

Spills In Lined Containment	
Measurements Of Standing Fluid	
Length(Ft)	80
Width(Ft)	44
Depth(in.)	0.5
Total Capacity without tank displacements (bbls)	26.12
No. of 500 bbl Tanks In Standing Fluid	4
No. of Other Tanks In Standing Fluid	0
OD Of Other Tanks In Standing Fluid(feet)	
Total Volume of standing fluid accounting for tank displacement.	20.52



April 25, 2024

New Mexico Energy Minerals and Natural Resources Department

New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

**Re: Deferral Request
Salado Draw 6 Fed 1H CTB
Incident Number nAPP2321066405
Lea County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Devon Energy Production Company (Devon), has prepared this *Deferral Request* to document assessment and soil sampling activities at the Salado Draw 6 Fed 1H CTB (Site) in Unit M, Section 6, Township 26 South, Range 34 East, in Lea County, New Mexico (Figure 1). The Site (32.06572°, -103.514694°) is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

The purpose of the Site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil following a release of crude oil within a lined containment at the Site. Based on field observations, field screening activities, and soil sample laboratory analytical results, Devon is submitting this *Deferral Request*, describing Site assessment and delineation activities that have occurred and requesting deferral of final remediation for Incident Number nAPP2321066405 until the Site is reconstructed and/or the well pad is abandoned.

BACKGROUND

On July 29, 2023, a pinhole leak formed on a 4-inch produced water tank load line resulting in the release of approximately 20.52 barrels (bbls) of produced water into the lined tank battery containment. A vacuum truck was immediately dispatched to the Site to recover free-standing fluids; 20 bbls of released produced water were recovered from within the lined containment. Devon reported the release to the New Mexico Oil Conservation Division (NMOCD) via email on July 29, 2023, and subsequently the release was assigned Incident Number nAPP2321066405. A 48-hour advance notice of liner inspection was provided via email to the NMOCD via web portal. A liner integrity inspection was conducted by Ensolum personnel following fluid recovery. Upon inspection, the liner was determined to be insufficient.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) 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.

Depth to groundwater at the Site is estimated to be greater than 250 feet below ground surface (bgs) based on groundwater depth measurement of a nearby water well. On May 03, 2010, a soil boring (New Mexico Office of the State Engineer (NMOSE) file number C-03441 POD1) was drilled nearly 0.97 miles northeast of the Site. Soil boring C-03441 was drilled to a depth of 250 feet bgs. Depth to groundwater was confirmed to be greater than 250 feet bgs as indicated on the well log and record (see Appendix A).

The closest continuously flowing or significant watercourse to the Site is a wetland, located approximately 0.19 miles northeast 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 karst potential 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

SITE ASSESSMENT ACTIVITIES

On February 26, 2024, Ensolum personnel visited the Site to perform a liner integrity inspection and to conducted Site assessment activities. Ensolum personnel competent in conducting liner inspections identified one hole, 4 feet north of the south containment wall; it was determined the liner was insufficient and did not have the ability to contain the release in question. Three assessment soil samples (SS02 through SS04) were collected from the west, south and east sides of the lined secondary containment at surface level. The soil samples were field screened for TPH utilizing a PetroFLAG[®] Hydrocarbon Test Kit and chloride using the Hach[®] Chloride QuanTab[®] test strips. The soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted in Figure 2. Photographic documentation was completed during the Site visit and a photographic log is included as Appendix B.

The soil samples 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 Analytical Laboratory (Envirotech) in Farmington, New Mexico, for analysis of the following chemicals 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 Standard Method SM4500.

DELINEATION ACTIVITIES

On March 29, 2024, Ensolum personnel returned to the Site to collect lateral assessment soil sample SS01. Lateral assessment soil sample SS01 was collected at ground surface; the sample was handled and analyzed in the same manner as previously described.

Ensolum personnel visited the Site on April 4, 2024, to conduct delineation activities and to assess for the presence or absence of impacts to soil beneath the containment. The liner was found insufficient during the February 2024 inspection and as such, one borehole (BH01) was advanced beneath the hole

in the damaged liner. The borehole was advanced via hand auger to a depth of 1-foot bgs, and field screened for TPH and chloride at each foot as described above. The soil samples were handled and analyzed as previously described. Field screening results and observations from the borehole were logged on a lithologic/soil sampling log, which are included in Appendix C. Discrete delineation soil samples were collected at ground surface and 1-foot bgs in borehole BH01 and submitted for laboratory analysis.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for lateral assessment soil samples (SS01 through SS04) collected from outside of the lined secondary containment, indicated all COC concentrations were compliant with Site Closure Criteria and with the strictest Closure Criteria per NMOCD Table I. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix D.

Laboratory analytical results for the vertical delineation soil samples collected from borehole BH01 indicated COC concentrations were compliant with the Site Closure Criteria at ground surface to 1-foot bgs with the exception of TPH. The concentrations of TPH exceeded the Site Closure Criteria at ground surface in borehole BH01 but was compliant at 1-foot bgs. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix D.

DEFERRAL REQUEST

Devon is requesting deferral of final remediation due to the presence of active production equipment and surface pipelines within the lined containment. Impacted soil is limited to the area immediately beneath the lined containment and active production equipment, where remediation would require a major facility deconstruction.

Impacted soil remaining in place beneath the liner, which is delineated vertically by delineation soil samples from borehole BH01, collected from a depth of 1-foot bgs and laterally by surface soil samples SS01 through SS04, collected at the ground surface. A maximum of 155 cubic yards of TPH-impacted soil remains in place beneath the liner assuming a maximum 1-foot depth based on the delineation soil samples listed above. Impacted soil volumes estimate include waste-containing soil volumes to be addressed through reconstruction of the containment or final pad reclamation. The area of deferment is depicted on Figure 3.

Devon does not believe deferment will result in imminent risk to human health, the environment, or groundwater. Depth to groundwater was determined to be greater than 250 feet bgs, the release was contained laterally by the lined containment, and the impacted soil remaining in place is limited to the area immediately beneath the liner. The liner has been repaired by Devon and will restrict future vertical migration of residual impacts and any interactions with humans and/or wildlife.

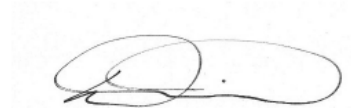
Based on the presence of active production equipment within the release area and the complete lateral and vertical delineation of impacted soil remaining in place, Devon requests deferral of final remediation for Incident Number nAPP2321066405 until final reclamation of the well pad or major construction, whichever comes first. Remedial actions completed to date have been protective of human health, the environment, and groundwater and deferment of impacted soil beneath the lined containment appears to be equally protective and warranting deferment. Notifications submitted to the NMOCD are included in Appendix E.

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

Sincerely,
Ensolum, LLC



Ashely Giovengo
Senior Scientist



Daniel R. Moir, PG (licensed in WY & TX)
Senior Managing Geologist

cc: Dale Woodall, Devon
Bureau of Land Management

Appendices:

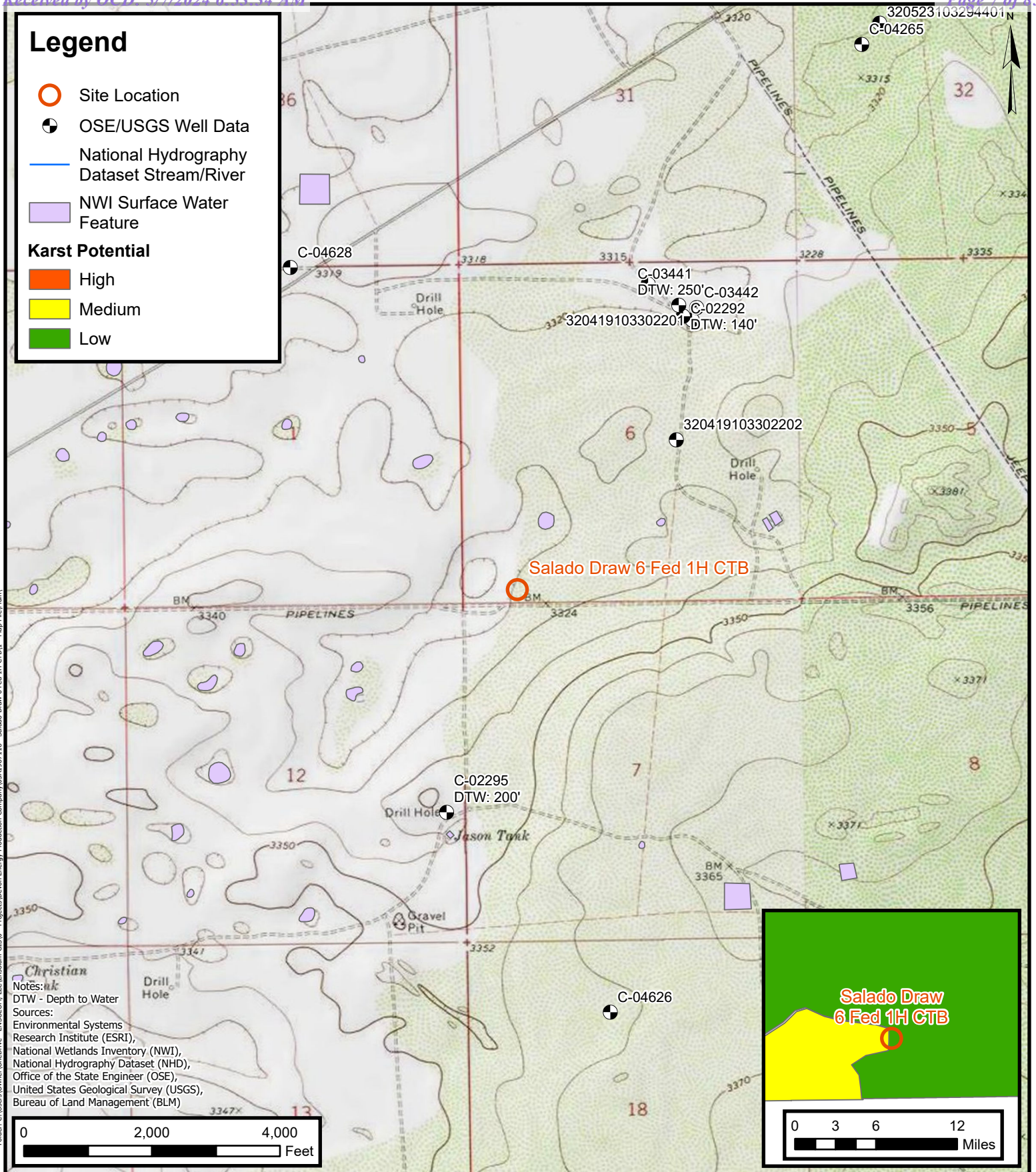
Figure 1	Site Receptor Map
Figure 2	Delineation Soil Sample Locations
Figure 3	Area of Requested Deferral
Table 1	Soil Sample Analytical Results
Appendix A	Well Log and Record
Appendix B	Photographic Log
Appendix C	Lithographic Soil Sampling Logs
Appendix D	Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix E	Email Correspondence



FIGURES

Legend

- Site Location
- OSE/USGS Well Data
- National Hydrography Dataset Stream/River
- NWI Surface Water Feature
- Karst Potential**
 - High
 - Medium
 - Low



Site Receptor Map

Devon Energy Production Company
Salado Draw 6 Fed 1H CTB
Incident Number: nAPP2321066405
Unit M, Section 06, Township 26S, Range 34E
Lea County, Colorado

FIGURE

1



Delineation Soil Sample Locations

Devon Energy Production Company

Salado Draw 6 Fed 1H CTB

Incident Number: nAPP2321066405

Unit M, Section 06, Township 26S, Range 34E

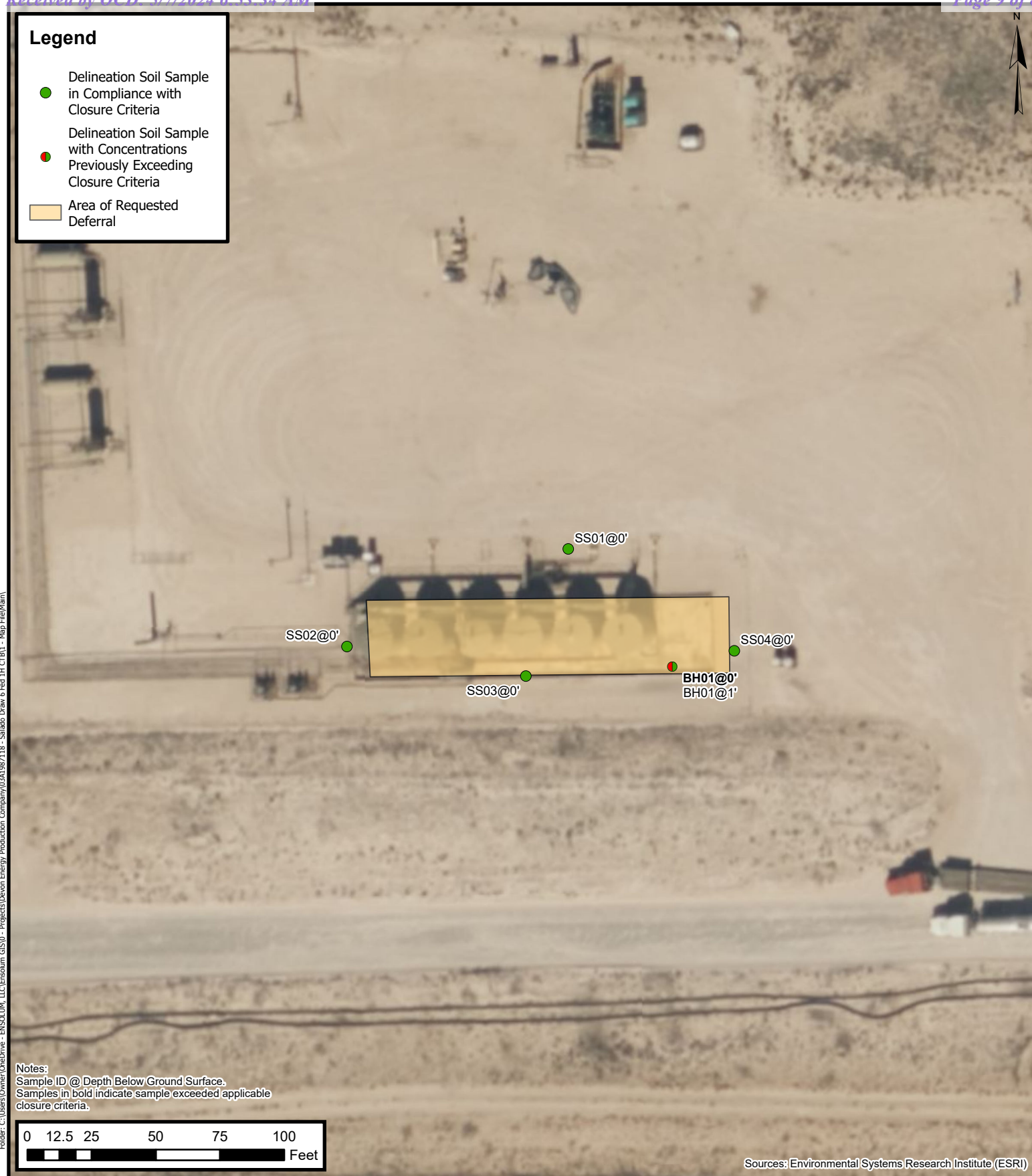
Lea County, New Mexico

FIGURE

2

Legend

- Delineation Soil Sample in Compliance with Closure Criteria
- Delineation Soil Sample with Concentrations Previously Exceeding Closure Criteria
- Area of Requested Deferral



Area of Requested Deferral

Devon Energy Production Company
 Salado Draw 6 Fed 1H CTB
 Incident Number: nAPP2321066405
 Unit M, Section 06, Township 26S, Range 34E
 Lea County, New Mexico

FIGURE

3



TABLES



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 Salado Draw 6 Fed 1H
 Devon Energy Production Company
 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										
SS01	3/29/2024	0	<0.025	<0.025	<20.0	<25.0	<50.0	<20.0	<20.0	34.8
SS02	2/26/2024	0	<0.025	<0.025	<20.0	<25.0	<50.0	<20.0	<20.0	369
SS03	2/26/2024	0	<0.025	<0.025	<20.0	<25.0	<50.0	<20.0	<20.0	63.6
SS04	2/26/2024	0	<0.025	<0.025	<20.0	<25.0	<50.0	<20.0	<20.0	168
BH01	4/4/2024	0	<0.025	<0.025	<20.0	599	524	599	1,123	45.9
BH01	4/4/2024	1	<0.025	<0.025	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0

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

<: Laboratory Analytical result is less than reporting limit

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

* 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.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes



APPENDIX A

Well Log and Record



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER


www.ose.state.nm.us

STATE ENGINEER OFFICE
ROSWELL, NEW MEXICO
200 MAY 17 4 11:12 PM

1. GENERAL AND WELL LOCATION	POD NUMBER (WELL NUMBER) C-3441-POD1				OSE FILE NUMBER(S) C 03441				
	WELL OWNER NAME(S) Dinwiddie Cattle Company				PHONE (OPTIONAL)				
	WELL OWNER MAILING ADDRESS PO Box 963				CITY Capitan		STATE NM	ZIP 88316	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE N32	MINUTES 04	SECONDS 41.8 N	40.224 * ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84 (OSE GPS)				
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS 22.867									
2. OPTIONAL	(2.5 ACRE) NW 1/4	(10 ACRE) SE 1/4	(40 ACRE) NW 1/4	(160 ACRE) NE 1/4	SECTION 6	TOWNSHIP 26	<input type="checkbox"/> NORTH <input checked="" type="checkbox"/> SOUTH	RANGE 34	<input checked="" type="checkbox"/> EAST <input type="checkbox"/> WEST
	SUBDIVISION NAME				LOT NUMBER	BLOCK NUMBER	UNIT/TRACT		
	HYDROGRAPHIC SURVEY					MAP NUMBER	TRACT NUMBER		
3. DRILLING INFORMATION	LICENSE NUMBER WD1044		NAME OF LICENSED DRILLER Alan Eades			NAME OF WELL DRILLING COMPANY Eades Drilling & Pump Service			
	DRILLING STARTED 05-03-10		DRILLING ENDED 05-03-10		DEPTH OF COMPLETED WELL (FT) 250	BORE HOLE DEPTH (FT) 250	DEPTH WATER FIRST ENCOUNTERED (FT)		
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input checked="" type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT)			
	DRILLING FLUID: <input type="checkbox"/> AIR <input checked="" type="checkbox"/> MUD <input type="checkbox"/> ADDITIVES - SPECIFY:								
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY:								
	DEPTH (FT)		BORE HOLE DIA. (IN)	CASING MATERIAL	CONNECTION TYPE (CASING)	INSIDE DIA. CASING (IN)	CASING WALL THICKNESS (IN)	SLOT SIZE (IN)	
	FROM	TO							
	0	20	11	PVC	slip joint	6.166	.255		
	20	190	9.75	PVC	slip joint	6.166	.255		
	190	250	9.75	PVC - screen	slip joint	6.166	.255	.035	
4. WATER BEARING STRATA	DEPTH (FT)		THICKNESS (FT)	FORMATION DESCRIPTION OF PRINCIPAL WATER-BEARING STRATA (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)				YIELD (GPM)	
	FROM	TO							
	128	189	61	sandy red clay					
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA						TOTAL ESTIMATED WELL YIELD (GPM)			

FOR OSE INTERNAL USE

FILE NUMBER C-3441	POD NUMBER POD1	WELL RECORD & LOG (Version 6/9/08)
LOCATION 26.34.6.2141122	TRN NUMBER	PAGE 1 OF 2

5. SEAL AND PUMP	TYPE OF PUMP: <input checked="" type="checkbox"/> SUBMERSIBLE <input type="checkbox"/> JET <input type="checkbox"/> NO PUMP - WELL NOT EQUIPPED <input type="checkbox"/> TURBINE <input type="checkbox"/> CYLINDER <input type="checkbox"/> OTHER - SPECIFY:						
	ANNULAR SEAL AND GRAVEL PACK	DEPTH (FT)		BORE HOLE DIA. (IN)	MATERIAL TYPE AND SIZE	AMOUNT (CUBIC FT)	METHOD OF PLACEMENT
		FROM	TO				
		0	20				
	20	250	9.75	gravel	84	gravity fed	
6. GEOLOGIC LOG OF WELL	DEPTH (FT)		THICKNESS (FT)	COLOR AND TYPE OF MATERIAL ENCOUNTERED (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)	WATER BEARING?		
	FROM	TO					
	0	1	1	top soil	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
	1	25	24	sandy clay	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
	25	37	12	caliche & sand	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
	37	85	48	sand & sandstone stringers	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
	85	108	23	red sandstone with red clay streaks	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
	108	128	20	sandstone with yellow clay streaks	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
	128	189	61	sandy red clay	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
	189	249	60	white sandstone with red clay streaks	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
	249	250	1	red clay	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
					<input type="checkbox"/> YES	<input type="checkbox"/> NO	
					<input type="checkbox"/> YES	<input type="checkbox"/> NO	
					<input type="checkbox"/> YES	<input type="checkbox"/> NO	
	ATTACH ADDITIONAL PAGES AS NEEDED TO FULLY DESCRIBE THE GEOLOGIC LOG OF THE WELL						
	7. TEST & ADDITIONAL INFO	METHOD: <input type="checkbox"/> BAILER <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> OTHER - SPECIFY:					
		WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.				
		ADDITIONAL STATEMENTS OR EXPLANATIONS:					
8. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:						
	<div style="display: flex; justify-content: space-between; align-items: flex-end;"> <div style="text-align: center;">  SIGNATURE OF DRILLER </div> <div style="text-align: center;"> May 14, 2010 DATE </div> </div>						

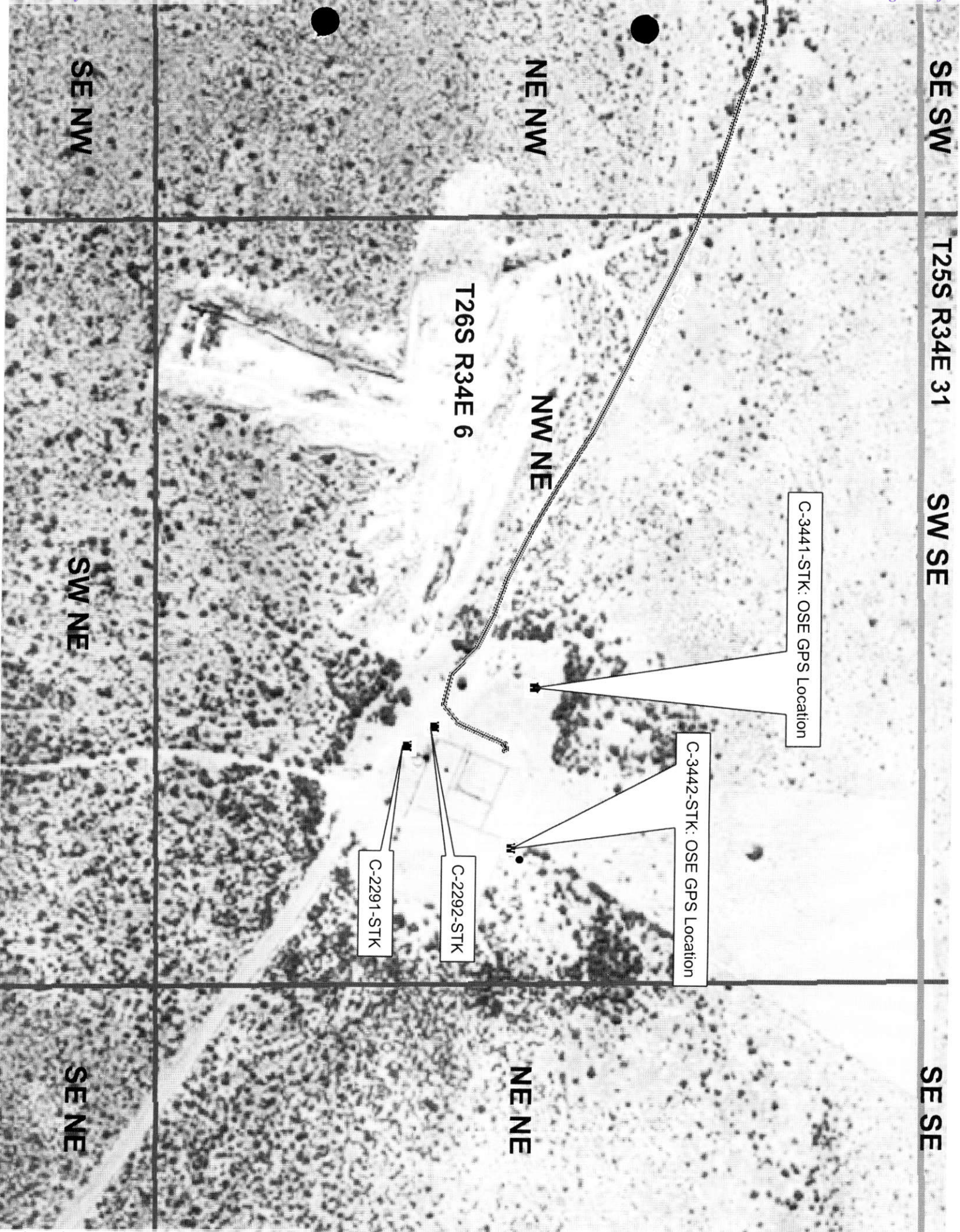
 STATE ENGINEER OF NEW MEXICO
 2010 MAY 17 A 11:11 AM

FOR OSE INTERNAL USE

WELL RECORD & LOG (Version 6/9/08)

FILE NUMBER <u>2-3741</u>	POD NUMBER <u>POD1</u>	TRN NUMBER
LOCATION <u>26-34-6-24-282</u>		PAGE 2 OF 2

2141122



Locator Tool Report

General Information:

Application ID: 29 Date: 02-01-2011 Time: 11:32:20

WR File Number: C-03441-STK
Purpose: POINT OF DIVERSION

Applicant First Name: DINWIDDIE CATTLE CO
Applicant Last Name: NEW STOCK WELL (OSE FIELD GPS)

GW Basin: CARLSBAD
County: LEA

Critical Management Area Name(s): NONE
Special Condition Area Name(s): NONE
Land Grant Name: NON GRANT

PLSS Description (New Mexico Principal Meridian):

NW 1/4 of SE 1/4 of NW 1/4 of NE 1/4 of Section 06, Township 26S, Range 34E.

Coordinate System Details:**Geographic Coordinates:**

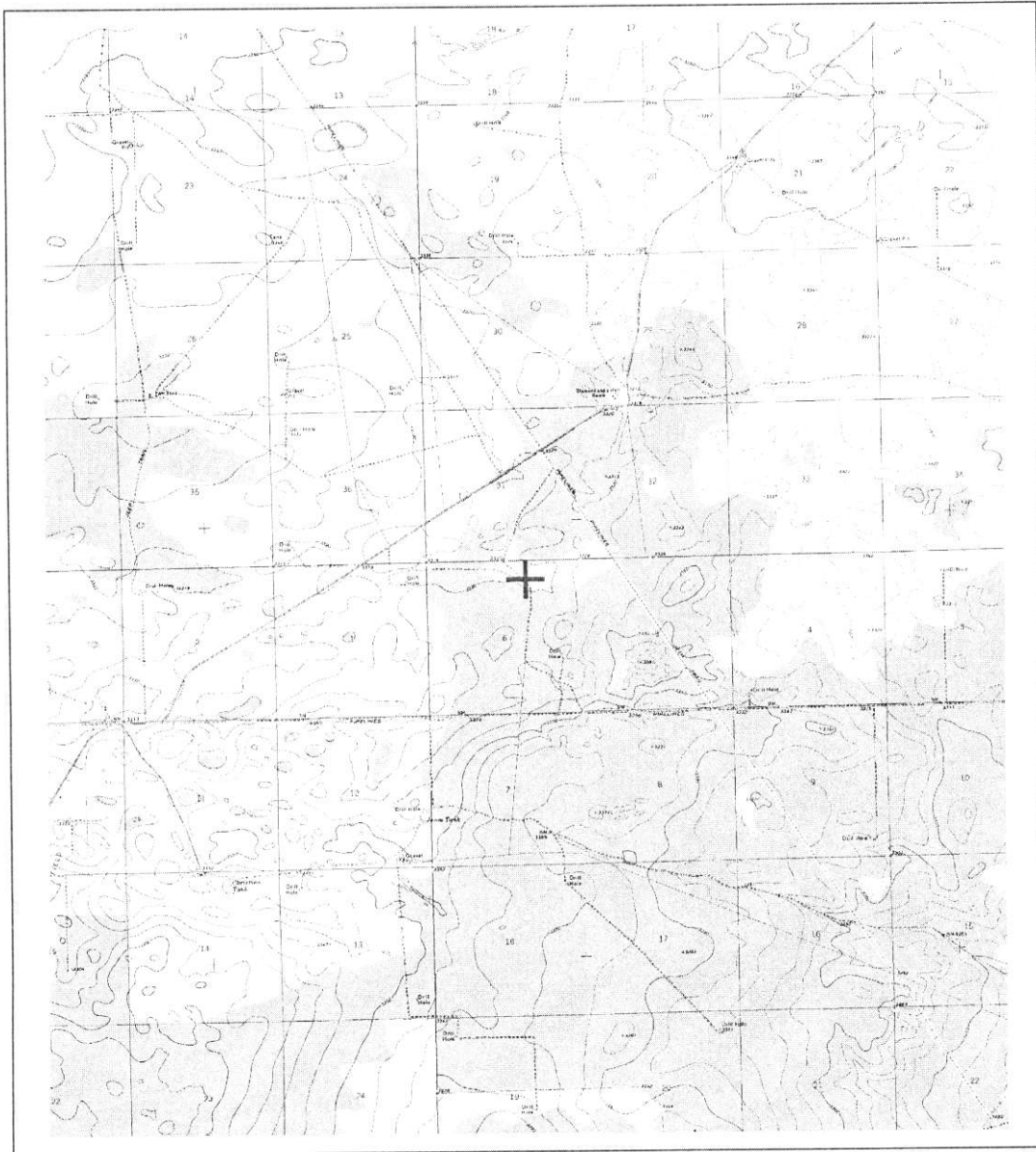
Latitude: 32 Degrees 4 Minutes 40.2 Seconds N
Longitude: 103 Degrees 30 Minutes 22.9 Seconds W

Universal Transverse Mercator Zone: 13N

NAD 1983(92) (Meters)	N: 3,550,040	E: 640,971
NAD 1983(92) (Survey Feet)	N: 11,647,089	E: 2,102,918
NAD 1927 (Meters)	N: 3,549,839	E: 641,018
NAD 1927 (Survey Feet)	N: 11,646,429	E: 2,103,073

State Plane Coordinate System Zone: New Mexico East

NAD 1983(92) (Meters)	N: 119,798	E: 243,072
NAD 1983(92) (Survey Feet)	N: 393,037	E: 797,479
NAD 1927 (Meters)	N: 119,780	E: 230,518
NAD 1927 (Survey Feet)	N: 392,980	E: 756,292

NEW MEXICO OFFICE OF STATE ENGINEER**Locator Tool Report**

WR File Number: C-03441-STK Scale: 1:77,058

Northing/Easting: UTM83(92) (Meter): N: 3,550,040 E: 640,971

Northing/Easting: SPCS83(92) (Feet): N: 393,037 E: 797,479

GW Basin: Carlsbad



APPENDIX B

Photographic Log

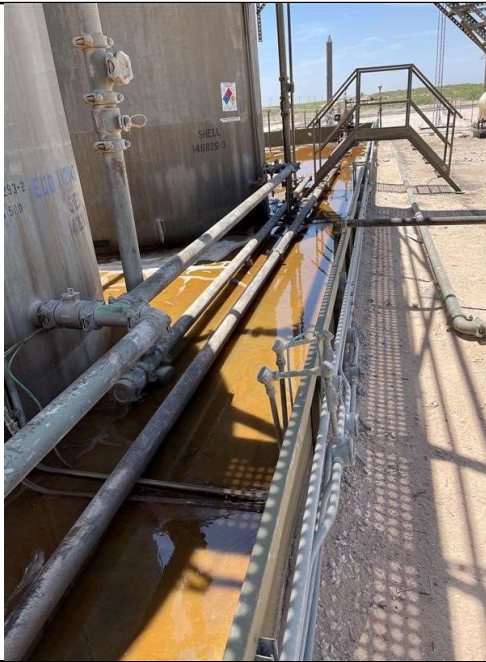


Photographic Log

Devon Energy Production Company

Salado Draw 6 Fed 1H CTB

Incident Number: nAPP2321066405



Photograph 1

Date: 07/29/2023

Description: Initial Release

View: West



Photograph 2

Date: 07/29/2023

Description: Initial Release

View: East



Photograph 3

Date: 02/26/2024

Description: Liner Inspection

View: Southwest



Photograph 4

Date: 02/26/2024

Description: Liner Inspection

View: Southwest



Photographic Log

Devon Energy Production Company

Salado Draw 6 Fed 1H CTB

Incident Number: nAPP2321066405



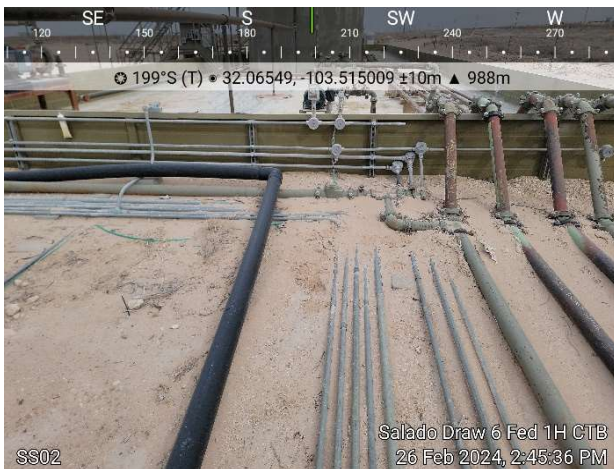
Photograph 5
Description: Liner Inspection
View: Northeast

Date: 02/26/2024



Photograph 6
Description: Liner Inspection (BH01)
View: East

Date: 02/26/2024



Photograph 7
Description: Liner Inspection
View: South

Date: 02/26/2024



Photograph 8
Description: Liner Inspection
View: Southeast

Date: 02/26/2024



Photographic Log

Devon Energy Production Company

Salado Draw 6 Fed 1H CTB

Incident Number: nAPP2321066405

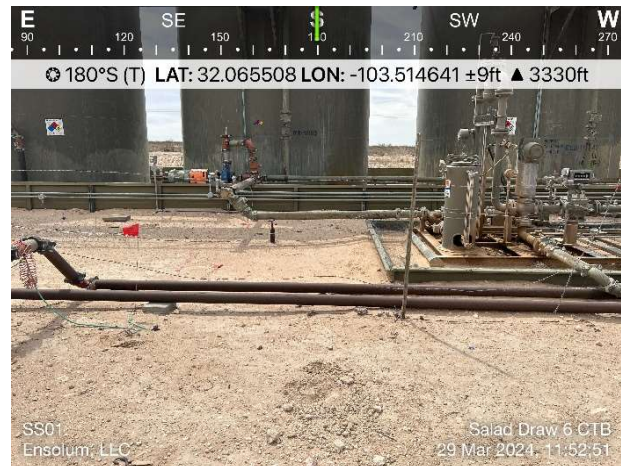


Photograph 9

Date: 02/26/2024

Description: Liner Inspection

View: South

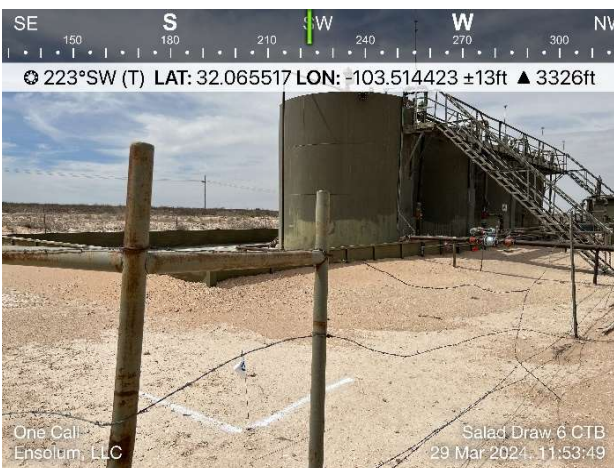


Photograph 10

Date: 03/29/2024

Description: Lateral Delineation Sampling (SS01)

View: South



Photograph 11

Date: 03/29/2024

Description: Lateral Delineation Sampling

View: Southwest



Photograph 12

Date: 03/29/2024

Description: Lateral Delineation Sampling

View: West



Photographic Log

Devon Energy Production Company

Salado Draw 6 Fed 1H CTB

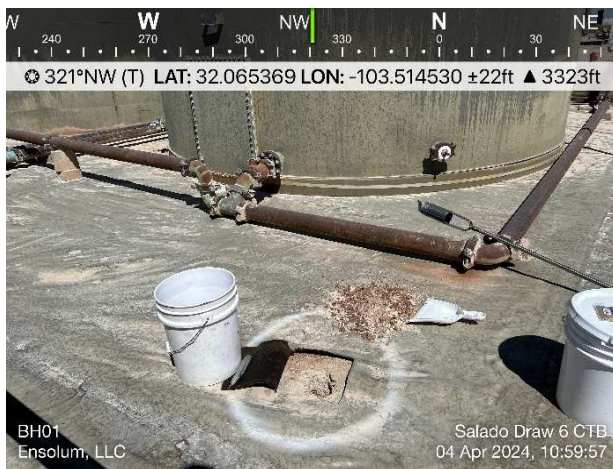
Incident Number: nAPP2321066405



Photograph 13 Date: 03/29/2024
Description: Lateral Delineation Sampling
View: Northeast



Photograph 14 Date: 03/29/2024
Description: Lateral Delineation Sampling
View: Southeast



Photograph 15 Date: 04/04/2024
Description: Vertical Delineation Sampling (BH01)
View: Northwest




Photograph 16 Date: 04/04/2024
Description: Vertical Delineation Sampling (BH01)
View: Northwest



APPENDIX C

Lithologic Soil Sampling Logs

					Sample Name: BH01		Date: 04/04/2024	
					Site Name: Salado Draw 6 CTB			
					Incident Number: nAPP2321066405			
					Job Number: 03A1987118			
LITHOLOGIC / SOIL SAMPLING LOG					Logged By: Israel Estrella		Method: Hand Auger	
Coordinates: 32.065358, -103.514513					Hole Diameter: 3"		Total Depth: 1'	
Comments: Field screening conducted with HACH Chloride Test Strips and PetroFLAG for chloride and total petroleum hydrocarbons (TPH), respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.								
Moisture Content	Chloride (ppm)	TPH (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M	ND	748	N	BH01	0	0	CCHE	caliche, moist, no staining
M	ND	44	N	BH01	1	1	SP-SM	Red sand, moist, no staining
Total Depth @ 1' bgs								

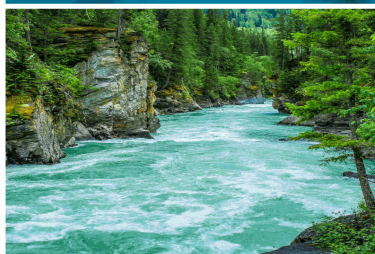


APPENDIX D

Laboratory Analytical Reports & Chain-of-Custody Documentation

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: Salado Draw 6 Fed 1H CTB

Work Order: E402255

Job Number: 01058-0007

Received: 2/28/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/5/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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.
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Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 3/5/24



Ashley Giovengo
6488 7 Rivers Hwy
Artesia, NM 88210

Project Name: Salado Draw 6 Fed 1H CTB
Workorder: E402255
Date Received: 2/28/2024 6:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/28/2024 6:00:00AM, under the Project Name: Salado Draw 6 Fed 1H CTB.

The analytical test results summarized in this report with the Project Name: Salado Draw 6 Fed 1H CTB 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 regarding 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,

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Sample Summary

Devon Energy - Carlsbad	Project Name:	Salado Draw 6 Fed 1H CTB	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	03/05/24 14:16

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS03-0'	E402255-01A	Soil	02/26/24	02/28/24	Glass Jar, 2 oz.
SS04-0'	E402255-02A	Soil	02/26/24	02/28/24	Glass Jar, 2 oz.



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Salado Draw 6 Fed 1H CTB Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 3/5/2024 2:16:25PM
---	--	---------------------------------

SS03-0'
E402255-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RAS		Batch: 2409046	
Benzene	ND	0.0250	1	02/28/24	03/05/24	
Ethylbenzene	ND	0.0250	1	02/28/24	03/05/24	
Toluene	ND	0.0250	1	02/28/24	03/05/24	
o-Xylene	ND	0.0250	1	02/28/24	03/05/24	
p,m-Xylene	ND	0.0500	1	02/28/24	03/05/24	
Total Xylenes	ND	0.0250	1	02/28/24	03/05/24	
Surrogate: Bromofluorobenzene	110 %	70-130		02/28/24	03/05/24	
Surrogate: 1,2-Dichloroethane-d4	95.3 %	70-130		02/28/24	03/05/24	
Surrogate: Toluene-d8	105 %	70-130		02/28/24	03/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS		Batch: 2409046	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/28/24	03/05/24	
Surrogate: Bromofluorobenzene	110 %	70-130		02/28/24	03/05/24	
Surrogate: 1,2-Dichloroethane-d4	95.3 %	70-130		02/28/24	03/05/24	
Surrogate: Toluene-d8	105 %	70-130		02/28/24	03/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2409065	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/29/24	03/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/29/24	03/01/24	
Surrogate: n-Nonane	108 %	50-200		02/29/24	03/01/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2409051	
Chloride	63.6	20.0	1	02/28/24	02/28/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Salado Draw 6 Fed 1H CTB Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 3/5/2024 2:16:25PM
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SS04-0'

E402255-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2409046
Benzene	ND	0.0250	1	02/28/24	03/01/24	
Ethylbenzene	ND	0.0250	1	02/28/24	03/01/24	
Toluene	ND	0.0250	1	02/28/24	03/01/24	
o-Xylene	ND	0.0250	1	02/28/24	03/01/24	
p,m-Xylene	ND	0.0500	1	02/28/24	03/01/24	
Total Xylenes	ND	0.0250	1	02/28/24	03/01/24	
Surrogate: Bromofluorobenzene		112 %	70-130	02/28/24	03/01/24	
Surrogate: 1,2-Dichloroethane-d4		98.8 %	70-130	02/28/24	03/01/24	
Surrogate: Toluene-d8		105 %	70-130	02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2409046
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/28/24	03/01/24	
Surrogate: Bromofluorobenzene		112 %	70-130	02/28/24	03/01/24	
Surrogate: 1,2-Dichloroethane-d4		98.8 %	70-130	02/28/24	03/01/24	
Surrogate: Toluene-d8		105 %	70-130	02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2409065
Diesel Range Organics (C10-C28)	ND	25.0	1	02/29/24	03/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/29/24	03/01/24	
Surrogate: n-Nonane		111 %	50-200	02/29/24	03/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2409051
Chloride	168	20.0	1	02/28/24	02/28/24	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Salado Draw 6 Fed 1H CTB	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	3/5/2024 2:16:25PM

Volatile Organic Compounds by EPA 8260B

Analyst: RAS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2409046-BLK1) Prepared: 02/28/24 Analyzed: 03/02/24

Benzene	ND	0.0250							
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: Bromofluorobenzene	0.556		0.500		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.481		0.500		96.1	70-130			
Surrogate: Toluene-d8	0.529		0.500		106	70-130			

LCS (2409046-BS1) Prepared: 02/28/24 Analyzed: 03/02/24

Benzene	2.60	0.0250	2.50		104	70-130			
Ethylbenzene	2.65	0.0250	2.50		106	70-130			
Toluene	2.54	0.0250	2.50		101	70-130			
o-Xylene	2.62	0.0250	2.50		105	70-130			
p,m-Xylene	5.19	0.0500	5.00		104	70-130			
Total Xylenes	7.81	0.0250	7.50		104	70-130			
Surrogate: Bromofluorobenzene	0.567		0.500		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.465		0.500		93.0	70-130			
Surrogate: Toluene-d8	0.526		0.500		105	70-130			

Matrix Spike (2409046-MS1) Source: E402252-42 Prepared: 02/28/24 Analyzed: 03/02/24

Benzene	2.66	0.0250	2.50	ND	106	48-131			
Ethylbenzene	2.73	0.0250	2.50	ND	109	45-135			
Toluene	2.61	0.0250	2.50	ND	104	48-130			
o-Xylene	2.67	0.0250	2.50	ND	107	43-135			
p,m-Xylene	5.35	0.0500	5.00	ND	107	43-135			
Total Xylenes	8.02	0.0250	7.50	ND	107	43-135			
Surrogate: Bromofluorobenzene	0.554		0.500		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.7	70-130			
Surrogate: Toluene-d8	0.530		0.500		106	70-130			

Matrix Spike Dup (2409046-MSD1) Source: E402252-42 Prepared: 02/28/24 Analyzed: 03/04/24

Benzene	2.58	0.0250	2.50	ND	103	48-131	2.98	23	
Ethylbenzene	2.54	0.0250	2.50	ND	102	45-135	7.07	27	
Toluene	2.53	0.0250	2.50	ND	101	48-130	3.03	24	
o-Xylene	2.63	0.0250	2.50	ND	105	43-135	1.56	27	
p,m-Xylene	5.23	0.0500	5.00	ND	104	43-135	2.31	27	
Total Xylenes	7.86	0.0250	7.50	ND	105	43-135	2.06	27	
Surrogate: Bromofluorobenzene	0.571		0.500		114	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.463		0.500		92.6	70-130			
Surrogate: Toluene-d8	0.530		0.500		106	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Salado Draw 6 Fed 1H CTB	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	3/5/2024 2:16:25PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409046-BLK1) Prepared: 02/28/24 Analyzed: 03/02/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.556		0.500		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.481		0.500		96.1	70-130			
Surrogate: Toluene-d8	0.529		0.500		106	70-130			

LCS (2409046-BS2) Prepared: 02/28/24 Analyzed: 03/04/24

Gasoline Range Organics (C6-C10)	51.2	20.0	50.0		102	70-130			
Surrogate: Bromofluorobenzene	0.569		0.500		114	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.484		0.500		96.7	70-130			
Surrogate: Toluene-d8	0.546		0.500		109	70-130			

Matrix Spike (2409046-MS2) Source: E402252-42 Prepared: 02/28/24 Analyzed: 03/04/24

Gasoline Range Organics (C6-C10)	52.5	20.0	50.0	ND	105	70-130			
Surrogate: Bromofluorobenzene	0.570		0.500		114	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.469		0.500		93.7	70-130			
Surrogate: Toluene-d8	0.541		0.500		108	70-130			

Matrix Spike Dup (2409046-MSD2) Source: E402252-42 Prepared: 02/28/24 Analyzed: 03/05/24

Gasoline Range Organics (C6-C10)	54.7	20.0	50.0	ND	109	70-130	4.16	20	
Surrogate: Bromofluorobenzene	0.559		0.500		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.496		0.500		99.1	70-130			
Surrogate: Toluene-d8	0.574		0.500		115	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Salado Draw 6 Fed 1H CTB	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	3/5/2024 2:16:25PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409065-BLK1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	53.8		50.0		108	50-200			

LCS (2409065-BS1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Diesel Range Organics (C10-C28)	285	25.0	250		114	38-132			
Surrogate: n-Nonane	56.3		50.0		113	50-200			

Matrix Spike (2409065-MS1)				Source: E402254-01		Prepared: 02/29/24 Analyzed: 02/29/24			
Diesel Range Organics (C10-C28)	8770	50.0	250	8390	153	38-132			M4
Surrogate: n-Nonane	50.7		50.0		101	50-200			

Matrix Spike Dup (2409065-MSD1)				Source: E402254-01		Prepared: 02/29/24 Analyzed: 02/29/24			
Diesel Range Organics (C10-C28)	8390	50.0	250	8390	2.83	38-132	4.36	20	M4
Surrogate: n-Nonane	54.2		50.0		108	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Salado Draw 6 Fed 1H CTB	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	3/5/2024 2:16:25PM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2409051-BLK1)					Prepared: 02/28/24 Analyzed: 02/28/24				
Chloride	ND	20.0							
LCS (2409051-BS1)					Prepared: 02/28/24 Analyzed: 02/28/24				
Chloride	249	20.0	250		99.8	90-110			
Matrix Spike (2409051-MS1)					Source: E402248-02		Prepared: 02/28/24 Analyzed: 02/28/24		
Chloride	298	20.0	250	48.0	99.9	80-120			
Matrix Spike Dup (2409051-MSD1)					Source: E402248-02		Prepared: 02/28/24 Analyzed: 02/28/24		
Chloride	300	20.0	250	48.0	101	80-120	0.716	20	

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:	Salado Draw 6 Fed 1H CTB	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	03/05/24 14:16

- M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.
- 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.



Page 1 of 1

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Envirotech Analytical Laboratory

Printed: 2/28/2024 8:03:50AM

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:	02/28/24 06:00	Work Order ID:	E402255
Phone:	(505) 382-1211	Date Logged In:	02/28/24 08:01	Logged In By:	Raina Schwanz
Email:	ashley.giovengo@wescominc.com	Due Date:	03/05/24 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: Courier**Comments/Resolution****Sample Turn Around Time (TAT)**

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the 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
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC 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 non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
Sample ID? Yes
Date/Time Collected? Yes
Collectors name? Yes

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

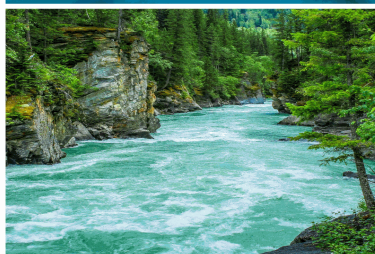
Date



envirotech Inc.

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: Salado Draw 6 Fed 1H CTB

Work Order: E402256

Job Number: 01058-0007

Received: 2/28/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/5/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 3/5/24



Ashley Giovengo
6488 7 Rivers Hwy
Artesia, NM 88210

Project Name: Salado Draw 6 Fed 1H CTB
Workorder: E402256
Date Received: 2/28/2024 6:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/28/2024 6:00:00AM, under the Project Name: Salado Draw 6 Fed 1H CTB.

The analytical test results summarized in this report with the Project Name: Salado Draw 6 Fed 1H CTB 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 regarding 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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QC - Anions by EPA 300.0/9056A	9
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Chain of Custody etc.	11

Sample Summary

Devon Energy - Carlsbad	Project Name:	Salado Draw 6 Fed 1H CTB	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	03/05/24 14:14

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS02-0'	E402256-01A	Soil	02/26/24	02/28/24	Glass Jar, 2 oz.



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Salado Draw 6 Fed 1H CTB Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 3/5/2024 2:14:25PM
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SS02-0'
E402256-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RAS		Batch: 2409046	
Benzene	ND	0.0250	1	02/28/24	03/01/24	
Ethylbenzene	ND	0.0250	1	02/28/24	03/01/24	
Toluene	ND	0.0250	1	02/28/24	03/01/24	
o-Xylene	ND	0.0250	1	02/28/24	03/01/24	
p,m-Xylene	ND	0.0500	1	02/28/24	03/01/24	
Total Xylenes	ND	0.0250	1	02/28/24	03/01/24	
Surrogate: Bromofluorobenzene	106 %	70-130		02/28/24	03/01/24	
Surrogate: 1,2-Dichloroethane-d4	89.1 %	70-130		02/28/24	03/01/24	
Surrogate: Toluene-d8	107 %	70-130		02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS		Batch: 2409046	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/28/24	03/01/24	
Surrogate: Bromofluorobenzene	106 %	70-130		02/28/24	03/01/24	
Surrogate: 1,2-Dichloroethane-d4	89.1 %	70-130		02/28/24	03/01/24	
Surrogate: Toluene-d8	107 %	70-130		02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2409065	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/29/24	03/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/29/24	03/01/24	
Surrogate: n-Nonane	109 %	50-200		02/29/24	03/01/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2409051	
Chloride	369	20.0	1	02/28/24	02/28/24	

QC Summary Data

Devon Energy - Carlsbad	Project Name:	Salado Draw 6 Fed 1H CTB	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	3/5/2024 2:14:25PM

Volatile Organic Compounds by EPA 8260B

Analyst: RAS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2409046-BLK1)Prepared: 02/28/24 Analyzed: 03/02/24

Benzene	ND	0.0250							
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: Bromofluorobenzene	0.556		0.500		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.481		0.500		96.1	70-130			
Surrogate: Toluene-d8	0.529		0.500		106	70-130			

LCS (2409046-BS1)Prepared: 02/28/24 Analyzed: 03/02/24

Benzene	2.60	0.0250	2.50		104	70-130			
Ethylbenzene	2.65	0.0250	2.50		106	70-130			
Toluene	2.54	0.0250	2.50		101	70-130			
o-Xylene	2.62	0.0250	2.50		105	70-130			
p,m-Xylene	5.19	0.0500	5.00		104	70-130			
Total Xylenes	7.81	0.0250	7.50		104	70-130			
Surrogate: Bromofluorobenzene	0.567		0.500		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.465		0.500		93.0	70-130			
Surrogate: Toluene-d8	0.526		0.500		105	70-130			

Matrix Spike (2409046-MS1)Source: E402252-42Prepared: 02/28/24 Analyzed: 03/02/24

Benzene	2.66	0.0250	2.50	ND	106	48-131			
Ethylbenzene	2.73	0.0250	2.50	ND	109	45-135			
Toluene	2.61	0.0250	2.50	ND	104	48-130			
o-Xylene	2.67	0.0250	2.50	ND	107	43-135			
p,m-Xylene	5.35	0.0500	5.00	ND	107	43-135			
Total Xylenes	8.02	0.0250	7.50	ND	107	43-135			
Surrogate: Bromofluorobenzene	0.554		0.500		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.7	70-130			
Surrogate: Toluene-d8	0.530		0.500		106	70-130			

Matrix Spike Dup (2409046-MSD1)Source: E402252-42Prepared: 02/28/24 Analyzed: 03/04/24

Benzene	2.58	0.0250	2.50	ND	103	48-131	2.98	23	
Ethylbenzene	2.54	0.0250	2.50	ND	102	45-135	7.07	27	
Toluene	2.53	0.0250	2.50	ND	101	48-130	3.03	24	
o-Xylene	2.63	0.0250	2.50	ND	105	43-135	1.56	27	
p,m-Xylene	5.23	0.0500	5.00	ND	104	43-135	2.31	27	
Total Xylenes	7.86	0.0250	7.50	ND	105	43-135	2.06	27	
Surrogate: Bromofluorobenzene	0.571		0.500		114	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.463		0.500		92.6	70-130			
Surrogate: Toluene-d8	0.530		0.500		106	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Salado Draw 6 Fed 1H CTB	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	3/5/2024 2:14:25PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409046-BLK1) Prepared: 02/28/24 Analyzed: 03/02/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.556		0.500		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.481		0.500		96.1	70-130			
Surrogate: Toluene-d8	0.529		0.500		106	70-130			

LCS (2409046-BS2) Prepared: 02/28/24 Analyzed: 03/04/24

Gasoline Range Organics (C6-C10)	51.2	20.0	50.0		102	70-130			
Surrogate: Bromofluorobenzene	0.569		0.500		114	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.484		0.500		96.7	70-130			
Surrogate: Toluene-d8	0.546		0.500		109	70-130			

Matrix Spike (2409046-MS2) Source: E402252-42 Prepared: 02/28/24 Analyzed: 03/04/24

Gasoline Range Organics (C6-C10)	52.5	20.0	50.0	ND	105	70-130			
Surrogate: Bromofluorobenzene	0.570		0.500		114	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.469		0.500		93.7	70-130			
Surrogate: Toluene-d8	0.541		0.500		108	70-130			

Matrix Spike Dup (2409046-MSD2) Source: E402252-42 Prepared: 02/28/24 Analyzed: 03/05/24

Gasoline Range Organics (C6-C10)	54.7	20.0	50.0	ND	109	70-130	4.16	20	
Surrogate: Bromofluorobenzene	0.559		0.500		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.496		0.500		99.1	70-130			
Surrogate: Toluene-d8	0.574		0.500		115	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Salado Draw 6 Fed 1H CTB	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	3/5/2024 2:14:25PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409065-BLK1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	53.8		50.0		108	50-200			

LCS (2409065-BS1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Diesel Range Organics (C10-C28)	285	25.0	250		114	38-132			
Surrogate: n-Nonane	56.3		50.0		113	50-200			

Matrix Spike (2409065-MS1)					Source: E402254-01		Prepared: 02/29/24 Analyzed: 02/29/24		
Diesel Range Organics (C10-C28)	8770	50.0	250	8390	153	38-132			M4
Surrogate: n-Nonane	50.7		50.0		101	50-200			

Matrix Spike Dup (2409065-MSD1)					Source: E402254-01		Prepared: 02/29/24 Analyzed: 02/29/24		
Diesel Range Organics (C10-C28)	8390	50.0	250	8390	2.83	38-132	4.36	20	M4
Surrogate: n-Nonane	54.2		50.0		108	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Salado Draw 6 Fed 1H CTB	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	3/5/2024 2:14:25PM

Anions by EPA 300.0/9056A

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
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Blank (2409051-BLK1)					Prepared: 02/28/24 Analyzed: 02/28/24				
Chloride	ND	20.0							
LCS (2409051-BS1)					Prepared: 02/28/24 Analyzed: 02/28/24				
Chloride	249	20.0	250		99.8	90-110			
Matrix Spike (2409051-MS1)					Source: E402248-02		Prepared: 02/28/24 Analyzed: 02/28/24		
Chloride	298	20.0	250	48.0	99.9	80-120			
Matrix Spike Dup (2409051-MSD1)					Source: E402248-02		Prepared: 02/28/24 Analyzed: 02/28/24		
Chloride	300	20.0	250	48.0	101	80-120	0.716	20	

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:	Salado Draw 6 Fed 1H CTB	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	03/05/24 14:14

- M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.
- 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.



[illegible]

Envirotech Analytical Laboratory

Printed: 2/28/2024 8:08:17AM

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:	02/28/24 06:00	Work Order ID:	E402256
Phone:	(505) 382-1211	Date Logged In:	02/28/24 08:06	Logged In By:	Raina Schwanz
Email:	ashley.giovengo@wescominc.com	Due Date:	03/05/24 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the 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
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC 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 non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
Sample ID? Yes
Date/Time Collected? Yes
Collectors name? Yes

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: Salado Draw 6 Fed 1H CTB

Work Order: E404010

Job Number: 01058-0007

Received: 4/2/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
4/9/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 4/9/24

Ashley Giovengo
6488 7 Rivers Hwy
Artesia, NM 88210



Project Name: Salado Draw 6 Fed 1H CTB
Workorder: E404010
Date Received: 4/2/2024 9:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/2/2024 9:00:00AM, under the Project Name: Salado Draw 6 Fed 1H CTB.

The analytical test results summarized in this report with the Project Name: Salado Draw 6 Fed 1H CTB 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 regarding 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

Devon Energy - Carlsbad	Project Name:	Salado Draw 6 Fed 1H CTB	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	04/09/24 09:05

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS01 -0'	E404010-01A	Soil	03/29/24	04/02/24	Glass Jar, 2 oz.



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Salado Draw 6 Fed 1H CTB Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 4/9/2024 9:05:20AM
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SS01 -0'

E404010-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS		Batch: 2414029	
Benzene	ND	0.0250	1	04/02/24	04/05/24	
Ethylbenzene	ND	0.0250	1	04/02/24	04/05/24	
Toluene	ND	0.0250	1	04/02/24	04/05/24	
o-Xylene	ND	0.0250	1	04/02/24	04/05/24	
p,m-Xylene	ND	0.0500	1	04/02/24	04/05/24	
Total Xylenes	ND	0.0250	1	04/02/24	04/05/24	
Surrogate: Bromofluorobenzene		104 %	70-130	04/02/24	04/05/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	04/02/24	04/05/24	
Surrogate: Toluene-d8		101 %	70-130	04/02/24	04/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2414029	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/02/24	04/05/24	
Surrogate: Bromofluorobenzene		104 %	70-130	04/02/24	04/05/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	04/02/24	04/05/24	
Surrogate: Toluene-d8		101 %	70-130	04/02/24	04/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2414055	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/04/24	04/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/04/24	04/05/24	
Surrogate: n-Nonane		123 %	50-200	04/04/24	04/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2414031	
Chloride	34.8	20.0	1	04/02/24	04/02/24	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Salado Draw 6 Fed 1H CTB	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	4/9/2024 9:05:20AM

Volatile Organic Compounds by EPA 8260B

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2414029-BLK1) Prepared: 04/02/24 Analyzed: 04/05/24

Benzene	ND	0.0250							
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: Bromofluorobenzene	0.515		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.507		0.500		101	70-130			
Surrogate: Toluene-d8	0.503		0.500		101	70-130			

LCS (2414029-BS1) Prepared: 04/02/24 Analyzed: 04/05/24

Benzene	2.55	0.0250	2.50		102	70-130			
Ethylbenzene	2.47	0.0250	2.50		98.8	70-130			
Toluene	2.38	0.0250	2.50		95.3	70-130			
o-Xylene	2.29	0.0250	2.50		91.5	70-130			
p,m-Xylene	4.55	0.0500	5.00		91.0	70-130			
Total Xylenes	6.84	0.0250	7.50		91.2	70-130			
Surrogate: Bromofluorobenzene	0.489		0.500		97.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.474		0.500		94.7	70-130			
Surrogate: Toluene-d8	0.496		0.500		99.2	70-130			

Matrix Spike (2414029-MS1) Source: E404011-08 Prepared: 04/02/24 Analyzed: 04/05/24

Benzene	2.46	0.0250	2.50	ND	98.6	48-131			
Ethylbenzene	2.38	0.0250	2.50	ND	95.2	45-135			
Toluene	2.30	0.0250	2.50	ND	92.1	48-130			
o-Xylene	2.25	0.0250	2.50	ND	90.2	43-135			
p,m-Xylene	4.49	0.0500	5.00	ND	89.8	43-135			
Total Xylenes	6.74	0.0250	7.50	ND	89.9	43-135			
Surrogate: Bromofluorobenzene	0.500		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.499		0.500		99.7	70-130			
Surrogate: Toluene-d8	0.504		0.500		101	70-130			

Matrix Spike Dup (2414029-MSD1) Source: E404011-08 Prepared: 04/02/24 Analyzed: 04/05/24

Benzene	2.46	0.0250	2.50	ND	98.2	48-131	0.346	23	
Ethylbenzene	2.37	0.0250	2.50	ND	94.9	45-135	0.400	27	
Toluene	2.31	0.0250	2.50	ND	92.2	48-130	0.174	24	
o-Xylene	2.33	0.0250	2.50	ND	93.1	43-135	3.21	27	
p,m-Xylene	4.62	0.0500	5.00	ND	92.3	43-135	2.75	27	
Total Xylenes	6.94	0.0250	7.50	ND	92.6	43-135	2.90	27	
Surrogate: Bromofluorobenzene	0.492		0.500		98.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.477		0.500		95.3	70-130			
Surrogate: Toluene-d8	0.501		0.500		100	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Salado Draw 6 Fed 1H CTB	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	4/9/2024 9:05:20AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2414029-BLK1) Prepared: 04/02/24 Analyzed: 04/05/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.515		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.507		0.500		101	70-130			
Surrogate: Toluene-d8	0.503		0.500		101	70-130			

LCS (2414029-BS2) Prepared: 04/02/24 Analyzed: 04/05/24

Gasoline Range Organics (C6-C10)	51.0	20.0	50.0		102	70-130			
Surrogate: Bromofluorobenzene	0.515		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.496		0.500		99.2	70-130			
Surrogate: Toluene-d8	0.504		0.500		101	70-130			

Matrix Spike (2414029-MS2) Source: E404011-08 Prepared: 04/02/24 Analyzed: 04/05/24

Gasoline Range Organics (C6-C10)	50.0	20.0	50.0	ND	100	70-130			
Surrogate: Bromofluorobenzene	0.530		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.492		0.500		98.4	70-130			
Surrogate: Toluene-d8	0.502		0.500		100	70-130			

Matrix Spike Dup (2414029-MSD2) Source: E404011-08 Prepared: 04/02/24 Analyzed: 04/05/24

Gasoline Range Organics (C6-C10)	52.1	20.0	50.0	ND	104	70-130	3.96	20	
Surrogate: Bromofluorobenzene	0.525		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.489		0.500		97.8	70-130			
Surrogate: Toluene-d8	0.515		0.500		103	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Salado Draw 6 Fed 1H CTB	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	4/9/2024 9:05:20AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2414055-BLK1) Prepared: 04/04/24 Analyzed: 04/05/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	59.3		50.0		119	50-200			

LCS (2414055-BS1) Prepared: 04/04/24 Analyzed: 04/05/24

Diesel Range Organics (C10-C28)	315	25.0	250		126	38-132			
Surrogate: n-Nonane	61.7		50.0		123	50-200			

Matrix Spike (2414055-MS1) Source: E404011-03 Prepared: 04/04/24 Analyzed: 04/05/24

Diesel Range Organics (C10-C28)	313	25.0	250	ND	125	38-132			
Surrogate: n-Nonane	60.6		50.0		121	50-200			

Matrix Spike Dup (2414055-MSD1) Source: E404011-03 Prepared: 04/04/24 Analyzed: 04/05/24

Diesel Range Organics (C10-C28)	316	25.0	250	ND	126	38-132	1.10	20	
Surrogate: n-Nonane	57.8		50.0		116	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Salado Draw 6 Fed 1H CTB	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	4/9/2024 9:05:20AM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2414031-BLK1)					Prepared: 04/02/24 Analyzed: 04/02/24				
Chloride	ND	20.0							
LCS (2414031-BS1)					Prepared: 04/02/24 Analyzed: 04/02/24				
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2414031-MS1)					Source: E404003-01		Prepared: 04/02/24 Analyzed: 04/02/24		
Chloride	251	20.0	250	ND	100	80-120			
Matrix Spike Dup (2414031-MSD1)					Source: E404003-01		Prepared: 04/02/24 Analyzed: 04/02/24		
Chloride	253	20.0	250	ND	101	80-120	0.599	20	

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:	Salado Draw 6 Fed 1H CTB	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	04/09/24 09:05

- 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.

Project Information

Chain of Custody

Client: Devon		Bill To						Lab Use Only				TAT				EPA Program													
Project: Salado Draw 6 Fed 1H CTB		Attention: Dale Woodall						Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA												
Project Manager: Ashley Giovengo		Address: 205 E Bender Road #150						E404010		01058-0007					x														
Address: 3122 National Parks Hwy		City, State, Zip: Hobbs NM, 88240						Analysis and Method										RCRA											
City, State, Zip: Carlsbad NM, 88220		Phone: (575)748-1838							O/DRO/ORO by		8021	8260	6010	300.0		NM		TX											
Phone: 575-988-0055		Email: dale.woodall@dvn.com																		State									
Email: agiovengo@ensolum.com																				NM	CO	UT	AZ	TX					
Report due by:												x																	







[illegible]

Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, dale.woodall@dv.com, chamilton@ensolum.com, iestrella@ensolum.com

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Sampled by: Israel Estrella

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature) 	Date 4/1/24	Time 9:17	Received by: (Signature) 	Date 4-1-24	Time 4:30	Lab Use Only Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) 	Date 4-1-24	Time 1800	Received by: (Signature) 	Date 4-1-24	Time 1715	
Relinquished by: (Signature) 	Date 4-1-24	Time 2230	Received by: (Signature) 	Date 4/2/24	Time 0900	

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above sample is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



envirotech

Envirotech Analytical Laboratory

Printed: 4/2/2024 2:18:22PM

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:	04/02/24 09:00	Work Order ID:	E404010
Phone:	(505) 382-1211	Date Logged In:	04/02/24 09:51	Logged In By:	Angelina Pineda
Email:	ashley.giovengo@wescominc.com	Due Date:	04/08/24 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: Courier**Comments/Resolution****Sample Turn Around Time (TAT)**

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the 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
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC 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 non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
Sample ID? Yes
Date/Time Collected? Yes
Collectors name? Yes

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

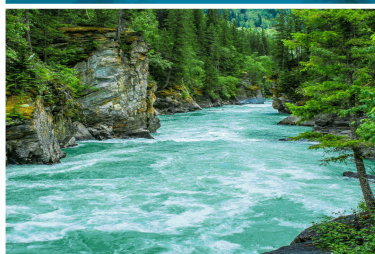
Date



envirotech Inc.

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: Salado Draw 6 CTB

Work Order: E404048

Job Number: 01058-0007

Received: 4/8/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
4/11/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 4/11/24



Ashley Giovengo
6488 7 Rivers Hwy
Artesia, NM 88210

Project Name: Salado Draw 6 CTB
Workorder: E404048
Date Received: 4/8/2024 8:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/8/2024 8:30:00AM, under the Project Name: Salado Draw 6 CTB.

The analytical test results summarized in this report with the Project Name: Salado Draw 6 CTB 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 regarding 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
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Cell: 775-287-1762
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Sample Summary

Devon Energy - Carlsbad	Project Name:	Salado Draw 6 CTB	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	04/11/24 12:55

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH01 -0'	E404048-01A	Soil	04/04/24	04/08/24	Glass Jar, 2 oz.
BH01 -1'	E404048-02A	Soil	04/04/24	04/08/24	Glass Jar, 2 oz.



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Salado Draw 6 CTB Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 4/11/2024 12:55:16PM
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BH01 -0'

E404048-01

Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B		mg/kg	mg/kg	Analyst: RKS		Batch: 2415006
Benzene	ND	0.0250	1	04/08/24	04/08/24	
Ethylbenzene	ND	0.0250	1	04/08/24	04/08/24	
Toluene	ND	0.0250	1	04/08/24	04/08/24	
o-Xylene	ND	0.0250	1	04/08/24	04/08/24	
p,m-Xylene	ND	0.0500	1	04/08/24	04/08/24	
Total Xylenes	ND	0.0250	1	04/08/24	04/08/24	
Surrogate: Bromofluorobenzene		84.8 %	70-130	04/08/24	04/08/24	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130	04/08/24	04/08/24	
Surrogate: Toluene-d8		91.6 %	70-130	04/08/24	04/08/24	
Nonhalogenated Organics by EPA 8015D - GRO		mg/kg	mg/kg	Analyst: RKS		Batch: 2415006
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/08/24	04/08/24	
Surrogate: Bromofluorobenzene		84.8 %	70-130	04/08/24	04/08/24	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130	04/08/24	04/08/24	
Surrogate: Toluene-d8		91.6 %	70-130	04/08/24	04/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO		mg/kg	mg/kg	Analyst: NV		Batch: 2415002
Diesel Range Organics (C10-C28)	599	50.0	2	04/09/24	04/10/24	
Oil Range Organics (C28-C36)	524	100	2	04/09/24	04/10/24	
Surrogate: n-Nonane		111 %	50-200	04/09/24	04/10/24	
Anions by EPA 300.0/9056A		mg/kg	mg/kg	Analyst: DT		Batch: 2415004
Chloride	45.9	20.0	1	04/08/24	04/08/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Salado Draw 6 CTB Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 4/11/2024 12:55:16PM
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BH01 -1'

E404048-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2415006
Benzene	ND	0.0250	1	04/08/24	04/08/24	
Ethylbenzene	ND	0.0250	1	04/08/24	04/08/24	
Toluene	ND	0.0250	1	04/08/24	04/08/24	
o-Xylene	ND	0.0250	1	04/08/24	04/08/24	
p,m-Xylene	ND	0.0500	1	04/08/24	04/08/24	
Total Xylenes	ND	0.0250	1	04/08/24	04/08/24	
Surrogate: Bromofluorobenzene	87.4 %	70-130		04/08/24	04/08/24	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		04/08/24	04/08/24	
Surrogate: Toluene-d8	96.9 %	70-130		04/08/24	04/08/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2415006
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/08/24	04/08/24	
Surrogate: Bromofluorobenzene	87.4 %	70-130		04/08/24	04/08/24	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		04/08/24	04/08/24	
Surrogate: Toluene-d8	96.9 %	70-130		04/08/24	04/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2415002
Diesel Range Organics (C10-C28)	ND	25.0	1	04/09/24	04/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/09/24	04/09/24	
Surrogate: n-Nonane	101 %	50-200		04/09/24	04/09/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2415004
Chloride	ND	20.0	1	04/08/24	04/09/24	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Salado Draw 6 CTB	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	4/11/2024 12:55:16PM

Volatile Organic Compounds by EPA 8260B

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2415006-BLK1) Prepared: 04/08/24 Analyzed: 04/08/24

Benzene	ND	0.0250							
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: Bromofluorobenzene	0.436		0.500		87.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.506		0.500		101	70-130			
Surrogate: Toluene-d8	0.484		0.500		96.8	70-130			

LCS (2415006-BS1) Prepared: 04/08/24 Analyzed: 04/08/24

Benzene	2.38	0.0250	2.50		95.4	70-130			
Ethylbenzene	2.30	0.0250	2.50		92.1	70-130			
Toluene	2.51	0.0250	2.50		101	70-130			
o-Xylene	2.34	0.0250	2.50		93.4	70-130			
p,m-Xylene	4.67	0.0500	5.00		93.5	70-130			
Total Xylenes	7.01	0.0250	7.50		93.4	70-130			
Surrogate: Bromofluorobenzene	0.449		0.500		89.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.527		0.500		105	70-130			
Surrogate: Toluene-d8	0.483		0.500		96.5	70-130			

Matrix Spike (2415006-MS1) Source: E404045-22 Prepared: 04/08/24 Analyzed: 04/08/24

Benzene	2.34	0.0250	2.50	ND	93.7	48-131			
Ethylbenzene	2.30	0.0250	2.50	ND	92.0	45-135			
Toluene	2.34	0.0250	2.50	ND	93.4	48-130			
o-Xylene	2.30	0.0250	2.50	ND	92.1	43-135			
p,m-Xylene	4.64	0.0500	5.00	ND	92.8	43-135			
Total Xylenes	6.94	0.0250	7.50	ND	92.5	43-135			
Surrogate: Bromofluorobenzene	0.449		0.500		89.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.515		0.500		103	70-130			
Surrogate: Toluene-d8	0.461		0.500		92.1	70-130			

Matrix Spike Dup (2415006-MSD1) Source: E404045-22 Prepared: 04/08/24 Analyzed: 04/08/24

Benzene	2.40	0.0250	2.50	ND	95.8	48-131	2.22	23	
Ethylbenzene	2.30	0.0250	2.50	ND	92.1	45-135	0.0652	27	
Toluene	2.44	0.0250	2.50	ND	97.7	48-130	4.46	24	
o-Xylene	2.37	0.0250	2.50	ND	94.9	43-135	3.06	27	
p,m-Xylene	4.81	0.0500	5.00	ND	96.1	43-135	3.54	27	
Total Xylenes	7.18	0.0250	7.50	ND	95.7	43-135	3.38	27	
Surrogate: Bromofluorobenzene	0.460		0.500		91.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.527		0.500		105	70-130			
Surrogate: Toluene-d8	0.476		0.500		95.1	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Salado Draw 6 CTB	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	4/11/2024 12:55:16PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2415006-BLK1) Prepared: 04/08/24 Analyzed: 04/08/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.436		0.500		87.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.506		0.500		101	70-130			
Surrogate: Toluene-d8	0.484		0.500		96.8	70-130			

LCS (2415006-BS2) Prepared: 04/08/24 Analyzed: 04/08/24

Gasoline Range Organics (C6-C10)	51.6	20.0	50.0		103	70-130			
Surrogate: Bromofluorobenzene	0.425		0.500		85.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.466		0.500		93.2	70-130			
Surrogate: Toluene-d8	0.487		0.500		97.4	70-130			

Matrix Spike (2415006-MS2) Source: E404045-22 Prepared: 04/08/24 Analyzed: 04/08/24

Gasoline Range Organics (C6-C10)	51.1	20.0	50.0	ND	102	70-130			
Surrogate: Bromofluorobenzene	0.430		0.500		85.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.518		0.500		104	70-130			
Surrogate: Toluene-d8	0.464		0.500		92.7	70-130			

Matrix Spike Dup (2415006-MSD2) Source: E404045-22 Prepared: 04/08/24 Analyzed: 04/08/24

Gasoline Range Organics (C6-C10)	52.2	20.0	50.0	ND	104	70-130	1.98	20	
Surrogate: Bromofluorobenzene	0.441		0.500		88.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.501		0.500		100	70-130			
Surrogate: Toluene-d8	0.492		0.500		98.3	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Salado Draw 6 CTB	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	4/11/2024 12:55:16PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2415002-BLK1)					Prepared: 04/08/24 Analyzed: 04/09/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	55.5		50.0		111	50-200			

LCS (2415002-BS1)					Prepared: 04/08/24 Analyzed: 04/09/24				
Diesel Range Organics (C10-C28)	287	25.0	250		115	38-132			
Surrogate: n-Nonane	57.2		50.0		114	50-200			

Matrix Spike (2415002-MS1)					Source: E404045-22		Prepared: 04/08/24 Analyzed: 04/09/24		
Diesel Range Organics (C10-C28)	284	25.0	250	ND	113	38-132			
Surrogate: n-Nonane	57.2		50.0		114	50-200			

Matrix Spike Dup (2415002-MSD1)					Source: E404045-22		Prepared: 04/08/24 Analyzed: 04/09/24		
Diesel Range Organics (C10-C28)	282	25.0	250	ND	113	38-132	0.642	20	
Surrogate: n-Nonane	56.9		50.0		114	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Salado Draw 6 CTB	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	4/11/2024 12:55:16PM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2415004-BLK1)					Prepared: 04/08/24 Analyzed: 04/08/24				
Chloride	ND	20.0							
LCS (2415004-BS1)					Prepared: 04/08/24 Analyzed: 04/08/24				
Chloride	258	20.0	250		103	90-110			
Matrix Spike (2415004-MS1)					Source: E404045-24		Prepared: 04/08/24 Analyzed: 04/08/24		
Chloride	315	100	250	ND	126	80-120			M6
Matrix Spike Dup (2415004-MSD1)					Source: E404045-24		Prepared: 04/08/24 Analyzed: 04/08/24		
Chloride	317	100	250	ND	127	80-120	0.736	20	M6

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:	Salado Draw 6 CTB	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	04/11/24 12:55

- M6 Matrix spike recovery has a high bias. The native sample results were below the RL, but appears to have contributed to high MS recoveries.
- 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.

[illegible]

Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, dale.woodall@dv.com, chamilton@ensolum.com, iestrella@ensolum.com

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Sampled by: Israel Estrella

Sampled by: Israel Estrella

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature) <i>[Signature]</i>	Date 4/5/24	Time 10:35	Received by: (Signature) <i>Michelle Gonzales</i>	Date 4-5-24	Time 1035	Lab Use Only Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N
Relinquished by: (Signature) <i>Michelle Gonzales</i>	Date 4-5-24	Time 1632	Received by: (Signature) <i>[Signature]</i>	Date 4-5-24	Time 1730	
Relinquished by: (Signature) <i>[Signature]</i>	Date 4-5-24	Time 2400	Received by: (Signature) <i>[Signature]</i>	Date 4/8/24	Time 8:30	T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above sample is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Envirotech Analytical Laboratory

Printed: 4/8/2024 12:21:23PM

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:	04/08/24 08:30	Work Order ID:	E404048
Phone:	(505) 382-1211	Date Logged In:	04/08/24 11:25	Logged In By:	Angelina Pineda
Email:	ashley.giovengo@wescominc.com	Due Date:	04/12/24 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field,
i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the 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
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Yes
Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling
13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC 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 non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
 - Sample ID? Yes
 - Date/Time Collected? Yes
 - Collectors name? Yes

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.



APPENDIX E

Email Correspondence

From: [Woodall, Dale](#)
To: [Ashley Giovengo](#); [Cole Burton](#); [Chad Hamilton](#); [Israel Estrella](#); [Ethan Haft](#)
Subject: FW: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 316052
Date: Tuesday, February 20, 2024 1:37:13 PM

[**EXTERNAL EMAIL**]

Dale Woodall
Environmental Professional
Hobbs, NM
Office: 575-748-1838
Mobile: 405-318-4697
Dale.Woodall@dvn.com

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Tuesday, February 20, 2024 1:36 PM
To: Woodall, Dale <Dale.Woodall@dvn.com>
Subject: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 316052

To whom it may concern (c/o Dale Woodall for DEVON ENERGY PRODUCTION COMPANY, LP),

The OCD has received the submitted *Notification for Liner Inspection for a Release* (C-141L), for incident ID (n#) nAPP2321066405.

The liner inspection is expected to take place:

When: 02/26/2024 @ 09:00

Where: M-06-26S-34E 200 FSL 875 FWL (32.06577,-103.51471)

Additional Information: Ashley Giovengo
Senior Scientist
575-988-0055
Ensolum, LLC

Additional Instructions: 32.06572, -103.514694

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, liner inspection pursuant to 19.15.29.11.A(5)(a) NMAC is required. 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 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.**

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

Confidentiality Warning: This message and any attachments are intended only for the use of the intended recipient(s), are confidential, and may be privileged. If you are not the intended recipient, you are hereby notified that any review, retransmission, conversion to hard copy, copying, circulation or other use of all or any portion of this message and any attachments is strictly prohibited. If you are not the intended recipient, please notify the sender immediately by return e-mail, and delete this message and any attachments from your system.

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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
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Santa Fe, NM 87505

QUESTIONS

Action 341455

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 341455
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2321066405
Incident Name	NAPP2321066405 SALADO DRAW 6 FED 1H CTB @ 0
Incident Type	Produced Water Release
Incident Status	Deferral Request Received
Incident Facility	[fAPP2123649355] SALADO DRAW 6 FED 1H CTB

Location of Release Source	
Please answer all the questions in this group.	
Site Name	SALADO DRAW 6 FED 1H CTB
Date Release Discovered	07/29/2023
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 Pipeline (Any) Produced Water Released: 21 BBL Recovered: 20 BBL Lost: 1 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)	Pin hole leak formed on 4" water tank load line releasing PW all inside lined containment The leak was stopped with a clamp. Recovered volumes are not available at this time.

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QUESTIONS, Page 2

Action 341455

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:
	6137
	Action Number:
	341455
Action Type:	
[C-141] Deferral Request C-141 (C-141-v-Deferral)	

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	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
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: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dnv.com Date: 05/07/2024
--	--

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QUESTIONS, Page 3

Action 341455

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:
	6137
	Action Number: 341455
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Site Characterization	
<i>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.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (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 ½ and 1 (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	Between 1 and 5 (mi.)
A wetland	Between ½ and 1 (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	
<i>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.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>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.</i>	
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)	168
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	1123
GRO+DRO (EPA SW-846 Method 8015M)	599
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<i>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>	
On what estimated date will the remediation commence	01/01/2070
On what date will (or did) the final sampling or liner inspection occur	02/26/2024
On what date will (or was) the remediation complete(d)	01/01/2070
What is the estimated surface area (in square feet) that will be reclaimed	4184
What is the estimated volume (in cubic yards) that will be reclaimed	155
What is the estimated surface area (in square feet) that will be remediated	4184
What is the estimated volume (in cubic yards) that will be remediated	155
<i>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.</i>	
<i>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.</i>	

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QUESTIONS, Page 4

Action 341455

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 341455
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Remediation Plan (continued)	
<i>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.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	<i>Not answered.</i>
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	<i>Not answered.</i>
(In Situ) Soil Vapor Extraction	<i>Not answered.</i>
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	<i>Not answered.</i>
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	<i>Not answered.</i>
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	<i>Not answered.</i>
Ground Water Abatement pursuant to 19.15.30 NMAC	<i>Not answered.</i>
OTHER (Non-listed remedial process)	<i>Yes</i>
Other Non-listed Remedial Process. Please specify	<i>requesting a deferral</i>
<i>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>	
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: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dmv.com Date: 05/07/2024
<i>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.</i>	

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QUESTIONS, Page 5

Action 341455

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:	6137
	Action Number:	341455
	Action Type:	[C-141] Deferral Request C-141 (C-141-v-Deferral)

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	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction	Yes
Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction	the tank battery and containment would need to be removed and is a major facility deconstruction
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	4184
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	155
Per Paragraph (2) of Subsection C of 19.15.29.12 NMAC if contamination is located in areas immediately under or around production equipment such as production tanks, wellheads and pipelines where remediation could cause a major facility deconstruction, the remediation, restoration and reclamation may be deferred with division written approval until the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first.	
Enter the facility ID (F#) on which this deferral should be granted	SALADO DRAW 6 FED 1H CTB [fAPP2123649355]
Enter the well API (30-) on which this deferral should be granted	Not answered.
Contamination does not cause an imminent risk to human health, the environment, or groundwater	True
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: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dmv.com Date: 05/07/2024

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
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District III
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District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
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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

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QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 341455
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	{Unavailable.}

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	No

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CONDITIONS

Action 341455

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 341455
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Liner inspection with deferral approved. Remediation Due date will be left open until the site has been plugged and abandoned or a major facility deconstruction takes place.	5/22/2024