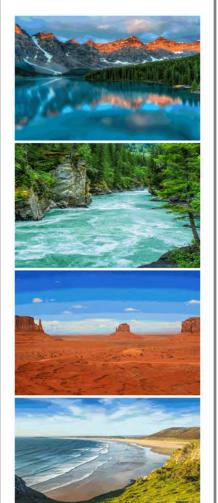
View: East



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





# envirotech

Practical Solutions for a Better Tomorrow

## **Analytical Report**

Devon Energy - Carlsbad

Project Name: Boundary Raider 7 CTB 2

Work Order: E406030

Job Number: 01058-0007

Received: 6/5/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 6/11/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 6/11/24

Ashley Giovengo 6488 7 Rivers Hwy Artesia, NM 88210

Project Name: Boundary Raider 7 CTB 2

Workorder: E406030

Date Received: 6/5/2024 12:00:00PM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/5/2024 12:00:00PM, under the Project Name: Boundary Raider 7 CTB 2.

The analytical test results summarized in this report with the Project Name: Boundary Raider 7 CTB 2 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881 Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

rainaschwanz@envirotech-inc.com

**Alexa Michaels** 

Sample Custody Officer Office: 505-632-1881

labadmin@envirotech-inc.com

Field Offices:

Southern New Mexico Area

Lynn Jarboe

Laboratory Technical Representative Office: 505-421-LABS(5227)

Cell: 505-320-4759

ljarboe@envirotech-inc.com

Michelle Golzales

Client Representative Office: 505-421-LABS(5227)

Cell: 505-947-8222

mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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## Sample Summary

Devon Energy - Carlsbad	Project Name:	Boundary Raider 7 CTB 2	Donavtade
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	06/11/24 12:16

Client Sample ID	Lab Sample ID Matrix	Sampled F	Received	Container
SS01-0'	E406030-01A Soil	06/03/24	06/05/24	Glass Jar, 2 oz.
SS02-0'	E406030-02A Soil	06/03/24	06/05/24	Glass Jar, 2 oz.
SS03-0'	E406030-03A Soil	06/03/24	06/05/24	Glass Jar, 2 oz.
SS04-0'	F406030-04A Soil	06/03/24	06/05/24	Glass Jar. 2 oz.



Devon Energy - CarlsbadProject Name:Boundary Raider 7 CTB 26488 7 Rivers HwyProject Number:01058-0007Reported:Artesia NM, 88210Project Manager:Ashley Giovengo6/11/2024 12:16:15PM

### SS01-0' E406030-01

		Reporting					
Analyte	Result	Limit	Dilu	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	RKS		Batch: 2423082
Benzene	ND	0.0250	1	1	06/05/24	06/07/24	
Ethylbenzene	ND	0.0250	1	1	06/05/24	06/07/24	
Toluene	ND	0.0250	1	1	06/05/24	06/07/24	
o-Xylene	ND	0.0250	1	1	06/05/24	06/07/24	
p,m-Xylene	ND	0.0500	1	1	06/05/24	06/07/24	
Total Xylenes	ND	0.0250	1	1	06/05/24	06/07/24	
Surrogate: Bromofluorobenzene		101 %	70-130		06/05/24	06/07/24	
Surrogate: 1,2-Dichloroethane-d4		97.5 %	70-130		06/05/24	06/07/24	
Surrogate: Toluene-d8		99.1 %	70-130		06/05/24	06/07/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS			Batch: 2423082
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	06/05/24	06/07/24	
Surrogate: Bromofluorobenzene		101 %	70-130		06/05/24	06/07/24	
Surrogate: 1,2-Dichloroethane-d4		97.5 %	70-130		06/05/24	06/07/24	
Surrogate: Toluene-d8		99.1 %	70-130		06/05/24	06/07/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	JL		Batch: 2423116
Diesel Range Organics (C10-C28)	ND	25.0	1	1	06/06/24	06/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	1	06/06/24	06/08/24	
Surrogate: n-Nonane		90.5 %	50-200		06/06/24	06/08/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	DT		Batch: 2423115



Devon Energy - CarlsbadProject Name:Boundary Raider 7 CTB 26488 7 Rivers HwyProject Number:01058-0007Reported:Artesia NM, 88210Project Manager:Ashley Giovengo6/11/2024 12:16:15PM

#### SS02-0'

#### E406030-02

		Reporting					
Analyte	Result	Limit	Dilu	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	RKS		Batch: 2423082
Benzene	ND	0.0250	1	1	06/05/24	06/07/24	
Ethylbenzene	ND	0.0250	1	1	06/05/24	06/07/24	
Toluene	ND	0.0250	1	1	06/05/24	06/07/24	
o-Xylene	ND	0.0250	1	1	06/05/24	06/07/24	
p,m-Xylene	ND	0.0500	1	1	06/05/24	06/07/24	
Total Xylenes	ND	0.0250	1	1	06/05/24	06/07/24	
Surrogate: Bromofluorobenzene		104 %	70-130		06/05/24	06/07/24	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130		06/05/24	06/07/24	
Surrogate: Toluene-d8		98.9 %	70-130		06/05/24	06/07/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg Analyst: RKS			Batch: 2423082		
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	06/05/24	06/07/24	
Surrogate: Bromofluorobenzene		104 %	70-130		06/05/24	06/07/24	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130		06/05/24	06/07/24	
Surrogate: Toluene-d8		98.9 %	70-130		06/05/24	06/07/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	JL		Batch: 2423116
Diesel Range Organics (C10-C28)	ND	25.0	1	1	06/06/24	06/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	1	06/06/24	06/08/24	
Surrogate: n-Nonane		90.9 %	50-200		06/06/24	06/08/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	DT		Batch: 2423115
Chloride	245	20.0	- 1		06/06/24	06/06/24	



Devon Energy - CarlsbadProject Name:Boundary Raider 7 CTB 26488 7 Rivers HwyProject Number:01058-0007Reported:Artesia NM, 88210Project Manager:Ashley Giovengo6/11/2024 12:16:15PM

#### SS03-0'

#### E406030-03

		Reporting					
Analyte	Result	Limit	Dilı	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	RKS		Batch: 2423082
Benzene	ND	0.0250		1	06/05/24	06/07/24	
Ethylbenzene	ND	0.0250		1	06/05/24	06/07/24	
Toluene	ND	0.0250		1	06/05/24	06/07/24	
o-Xylene	ND	0.0250		1	06/05/24	06/07/24	
p,m-Xylene	ND	0.0500		1	06/05/24	06/07/24	
Total Xylenes	ND	0.0250		1	06/05/24	06/07/24	
Surrogate: Bromofluorobenzene		103 %	70-130		06/05/24	06/07/24	
Surrogate: 1,2-Dichloroethane-d4		98.5 %	70-130		06/05/24	06/07/24	
Surrogate: Toluene-d8		99.4 %	70-130		06/05/24	06/07/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	RKS		Batch: 2423082
Gasoline Range Organics (C6-C10)	ND	20.0		1	06/05/24	06/07/24	
Surrogate: Bromofluorobenzene		103 %	70-130		06/05/24	06/07/24	
Surrogate: 1,2-Dichloroethane-d4		98.5 %	70-130		06/05/24	06/07/24	
Surrogate: Toluene-d8		99.4 %	70-130		06/05/24	06/07/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	JL		Batch: 2423116
Diesel Range Organics (C10-C28)	ND	25.0		1	06/06/24	06/08/24	
Oil Range Organics (C28-C36)	ND	50.0		1	06/06/24	06/08/24	
Surrogate: n-Nonane		91.3 %	50-200		06/06/24	06/08/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	DT		Batch: 2423115
					·	06/06/24	

Devon Energy - CarlsbadProject Name:Boundary Raider 7 CTB 26488 7 Rivers HwyProject Number:01058-0007Reported:Artesia NM, 88210Project Manager:Ashley Giovengo6/11/2024 12:16:15PM

#### SS04-0'

#### E406030-04

		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	ي	Analyst: RK	S		Batch: 2423082
Benzene	ND	0.0250	1		06/05/24	06/07/24	
Ethylbenzene	ND	0.0250	1		06/05/24	06/07/24	
Toluene	ND	0.0250	1		06/05/24	06/07/24	
o-Xylene	ND	0.0250	1		06/05/24	06/07/24	
p,m-Xylene	ND	0.0500	1		06/05/24	06/07/24	
Total Xylenes	ND	0.0250	1	[	06/05/24	06/07/24	
Surrogate: Bromofluorobenzene		104 %	70-130		06/05/24	06/07/24	
Surrogate: 1,2-Dichloroethane-d4		97.3 %	70-130		06/05/24	06/07/24	
Surrogate: Toluene-d8		99.6 %	70-130		06/05/24	06/07/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS			Batch: 2423082
Gasoline Range Organics (C6-C10)	ND	20.0	1	ļ	06/05/24	06/07/24	
Surrogate: Bromofluorobenzene		104 %	70-130		06/05/24	06/07/24	
Surrogate: 1,2-Dichloroethane-d4		97.3 %	70-130		06/05/24	06/07/24	
Surrogate: Toluene-d8		99.6 %	70-130		06/05/24	06/07/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	ي	Analyst: JL			Batch: 2423116
Diesel Range Organics (C10-C28)	ND	25.0	1		06/06/24	06/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	[	06/06/24	06/08/24	
Surrogate: n-Nonane		91.9 %	50-200		06/06/24	06/08/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT			Batch: 2423115
Chloride	197	20.0	1		06/06/24	06/06/24	



### **QC Summary Data**

Devon Energy - Carlsbad Boundary Raider 7 CTB 2 Project Name: Reported: 6488 7 Rivers Hwy Project Number: 01058-0007 Artesia NM, 88210 Project Manager: Ashley Giovengo 6/11/2024 12:16:15PM Volatile Organic Compounds by EPA 8260B Analyst: RKS Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Blank (2423082-BLK1) Prepared: 06/05/24 Analyzed: 06/07/24 ND 0.0250 Ethylbenzene ND 0.0250 Toluene ND 0.0250 ND 0.0250 o-Xylene ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: Bromofluorobenzene 0.523 0.500 105 70-130 Surrogate: 1,2-Dichloroethane-d4 0.481 0.500 96.2 70-130 0.500 100 70-130 Surrogate: Toluene-d8 0.500 LCS (2423082-BS1) Prepared: 06/05/24 Analyzed: 06/07/24 2.56 0.0250 2.50 102 70-130 Benzene 2.50 102 70-130 2.56 Ethylbenzene 0.0250 2.45 0.0250 2.50 98.0 70-130 2.72 2.50 109 70-130 o-Xylene 0.0250 107 5.36 5.00 70-130 p,m-Xylene 0.0500 8.08 0.0250 7.50 108 70-130 Total Xylenes Surrogate: Bromofluorobenzene 0.521 0.500 104 70-130 0.500 97.8 70-130 Surrogate: 1,2-Dichloroethane-d4 0.489 Surrogate: Toluene-d8 0.500 70-130 0.496 Matrix Spike (2423082-MS1) Source: E406030-03 Prepared: 06/05/24 Analyzed: 06/07/24 48-131 2.55 0.0250 2.50 ND ND 45-135 Ethylbenzene 2.57 0.0250 2.50 103 98.0 ND 48-130 Toluene 2.45 0.0250 2.50 2.70 0.0250 2.50 ND 108 43-135

Surrogate: Toluene-d8	0.499		0.500		99.7	70-130			
Matrix Spike Dup (2423082-MSD1)				Source	E406030-	03	Prepared: 06	5/05/24 Analyzed: 06/07/24	
Benzene	2.50	0.0250	2.50	ND	100	48-131	1.92	23	
Ethylbenzene	2.56	0.0250	2.50	ND	102	45-135	0.117	27	
Toluene	2.43	0.0250	2.50	ND	97.3	48-130	0.717	24	
o-Xylene	2.72	0.0250	2.50	ND	109	43-135	0.960	27	
p,m-Xylene	5.43	0.0500	5.00	ND	109	43-135	0.925	27	
Total Xylenes	8.15	0.0250	7.50	ND	109	43-135	0.936	27	
Surrogate: Bromofluorobenzene	0.522		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.466		0.500		93.1	70-130			
Surrogate: Toluene-d8	0.498		0.500		99.6	70-130			

5.00

7.50

0.500

0.500

0.0500

0.0250

ND

ND

108

108

103

96.4

43-135

43-135

70-130

70-130

5.38

8.08

0.515

0.482

o-Xylene

p,m-Xylene

Total Xylenes

Surrogate: Bromofluorobenzene

Surrogate: 1,2-Dichloroethane-d4

Surrogate: 1,2-Dichloroethane-d4

Surrogate: Toluene-d8

## **QC Summary Data**

Boundary Raider 7 CTB 2 Devon Energy - Carlsbad Project Name: Reported:

6488 7 Rivers Hwy Artesia NM, 88210		Project Number: Project Manager		058-0007 shley Gioveng	go				6/11/2024 12:16:15PM	
	Nonhalogenated Organics by EPA 8015D - GRO							Analyst: RKS		
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes	
Blank (2423082-BLK1)							Prepared: 0	6/05/24 A	nalyzed: 06/07/24	
Gasoline Range Organics (C6-C10)	ND	20.0								
Surrogate: Bromofluorobenzene	0.523		0.500		105	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.481		0.500		96.2	70-130				
Surrogate: Toluene-d8	0.500		0.500		100	70-130				
LCS (2423082-BS2)							Prepared: 0	6/05/24 A	nalyzed: 06/07/24	
Gasoline Range Organics (C6-C10)	46.6	20.0	50.0		93.2	70-130				
Surrogate: Bromofluorobenzene	0.514		0.500		103	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.470		0.500		94.0	70-130				
Surrogate: Toluene-d8	0.507		0.500		101	70-130				
Matrix Spike (2423082-MS2)				Source:	E406030-	03	Prepared: 0	6/05/24 A	nalyzed: 06/07/24	
Gasoline Range Organics (C6-C10)	47.5	20.0	50.0	ND	95.0	70-130				
Surrogate: Bromofluorobenzene	0.523		0.500		105	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.8	70-130				
Surrogate: Toluene-d8	0.498		0.500		99.6	70-130				
Matrix Spike Dup (2423082-MSD2)				Source:	E406030-	03	Prepared: 0	6/05/24 A	nalyzed: 06/07/24	
Gasoline Range Organics (C6-C10)	45.4	20.0	50.0	ND	90.7	70-130	4.59	20		
Surrogate: Bromofluorobenzene	0.529		0.500		106	70-130				

0.500

0.500

0.505

70-130

70-130

93.2

101



## **QC Summary Data**

Devon Energy - Carlsbad	Project Name:	Boundary Raider 7 CTB 2	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	6/11/2024 12:16:15PM

Artesia NM, 88210		Project Manage	r: As	hley Gioveng	go			6	5/11/2024 12:16:15PI
	Nonha	logenated Or		Analyst: JL					
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2423116-BLK1)							Prepared: 0	6/06/24 An	alyzed: 06/08/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	44.1		50.0		88.1	50-200			
LCS (2423116-BS1)							Prepared: 0	6/06/24 An	alyzed: 06/08/24
Diesel Range Organics (C10-C28)	240	25.0	250		96.0	38-132			
Surrogate: n-Nonane	49.2		50.0		98.5	50-200			
Matrix Spike (2423116-MS1)				Source:	E406030-	04	Prepared: 0	6/06/24 An	alyzed: 06/08/24
Diesel Range Organics (C10-C28)	251	25.0	250	ND	100	38-132			
Surrogate: n-Nonane	46.2		50.0		92.5	50-200			
Matrix Spike Dup (2423116-MSD1)				Source:	E406030-	04	Prepared: 0	6/06/24 An	alyzed: 06/08/24
Diesel Range Organics (C10-C28)	253	25.0	250	ND	101	38-132	0.579	20	
Surrogate: n-Nonane	46.5		50.0		93.0	50-200			



Chloride

Matrix Spike (2423115-MS1)

## **QC Summary Data**

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	6488 7 Rivers Hwy				er 7 CTB 2 go		<b>Reported:</b> 6/11/2024 12:16:15PM		
		Anions	by EPA	300.0/9056	A				Analyst: DT
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits	RPD %	RPD Limit %	Notes
Blank (2423115-BLK1)						I	Prepared: 0	6/06/24 A	nalyzed: 06/06/24
Chloride	ND	20.0							
LCS (2423115-BS1)				I	nalyzed: 06/06/24				

Chloride	314	20.0	250	51.7	105	80-120			
Matrix Spike Dup (2423115-MSD1)				Source:	E406032-0	)1	Prepared: 06	6/06/24 Analyzed: 06/06/24	
Chloride	305	20.0	250	51.7	101	80-120	2.96	20	

250

20.0

102

Source: E406032-01

90-110

Prepared: 06/06/24 Analyzed: 06/06/24

256

#### QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



## **Definitions and Notes**

Devon Energy - Carlsbad	Project Name:	Boundary Raider 7 CTB 2	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	06/11/24 12:16

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Released to Imaging: 8/23/2024 9:04:46 AM

Page / of	1
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Client Information					T	Invoice Information				Lab Use Only								TAT					State	•			
Client: Devon				<b>⊣</b>	Company: Devon				Lab WO# Job Number							1D 2D 3D Std					NM	CO UT	TX				
Project: Boundary Raider 7 CTB 2					-	Address: 205 E Bender Road #150							02	$\sim 1$				$\infty$		-		x	Y	<del></del>	<del>                                     </del>		
Project Manager: Ashley Giovengo						City, State, Zip: Hobbs NM, 88240					<u> </u>	<u> </u>	S.				<u> ~</u>	<u> </u>					<u></u>				
Address: 3122 National Parks Hwy					—   I					-	г				A	basia		24-4					ED	A Due			
					<del> </del>	Phone: (575)748-1838				-1	ŀ				Ana	iysis	and	Met	thod				EPA Program				
	e, Zip: Carls	_	88220		—			odail@dvn.com				l											SDWA	CWA	RCRA		
	75-988-005		_			Miscell	aneous: Dal	e Woodall																,			
Email: ag	iovengo@e	nsolum.c	om									51	2										Compliance	e Y	or N		
-												8	≋	-		0.	_	×	als				PWSID#				
Sample Information											ខ្លឹ	စ္စို	807	826	300	Ž.	1.50	Met									
Time Sampled	Date Sampled	Matrix	No. of Containers		Sample ID				Field Filter			DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals					Remarks			
10:22	6/3/2024	Soil	1		SS01 - 0'					1							x										
10:24	6/3/2024	Soil	1		SS02 - 0'					2	•						х										
11:35	6/3/2024	Soil	1		SS03 - 0'					3	,						х										
11:04	6/3/2024	Soil	1			SS	04 - 0'				١٦								х			_					
	_									<del>                                     </del>																	
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				-					-																		
Addition	al Instructio	ns: Plea	ase CC: o	burton@e	ensolum.c	om, agi	ovengo@e	nsolum.com, dal	e.woo	odall@	)dvn	ı.con	n, ch	amil	ton@	Pens	olun	n.cor	n, ie:	strell	a@e	nsol	um.com				
I, (field samp Sampled by:		Puff	l authentici るっ	ry of this samp	le. I am awar	e that tam	pering with or i	ntentionally mislabeling	the sar	mple loca	ation,	date o	or time	of co	llection	n is col	nsidere	ed frau	d and	may b	e groui	nds for	legal action.				
Relinquishe	ed by: (Signatur	re)	Date	4-24	Time	P/Y	eiveddy: (Gig	nature) Gonzales	Date	<u>и.</u> 1	ı l	Time 0730									must be received on ice the day they are						
					7:3				_	4-24	7	<u>υ</u>	100				sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days										
Relinquished by: (Signature) Date Time			Time	Received by: (Signature)			Date	.4.7	.ru 1645		<u>'</u>			Received on ice: (Y) N			•										
Relinquished by: (Signature)  Date Time			Time 12L	Received by: (Signature)			5/24 Tizoo			C			T1 T2 T3														
Relinquishe	ed by: (Signatur	re)	Date	,	Time	Received by: (Signatura) Date				•	Time						AVG Temp °C						_				
Sample Matr	ix: <b>S</b> - Soil, <b>Sd</b> - So	olid, Sg - Sluc	dge, A - Aqu	eous, O - Oth	er				Con	tainer	Type	: g -	glass,	p - p	oly/p	lasti				ass, v	/ - VO	A					
						ther arra	ngements are	made. Hazardous sa															for the anal	sis of the	above		
								ility of the laboratory											•			•					



envirotec

Printed: 6/5/2024 1:14:14PM

# **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Devon Energy - Carlsbad	Date Received:	06/05/24	12:00	Work Order ID:	E406030
Phone:	(505) 382-1211	Date Logged In:	06/05/24	13:12	Logged In By:	Alexa Michaels
Email:		Due Date:	06/11/24	17:00 (4 day TAT)		
G1 1 6	G + 1 (COC)					
	Custody (COC)		••			
	ne sample ID match the COC? ne number of samples per sampling site location matc	h tha COC	Yes			
	amples dropped off by client or carrier?	ii tile COC	Yes	a : a :		
	e COC complete, i.e., signatures, dates/times, requesti	ad analysees?	Yes Yes	Carrier: Courier		
	Il samples received within holding time?	eu anaryses:	Yes			
3. Wele a	Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssion		103		Comment	ts/Resolution
Sample 7	Turn Around Time (TAT)					
6. Did the	e COC indicate standard TAT, or Expedited TAT?		Yes			
Sample C	<del></del>					
	sample cooler received?		Yes			
8. If yes,	was cooler received in good condition?		Yes			
9. Was th	e sample(s) received intact, i.e., not broken?		Yes			
10. Were	custody/security seals present?		No			
11. If yes	, were custody/security seals intact?		NA			
	e sample received on ice? If yes, the recorded temp is 4°C, i.  Note: Thermal preservation is not required, if samples are minutes of sampling visible ice, record the temperature. Actual sample t	received w/i 15	Yes C			
	Container .	•	_			
	queous VOC samples present?		No			
15. Are V	OC samples collected in VOA Vials?		NA			
16. Is the	head space less than 6-8 mm (pea sized or less)?		NA			
17. Was a	trip blank (TB) included for VOC analyses?		NA			
18. Are n	on-VOC samples collected in the correct containers?		Yes			
19. Is the	appropriate volume/weight or number of sample contained	ers collected?	Yes			
Field Lal	<u>bel</u>					
	field sample labels filled out with the minimum infor-	mation:				
	ample ID?		Yes			
	pate/Time Collected? collectors name?		Yes			
	Preservation		Yes			
	the COC or field labels indicate the samples were pre	served?	No			
	ample(s) correctly preserved?		NA			
	filteration required and/or requested for dissolved me	etals?	No			
	ise Sample Matrix					
_	the sample have more than one phase, i.e., multiphase	?	No			
	, does the COC specify which phase(s) is to be analyz		NA			
			1471			
	<u>ract Laboratory</u> amples required to get sent to a subcontract laboratory	,n	No			
	subcontract laboratory specified by the client and if s		NA NA	Subcontract Lab: NA		
	• •	o wiio:	IVA	Subcontract Lab. NA		
Client II	<u>nstruction</u>					

Date

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





# envirotech

Practical Solutions for a Better Tomorrow

# **Analytical Report**

Matador Resources, LLC.

Project Name: Boundary Raider 7 CTB 2

Work Order: E407019

Job Number: 23003-0002

Received: 7/3/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 7/10/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 7/10/24

Ashley Giovengo 5400 LBJ Freeway, Suite 1500 Dallas, TX 75240

Project Name: Boundary Raider 7 CTB 2

Workorder: E407019

Date Received: 7/3/2024 10:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/3/2024 10:00:00AM, under the Project Name: Boundary Raider 7 CTB 2.

The analytical test results summarized in this report with the Project Name: Boundary Raider 7 CTB 2 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

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# Sample Summary

Matador Resources, LLC.	Project Name:	Boundary Raider 7 CTB 2	Danautada
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	07/10/24 11:41

Client Sample ID	Lab Sample ID Matrix	Sampled	Received	Container
SS01-0'	E407019-01A Soil	07/01/24	07/03/24	Glass Jar, 2 oz.
SS02-0'	E407019-02A Soil	07/01/24	07/03/24	Glass Jar, 2 oz.
SS03-0'	E407019-03A Soil	07/01/24	07/03/24	Glass Jar, 2 oz.
SS04-0'	F407019-04A Soil	07/01/24	07/03/24	Glass Jar. 2 oz.



Matador Resources, LLC.	Project Name:	Boundary Raider 7 CTB 2	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	7/10/2024 11:41:52AM

# SS01-0' E407019-01

		E40/019-01				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: BA		Batch: 2427034
Benzene	ND	0.0250	1	07/03/24	07/09/24	
Ethylbenzene	ND	0.0250	1	07/03/24	07/09/24	
Toluene	ND	0.0250	1	07/03/24	07/09/24	
o-Xylene	ND	0.0250	1	07/03/24	07/09/24	
p,m-Xylene	ND	0.0500	1	07/03/24	07/09/24	
Total Xylenes	ND	0.0250	1	07/03/24	07/09/24	
Surrogate: 4-Bromochlorobenzene-PID		91.1 %	70-130	07/03/24	07/09/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: BA		Batch: 2427034
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/03/24	07/09/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.6 %	70-130	07/03/24	07/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: KM		Batch: 2427041
Diesel Range Organics (C10-C28)	ND	25.0	1	07/03/24	07/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/03/24	07/04/24	
Surrogate: n-Nonane		87.6 %	50-200	07/03/24	07/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: DT		Batch: 2427051
Chloride	ND	20.0	1	07/03/24	07/03/24	



Matador Resources, LLC.	Project Name:	Boundary Raider 7 CTB 2	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	7/10/2024 11:41:52AM

# SS02-0'

# E407019-02

		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: BA		Batch: 2427034
Benzene	ND	0.0250	1	07/03/24	07/09/24	
Ethylbenzene	ND	0.0250	1	07/03/24	07/09/24	
Toluene	ND	0.0250	1	07/03/24	07/09/24	
o-Xylene	ND	0.0250	1	07/03/24	07/09/24	
p,m-Xylene	ND	0.0500	1	07/03/24	07/09/24	
Total Xylenes	ND	0.0250	1	07/03/24	07/09/24	
Surrogate: 4-Bromochlorobenzene-PID		90.6 %	70-130	07/03/24	07/09/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: BA		Batch: 2427034
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/03/24	07/09/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.1 %	70-130	07/03/24	07/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	Analyst: KM		Batch: 2427041
Diesel Range Organics (C10-C28)	ND	25.0	1	07/03/24	07/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/03/24	07/04/24	
Surrogate: n-Nonane		84.7 %	50-200	07/03/24	07/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: DT		Batch: 2427051
Chloride	295	20.0	1	07/03/24	07/03/24	



Matador Resources, LLC.Project Name:Boundary Raider 7 CTB 25400 LBJ Freeway, Suite 1500Project Number:23003-0002Reported:Dallas TX, 75240Project Manager:Ashley Giovengo7/10/2024 11:41:52AM

# SS03-0'

# E407019-03

		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: BA		Batch: 2427034
Benzene	ND	0.0250	1	07/03/24	07/09/24	
Ethylbenzene	ND	0.0250	1	07/03/24	07/09/24	
Toluene	ND	0.0250	1	07/03/24	07/09/24	
o-Xylene	ND	0.0250	1	07/03/24	07/09/24	
p,m-Xylene	ND	0.0500	1	07/03/24	07/09/24	
Total Xylenes	ND	0.0250	1	07/03/24	07/09/24	
Surrogate: 4-Bromochlorobenzene-PID		89.5 %	70-130	07/03/24	07/09/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: BA		Batch: 2427034
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/03/24	07/09/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.7 %	70-130	07/03/24	07/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: KM		Batch: 2427041
Diesel Range Organics (C10-C28)	ND	25.0	1	07/03/24	07/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/03/24	07/04/24	
Surrogate: n-Nonane		84.9 %	50-200	07/03/24	07/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: DT		Batch: 2427051
Chloride	35.6	20.0	1	07/03/24	07/03/24	



Matador Resources, LLC.Project Name:Boundary Raider 7 CTB 25400 LBJ Freeway, Suite 1500Project Number:23003-0002Reported:Dallas TX, 75240Project Manager:Ashley Giovengo7/10/2024 11:41:52AM

# SS04-0'

# E407019-04

		ъ .				
		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: BA		Batch: 2427034
Benzene	ND	0.0250	1	07/03/24	07/09/24	
Ethylbenzene	ND	0.0250	1	07/03/24	07/09/24	
Toluene	ND	0.0250	1	07/03/24	07/09/24	
o-Xylene	ND	0.0250	1	07/03/24	07/09/24	
p,m-Xylene	ND	0.0500	1	07/03/24	07/09/24	
Total Xylenes	ND	0.0250	1	07/03/24	07/09/24	
Surrogate: 4-Bromochlorobenzene-PID		90.6 %	70-130	07/03/24	07/09/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	nalyst: BA		Batch: 2427034
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/03/24	07/09/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.3 %	70-130	07/03/24	07/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: KM		Batch: 2427041
Diesel Range Organics (C10-C28)	ND	25.0	1	07/03/24	07/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/03/24	07/04/24	
Surrogate: n-Nonane		85.9 %	50-200	07/03/24	07/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: DT		Batch: 2427051
-			•		_	

# **QC Summary Data**

Matador Resources, LLC.Project Name:Boundary Raider 7 CTB 2Reported:5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo7/10/2024 11:41:52AM

Dallas TX, 75240		Project Manager:		shley Gioveng	0			7/1	0/2024 11:41:52AN
·				by EPA 802					Analyst: BA
				Source		D		RPD	Allalyst. DA
Analyte	Result	Reporting Limit	Spike Level	Result	Rec	Rec Limits	RPD	Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2427034-BLK1)							Prepared: 0	7/03/24 Anal	yzed: 07/08/24
Benzene	ND	0.0250					1		-
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	6.91		8.00		86.3	70-130			
LCS (2427034-BS1)							Prepared: 0	7/03/24 Anal	yzed: 07/08/24
Benzene	5.52	0.0250	5.00		110	70-130			
Ethylbenzene	5.28	0.0250	5.00		106	70-130			
Toluene	5.43	0.0250	5.00		109	70-130			
o-Xylene	5.25	0.0250	5.00		105	70-130			
p,m-Xylene	10.7	0.0500	10.0		107	70-130			
Total Xylenes	15.9	0.0250	15.0		106	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.06		8.00		88.2	70-130			
Matrix Spike (2427034-MS1)				Source: 1	E407017-1	10	Prepared: 0	7/03/24 Anal	yzed: 07/08/24
Benzene	5.04	0.0250	5.00	ND	101	54-133			
Ethylbenzene	4.83	0.0250	5.00	ND	96.5	61-133			
Toluene	4.96	0.0250	5.00	ND	99.2	61-130			
o-Xylene	4.80	0.0250	5.00	ND	96.0	63-131			
p,m-Xylene	9.79	0.0500	10.0	ND	97.9	63-131			
Total Xylenes	14.6	0.0250	15.0	ND	97.2	63-131			
Surrogate: 4-Bromochlorobenzene-PID	6.95		8.00		86.9	70-130			
Matrix Spike Dup (2427034-MSD1)				Source: 1	E407017-1	10	Prepared: 0	7/03/24 Anal	yzed: 07/08/24
Benzene	4.86	0.0250	5.00	ND	97.2	54-133	3.58	20	
Ethylbenzene	4.64	0.0250	5.00	ND	92.9	61-133	3.85	20	
Toluene	4.76	0.0250	5.00	ND	95.3	61-130	3.99	20	
o-Xylene	4.60	0.0250	5.00	ND	91.9	63-131	4.32	20	
p,m-Xylene	9.42	0.0500	10.0	ND	94.2	63-131	3.82	20	
Total Xylenes	14.0	0.0250	15.0	ND	93.4	63-131	3.98	20	
			0.00		061				

8.00

6.89

86.1

70-130



Surrogate: 4-Bromochlorobenzene-PID

Surrogate: 1-Chloro-4-fluorobenzene-FID

# **QC Summary Data**

Matador Resources, LLC.Project Name:Boundary Raider 7 CTB 2Reported:5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo7/10/2024 11:41:52AM

Dallas TX, 75240		Project Manage	r: As	shley Gioveng	go			7/	10/2024 11:41:52AM
	Nor	Nonhalogenated Organics by EPA 8015D - GRO							Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2427034-BLK1)							Prepared: 0	7/03/24 Ana	alyzed: 07/08/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.39		8.00		92.4	70-130			
LCS (2427034-BS2)							Prepared: 0	7/03/24 Ana	alyzed: 07/08/24
Gasoline Range Organics (C6-C10)	45.0	20.0	50.0		90.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.50		8.00		93.8	70-130			
Matrix Spike (2427034-MS2)				Source:	E407017-	10	Prepared: 0	7/03/24 Ana	alyzed: 07/08/24
Gasoline Range Organics (C6-C10)	49.4	20.0	50.0	ND	98.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.59		8.00		94.9	70-130			
Matrix Spike Dup (2427034-MSD2)				Source:	E407017-	10	Prepared: 0	7/03/24 Ana	alyzed: 07/08/24
Gasoline Range Organics (C6-C10)	47.4	20.0	50.0	ND	94.9	70-130	4.07	20	

8.00

7.63

95.3

70-130

# **QC Summary Data**

Matador Resources, LLC.Project Name:Boundary Raider 7 CTB 2Reported:5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo7/10/2024 11:41:52AM

	Nonha	logenated Or	ganics by	EPA 8015I	) - DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2427041-BLK1)							Prepared: 0	7/03/24 Anal	yzed: 07/03/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	44.3		50.0		88.6	50-200			
LCS (2427041-BS1)							Prepared: 0	7/03/24 Anal	yzed: 07/03/24
Diesel Range Organics (C10-C28)	290	25.0	250		116	38-132			
Surrogate: n-Nonane	47.4		50.0		94.8	50-200			
Matrix Spike (2427041-MS1)				Source:	E407014-	02	Prepared: 0	7/03/24 Anal	yzed: 07/03/24
Diesel Range Organics (C10-C28)	558	50.0	250	282	110	38-132			
Surrogate: n-Nonane	46.1		50.0		92.2	50-200			
Matrix Spike Dup (2427041-MSD1)				Source:	E407014-	02	Prepared: 0	7/03/24 Anal	yzed: 07/03/24
Diesel Range Organics (C10-C28)	526	50.0	250	282	97.8	38-132	5.81	20	
Surrogate: n-Nonane	48.6		50.0		97.2	50-200			

Chloride

Matrix Spike (2427051-MS1)

# **QC Summary Data**

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Name: Project Number: Project Manager	:	Boundary Raider 7 CTB 2 23003-0002 Ashley Giovengo					<b>Reported:</b> 7/10/2024 11:41:52AM		
		Anions	by EPA	300.0/9056	A				Analyst: DT		
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits	RPD %	RPD Limit %	Notes		
Blank (2427051-BLK1)							Prepared: 0	7/03/24 An	nalyzed: 07/03/24		
Chloride	ND	20.0									
LCS (2427051-BS1)							Prepared: 0	7/03/24 An	nalyzed: 07/03/24		

Chloride	304	20.0	250	35.6	107	80-120			
Matrix Spike Dup (2427051-MSD1)				Source:	E407019-	03	Prepared: 07	7/03/24 Analyzed: 07/0	03/24
Chloride	304	20.0	250	35.6	107	80-120	0.0128	20	

250

20.0

90-110

Prepared: 07/03/24 Analyzed: 07/03/24

104

Source: E407019-03

261

#### QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



# **Definitions and Notes**

Matador Resources, LLC.Project Name:Boundary Raider 7 CTB 25400 LBJ Freeway, Suite 1500Project Number:23003-0002Reported:Dallas TX, 75240Project Manager:Ashley Giovengo07/10/24 11:41

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Released to Imaging: 8/23/2024 9:04:46 AM

Page	of
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	Clier	nt Inform	ation				Invoice Information					Lal	b Us	e On	ly		1	TAT State				
Client: N	/latador Prod	luction Co	mpany			Con	npany: Ensolum LLC		La	bΝ	VO#			Job !	lum	ber		1D 2D 3D Std NM CO UT			NM CO UT TX	
	Boundary Ra					Add	dress: 3122 National Parks Hwy		E	4	70	01	9	230	<b>203</b>	<u>-</u> -  -  -  -  -  -  -  -  -  -  -  -	22				x	x
	/lanager: Asl		_			City	, State, Zip: Carlsbad NM, 8822	20	厂													
Address:	3122 Nation	nal Parks	Hwy			Pho	ne: 575-988-0055							Ana	lysis	and	Met	hod				EPA Program
City, Stat	e, Zip: Carls	bad NM,	88220			Ema	ail: agiovengo@ensolum.com		1	Γ												SDWA CWA RCRA
Phone: !	575-988-005	5				Misc	cellaneous:				ŀ	- 1	١					i				
Email: a	giovengo@ei	nsolum.c	om			1					ا ي	ا يو		1								Compliance Y or N
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				Sam	ple Infor	matio	en				8	ő	8	8260	300	- N	05 · T	Met				
Time Sampled	Date Sampled	Matrix	No. of Containers			:	Sample ID	Field	Lab Numbe	er	DRO/ORO by	GRO/DRO by	втех ьу 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals				Remarks
9:14	7/1/2024	S	1				SS01 - 0'		1							х						
9:42	7/1/2024	S	1				SS02 - 0'	1	2	T						х						
9:19	7/1/2024	s	1			_	SS03 - 0'		3							х						
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	pler), attest to the	e validity and	authentic	ity of this samp	ple. I am aw	are that	tampering with or intentionally mislabelin	the sa	nple locat	tion,	date c	r time	of co	llection	n is co	nsider	ed frau	d and	may b	grou	nds fo	legal action.
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Mu	4/	,	c	7/02/27	1 7:10	<b>)</b>	Michelle, Gonzale	ر ار	1.14	١ ١	0	010	)	ŀ			ed or re		packed	in ice a	et an av	g temp above 0 but less than 6 °C on
Relinquish	hed byg(Signatu	re)	es Da	1-2-24	Time 1619	5	Received by: (Sygnature)	Date	`.ı.v	4	Time	70					eivec		ice:		ab U:	se Only
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Sample Mat	trix: <b>S</b> - Soil, <b>Sd</b> - S	iolid, <b>Sg</b> - Slu	dge, A - Ac	ueous, <b>O</b> - Oth	ier				tainer T							c, ag	- am	oer g	lass, v			
Note: Sam	ples are discard	ded 14 days	after res	ults are repo	rted unles	other	arrangements are made. Hazardous s	mples	will be r	etur	ned t	o clie	nt or	dispos	ed of	at th	e cliei	nt exp	ense.	The r	eport	for the analysis of the above
							this COC. The liability of the laborator															





# **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Matador Resources, LLC.	Date Received:	07/03/24	10:00	Work Order ID:	E407019
Phone:	(972) 371-5200	Date Logged In:	07/02/24	16:15	Logged In By:	Alexa Michaels
Email:	agiovngo@ensolum.com	Due Date:	07/11/24	17:00 (4 day TAT)		
Ch -i4	SC4-1- (COC)					
	Custody (COC)					
	he sample ID match the COC? he number of samples per sampling site location ma	tch the COC	Yes			
	samples dropped off by client or carrier?	ten the coc	Yes	0 . 0 .		
	the COC complete, i.e., signatures, dates/times, reque	eted analysees?	Yes Yes	Carrier: Couier		
	all samples received within holding time?	sted allaryses:	Yes			
s. were c	Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssi	•	103		<u>Comment</u>	s/Resolution
	Furn Around Time (TAT)  e COC indicate standard TAT, or Expedited TAT?		Yes			
Sample (	· •					
	sample cooler received?		Yes			
	was cooler received in good condition?		Yes			
•	ne sample(s) received intact, i.e., not broken?		Yes			
	custody/security seals present?		No			
	s, were custody/security seals intact?					
	ne sample received on ice? If yes, the recorded temp is 4°C.	ia 6°±2°C	NA			
	Note: Thermal preservation is not required, if samples arminutes of sampling	e received w/i 15	Yes			
	visible ice, record the temperature. Actual sample	temperature: 4-0	<u>C</u>			
_	Container		N			
	equeous VOC samples present?		No			
	/OC samples collected in VOA Vials?		NA NA			
	head space less than 6-8 mm (pea sized or less)?					
	a trip blank (TB) included for VOC analyses?	n	NA			
	non-VOC samples collected in the correct containers		Yes			
	appropriate volume/weight or number of sample contain	ners collected?	Yes			
Field La	<del></del>					
	field sample labels filled out with the minimum info sample ID?	offitation.	Yes			
	Date/Time Collected?		Yes			
	Collectors name?		Yes			
Sample 1	<u>Preservation</u>					
21. Does	the COC or field labels indicate the samples were p	reserved?	No			
22. Are s	ample(s) correctly preserved?		NA			
24. Is lab	filteration required and/or requested for dissolved n	netals?	No			
Multiph:	ase Sample Matrix					
26. Does	the sample have more than one phase, i.e., multipha	se?	No			
	s, does the COC specify which phase(s) is to be analy		NA			
Subcont	ract Laboratory					
	amples required to get sent to a subcontract laborato	rv?	No			
	a subcontract laboratory specified by the client and i	-	NA	Subcontract Lab: NA		
		i so who.	1121	Subcontract Lab. IVA		
Client I	<u>nstruction</u>					

Date



# **APPENDIX E**

NMOCD Correspondence

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 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 350453

#### **QUESTIONS**

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	350453
	Action Type:
	[NOTIFY] Notification Of Liner Inspection (C-141L)

#### QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2414543825
Incident Name	NAPP2414543825 BOUNDARY RAIDER 7 CTB 2 @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Facility	[fAPP2123645710] BOUNDARY RAIDER 7 CTB 2

Location of Release Source	
Site Name	BOUNDARY RAIDER 7 CTB 2
Date Release Discovered	05/24/2024
Surface Owner	Federal

Liner Inspection Event Information	
Please answer all the questions in this group.	
What is the liner inspection surface area in square feet	7,250
Have all the impacted materials been removed from the liner	Yes
Liner inspection date pursuant to Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC	06/06/2024
Time liner inspection will commence	09:00 AM
Please provide any information necessary for observers to liner inspection	Ashley Giovengo Senior Scientist 575-988-0055 Ensolum, LLC
Please provide any information necessary for navigation to liner inspection site	32.314206, -103.709198

811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720

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

CONDITIONS

Action 350453

#### **CONDITIONS**

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	350453
	Action Type:
	[NOTIFY] Notification Of Liner Inspection (C-141L)

#### CONDITIONS

Created		Condition
Ву		Date
wdale	Failure to notify the OCD of liner inspections including any changes in date/time per the requirements of 19.15.29.11.A(5)(a)(ii) NMAC, may result in the inspection not being accepted.	6/3/2024

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

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

QUESTIONS

Action 364495

#### **QUESTIONS**

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	364495
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2414543825
Incident Name	NAPP2414543825 BOUNDARY RAIDER 7 CTB 2 @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Facility	[fAPP2123645710] BOUNDARY RAIDER 7 CTB 2

Location of Release Source		
Please answer all the questions in this group.		
Site Name	BOUNDARY RAIDER 7 CTB 2	
Date Release Discovered	05/24/2024	
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 fo	or 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   Pump   Produced Water   Released: 40 BBL   Recovered: 40 BBL   Lost: 0 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)	1/4" plug washed out on water transfer pump. 40.4 bbls released in lined containment.	

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District III
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1220 S. St Francis Dr., Santa Fe, NM 87505

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

QUESTIONS, Page 2

Action 364495

Phone: (505) 476-3470 Fax: (505) 476-3462	
QUESTI	ONS (continued)
Operator: DEVON ENERGY PRODUCTION COMPANY, LP	OGRID: 6137
333 West Sheridan Ave. Oklahoma City, OK 73102	Action Number: 364495
Gildiand Gily, Gil 70102	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 s	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.
	ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for releate OCD does not relieve the operator of liability should their operations have failed to	knowledge and understand that pursuant to OCD rules and regulations all operators are required asses which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dvn.com

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III

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

QUESTIONS, Page 3

Action 364495

#### **QUESTIONS** (continued)

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	364495
	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 approva release discovery date.	l and beyond). This information must be provided to the appropriate district office no later than 90 days after the	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 51 and 75 (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)	Greater than 5 (mi.)	
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)	
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)	
Any other fresh water well or spring	Between ½ and 1 (mi.)	
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)	
A wetland	Between 1 and 5 (mi.)	
A subsurface mine	Greater than 5 (mi.)	
An (non-karst) unstable area	Greater than 5 (mi.)	
Categorize the risk of this well / site being in a karst geology	Low	
A 100-year floodplain	Greater than 5 (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	Yes	
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes complete which includes the anticipated timelines for beginning and completing the remediation.	d efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,	
On what estimated date will the remediation commence	07/05/2024	
On what date will (or did) the final sampling or liner inspection occur	07/07/2024	
On what date will (or was) the remediation complete(d)	07/07/2024	
What is the estimated surface area (in square feet) that will be remediated	0	
What is the estimated volume (in cubic yards) that will be remediated	0	
These estimated dates and measurements are recognized to be the best guess or calculation at the	e 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.

District I

1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720

<u>District II</u> 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

<u>District III</u> 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

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, Page 4

Action 364495

#### **QUESTIONS** (continued)

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	364495
	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.)		
Is (or was) there affected material present needing to be removed	Yes	
Is (or was) there a power wash of the lined containment area (to be) performed	Yes	
OTHER (Non-listed remedial process)	No	
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.		

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.

Name: Dale Woodall
Title: EHS Professional
Email: Dale.Woodall@dvn.com
Date: 07/16/2024

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.

**District I** 

1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 **District II** 

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

QUESTIONS, Page 6

Action 364495

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Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	364495
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### QUESTIONS

Liner Inspection Information		
Last liner inspection notification (C-141L) recorded	350453	
Liner inspection date pursuant to Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC	06/06/2024	
Was all the impacted materials removed from the liner	Yes	
What was the liner inspection surface area in square feet	7250	

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	Yes		
What was the total surface area (in square feet) remediated	0		
What was the total volume (cubic yards) remediated	0		
Summarize any additional remediation activities not included by answers (above)	see report		

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 o 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: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dvn.com

Date: 07/16/2024

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

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

CONDITIONS

Action 364495

#### **CONDITIONS**

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	364495
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### CONDITIONS

Created By	Condition	Condition Date
nvelez	Liner inspection approved, release resolved.	8/23/2024