

EXOTIC CAT 5 CTB 2

9/4/2024

OCD INCIDENT # nAPP2424855704

Spills In Lined Containment	
Measurements Of Standing Fluid	
Length(Ft)	257.947
Width(Ft)	257.947
Depth(in.)	0.125
Total Capacity without tank displacements (bbls)	123.44
No. of 500 bbl Tanks In Standing Fluid	
No. of Other Tanks In Standing Fluid	
OD Of Other Tanks In Standing Fluid(feet)	
Total Volume of standing fluid accounting for tank displacement.	123.44

From: [Buchanan, Michael, EMNRD](#)
To: [Woodall, Dale](#); [CFO_Spill, BLM_NM](#); [Bratcher, Michael, EMNRD](#); [Velez, Nelson, EMNRD](#); [Hamlet, Robert, EMNRD](#); [Romero, Rosa, EMNRD](#)
Subject: RE: [EXTERNAL] Major release, Devon Energy, 9/4/2024; EXOTIC CAT 5 CTB 2; 123 bbls Produced water in lined containment
Date: Wednesday, September 4, 2024 2:47:29 PM

Good afternoon, Dale

Thank you for your notification on the incident. Please include a copy of this correspondence as part of the record and include any volume calculations, if they are available, for determining the size of the release.

Regards,

From: Woodall, Dale <Dale.Woodall@dvn.com>
Sent: Wednesday, September 4, 2024 2:10 PM
To: CFO_Spill, BLM_NM <BLM_NM_CFO_Spill@blm.gov>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>; Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>; Romero, Rosa, EMNRD <RosaM.Romero@emnrd.nm.gov>
Subject: [EXTERNAL] Major release, Devon Energy, 9/4/2024; EXOTIC CAT 5 CTB 2; 123 bbls Produced water in lined containment

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

There was a 123 bbl (estimate) produced water release at the EXOTIC CAT 5 CTB 2 on 9/4/2024. We are still waiting on confirmation of recovered volumes. The spill was isolated to a lined containment beneath the separators.

A NOR will be completed shortly.

Please let me know if you have any questions.

Dale Woodall
Environmental Professional
205 E Bender Road # 150
Hobbs, New Mexico 88240
Office: 575-748-1838
Mobile: 405-318-4697
Dale.Woodall@dvn.com



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September 23, 2024

Exotic Cat 5 CTB 2



NMOCD Incident ID nAPP2424855704
Written by Sapec-Eco, LLC. For Devon
Energy Production, LP

Attn: NMOCD District 1
1625 N French Dr
Hobbs, NM 88240

Bureau of Land Management
620 East Green St
Carlsbad, NM, 88220

Re: Liner Inspection Closure Report
NMOCD Incident Number: **nAPP2424855704**
Exotic Cat 5 CTB 2 Facility ID fAPP2308735100
Incident Location: F – 5 – 23S – 32E 1688 FNL 1966 FWL Lea County, NM
Lat/Long: 32.3361252, -103.6989382 NAD83

Sapeco-Eco, LLC. (Sapeco) was contracted by Devon Energy Production Company, LP (Devon) on September 5, 2024, to conduct a liner inspection at the Exotic Cat 5 CTB 2 (Exotic) and write this liner inspection closure report after a produced water release that occurred on September 4, 2024. This incident was assigned Incident ID nAPP2424855704 by the New Mexico Oil Conservation Division (NMOCD).

Release Information – nAPP2424855704

The initial notification of release was submitted and approved on September 4, 2024 (OCD Online: Permitting – Application ID 380714). The initial C-141 form was submitted on September 4, 2024, and approved on September 11, 2024 (OCD Online: Permitting – Application ID 380720). The C-141 stated that on September 4, 2024, A pinhole leak in a water dump line servicing a separator caused a 123 bbl produced water spill. Spill was isolated to lined containment installed beneath the production line and separators. 123 bbls recovered. Devon field personnel visually inspected the liner at this time and found no obvious deficiencies. A Site Map can be referred to in Figure 1.

Site Characterization

The Exotic is located in Lea County, NM, approximately twenty-three (23) miles east/northeast of Loving, NM. The release area is located in Unit F, Section 5, Township 23S, Range 32E, 32.3361252 degrees latitude and -103.6989382 degrees longitude. A Location Map is included for reference in Figure 4.

The New Mexico Bureau of Geology and Mineral Resources shows the geology in the Exotic area is comprised of Eolian and piedmont deposits: Interlayered eolian sands and piedmont-slope deposits along the eastern flank of the Pecos River valley, primarily between Roswell and Carlsbad. Typically capped by thin eolian deposits. A Geologic Unit Map can be found in Appendix C.

The soil type present at the Exotic is Kermit soils and Dune land, 0 to 12 percent slopes. The drainage class is excessively drained. Soil type information is according to the United States Department of Agriculture Natural Resources Conservation Service soil survey. The Soil Survey and a Soil Map can be referenced in Appendix C. Reference Figure 3 for a Topographic Map.

The Exotic resides in a low karst zone and is approximately 6.45 miles away from the nearest medium karst zone. Figure 2 refers to the Karst Map.

According to a Water Column/Average Depth to Water search within the New Mexico Office of the State Engineer, depth to the nearest groundwater in this area is greater than 110 feet below grade surface (bgs). This information is recorded by C-04663-POD1 which is situated approximately 1.43 miles north/northeast of this release area and was drilled on September 1, 2022. The United States Geological Survey (USGS) offers the site USGS 321952103400801 23S.32E.03.311114 which shows depth to the nearest groundwater is 487 feet bgs. The latest gauge of this site was conducted in 2013, and it is located approximately 1.68 miles to the east of this release area. The nearest surface water body is a Salt Pond and is located approximately 12.4 miles to the west of the release area. The U.S. Fish and Wildlife Service National Wetlands Inventory shows the nearest wetland to be a Freshwater Pond approximately 4.62 miles to the west of this area. According to Fema's National Flood Hazard Layer search, the

Exotic is situated in Zone D – Area of Undetermined Flood Hazard. See Appendix B for referenced Water Surveys and Water-Related Maps.

Liner Inspection

On September 17, 2024, after Devon submitted a 48-hour notification for a liner inspection (OCD Online: Permitting – Application ID 382869) (Appendix A), and McNabb Partners, LLC (McNabb) power washed and cleaned the liner, Sapec contracted an environmental technician from McNabb to inspect the lined secondary containment. This secondary containment measures approximately 10,932 square feet. After a thorough inspection, it was found that this containment has the integrity to hold the volume of released fluids associated with this release. Photographic Documentation and the Liner Inspection Field Report can be referenced in Appendix D.

Closure Request

Based on the above information, Devon requests that this incident, nAPP2424855704, be closed. All rules and regulations set forth in 19.15.29.12 NMAC have been complied with.

For questions or additional information, please reach out to:

Dale Woodall with Devon Energy, at 575-748-1838 or email him at Dale.Woodall@devon.com.

Simon Abela with Sapec-Eco, at 641-821-9018 or email him at s.abela@sapec-eco.com.

Attachments

Figures:

- 1- Site Map
- 2- Karst Map
- 3- Topographic Map
- 4- Location Map

Appendices:

- Appendix A – 48-Hour Notification
- Appendix B – Water Surveys & Water-Related Maps
- Appendix C – Soil Survey, Soil Map, & Geologic Unit Map
- Appendix D – Liner Inspection Field Report & Photographic Documentation

Figures:

Site Map

Karst Map



Topographic Map


Location Map

Exotic Cat 5 CTB 2

Devon Energy
Facility ID fAPP2308735100
Lea County, NM
nAPP2424855704
Site Map

Legend

-  Exotic Cat 5 CTB 2
-  Lined containment - 10,932 sqft

 32.336536, -103.699075

 Exotic Cat 5 CTB 2

Google Earth

Image © 2024 Airbus
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100 ft



X - Exotic Cat 5 CTB 2

Karst Map

0 0.75 1.5 3
mi



New Mexico State Land Office

Disclaimer:

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map Created: 9/13/2024

Karst_Potential_NM

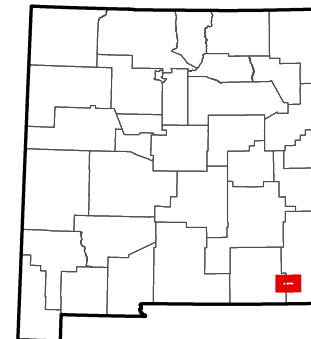
Potential

High

Medium

Low

Critical_Karst_Zone_NM

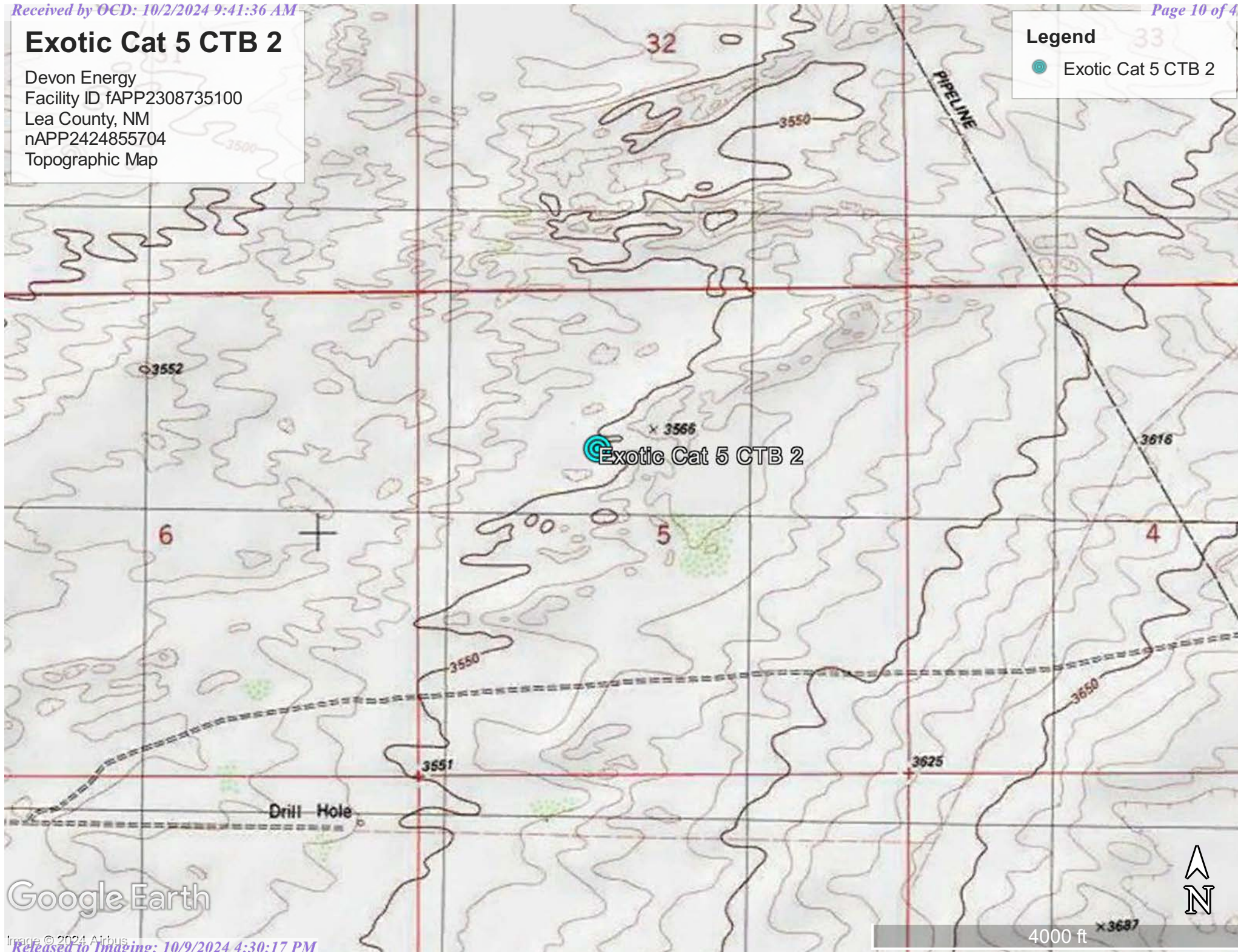


Exotic Cat 5 CTB 2

Devon Energy
Facility ID fAPP2308735100
Lea County, NM
nAPP2424855704
Topographic Map

Legend

 Exotic Cat 5 CTB 2




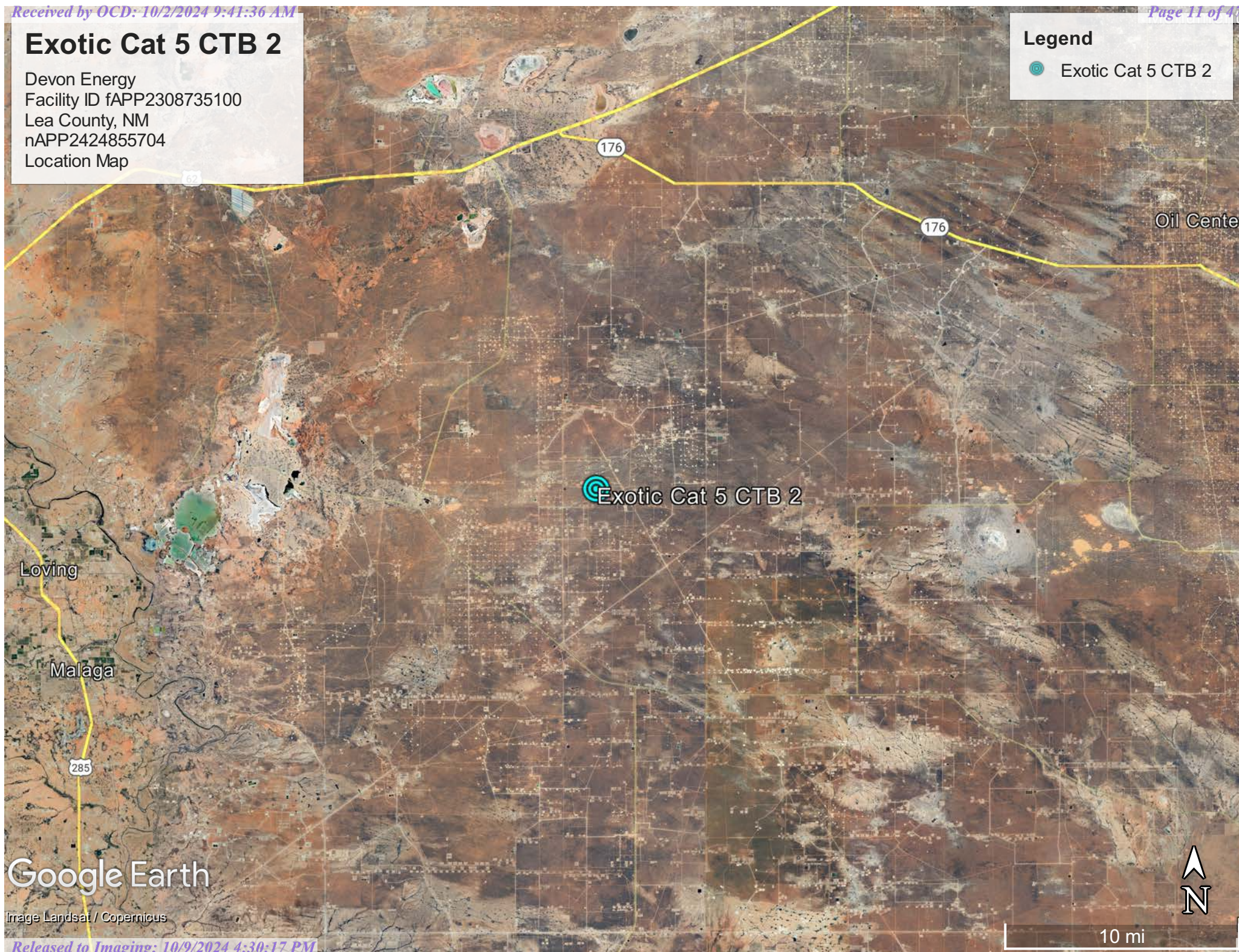
Google Earth

Exotic Cat 5 CTB 2

Devon Energy
Facility ID fAPP2308735100
Lea County, NM
nAPP2424855704
Location Map

Legend

 Exotic Cat 5 CTB 2



Google Earth

Image Landsat / Copernicus

Appendix A

48-Hour Notification

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

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

QUESTIONS

Action 382869

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 382869
	Action Type: [NOTIFY] Notification Of Liner Inspection (C-141L)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2424855704
Incident Name	NAPP2424855704 EXOTIC CAT 5 CTB 2 @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Facility	[fAPP2308735100] EXOTIC CAT 5 CTB 2

Location of Release Source	
Site Name	EXOTIC CAT 5 CTB 2
Date Release Discovered	09/04/2024
Surface Owner	Federal

Liner Inspection Event Information	
Please answer all the questions in this group.	
What is the liner inspection surface area in square feet	10,932
Have all the impacted materials been removed from the liner	Yes
Liner inspection date pursuant to Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC	09/16/2024
Time liner inspection will commence	03:30 PM
Please provide any information necessary for observers to liner inspection	Simon Abela 641-821-9018
Please provide any information necessary for navigation to liner inspection site	From the intersection of Red Road and Mills Ranch Road in Eddy County, travel east on Mills Ranch Rd for 1.3 miles, stay left at "Y" continue northeast on lease road for 1 mile, turn north on lease road for 0.75 miles, turn east for 0.5 miles, curve south for 612 feet, curve west into location.

District I
1625 N. French Dr., Hobbs, NM 88240
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Phone:(575) 748-1283 Fax:(575) 748-9720
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1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 382869

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 382869
	Action Type: [NOTIFY] Notification Of Liner Inspection (C-141L)

CONDITIONS

Created By	Condition	Condition Date
wdale	Failure to notify the OCD of liner inspections including any changes in date/time per the requirements of 19.15.29.11.A(5)(a)(ii) NMAC, may result in the inspection not being accepted.	9/12/2024

Appendix B

Water Surveys

Water-Related Maps



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

(quarters are smallest to largest)

(meters)

(In feet)

POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	X	Y	Map	Distance	Well Depth	Depth Water	Water Column
C 04663 POD1		CUB	LE	SW	NW	NE	31	22S	32E	621181.3	3580341.4		2286	110		
C 04815 POD1		CUB	LE	NW	SE	SW	08	23S	32E	622391.9	3576025.7		2411	55		

Average Depth to Water: 0 feet

Minimum Depth: 0 feet

Maximum Depth: 0 feet

Record Count: 2

Basin/County Search:

County: LE

UTM Filters (in meters):

Easting: 622447.21

Northing: 3578436.74

Radius: 03000

* UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) C-04663 POD 1		WELL TAG ID NO.		OSE FILE NO(S). C-04663			
	WELL OWNER NAME(S) OXY US INC				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS PO BOX 4294				CITY HOUSTON	STATE TX		
					ZIP 77210			
	WELL LOCATION (FROM GPS)	DEGREES 32	MINUTES 21	SECONDS 12.43	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND		
	LONGITUDE -103	42	43.74	W	* DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE PROXIMITY 31								
2. DRILLING & CASING INFORMATION	LICENSE NO. WD-1184		NAME OF LICENSED DRILLER RUSSELL SOUTHERLAND			NAME OF WELL DRILLING COMPANY WEST TEXAS WATER WELL SERVICE		
	DRILLING STARTED 09/01/2022		DRILLING ENDED 09/01/2022		DEPTH OF COMPLETED WELL (FT) 110	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)	
	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		
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY:							
	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						
				NO CASING IN HOLE				
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						
				N/A				

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO. C-04663	POD NO. 1	TRN NO. 732427
LOCATION 27S. 32E. 31. 3. 1. 2	WELL TAG ID NO. —	PAGE 1 OF 2

[illegible]

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 04/30/2019)	
FILE NO. C-04663	POD NO. 1	TRN NO. 732427	
LOCATION 775.32E.31.3.1.2	WELL TAG ID NO. _____	PAGE 2 OF 2	

OSE POD Location Map



9/5/2024, 12:12:22 PM

GIS WATERS PODs

● Active

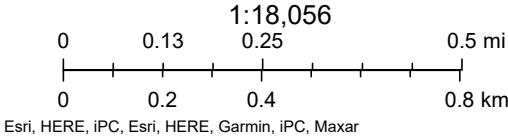
OSE District Boundary Artesian Planning Area

Water Right Regulations

Closure Area

New Mexico State Trust Lands

Both Estates





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[Contact USGS](#)
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National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater

Geographic Area:

United States

GO

Click to hide News Bulletins

- Explore the *NEW* [USGS National Water Dashboard](#) interactive map to access real-time water data from over 13,500 stations nationwide.

Groundwater levels for the Nation

 Important: [Next Generation Monitoring Location Page](#)

Search Results -- 1 sites found

site_no list =

- 321952103400801

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 321952103400801 23S.32E.03.311114

Available data for this site

Groundwater: Field measurements

GO

Lea County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°19'59.2", Longitude 103°40'12.6" NAD83

Land-surface elevation 3,648.00 feet above NGVD29

The depth of the well is 630 feet below land surface.

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Santa Rosa Sandstone (231SNRS) local aquifer.

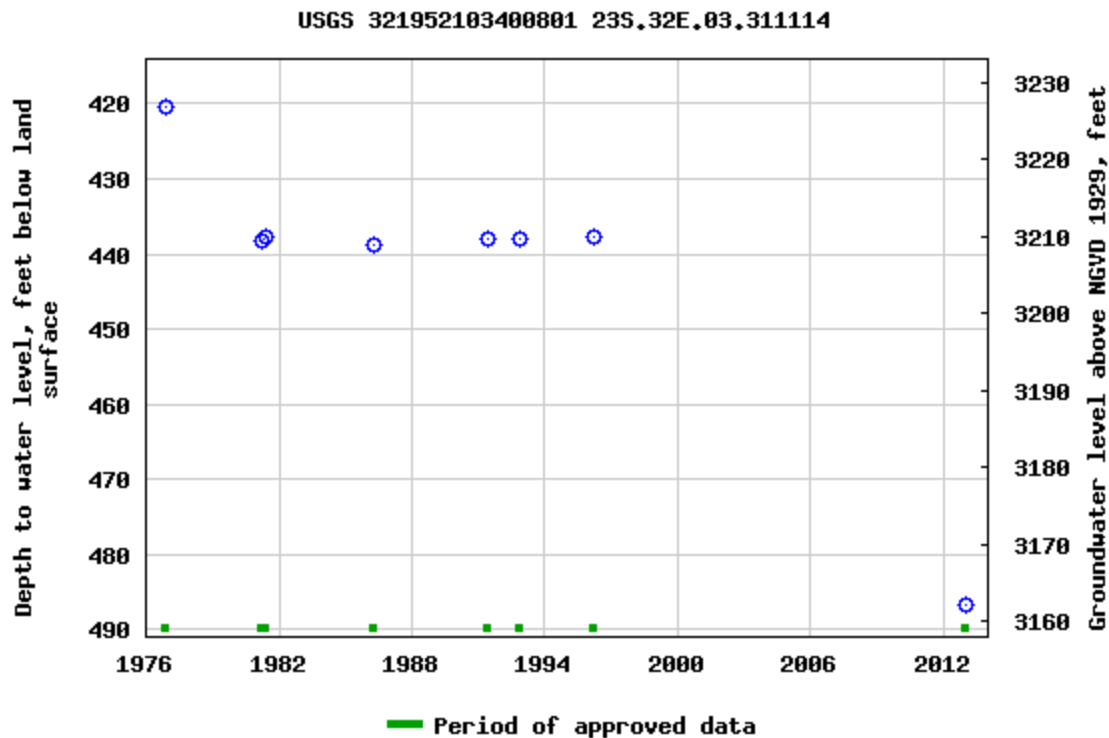
Output formats

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Breaks in the plot represent a gap of at least one year between field measurements.
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Title: Groundwater for USA: Water Levels
URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>



Page Contact Information: [USGS Water Data Support Team](#)
Page Last Modified: 2024-09-05 13:15:25 EDT
0.69 0.49 nadww02





National Water Information System: Mapper



Exotic Cat 5 CTB 2

Devon Energy
Facility ID fAPP2308735100
Lea County, NM
nAPP2424855704
Surface Water Map

Legend

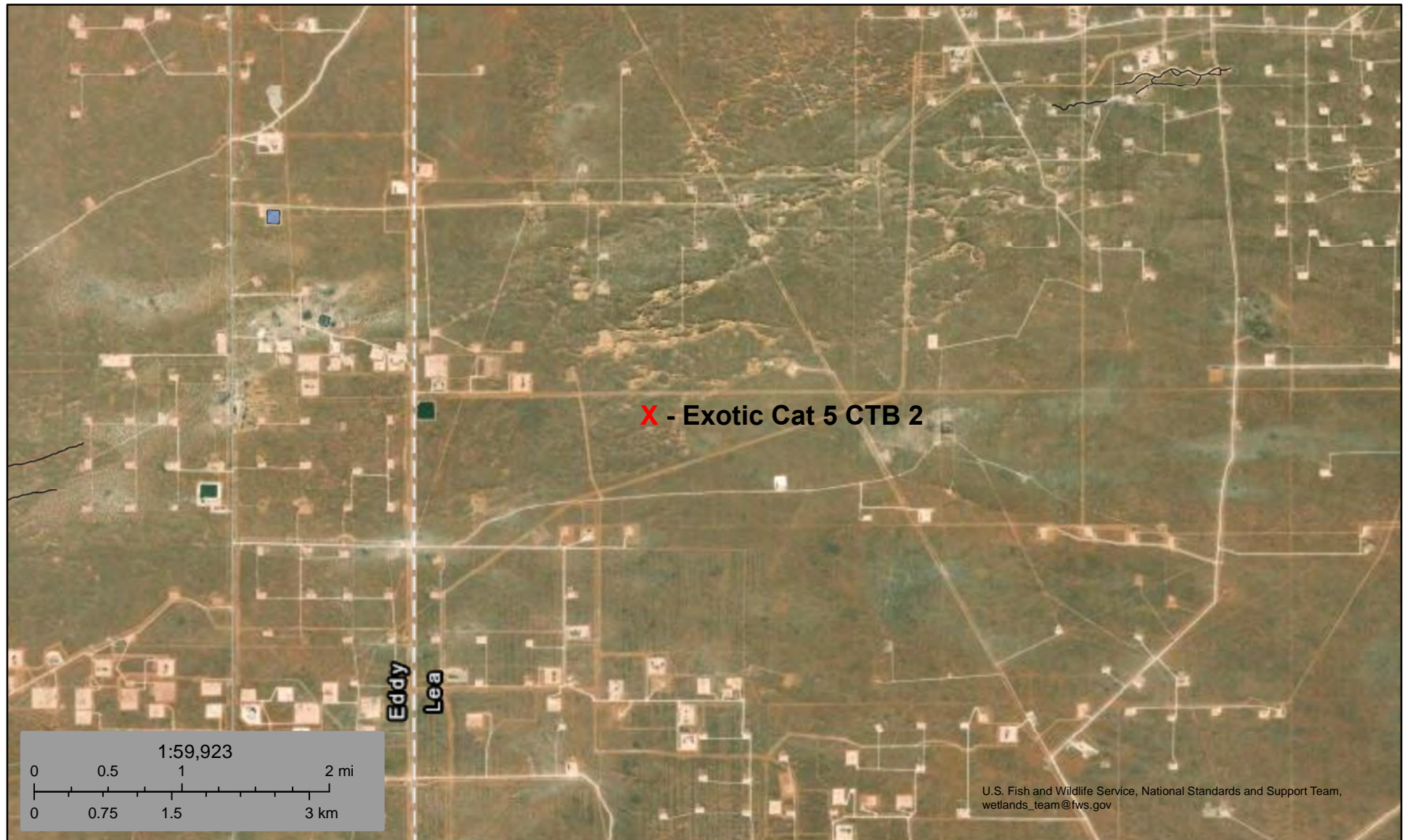
-  12.4 Miles
-  Salt Pond



Google Earth



Wetlands Map



September 5, 2024

Wetlands

	Estuarine and Marine Deepwater		Freshwater Emergent Wetland		Lake
	Estuarine and Marine Wetland		Freshwater Forested/Shrub Wetland		Other
	Freshwater Pond		Riverine		

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

National Flood Hazard Layer FIRMMette



103°42'19"W 32°20'26"N



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

1:6,000

103°41'42"W 32°19'56"N

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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 9/5/2024 at 1:23 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.

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Appendix C

Soil Survey

Soil Map

Geologic Unit Map

Map Unit Description: Kermit soils and Dune land, 0 to 12 percent slopes---Lea County, New Mexico

Lea County, New Mexico

KM—Kermit soils and Dune land, 0 to 12 percent slopes

Map Unit Setting

National map unit symbol: dmpx

Elevation: 3,000 to 4,400 feet

Mean annual precipitation: 10 to 15 inches

Mean annual air temperature: 60 to 62 degrees F

Frost-free period: 190 to 205 days

Farmland classification: Not prime farmland

Map Unit Composition

Kermit and similar soils: 46 percent

Dune land: 44 percent

Minor components: 10 percent

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

Description of Kermit

Setting

Landform: Dunes

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

Landform position (three-dimensional): Side slope

Down-slope shape: Concave, convex, linear

Across-slope shape: Convex

Parent material: Calcareous sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 8 inches: fine sand

C - 8 to 60 inches: fine sand

Properties and qualities

Slope: 5 to 12 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Excessively drained

Runoff class: Very low

Capacity of the most limiting layer to transmit water (Ksat): Very high (20.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 3 percent

Gypsum, maximum content: 1 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 2.0

Available water supply, 0 to 60 inches: Low (about 3.1 inches)

Map Unit Description: Kermit soils and Dune land, 0 to 12 percent slopes---Lea County, New Mexico

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: A

Ecological site: R070BC022NM - Sandhills

Hydric soil rating: No

Description of Dune Land**Setting**

Landform: Dunes

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

Landform position (three-dimensional): Side slope

Down-slope shape: Concave, convex, linear

Across-slope shape: Convex

Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 6 inches: fine sand

C - 6 to 60 inches: fine sand

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 8

Hydrologic Soil Group: A

Hydric soil rating: No

Minor Components**Palomas**

Percent of map unit: 3 percent

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

Pyote

Percent of map unit: 3 percent

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

Wink

Percent of map unit: 2 percent

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

Maljamar

Percent of map unit: 2 percent

Ecological site: R070BD003NM - Loamy Sand

Map Unit Description: Kermit soils and Dune land, 0 to 12 percent slopes---Lea County, New Mexico

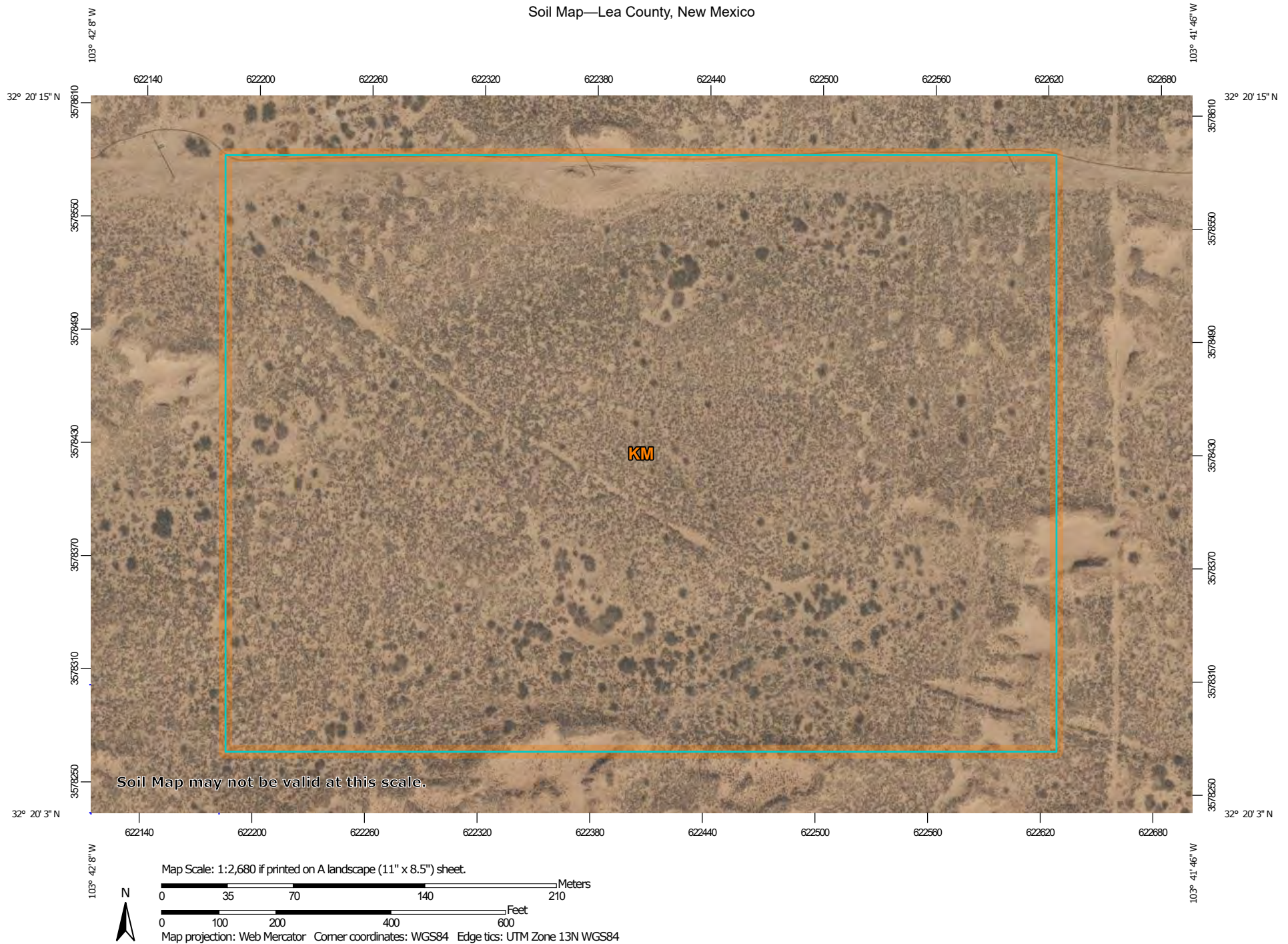
Hydric soil rating: No

Data Source Information

Soil Survey Area: Lea County, New Mexico

Survey Area Data: Version 20, Sep 6, 2023

Soil Map—Lea County, New Mexico



Natural Resources
Conservation Service

Web Soil Survey
National Cooperative Soil Survey

9/5/2024
Page 1 of 3

Soil Map—Lea County, New Mexico

MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

Water Features



Streams and Canals

Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

Background



Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Lea County, New Mexico

Survey Area Data: Version 20, Sep 6, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Feb 7, 2020—May 12, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.





Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
KM	Kermit soils and Dune land, 0 to 12 percent slopes	34.7	100.0%
Totals for Area of Interest		34.7	100.0%

Exotic Cat 5 CTB 2

Devon Energy
Facility ID fAPP2308735100
Lea County, NM
nAPP2424855704
Geologic Unit Map

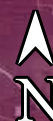
Legend

-  Eolian and piedmont deposits
-  Piedmont alluvial deposits

 Exotic Cat 5 CTB 2

Google Earth

4 mi



Appendix D

Liner Inspection Form

Photographic Documentation

Sapeco-Eco, LLC
311 N Elm St
Tempe, AZ 85288



Liner Inspection Field Report

Date & Time of Inspection: Tuesday, September 17, 2024. 2:35 pm

Date 48-Hour Notification Submitted/Accepted: Thursday, September 12, 2024

Location Name & Details: Exotic Cat 5 CTB 2 (F-05-23S-32E, Eddy County,
32.3361252, -103.6989382)

NMOCD Incident ID: nAPP2424855704

Operator: Devon Energy Production, L.P

Liner Type: Earthen w/black pvc liner Polystar
Steel w/poly liner Steel w/spray epoxy liner

Other: _____

Are there any tears in the liner? No tears in the liner

Are there any holes in the liner? No holes in the liner

Is the liner retaining any solids (sand, dirt, etc.)? no

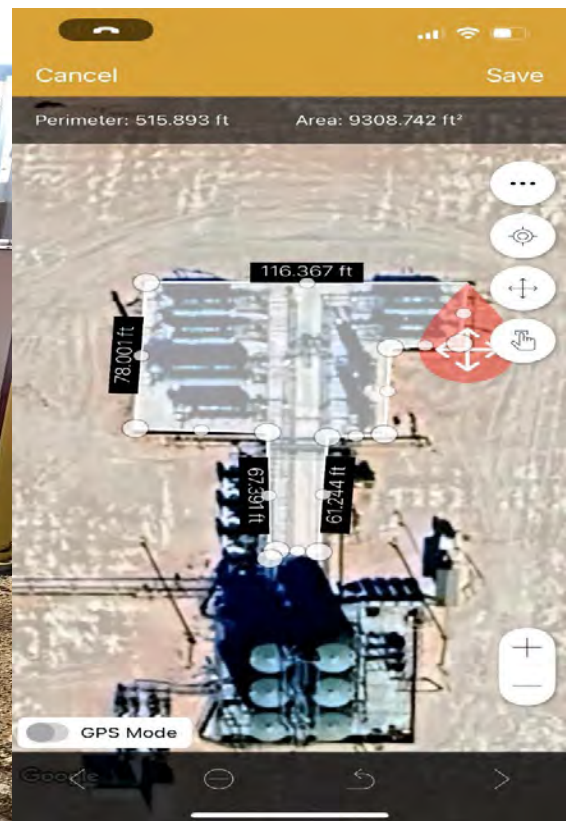
Is the liner retaining fluid currently? no

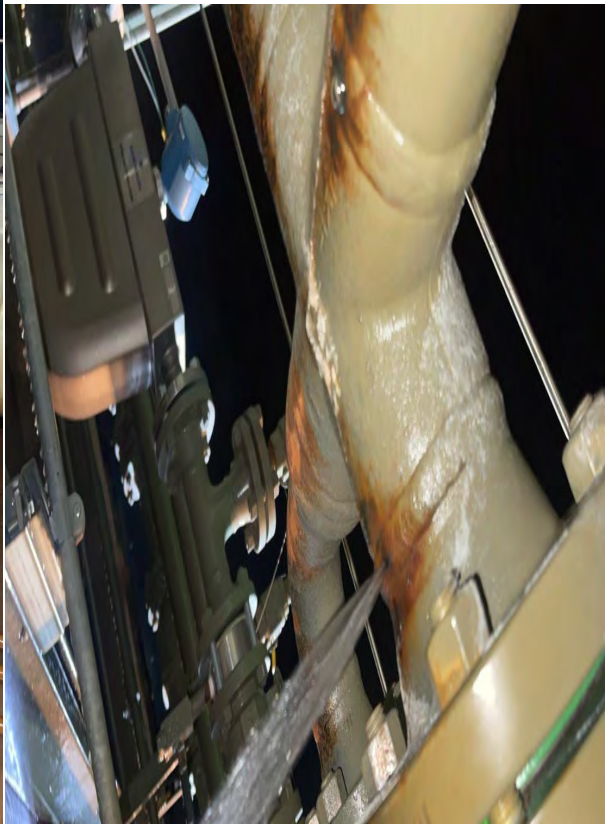
Did the liner have the integrity to contain the release in question? Yes

Comments: There are spots on the walls that are starting to fray,
but are not low enough to be affected by this release.

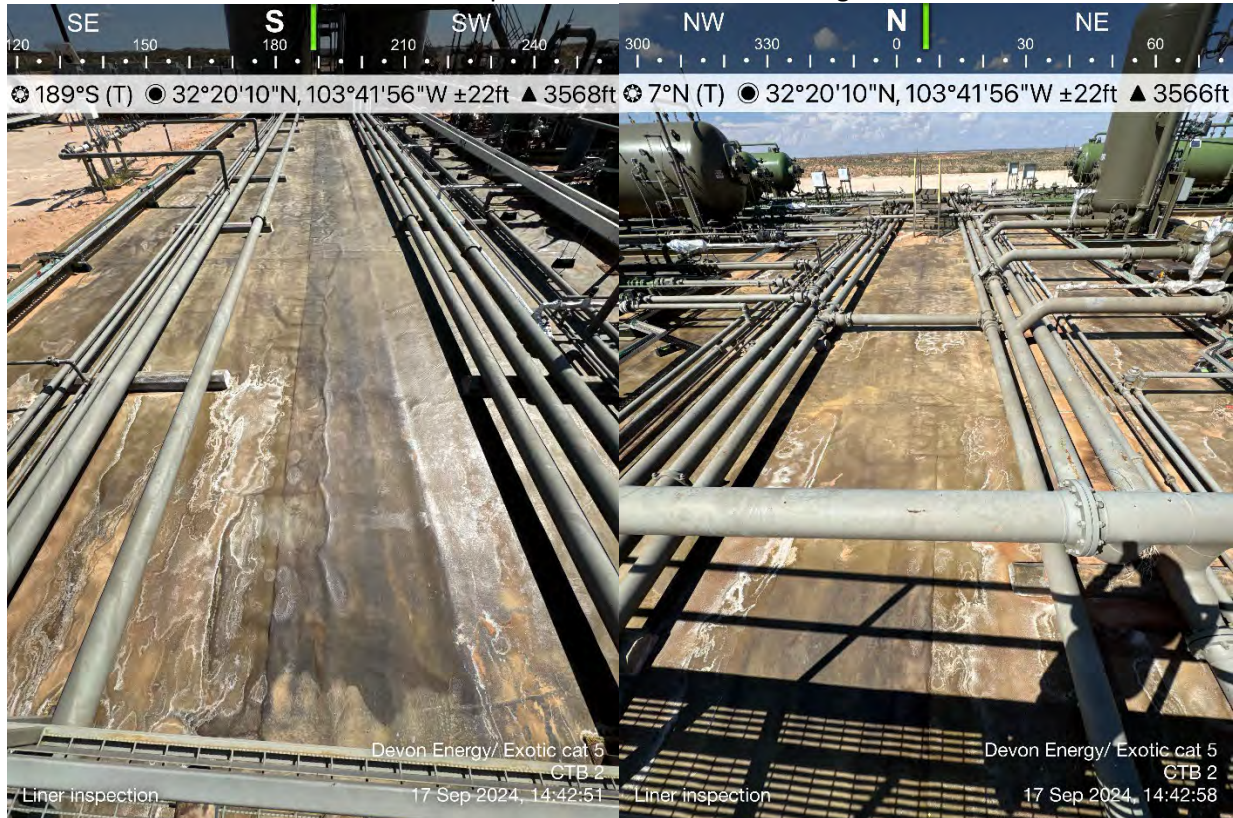
Inspector Name: Auden Escajeda

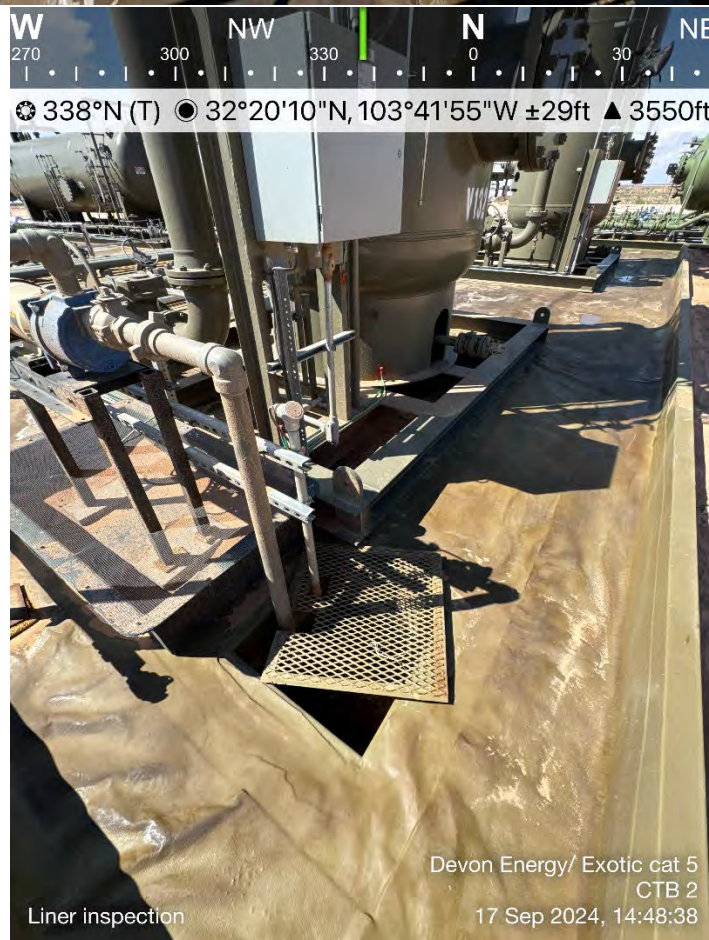
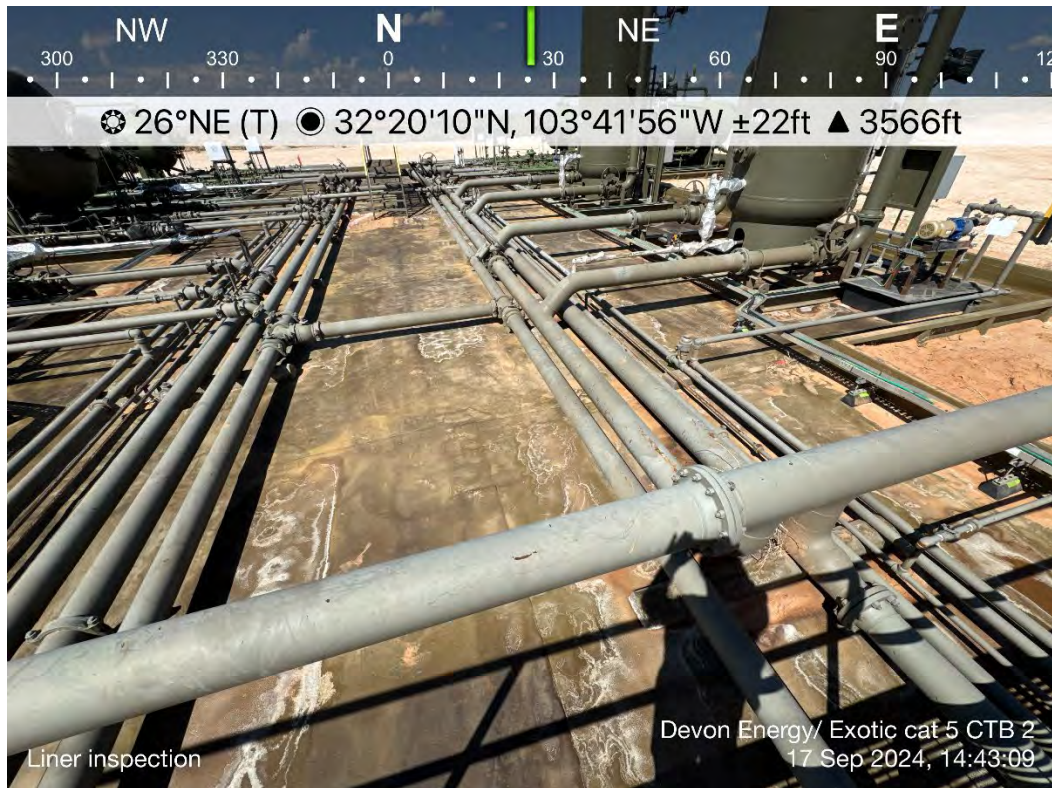
Inspector Signature: [Signature]

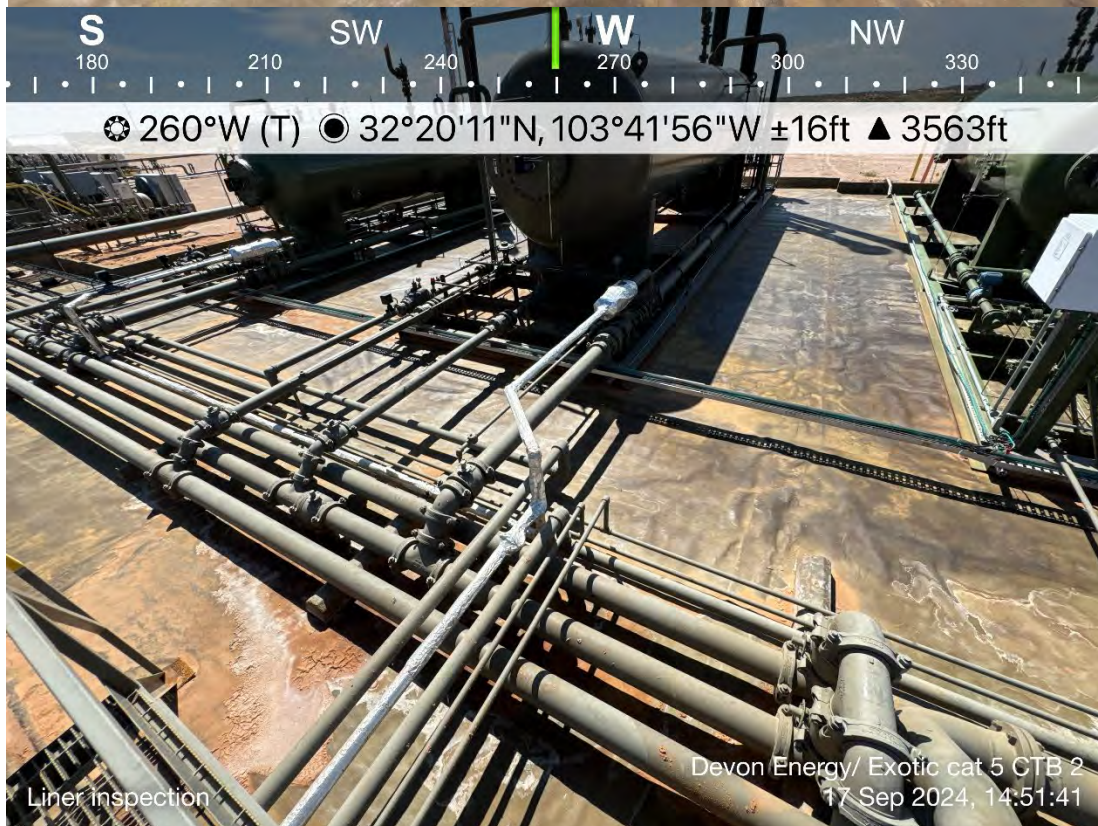


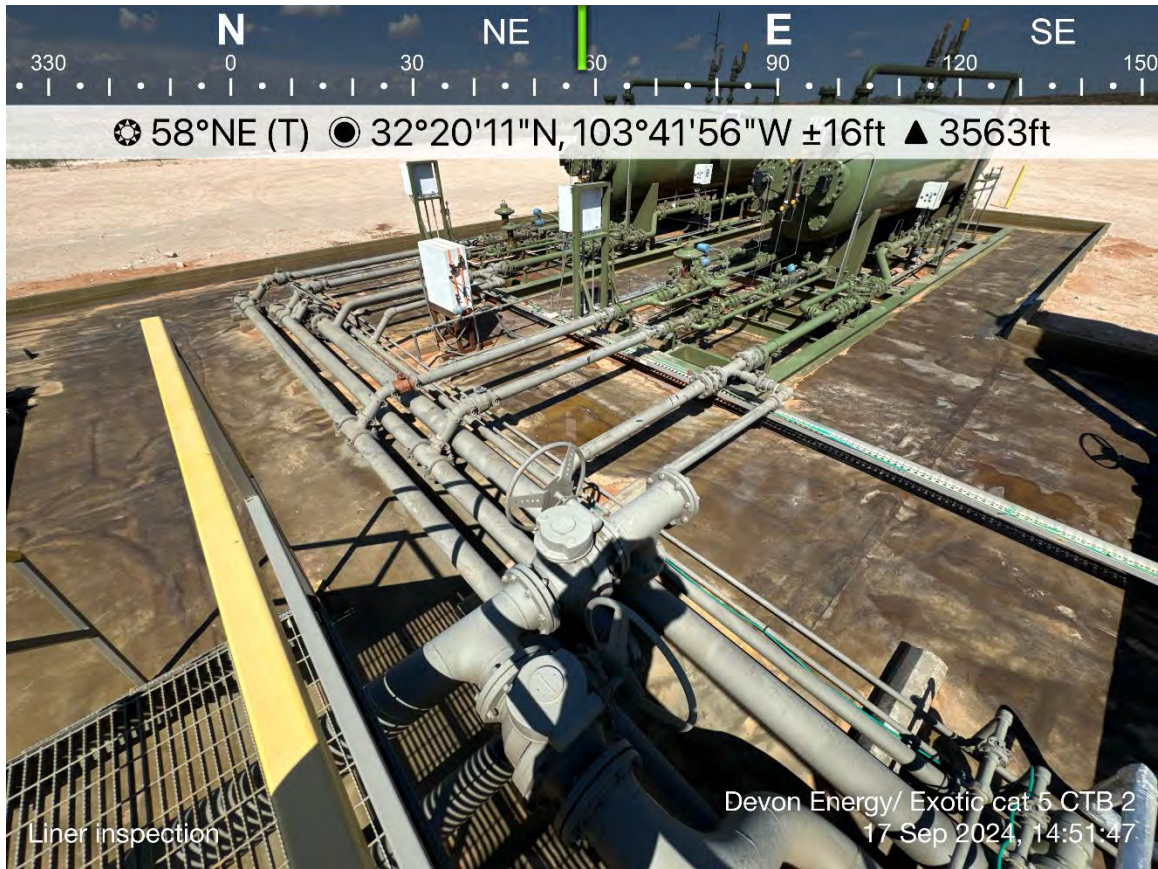


Liner Inspection – Post Power-Washing









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State of New Mexico
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Oil Conservation Division
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QUESTIONS

Action 389161

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:	6137
	Action Number:	389161
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2424855704
Incident Name	NAPP2424855704 EXOTIC CAT 5 CTB 2 @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Facility	[fAPP2308735100] EXOTIC CAT 5 CTB 2

Location of Release Source	
Please answer all the questions in this group.	
Site Name	EXOTIC CAT 5 CTB 2
Date Release Discovered	09/04/2024
Surface Owner	Federal

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications 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 Flow Line - Production Produced Water Released: 123 BBL Recovered: 123 BBL Lost: 0 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)	A pinhole leak in a water dump line servicing a separator caused a 123 bbl produced water spill. Spill was isolated to lined containment installed beneath the production line and separators. 123 bbls recovered.

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QUESTIONS, Page 2

Action 389161

QUESTIONS (continued)

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QUESTIONS

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

Initial Response

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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

I hereby agree and sign off to the above statement	Name: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dmn.com Date: 10/02/2024
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QUESTIONS, Page 3

Action 389161

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:	6137
	Action Number:	389161
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS**Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 26 and 50 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	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	Greater than 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	Yes
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
On what estimated date will the remediation commence	09/17/2024
On what date will (or did) the final sampling or liner inspection occur	09/17/2024
On what date will (or was) the remediation complete(d)	09/17/2024
What is the estimated surface area (in square feet) that will be remediated	0
What is the estimated volume (in cubic yards) that will be remediated	0
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.	
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS, Page 4

Action 389161

QUESTIONS (continued)

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	Action Number: 389161
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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>	
Is (or was) there affected material present needing to be removed	Yes
Is (or was) there a power wash of the lined containment area (to be) performed	Yes
OTHER (Non-listed remedial process)	No
<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@dmr.com Date: 10/02/2024
<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 6

Action 389161

QUESTIONS (continued)

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	Action Number:	389161
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Liner Inspection Information	
Last liner inspection notification (C-141L) recorded	382869
Liner inspection date pursuant to Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC	09/16/2024
Was all the impacted materials removed from the liner	Yes
What was the liner inspection surface area in square feet	10932

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	Yes
What was the total surface area (in square feet) remediated	0
What was the total volume (cubic yards) remediated	0
Summarize any additional remediation activities not included by answers (above)	see report

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement	Name: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dmn.com Date: 10/02/2024
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CONDITIONS

Action 389161

CONDITIONS

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	6137
	Action Number:
	389161
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

CONDITIONS

Created By	Condition	Condition Date
scwells	Liner report approved. Liner inspection notice was submitted for 9/16/24 but conducted on 9/17/24 instead.	10/9/2024
scwells	Operator failed to provide proper Liner Inspection Notification pursuant to 19.15.29.11.A.(5).(a).(ii) NMAC. Failure to provide proper sampling notice is a compliance issue and OCD may pursue compliance actions pursuant to 19.15.5 NMAC. Operator shall ensure future compliance with 19.15.29.11.A.(5).(a).(ii) NMAC	10/9/2024