

DEVON ENERGY
Thistle Unit 22 CTB 2 Unit 185H

Workplan

UL A, Section 22, T23S, R33E
Lea County, New Mexico

NAPP2519126637

July 14, 2025



Prepared for:

Devon Energy
6488 Seven Rivers Hwy
Artesia, NM 88210

By:

Safety & Environmental Solutions, Inc.
1501
Hobbs, New Mexico 88240
(575) 397-0510

Company Contacts

Representative	Company	Telephone	E-mail
Jim Raley	Devon Energy	575-689-7597	jim.raley@devon.com
Leslie Mendenhall	SESI	575-397-0510	lmendenhall@sesi-nm.com

Location

The Thistle Unit 22 CTB 2 Unit 185H is located approximately 57 miles southwest of Hobbs, NM. The legal location for this facility is Unit Letter A, Section 22, Township 23 South and Range 33 East in Lea County, New Mexico. More specifically the latitude and longitude are 32.295136, -103.554495 NAD83.

Background

Incident C-141 received on 07/16/2025 for release on 07/09/2025. The cause of the release was reported as equipment failure: "Leak on 3-phase separator dump spool allowed fluids to be released to separator skid, approx 7 bbls recovered, 1 bbl impacted pad surface by leaking from skid." approximately Produced Water | Released: 8 BBL | Recovered: 7 BBL | Lost: 1 BBL.

Surface and Groundwater

According to the United States Department of Agriculture Natural Resources Conservation Service, the soil in this area is classified as Pyote and Maljamar fine sands, with 0 to 3 percent slopes. These soils are derived from sandy eolian deposits formed on plains and rises. The Pyote series consists of fine sand to fine sandy loam with no restrictive features to a depth of over 80 inches and is classified as well drained with negligible runoff. The Maljamar series includes a petrocalcic horizon at 40–60 inches and also drains well with very low runoff potential. Both soils exhibit low available water supply and are rated as non-hydric. The area lies within Ecological Site R070BD003NM (Loamy Sand). This location is not classified as prime farmland and has a high permeability with limited salinity, low gypsum content, and minimal risk of flooding or ponding.

According to the New Mexico Oil Conservation Division (NMOCD) Oil and Gas Map, there are no surface water features within 3,000 feet of the reported release location. Records from the New Mexico Office of the State Engineer (OSE) indicate that the closest registered Point of Diversion (POD), identified as C-04664-POD1, is located approximately 0.38 miles northwest of the release site at coordinates 32.30251, -103.37444 (SE NW SE, Section 15, Township 23 South, Range 33 East). This well was drilled by Devon Energy on September 7, 2022, to a depth of 55 feet below ground surface (bgs) using a hollow stem auger. No groundwater was encountered during drilling, and the well was classified as a dry hole.

Characterization

Table I Closure Criteria for Soils Impacted by a Release			
Minimum depth below any point within the horizontal boundary of the release to ground water less than 10,000 mg/l TDS	Constituent	Method*	Limit**
≤ 50 feet	Chloride***	EPA 300.0 or SM4500 Cl B	600 mg/kg
	TPH	EPA SW-846	100 mg/kg
	(GRO+DRO+MRO)	Method 8015M	
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg
51 feet-100 feet	Chloride***	EPA 300.0 or SM4500 Cl B	10,000 mg/kg
	TPH	EPA SW-846 Method 8015M	2,500 mg/kg
	(GRO+DRO+MRO)		

Table I			
Closure Criteria for Soils Impacted by a Release			
Minimum depth below any point within the horizontal boundary of the release to ground water less than 10,000 mg/l TDS	Constituent	Method*	Limit**
>100 feet	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg
	Chloride***	EPA 300.0 or SM4500 Cl B	20,000 mg/kg
	TPH	EPA SW-846 Method 8015M	2,500 mg/kg
	(GRO+DRO+MRO)		
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg
*Or other test methods approved by the division.			
**Numerical limits or natural background level, whichever is greater.			
***This applies to releases of produced water or other fluids, which may contain chloride.			
[19.15.29.12 NMAC - N, 8/14/2018]			

WORK PERFORMED

On July 14, 2025, SESI mobilized the site to conduct a delineation investigation. A total of seventeen (17) soil samples were collected at the surface and at six inches bgs. Samples were field-tested for chloride and submitted to Cardinal Laboratories (Lab ID: H254241) under proper chain-of-custody protocols for full analysis of:

- Chloride (SM4500Cl-B)
- DRO/GRO/EXT DRO (EPA 8015M)
- BTEX (EPA 8021B)

Devon Energy Thistle Unit 22 CTB 2 Unit 185H									
Sample Date Collected 07/14/2025									
Cardinal Laboratory: H254241									
Sample ID	Chloride (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethyl benzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	MRO (mg/Kg)	GRO (mg/Kg)	DRO (mg/Kg)
AH-1 @ 6"	8000	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
AH-2 @ 6"	10400	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
AH-3 @ 6"	448	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
AH-4 @ 6"	9730	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
AH-5 @ 6"	10900	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
AH-6 @ 6"	7460	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
AH-7 @ 6"	11300	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
AH-8 @ 6"	9330	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
AH-9 @ 6"	11100	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
AH-10 @ 6"	80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
AH-11 @ 6"	7060	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
AH-12 @ 6"	2920	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
HP-1	96	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
HP-2	112	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
HP-3	64	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
HP-4	80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
HP-5	208	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0

Proposed Remediation Action Plan

Following the delineation investigation conducted on July 14, 2025, SESI determined that the release impacted an area of approximately 3,923 square feet. The site is located in an area with low karst potential, and groundwater is present at a depth greater than 55 feet below ground surface (bgs). Based on these conditions, the applicable remediation standards under NMOCD Table 1 are 10,000 mg/kg for chloride and 2,500 mg/kg for total petroleum hydrocarbons (TPH). Laboratory analytical results indicate that several soil samples, including AH-2, AH-5, AH-7, and AH-9, contained chloride concentrations exceeding 10,000 mg/kg, while all BTEX and hydrocarbon fractions (DRO, GRO, and MRO) were reported below laboratory detection limits.

To address the impacted soils, SESI proposes to conduct excavation using backhoe equipment where accessible, or by hand digging in areas with limited access or near sensitive infrastructure. Excavation will be performed to a depth of approximately one to two feet bgs, or deeper if required, until confirmation samples indicate that vertical delineation meets the applicable closure criteria. All excavated material will be transported under manifest to an NMOCD-approved disposal facility. Due to the presence of existing infrastructure, excavation in certain portions of the affected area is not currently feasible. For these areas, SESI is requesting a deferral of remediation until final pad reclamation is performed at the time of facility abandonment.

Upon completion of excavation activities, confirmation soil samples will be collected from the base and sidewalls of the excavation. These samples will be submitted to Envirotech Laboratories for analysis in accordance with NMOCD-approved methods and Table 1 standards. Once laboratory results confirm that the regulatory closure criteria have been met, the excavated areas will be backfilled with clean, compatible material and restored to the surrounding grade.

A final remediation closure report will be prepared and submitted to the NMOCD for review and approval. This report will include analytical results, photographs, and details of site restoration activities for regulatory review and approval.

Supplemental Documentation

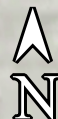
Document 1: Vicinity Map
Document 2: OSE information
Document 3: NMOCD Oil and Gas Map
Document 4: BLM Cave Karst Map
Document 5: FEMA Floodplain Map
Document 6: Photographs
Document 7: Laboratory Analytical Report
Document 8: C-141 initial

Thistle Unit 22 CTB 2 Unit 185H

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Lea County, New Mexico

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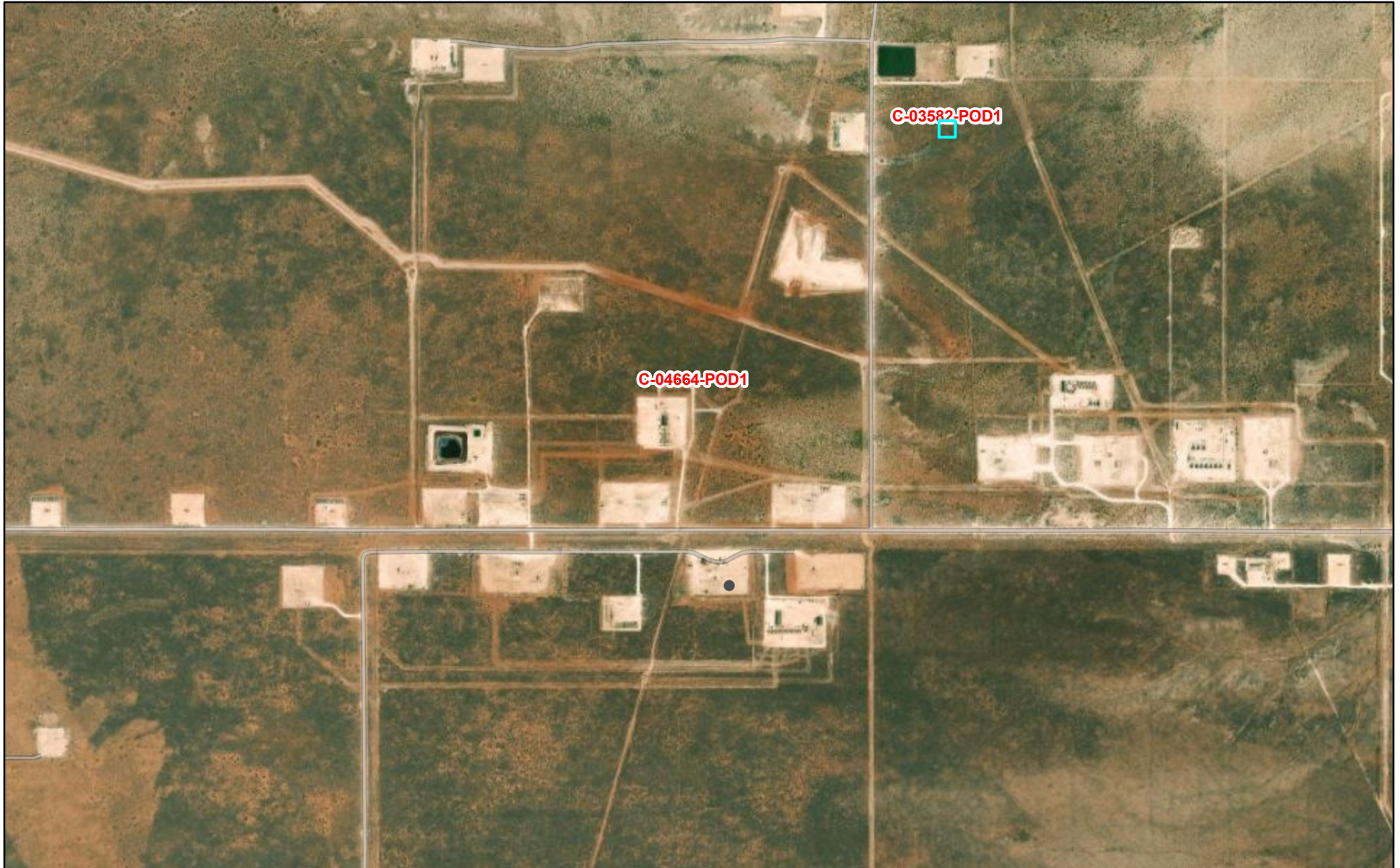
Site Map
Initial Site Assessment and Sampling Locations



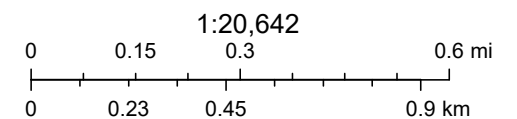
100 ft

Google Earth

OSE POD Location Map



6/19/2025, 12:53:20 PM

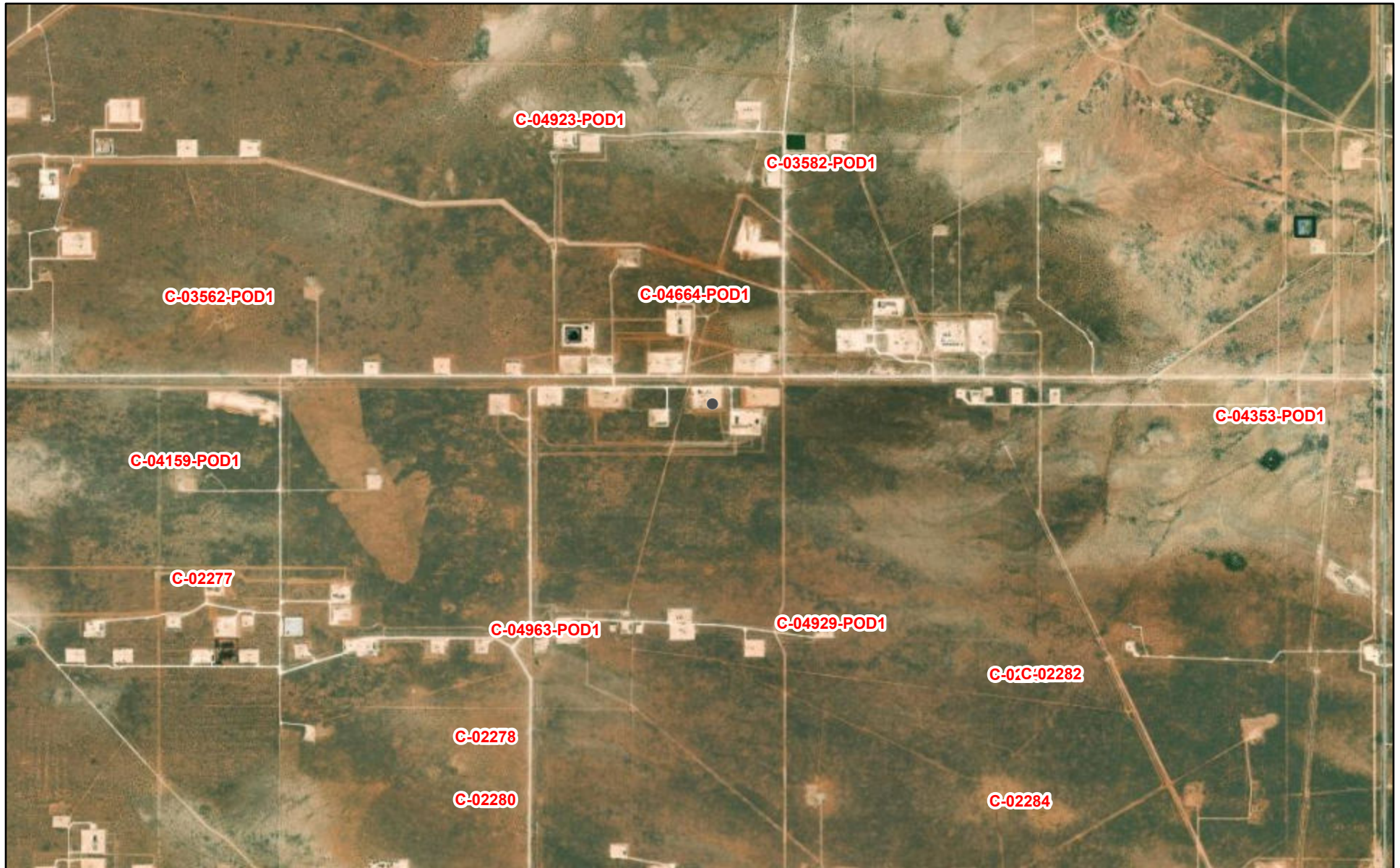


Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User Community, Maxar

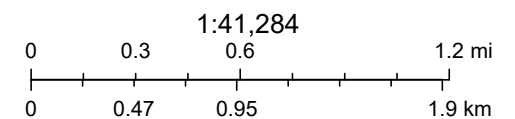
Online web user

This is an unofficial map from the OSE's online application.

OSE POD Location Map



6/19/2025, 12:59:44 PM



Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User Community, Maxar

Online web user

This is an unofficial map from the OSE's online application.



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

STATE ENGINEER OFFICE
ROSARIO, NEW MEXICO

2012 NOV 21 A 10:14

1. GENERAL AND WELL LOCATION	POD NUMBER (WELL NUMBER) C-03582				OSE FILE NUMBER(S) C03582																	
	WELL OWNER NAME(S) Bill Angel				PHONE (OPTIONAL) 575-369-6303																	
	WELL OWNER MAILING ADDRESS PO Box 190				CITY STATE ZIP Rouington nm 88260																	
	<table border="1"> <tr> <th>WELL LOCATION (FROM GPS)</th> <th>DEGREES</th> <th>MINUTES</th> <th>SECONDS</th> <th></th> </tr> <tr> <td>LATITUDE</td> <td>32</td> <td>18</td> <td>34.2</td> <td>N</td> </tr> <tr> <td>LONGITUDE</td> <td>103</td> <td>32</td> <td>57.0</td> <td>W</td> </tr> </table>				WELL LOCATION (FROM GPS)	DEGREES	MINUTES	SECONDS		LATITUDE	32	18	34.2	N	LONGITUDE	103	32	57.0	W	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84		
WELL LOCATION (FROM GPS)	DEGREES	MINUTES	SECONDS																			
LATITUDE	32	18	34.2	N																		
LONGITUDE	103	32	57.0	W																		
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS																						
2. OPTIONAL	(2.5 ACRE) 1/4	(10 ACRE) 1/4	(40 ACRE) 1/4	(160 ACRE) 1/4	SECTION	TOWNSHIP <input type="checkbox"/> NORTH <input type="checkbox"/> SOUTH	RANGE <input 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 WD1682		NAME OF LICENSED DRILLER John Norris			NAME OF WELL DRILLING COMPANY Hunary Horse LLC																
	DRILLING STARTED 10-1-12		DRILLING ENDED 10-18-12		DEPTH OF COMPLETED WELL (FT) 590	BORE HOLE DEPTH (FT) 590	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	590	12"	PVC	glued	6"	3/8	1/8														
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																				
	18	65	47	Sand			4K															
	95	110	13	Sand			4K															
	230	236	6	Sand			4K															
	383	391	8	Sand			4K															
	410	416	6	Sand			4K															
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA N/A						TOTAL ESTIMATED WELL YIELD (GPM)																

FOR OSE INTERNAL USE

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

FILE NUMBER C-3582	POD NUMBER 235.33E.14.114	TRN NUMBER 515767
LOCATION STR	PAGE 1 OF 2	

5. SEAL AND PUMP	TYPE OF PUMP: <input 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: <u>unknown</u>						
	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				

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			<input type="checkbox"/> YES	<input type="checkbox"/> NO
	0	7	7	topsoil	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
	7	18	11	caliche	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
	18	65	47	sand	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
	65	80	15	rock	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
	80	95	15	red clay	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
	95	110	15	sand	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
	110	230	120	red clay	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
	230	236	6	sand	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
	236	310	74	red clay	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
	310	362	52	sand clay	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
	362	383	21	red clay	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
	383	391	8	sand	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
	391	410	19	red clay	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
	410	416	6	sand	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
	416	513	97	red clay	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
	513	520	107	sand	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
	520	590	70	red clay	<input checked="" 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	WELL TEST		METHOD: <input type="checkbox"/> BAILER <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> OTHER - SPECIFY: <u>N/A</u>	
	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:	
	 SIGNATURE OF DRILLER	<u>11-19-12</u> DATE

FOR USE INTERNAL USE

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

FILE NUMBER	C-3582	POD NUMBER	1	TRN NUMBER	56007
LOCATION	235.33E. 14.114				PAGE 2 OF 2



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

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1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD 1 (TW-1)		WELL TAG ID NO. n/a		OSE FILE NO(S). C-4664			
	WELL OWNER NAME(S) Devon Energy				PHONE (OPTIONAL) 575-748-1838			
	WELL OWNER MAILING ADDRESS 6488 7 Rivers Hwy				CITY Artesia	STATE NM	ZIP 88210	
	WELL LOCATION (FROM GPS)	DEGREES 32		MINUTES 18	SECONDS 7.02	N		
		LONGITUDE 103		22	27.99	W		
* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84								
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE SE NW SE Sec.15 T23S R33S NMPM								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1249		NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.		
	DRILLING STARTED 9/7/2022		DRILLING ENDED 9/7/2022		DEPTH OF COMPLETED WELL (FT) 55	BORE HOLE DEPTH (FT) ±55	DEPTH WATER FIRST ENCOUNTERED (FT) n/a	
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) n/a	DATE STATIC MEASURED 9/13/2022	
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Hollow Stem Auger						CHECK HERE IF PITLESS ADAPTER IS INSTALLED <input type="checkbox"/>	
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	55	±6.5	Boring	--	--	--	--
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 01/28/2022)

FILE NO. C-04664	POD NO. 1	TRN NO. 732814
LOCATION 23S. 33E. 1S 414	WELL TAG ID NO.	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 01/28/2022)	
FILE NO. C-64664	POD NO. 1	TRN NO. 732 814	
LOCATION 235. 336. 15 414	WELL TAG ID NO.		PAGE 2 OF 2

Mike A. Hamman, P.E.
State Engineer



Roswell Office
1900 WEST SECOND STREET
ROSWELL, NM 88201

STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER

Trn Nbr: 732814
File Nbr: C 04664
Well File Nbr: C 04664 POD1

Oct. 03, 2022

DALE WOODALL
DEVON ENERGY
6488 7 RIVERS HWY
ARTESIA, NM 88210

Greetings:

The above numbered permit was issued in your name on 08/25/2022.

The Well Record was received in this office on 09/26/2022, stating that it had been completed on 09/07/2022, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 08/25/2023.

If you have any questions, please feel free to contact us.

Sincerely,


Vanessa Clements
(575) 622-6521

drywell



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

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1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD 1 (TW-1)		WELL TAG ID NO. N/A		OSE FILE NO(S). C-4929			
	WELL OWNER NAME(S) Devon Energy Production Company LP				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS 5315 Buena Vista				CITY Carlsbad	STATE NM	ZIP 88220	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 16	SECONDS 59.1	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND		
		LONGITUDE 103	32	54.6	W	* DATUM REQUIRED: WGS 84		
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE Hognose Viper 23 Federal, SE SW SW Sec. 23 T23SR33E, NMPM								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1249		NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.		
	DRILLING STARTED 2/11/25	DRILLING ENDED 2/11/25	DEPTH OF COMPLETED WELL (FT) Temporary Well Material		BORE HOLE DEPTH (FT) ±55	DEPTH WATER FIRST ENCOUNTERED (FT) N/A		
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN *add Centralizer info below <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A	DATE STATIC MEASURED 03/04/2025	
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Hollow Stem Auger					CHECK HERE IF PITLESS ADAPTER IS INSTALLED <input type="checkbox"/>		
	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	0 55		±6.25	Soil Boring	--	--	--	--
3. ANNULAR MATERIAL	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE- RANGE BY INTERVAL *(if using Centralizers for Artesian wells- indicate the spacing below)	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
				N/A				

FOR OSE INTERNAL USE

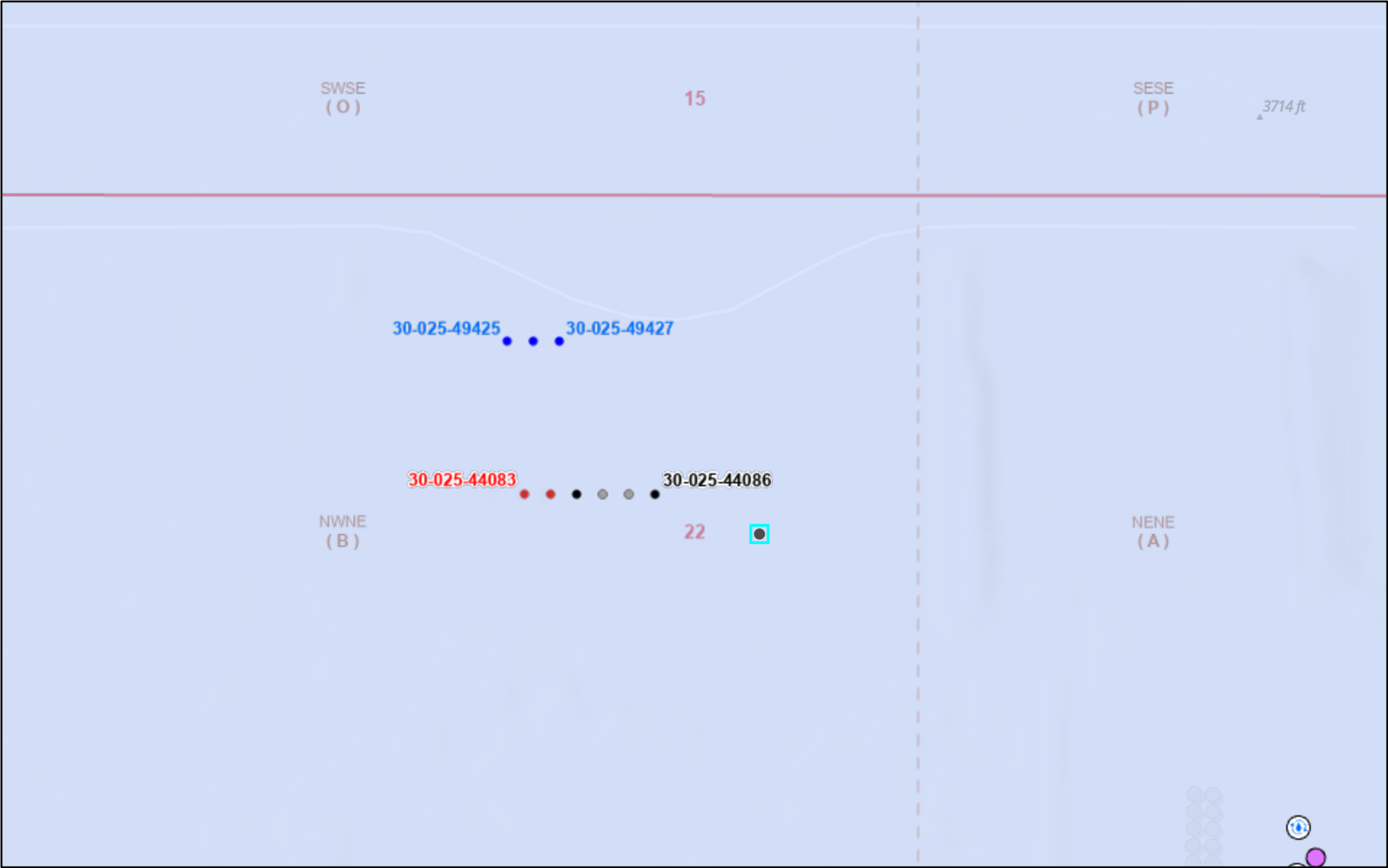
WR-20 WELL RECORD & LOG (Version 09/22/2022)

FILE NO. C-4929	POD NO. 1	TRN NO. 776877
LOCATION 235-33E-23 433	WELL TAG ID NO.	PAGE 1 OF 2

OSE DII ROSWELL NM
11 MAR '25 0410:24

Released to Imaging: 8/18/2025 2:52:35 PM

OCD Well Locations | Karst Potential



6/19/2025, 12:14:28 PM

Wells - Large Scale

• Oil, Active

• Oil, Cancelled

• Oil, New

• Oil, Plugged

Incident Release

Produced Water Release

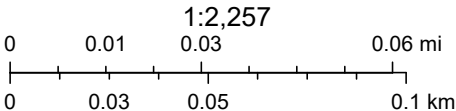
Release Other

Karst Occurrence Potential

Low

PLSS Second Division

PLSS First Division



BLM, OCD, New Mexico Tech, Oil Conservation Division of the New Mexico Energy, Minerals and Natural Resources Department., Sources: Esri,

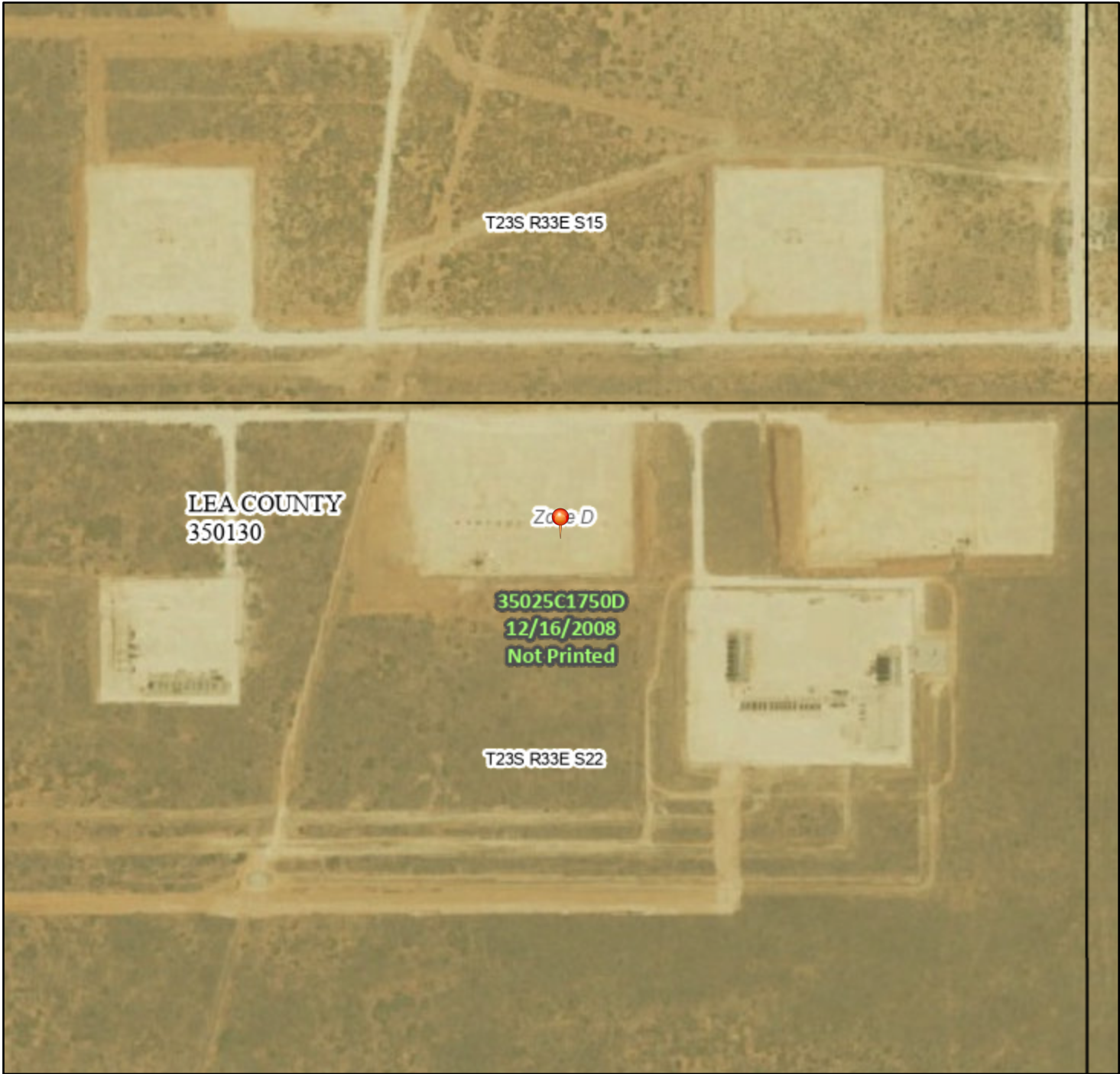
New Mexico Oil Conservation Division

NM OCD Oil and Gas Map. <http://nm-ernrd.maps.arcgis.com/apps/webappviewer/index.html?id=4d017f2306164de29fd2fb9f8f35ca75>: New Mexico Oil Conservation Division

National Flood Hazard Layer FIRMette



103°33'42"W 32°18'2"N



1:6,000

103°33'5"W 32°17'32"N

Released to Imaging: 8/18/2025 2:32:35 PM

Basemap Imagery Source: USGS National Map 2023

Legend

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

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped



The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.



This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 6/18/2025 at 9:53 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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

Thistle Unit 22 185H



Thistle Unit 22 185H



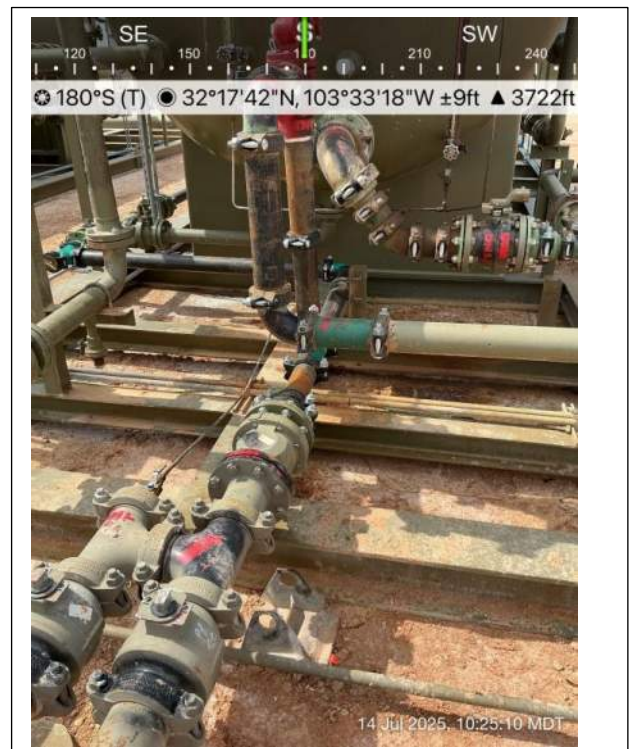
Thistle Unit 22 185 H

July 14, 2025



Thistle Unit 22 185 H

July 14, 2025





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

July 22, 2025

ARMANDO AGUIRRE

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: THISTLE UNIT 22 CBT 2 (185 H UNIT)

Enclosed are the results of analyses for samples received by the laboratory on 07/16/25 11:58.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

Safety & Environmental Solutions
 ARMANDO AGUIRRE
 703 East Clinton
 Hobbs NM, 88240
 Fax To: (575) 393-4388

Received:	07/16/2025	Sampling Date:	07/14/2025
Reported:	07/22/2025	Sampling Type:	Soil
Project Name:	THISTLE UNIT 22 CBT 2 (185 H UNIT)	Sampling Condition:	Cool & Intact
Project Number:	DEV- 25-016	Sample Received By:	Alyssa Parras
Project Location:	THISTLE UNIT 22 CBT 2 (185 UNIT)		

Sample ID: AH- 1 - 6" (H254241-01)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/17/2025	ND	2.11	105	2.00	0.489	
Toluene*	<0.050	0.050	07/17/2025	ND	2.05	103	2.00	0.0639	
Ethylbenzene*	<0.050	0.050	07/17/2025	ND	2.08	104	2.00	1.09	
Total Xylenes*	<0.150	0.150	07/17/2025	ND	6.35	106	6.00	1.19	
Total BTEX	<0.300	0.300	07/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8000	16.0	07/17/2025	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2025	ND	198	99.2	200	1.89	
DRO >C10-C28*	<10.0	10.0	07/17/2025	ND	214	107	200	1.66	
EXT DRO >C28-C36	<10.0	10.0	07/17/2025	ND					

Surrogate: 1-Chlorooctane 79.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 85.7 % 40.6-153

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Safety & Environmental Solutions
 ARMANDO AGUIRRE
 703 East Clinton
 Hobbs NM, 88240
 Fax To: (575) 393-4388

Received: 07/16/2025
 Reported: 07/22/2025
 Project Name: THISTLE UNIT 22 CBT 2 (185 H UNIT)
 Project Number: DEV- 25-016
 Project Location: THISTLE UNIT 22 CBT 2 (185 UNIT)

Sampling Date: 07/14/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: AH- 2 - 6" (H254241-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/17/2025	ND	2.11	105	2.00	0.489		
Toluene*	<0.050	0.050	07/17/2025	ND	2.05	103	2.00	0.0639		
Ethylbenzene*	<0.050	0.050	07/17/2025	ND	2.08	104	2.00	1.09		
Total Xylenes*	<0.150	0.150	07/17/2025	ND	6.35	106	6.00	1.19		
Total BTEX	<0.300	0.300	07/17/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	10400	16.0	07/17/2025	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2025	ND	198	99.2	200	1.89	
DRO >C10-C28*	<10.0	10.0	07/17/2025	ND	214	107	200	1.66	
EXT DRO >C28-C36	<10.0	10.0	07/17/2025	ND					

Surrogate: 1-Chlorooctane 84.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 88.3 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Safety & Environmental Solutions
 ARMANDO AGUIRRE
 703 East Clinton
 Hobbs NM, 88240
 Fax To: (575) 393-4388

Received: 07/16/2025
 Reported: 07/22/2025
 Project Name: THISTLE UNIT 22 CBT 2 (185 H UNIT)
 Project Number: DEV- 25-016
 Project Location: THISTLE UNIT 22 CBT 2 (185 UNIT)

Sampling Date: 07/14/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: AH- 3 - 6" (H254241-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/17/2025	ND	2.11	105	2.00	0.489		
Toluene*	<0.050	0.050	07/17/2025	ND	2.05	103	2.00	0.0639		
Ethylbenzene*	<0.050	0.050	07/17/2025	ND	2.08	104	2.00	1.09		
Total Xylenes*	<0.150	0.150	07/17/2025	ND	6.35	106	6.00	1.19		
Total BTEX	<0.300	0.300	07/17/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	448	16.0	07/17/2025	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2025	ND	198	99.2	200	1.89	
DRO >C10-C28*	<10.0	10.0	07/17/2025	ND	214	107	200	1.66	
EXT DRO >C28-C36	<10.0	10.0	07/17/2025	ND					

Surrogate: 1-Chlorooctane 80.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 83.7 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Safety & Environmental Solutions
 ARMANDO AGUIRRE
 703 East Clinton
 Hobbs NM, 88240
 Fax To: (575) 393-4388

Received:	07/16/2025	Sampling Date:	07/14/2025
Reported:	07/22/2025	Sampling Type:	Soil
Project Name:	THISTLE UNIT 22 CBT 2 (185 H UNIT)	Sampling Condition:	Cool & Intact
Project Number:	DEV- 25-016	Sample Received By:	Alyssa Parras
Project Location:	THISTLE UNIT 22 CBT 2 (185 UNIT)		

Sample ID: AH- 4 - 6" (H254241-04)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/17/2025	ND	2.11	105	2.00	0.489		
Toluene*	<0.050	0.050	07/17/2025	ND	2.05	103	2.00	0.0639		
Ethylbenzene*	<0.050	0.050	07/17/2025	ND	2.08	104	2.00	1.09		
Total Xylenes*	<0.150	0.150	07/17/2025	ND	6.35	106	6.00	1.19		
Total BTEX	<0.300	0.300	07/17/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	9730	16.0	07/17/2025	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2025	ND	198	99.2	200	1.89	
DRO >C10-C28*	<10.0	10.0	07/17/2025	ND	214	107	200	1.66	
EXT DRO >C28-C36	<10.0	10.0	07/17/2025	ND					

Surrogate: 1-Chlorooctane 82.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 84.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Safety & Environmental Solutions
 ARMANDO AGUIRRE
 703 East Clinton
 Hobbs NM, 88240
 Fax To: (575) 393-4388

Received:	07/16/2025	Sampling Date:	07/14/2025
Reported:	07/22/2025	Sampling Type:	Soil
Project Name:	THISTLE UNIT 22 CBT 2 (185 H UNIT)	Sampling Condition:	Cool & Intact
Project Number:	DEV- 25-016	Sample Received By:	Alyssa Parras
Project Location:	THISTLE UNIT 22 CBT 2 (185 UNIT)		

Sample ID: AH- 5 - 6" (H254241-05)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/17/2025	ND	2.11	105	2.00	0.489		
Toluene*	<0.050	0.050	07/17/2025	ND	2.05	103	2.00	0.0639		
Ethylbenzene*	<0.050	0.050	07/17/2025	ND	2.08	104	2.00	1.09		
Total Xylenes*	<0.150	0.150	07/17/2025	ND	6.35	106	6.00	1.19		
Total BTX	<0.300	0.300	07/17/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	10900	16.0	07/17/2025	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2025	ND	198	99.2	200	1.89	
DRO >C10-C28*	<10.0	10.0	07/17/2025	ND	214	107	200	1.66	
EXT DRO >C28-C36	<10.0	10.0	07/17/2025	ND					

Surrogate: 1-Chlorooctane 80.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 82.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Safety & Environmental Solutions
 ARMANDO AGUIRRE
 703 East Clinton
 Hobbs NM, 88240
 Fax To: (575) 393-4388

Received:	07/16/2025	Sampling Date:	07/14/2025
Reported:	07/22/2025	Sampling Type:	Soil
Project Name:	THISTLE UNIT 22 CBT 2 (185 H UNIT)	Sampling Condition:	Cool & Intact
Project Number:	DEV- 25-016	Sample Received By:	Alyssa Parras
Project Location:	THISTLE UNIT 22 CBT 2 (185 UNIT)		

Sample ID: AH- 6 - 6" (H254241-06)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/17/2025	ND	2.11	105	2.00	0.489		
Toluene*	<0.050	0.050	07/17/2025	ND	2.05	103	2.00	0.0639		
Ethylbenzene*	<0.050	0.050	07/17/2025	ND	2.08	104	2.00	1.09		
Total Xylenes*	<0.150	0.150	07/17/2025	ND	6.35	106	6.00	1.19		
Total BTEX	<0.300	0.300	07/17/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7460	16.0	07/17/2025	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2025	ND	198	99.2	200	1.89	
DRO >C10-C28*	<10.0	10.0	07/17/2025	ND	214	107	200	1.66	
EXT DRO >C28-C36	<10.0	10.0	07/17/2025	ND					

Surrogate: 1-Chlorooctane 82.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 85.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Safety & Environmental Solutions
 ARMANDO AGUIRRE
 703 East Clinton
 Hobbs NM, 88240
 Fax To: (575) 393-4388

Received:	07/16/2025	Sampling Date:	07/14/2025
Reported:	07/22/2025	Sampling Type:	Soil
Project Name:	THISTLE UNIT 22 CBT 2 (185 H UNIT)	Sampling Condition:	Cool & Intact
Project Number:	DEV- 25-016	Sample Received By:	Alyssa Parras
Project Location:	THISTLE UNIT 22 CBT 2 (185 UNIT)		

Sample ID: AH- 7 - 6" (H254241-07)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/17/2025	ND	2.11	105	2.00	0.489		
Toluene*	<0.050	0.050	07/17/2025	ND	2.05	103	2.00	0.0639		
Ethylbenzene*	<0.050	0.050	07/17/2025	ND	2.08	104	2.00	1.09		
Total Xylenes*	<0.150	0.150	07/17/2025	ND	6.35	106	6.00	1.19		
Total BTEX	<0.300	0.300	07/17/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	11300	16.0	07/17/2025	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2025	ND	198	99.2	200	1.89	
DRO >C10-C28*	<10.0	10.0	07/17/2025	ND	214	107	200	1.66	
EXT DRO >C28-C36	<10.0	10.0	07/17/2025	ND					

Surrogate: 1-Chlorooctane 81.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 84.8 % 40.6-153

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Analytical Results For:

Safety & Environmental Solutions
 ARMANDO AGUIRRE
 703 East Clinton
 Hobbs NM, 88240
 Fax To: (575) 393-4388

Received:	07/16/2025	Sampling Date:	07/14/2025
Reported:	07/22/2025	Sampling Type:	Soil
Project Name:	THISTLE UNIT 22 CBT 2 (185 H UNIT)	Sampling Condition:	Cool & Intact
Project Number:	DEV- 25-016	Sample Received By:	Alyssa Parras
Project Location:	THISTLE UNIT 22 CBT 2 (185 UNIT)		

Sample ID: AH- 8 - 6" (H254241-08)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/17/2025	ND	2.11	105	2.00	0.489		
Toluene*	<0.050	0.050	07/17/2025	ND	2.05	103	2.00	0.0639		
Ethylbenzene*	<0.050	0.050	07/17/2025	ND	2.08	104	2.00	1.09		
Total Xylenes*	<0.150	0.150	07/17/2025	ND	6.35	106	6.00	1.19		
Total BTEX	<0.300	0.300	07/17/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	9330	16.0	07/17/2025	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2025	ND	198	99.2	200	1.89	
DRO >C10-C28*	<10.0	10.0	07/17/2025	ND	214	107	200	1.66	
EXT DRO >C28-C36	<10.0	10.0	07/17/2025	ND					

Surrogate: 1-Chlorooctane 77.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 80.0 % 40.6-153

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Received:	07/16/2025	Sampling Date:	07/14/2025
Reported:	07/22/2025	Sampling Type:	Soil
Project Name:	THISTLE UNIT 22 CBT 2 (185 H UNIT)	Sampling Condition:	Cool & Intact
Project Number:	DEV- 25-016	Sample Received By:	Alyssa Parras
Project Location:	THISTLE UNIT 22 CBT 2 (185 UNIT)		

Sample ID: AH- 9 - 6" (H254241-09)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/17/2025	ND	2.11	105	2.00	0.489		
Toluene*	<0.050	0.050	07/17/2025	ND	2.05	103	2.00	0.0639		
Ethylbenzene*	<0.050	0.050	07/17/2025	ND	2.08	104	2.00	1.09		
Total Xylenes*	<0.150	0.150	07/17/2025	ND	6.35	106	6.00	1.19		
Total BTEX	<0.300	0.300	07/17/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	11100	16.0	07/17/2025	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/17/2025	ND	198	99.2	200	1.89		
DRO >C10-C28*	<10.0	10.0	07/17/2025	ND	214	107	200	1.66		
EXT DRO >C28-C36	<10.0	10.0	07/17/2025	ND						

Surrogate: 1-Chlorooctane 78.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 80.9 % 40.6-153

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Received:	07/16/2025	Sampling Date:	07/14/2025
Reported:	07/22/2025	Sampling Type:	Soil
Project Name:	THISTLE UNIT 22 CBT 2 (185 H UNIT)	Sampling Condition:	Cool & Intact
Project Number:	DEV- 25-016	Sample Received By:	Alyssa Parras
Project Location:	THISTLE UNIT 22 CBT 2 (185 UNIT)		

Sample ID: AH- 10 - 6" (H254241-10)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/17/2025	ND	2.11	105	2.00	0.489		
Toluene*	<0.050	0.050	07/17/2025	ND	2.05	103	2.00	0.0639		
Ethylbenzene*	<0.050	0.050	07/17/2025	ND	2.08	104	2.00	1.09		
Total Xylenes*	<0.150	0.150	07/17/2025	ND	6.35	106	6.00	1.19		
Total BTEX	<0.300	0.300	07/17/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	07/17/2025	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2025	ND	198	99.2	200	1.89	
DRO >C10-C28*	<10.0	10.0	07/17/2025	ND	214	107	200	1.66	
EXT DRO >C28-C36	<10.0	10.0	07/17/2025	ND					

Surrogate: 1-Chlorooctane 83.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 86.5 % 40.6-153

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 Hobbs NM, 88240
 Fax To: (575) 393-4388

Received:	07/16/2025	Sampling Date:	07/14/2025
Reported:	07/22/2025	Sampling Type:	Soil
Project Name:	THISTLE UNIT 22 CBT 2 (185 H UNIT)	Sampling Condition:	Cool & Intact
Project Number:	DEV- 25-016	Sample Received By:	Alyssa Parras
Project Location:	THISTLE UNIT 22 CBT 2 (185 UNIT)		

Sample ID: AH- 11 - 6" (H254241-11)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/17/2025	ND	2.11	105	2.00	0.489		
Toluene*	<0.050	0.050	07/17/2025	ND	2.05	103	2.00	0.0639		
Ethylbenzene*	<0.050	0.050	07/17/2025	ND	2.08	104	2.00	1.09		
Total Xylenes*	<0.150	0.150	07/17/2025	ND	6.35	106	6.00	1.19		
Total BTEX	<0.300	0.300	07/17/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7060	16.0	07/17/2025	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2025	ND	198	99.2	200	1.89	
DRO >C10-C28*	<10.0	10.0	07/17/2025	ND	214	107	200	1.66	
EXT DRO >C28-C36	<10.0	10.0	07/17/2025	ND					

Surrogate: 1-Chlorooctane 74.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 77.9 % 40.6-153

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 Hobbs NM, 88240
 Fax To: (575) 393-4388

Received:	07/16/2025	Sampling Date:	07/14/2025
Reported:	07/22/2025	Sampling Type:	Soil
Project Name:	THISTLE UNIT 22 CBT 2 (185 H UNIT)	Sampling Condition:	Cool & Intact
Project Number:	DEV- 25-016	Sample Received By:	Alyssa Parras
Project Location:	THISTLE UNIT 22 CBT 2 (185 UNIT)		

Sample ID: AH- 12 - 6" (H254241-12)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/17/2025	ND	2.15	107	2.00	2.23		
Toluene*	<0.050	0.050	07/17/2025	ND	2.06	103	2.00	0.348		
Ethylbenzene*	<0.050	0.050	07/17/2025	ND	2.12	106	2.00	1.06		
Total Xylenes*	<0.150	0.150	07/17/2025	ND	6.78	113	6.00	0.157		
Total BTEX	<0.300	0.300	07/17/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2920	16.0	07/17/2025	ND	432	108	400	3.64	QM-07	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2025	ND	198	99.2	200	1.89	
DRO >C10-C28*	<10.0	10.0	07/17/2025	ND	214	107	200	1.66	
EXT DRO >C28-C36	<10.0	10.0	07/17/2025	ND					

Surrogate: 1-Chlorooctane 73.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 75.9 % 40.6-153

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 Hobbs NM, 88240
 Fax To: (575) 393-4388

Received:	07/16/2025	Sampling Date:	07/14/2025
Reported:	07/22/2025	Sampling Type:	Soil
Project Name:	THISTLE UNIT 22 CBT 2 (185 H UNIT)	Sampling Condition:	Cool & Intact
Project Number:	DEV- 25-016	Sample Received By:	Alyssa Parras
Project Location:	THISTLE UNIT 22 CBT 2 (185 UNIT)		

Sample ID: HP- 1 - 6" (H254241-13)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/17/2025	ND	2.15	107	2.00	2.23		
Toluene*	<0.050	0.050	07/17/2025	ND	2.06	103	2.00	0.348		
Ethylbenzene*	<0.050	0.050	07/17/2025	ND	2.12	106	2.00	1.06		
Total Xylenes*	<0.150	0.150	07/17/2025	ND	6.78	113	6.00	0.157		
Total BTEx	<0.300	0.300	07/17/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	07/17/2025	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2025	ND	198	99.2	200	1.89	
DRO >C10-C28*	<10.0	10.0	07/17/2025	ND	214	107	200	1.66	
EXT DRO >C28-C36	<10.0	10.0	07/17/2025	ND					

Surrogate: 1-Chlorooctane 82.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 84.5 % 40.6-153

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Received: 07/16/2025
 Reported: 07/22/2025
 Project Name: THISTLE UNIT 22 CBT 2 (185 H UNIT)
 Project Number: DEV- 25-016
 Project Location: THISTLE UNIT 22 CBT 2 (185 UNIT)

Sampling Date: 07/14/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: HP- 2 - 6" (H254241-14)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/17/2025	ND	2.15	107	2.00	2.23		
Toluene*	<0.050	0.050	07/17/2025	ND	2.06	103	2.00	0.348		
Ethylbenzene*	<0.050	0.050	07/17/2025	ND	2.12	106	2.00	1.06		
Total Xylenes*	<0.150	0.150	07/17/2025	ND	6.78	113	6.00	0.157		
Total BTEX	<0.300	0.300	07/17/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	07/17/2025	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2025	ND	198	99.2	200	1.89	
DRO >C10-C28*	<10.0	10.0	07/17/2025	ND	214	107	200	1.66	
EXT DRO >C28-C36	<10.0	10.0	07/17/2025	ND					

Surrogate: 1-Chlorooctane 72.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 74.8 % 40.6-153

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Received:	07/16/2025	Sampling Date:	07/14/2025
Reported:	07/22/2025	Sampling Type:	Soil
Project Name:	THISTLE UNIT 22 CBT 2 (185 H UNIT)	Sampling Condition:	Cool & Intact
Project Number:	DEV- 25-016	Sample Received By:	Alyssa Parras
Project Location:	THISTLE UNIT 22 CBT 2 (185 UNIT)		

Sample ID: HP- 3 - SS (H254241-15)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/17/2025	ND	2.15	107	2.00	2.23		
Toluene*	<0.050	0.050	07/17/2025	ND	2.06	103	2.00	0.348		
Ethylbenzene*	<0.050	0.050	07/17/2025	ND	2.12	106	2.00	1.06		
Total Xylenes*	<0.150	0.150	07/17/2025	ND	6.78	113	6.00	0.157		
Total BTEX	<0.300	0.300	07/17/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	07/17/2025	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2025	ND	198	99.2	200	1.89	
DRO >C10-C28*	<10.0	10.0	07/17/2025	ND	214	107	200	1.66	
EXT DRO >C28-C36	<10.0	10.0	07/17/2025	ND					

Surrogate: 1-Chlorooctane 76.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 77.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Safety & Environmental Solutions
 ARMANDO AGUIRRE
 703 East Clinton
 Hobbs NM, 88240
 Fax To: (575) 393-4388

Received:	07/16/2025	Sampling Date:	07/14/2025
Reported:	07/22/2025	Sampling Type:	Soil
Project Name:	THISTLE UNIT 22 CBT 2 (185 H UNIT)	Sampling Condition:	Cool & Intact
Project Number:	DEV- 25-016	Sample Received By:	Alyssa Parras
Project Location:	THISTLE UNIT 22 CBT 2 (185 UNIT)		

Sample ID: HP- 4 - SS (H254241-16)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/17/2025	ND	2.15	107	2.00	2.23	
Toluene*	<0.050	0.050	07/17/2025	ND	2.06	103	2.00	0.348	
Ethylbenzene*	<0.050	0.050	07/17/2025	ND	2.12	106	2.00	1.06	
Total Xylenes*	<0.150	0.150	07/17/2025	ND	6.78	113	6.00	0.157	
Total BTEX	<0.300	0.300	07/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	07/17/2025	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2025	ND	198	99.2	200	1.89	
DRO >C10-C28*	<10.0	10.0	07/17/2025	ND	214	107	200	1.66	
EXT DRO >C28-C36	<10.0	10.0	07/17/2025	ND					

Surrogate: 1-Chlorooctane 70.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 71.8 % 40.6-153

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Analytical Results For:

Safety & Environmental Solutions
 ARMANDO AGUIRRE
 703 East Clinton
 Hobbs NM, 88240
 Fax To: (575) 393-4388

Received:	07/16/2025	Sampling Date:	07/14/2025
Reported:	07/22/2025	Sampling Type:	Soil
Project Name:	THISTLE UNIT 22 CBT 2 (185 H UNIT)	Sampling Condition:	Cool & Intact
Project Number:	DEV- 25-016	Sample Received By:	Alyssa Parras
Project Location:	THISTLE UNIT 22 CBT 2 (185 UNIT)		

Sample ID: HP- 5 - SS (H254241-17)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/17/2025	ND	2.15	107	2.00	2.23		
Toluene*	<0.050	0.050	07/17/2025	ND	2.06	103	2.00	0.348		
Ethylbenzene*	<0.050	0.050	07/17/2025	ND	2.12	106	2.00	1.06		
Total Xylenes*	<0.150	0.150	07/17/2025	ND	6.78	113	6.00	0.157		
Total BTEX	<0.300	0.300	07/17/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	07/17/2025	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2025	ND	198	99.2	200	1.89	
DRO >C10-C28*	<10.0	10.0	07/17/2025	ND	214	107	200	1.66	
EXT DRO >C28-C36	<10.0	10.0	07/17/2025	ND					

Surrogate: 1-Chlorooctane 72.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 73.9 % 40.6-153

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Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager



子

Spill Volume Calculations**Free Standing Fluid Volume****How do you want to enter area?****Total area from app**Area from app (ft²)

960.00

Depth of fluid

0.50 in

Number of Tanks in Fluid Affected Area (if any):

0

Tank Diameter (if needed):

0.0 ft

Volume of Standing Fluid

7.12 bbl

Contaminated Soil Calculations**How do you want to enter area?****Total area from app**Area from app (ft²)

1098.00

Depth of impacted soil

0.15 in

Soil Type

Sand

Spilled Material

Produced Water

Soil Saturation

Moist - some color change; little to no moisture left on hands

Volume of Spill In Soil

0.60

bbls

Total Spill Volume

7.72

bbls

Facility or Well Name	THISTLE 185H
API (If applicable)	
Lat/Long	LAT N 32' 17' 43.18" LONG W 103' 33' 16.52"
M3#	

Please Include the following with report: Picture of Lease Sign - Pictures of Spill - Screen Shot of Volume Calculations

Date and Time of Incident	7-9-25 7:30AM
Description of Incident	leak on 3-phase water dump spool

Immediate Actions	isolate and shut in well
-------------------	--------------------------

	Released (Bbls)	Recovered (Bbls)
Fluid Type		
Oil		
Produced Water	7.72	7
Gas		
Other		

OCD Permitting

Home Searches Incidents Incident Details

NAPP2519126637 THISTLE UNIT 22 CTB 2 @ 0

General Incident Information

Site Name:

THISTLE UNIT 22 CTB 2

Well:

Facility:

[APP2123650155] THISTLE UNIT 22 CTB 2

Operator:

[6137] DEVON ENERGY PRODUCTION COMPANY, LP

Status:

Initial C-141 Approved, Pending submission of Site Characterization / Remediation Plan OR Remediation Closure Report from the operator

Type:

Produced Water Release

Severity:

Minor

Surface Owner:

State

County:

Lea (25)

District:

Hobbs

Incident Location:

A-22-23S-33E 438 FNL 734 FEL

Lat/Long:

32.295136,-103.554495 NAD83

Directions:

Notes

Source of Referral:

Industry Rep

Action / Escalation:

Resulted In Fire:

☐

Resulted In Injury:

☐

Endangered Public Health:

☐

Will or Has Reached Watercourse:

☐

Fresh Water Contamination:

☐

Property Or Environmental Damage:

☐

Contact Details

Contact Name:

Contact Title:

Event Dates

Date of Discovery:

07/09/2025

Initial C-141 Report Due:

7/24/2025

Remediation Closure Report Due:

10/07/2025

Incident Dates

Type	Action	Received	Denied	Approved
Initial C-141 Report	[484802]	07/15/2025		07/16/2025
Notification	[483518]	07/10/2025		07/10/2025

Compositional Analysis of Vented and/or Flared Natural Gas

No Compositional Analysis Found

Incident Materials

Cause	Source	Material	Volume				Units
			Unk.	Released	Recovered	Lost	
Equipment Failure	Dump Line	Produced Water	<input type="checkbox"/>	8	7	1	BBL
The concentration of dissolved chloride in the produced water >10,000 mg/l:			<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No			
Cause of Release OR Additional Details provided for materials released: Leak on 3-phase seperator dump spool allowed fluids to be released to seperator skid, approx 7 bbls recovered, 1 bbl impacted pad surface by leaking from skid.							

Incident Events

Date	Detail
07/16/2025	The (07/16/2025, C-141) application [484802] was accepted by OCD. The operator was emailed with details of this event.
07/16/2025	An application [484802] was submitted to OCD for review. It was submitted, indicating that it was an: [C-141] Application for administrative approval of a release notification and corrective action The operator was emailed confirmation of this event.

Quick Links

- General Incident Information
- Materials
- Events
- Orders
- Action Status

Associated Images

- Facility Files (50)
- Incident Files (2)

New Searches

- New Facility Search
- New Incident Search
- New Operator Search
- New Pit Search
- New Spill Search
- New Tank Search
- New Well Search

07/10/2025	New incident created by the operator, upon the submission of notification of release.
07/09/2025	Release discovered by the operator.

Incident Severity

Major release as defined by 19.15.29.7(A) NMAC?

☐ Yes ☒ No

Incident Corrective Actions

Initial Response

☒ The source of the release has been stopped.

☒ The impacted area has been secured to protect human health and the environment.

☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

☒ All free liquids and recoverable materials have been removed and managed appropriately.

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

No site characterization data was found for this incident.

Remediation Plan

Have the lateral and vertical extents of contamination been fully delineated?

☐ Yes ☒ No

On what estimated date will the remediation commence?

On what date will (or did) the final sampling occur?

On what date will (or was) the remediation complete(d)

Release is indicated as not yet fully delineated. Any Deferral Requests received may not be granted for this incident.

No remediation closure report data was found for this incident.

No reclamation report data was found for this incident.

No re-vegetation report data was found for this incident.

Orders

No Orders Found

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

QUESTIONS

Action 494576

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 494576
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2519126637
Incident Name	NAPP2519126637 THISTLE UNIT 22 CTB 2 @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received
Incident Facility	[fAPP2123650155] THISTLE UNIT 22 CTB 2

Location of Release Source*Please answer all the questions in this group.*

Site Name	THISTLE UNIT 22 CTB 2
Date Release Discovered	07/09/2025
Surface Owner	State

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 Dump Line Produced Water Released: 8 BBL Recovered: 7 BBL Lost: 1 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
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)	Leak on 3-phase separator dump spool allowed fluids to be released to separator skid, approx 7 bbls recovered, 1 bbl impacted pad surface by leaking from skid.

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QUESTIONS, Page 2

Action 494576

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 494576
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

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: James Raley Title: EHS Professional Email: jim.raley@dvni.com Date: 08/12/2025
--	---

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QUESTIONS, Page 3

Action 494576

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 494576
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

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 51 and 75 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between ½ and 1 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between ½ and 1 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Greater than 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between 1 and 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)	11300
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0
GRO+DRO (EPA SW-846 Method 8015M)	0
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	08/20/2025
On what date will (or did) the final sampling or liner inspection occur	09/01/2025
On what date will (or was) the remediation complete(d)	10/01/2025
What is the estimated surface area (in square feet) that will be reclaimed	3923
What is the estimated volume (in cubic yards) that will be reclaimed	290
What is the estimated surface area (in square feet) that will be remediated	3923
What is the estimated volume (in cubic yards) that will be remediated	290
<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 494576

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 494576
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

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.)	Yes
Which OCD approved facility will be used for off-site disposal	HALFWAY DISPOSAL AND LANDFILL [FEEM0112334510]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<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: James Raley Title: EHS Professional Email: jim.raley@dv.com Date: 08/12/2025
<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 494576

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 494576
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

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

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QUESTIONS, Page 6

Action 494576

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 494576
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

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

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

CONDITIONS

Action 494576

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 494576
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	The Site Characterization and Assessment Plan is approved with the following conditions: The OCD notes that AH-2 @ 6", AH-5 @ 6", AH-7 @ 6" and AH-9 @ 6" have not been fully delineated vertically and still exceed the Table 1 standards for chloride in 19.15.29 NMAC. These must be addressed while excavation activities are taking place. A deferral for leaving on-pad contamination in place cannot be approved until delineation has been clearly defined both horizontally as well as vertically below each delineation sample point. Only when specific sampling points have been fully delineated can a deferral request be considered.	8/18/2025
michael.buchanan	The OCD notes that south of the tank battery on-site there appears to be discoloration or surface staining. Please explain what this is and if it is part of the release.	8/18/2025