



Incident Number: nAPP2523824000

Liner Inspection and Closure

East Pecos Federal 22 #003H

Section 22, Township 26 South, Range 29 East

API: 30-015-42285

County: Eddy

Vertex File Number: 25A-04701

Prepared for:

Devon Energy Production Company, LP

Prepared by:

Vertex Resource Services Inc.

Date:

November 2025

Devon Energy Production Company, LP
East Pecos Federal 22 #003H

Liner Inspection and Closure
November 2025

Liner Inspection and Closure
East Pecos Federal 22 #003H
Section 22, Township 26 South, Range 29 East
API: 30-015-42285
County: Eddy

Prepared for:

Devon Energy Production Company, LP
5321 Buena Vista Drive
Carlsbad, New Mexico 88220

New Mexico Oil Conservation Division
508 West Texas Avenue
Artesia, New Mexico 88210

Prepared by:

Vertex Resource Services Inc.
3101 Boyd Drive
Carlsbad, New Mexico 88220

Katrina Taylor
Katrina Taylor, B.Sc.
ENVIRONMENTAL TECHNICIAN, REPORTING

Novemeber 12, 2025
Date

Sally Carttar
Sally Carttar, BA.
PROJECT MANAGER, REPORT REVIEW

November 17, 2025
Date

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Devon Energy Production Company, LP
East Pecos Federal 22 #003H

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1.0 Introduction

Devon Energy Production Company, LP (Devon) retained Vertex Resource Services Inc. (Vertex) to conduct a Liner Inspection and Closure for a produced water release that occurred on August 25, 2025, at East Pecos Federal 22 #003H API 30-015-42285 (hereafter referred to as the "site"). Devon submitted an initial C-141 Release Notification to New Mexico Oil Conservation Division (NMOCD) District 2 on August 28, 2025. Incident ID number nAPP2523824000 was assigned to this incident.

This report provides a description of the release assessment and remediation activities associated with the site. The information presented demonstrates that closure criteria established in Table I of 19.15.29.12 of the *New Mexico Administrative Code* (NMAC; New Mexico Oil Conservation Division, 2018) related to NMOCD has been met and all applicable regulations are being followed. This document is intended to serve as a final report to obtain approval from NMOCD for closure of this release, with the understanding that restoration of the release site will be completed following remediation activities as per NMAC 19.15.29.13.

2.0 Incident Description

The release occurred on August 25, 2025, due to a tank valve failure. The incident was reported on August 26, 2025, and involved the release of approximately 6 barrels (bbl) of produced water into lined containment of the tank battery. Approximately 6 bbl of free fluid was removed during initial clean-up. Additional details relevant to the release are presented in the C-141 Report. Daily Field Report (DFR), including site photographs are included in Appendix B.

3.0 Site Characteristics

The site is located approximately 14 miles south-southeast of Malaga, New Mexico. The legal location for the site is Section 22, Township 26 South and Range 29 East in Eddy County, New Mexico. The release area is located on private property.

The location is typical of oil and gas exploration and production sites in the Permian Basin and is currently used for oil and gas production and storage. The following sections specifically describe the area around the tank battery and proximity to the constructed pad.

The Geological Map of New Mexico indicates the site's surface geology primarily comprises red sandstone and siltstone (New Mexico Bureau of Geology and Mineral Resources, 2025). The karst geology potential for the site is medium (United States Department of the Interior, Bureau of Land Management, 2018). The surrounding landscape is associated with ridges, plains, and alluvial fans with elevations ranging between 2,000 and 5,700 feet. The climate is semiarid with average annual precipitation ranging between 6 and 14 inches. Predominant soil textures around the site are well-drained gravelly loams and gravelly fine sandy loams with high runoff potential (United States Department of Agriculture, Natural Resources Conservation Service, 2025). Using information from the United States Department of Agriculture, the dominant vegetation was determined to be grasses interspersed with shrubs (United States Department of Agriculture, Natural Resources Conservation Service, 2025). Limited to no vegetation is allowed to grow on the compacted facility pad.

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4.0 Closure Criteria Determination

The nearest active well to the site is a prospecting well 0.11 miles to the northeast (New Mexico Office of the State Engineer, 2025). There is no surface water present at the site. The nearest significant watercourse, as defined in Subsection P of 19.15.17.7 NMAC, is an intermittent stream located approximately 0.28 miles north of the site (United States Fish and Wildlife Service, 2025). At the site, there are no continuously flowing watercourses or significant watercourses, lakebeds, sinkholes, playa lakes or other critical water or community features as outlined in Paragraph (4) of Subsection C of 19.15.29.12 NMAC

The nearest depth to groundwater reference to the site is an exploratory borehole advanced 0.26 miles to the east on June 15, 2022. The borehole was terminated at 55 feet below ground surface (bgs) without encountering the water surface (New Mexico Office of the State Engineer, 2025). Information pertaining to the depth to groundwater determination is included in Appendix A.

Devon Energy Production Company, LP
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Table 1. Closure Criteria Determination			
Site Name: East Pecos Federal 22 #003H			
Release Coordinates: 32.020783,-103.979428		X: 596379	Y: 3543194
Site Specific Conditions		Value	Unit
1	Depth to Groundwater (nearest reference)	>55	feet
	Distance between release and nearest DTGW reference	1,378	feet
		0.26	miles
	Date of nearest DTGW reference measurement	June 15, 2022	
2	Within 300 feet of any continuously flowing watercourse or any other significant watercourse	1,505	feet
3	Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark)	3,896	feet
4	Within 300 feet from an occupied residence, school, hospital, institution or church	33,807	feet
5	i) Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or	3,544	feet
	ii) Within 1000 feet of any fresh water well or spring	595	feet
6	Within incorporated municipal boundaries or within a defined municipal fresh water field covered under a municipal ordinance adopted pursuant to Section 3-27-3 NMSA 1978 as amended, unless the municipality specifically approves	No	(Y/N)
7	Within 300 feet of a wetland	2,788	feet
8	Within the area overlying a subsurface mine	No	(Y/N)
	Distance between release and nearest registered mine	64,336	feet
9	Within an unstable area (Karst Map)	Medium	Critical High Medium Low
	Distance between release and nearest High Karst	5,201	feet
10	Within a 100-year Floodplain	>500	year
	Distance between release and nearest FEMA Zone A (100-year Floodplain)	1,487	feet
11	Soil Type	Gravelly loam, gravelly fine sandy loam	
12	Ecological Classification	Shallow	
13	Geology	Red sandstone and siltstone	
	NMAC 19.15.29.12 E (Table 1) Closure Criteria	<50'	<50' 51-100' >100'

Devon Energy Production Company, LP
East Pecos Federal 22 #003H

Liner Inspection and Closure
November 2025

The closure criteria determined for the site are associated with the following constituent concentration limits as presented in Table 2.

Table 2. Closure Criteria for Soils Impacted by a Release		
Minimum depth below any point within the horizontal boundary of the release to groundwater less than 10,000 mg/l TDS	Constituent	Limit
< 50 feet	Chloride	600 mg/kg
	TPH (GRO+DRO+MRO)	100 mg/kg
	BTEX	50 mg/kg
	Benzene	10 mg/kg

TDS – total dissolved solids

TPH – total petroleum hydrocarbons, GRO – gas range organics, DRO – diesel range organics, MRO – motor oil range organics

BTEX – benzene, toluene, ethylbenzene and xylenes

5.0 Liner Inspection

Notification that a liner inspection was scheduled to be completed was provided to the NMOCD. The liner inspection was completed on November 10, 2025. Visual observation of the liner was completed on all sides and the base of the containment, around equipment, and of all seams in the liner. The patches in the liner were inspected and remain firmly glued with strong seals. As evidenced in the DFR (Appendix B), liner integrity was confirmed and had the ability to contain the release.

6.0 Closure Request

Vertex recommends no remediation action to address the release. The release area was fully investigated on November 10, 2025, which determined the secondary containment was intact and contained the release. There are no anticipated risks to human, ecological, or hydrological receptors associated with the release site.

Based on these findings, Devon Energy Production Company, LP. requests that this release be closed as all closure requirements set forth in Subsection E of 19.15.29.12 NMAC have been met.

Devon Energy Production Company, LP requests that this incident (nAPP2523824000) be closed as all closure requirements set forth in Subsection E of 19.15.29.12 NMAC have been met. Devon certifies that all information in this report and the attachments is correct and that they have complied with all applicable closure requirements and conditions specified in Division rules and directives to meet NMOCD requirements to obtain closure on the release at East Pecos Federal 22 #003H.

Should you have any questions or concerns, please do not hesitate to contact the Project Manager Sally Carttar at 575.361.3561 or SCarttar@vertexresource.com.

Devon Energy Production Company, LP
East Pecos Federal 22 #003H

Liner Inspection and Closure
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7.0 References

- Google Inc. (2025). *Google Earth Pro (Version 7.3.3)* [Software]. Retrieved from <https://earth.google.com>
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- United States Fish and Wildlife Service. (2025). *National Wetland Inventory - Surface Waters and Wetlands*. Retrieved from <https://fwsprimary.wim.usgs.gov/wetlands/apps/wetlands-mapper/>

Devon Energy Production Company, LP
East Pecos Federal 22 #003H

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8.0 Limitations

This report has been prepared for the sole benefit of Devon Energy Production Company, LP. This document may not be used by any other person or entity, with the exception of the New Mexico Oil Conservation Division, without the express written consent of Vertex Resource Services Inc. (Vertex) and Devon Energy Production Company, LP. Any use of this report by a third party, or any reliance on decisions made based on it, or damages suffered as a result of the use of this report are the sole responsibility of the user.

The information and conclusions contained in this report are based upon work undertaken by trained professional and technical staff in accordance with generally accepted scientific practices current at the time the work was performed. The conclusions and recommendations presented represent the best judgement of Vertex based on the data collected during the assessment. Due to the nature of the assessment and the data available, Vertex cannot warrant against undiscovered environmental liabilities. Conclusions and recommendations presented in this report should not be considered legal advice.

Figures



0 20 40 ft
NAD 1983 StatePlane New Mexico East FIPS 3001 Feet

Map Center:
Lat/Long: 32.020694°N, 103.979376°W

Date: Nov 12/25



Liner Inspection Schematic
East Pecos Federal 22 #003H

FIGURE:

1



Geospatial data presented in this figure may be derived from external sources and Vertex does not assume any liability for inaccuracies. This figure is intended for reference use only and is not certified for legal, survey, or engineering purposes.

Note: Georeferenced image from Esri, 2025. Site features from GPS, Vertex, 2025.

VERSATILITY. EXPERTISE.

APPENDIX A - Closure Criteria Research Documentation



9/29/2025, 11:59:42 AM

GIS WATERS PODs

- Pending
- Active
- Plugged
- OSE District Boundary
- New Mexico State Trust Lands
- Subsurface Estate
- Unknown

World Imagery

Low Resolution 15m Imagery

High Resolution 60cm Imagery

High Resolution 30cm Imagery

Citations














1:15,625

0 0.1 0.2 0.4 mi

0 0.17 0.35 0.7 km

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

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)					(NAD83 UTM in meters)					(In feet)		(In feet)		
POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	X	Y	Map	Distance	Well Depth	Depth Water
C 04630 POD1		CUB	ED	SW	SE	SW	22	26S	29E	596792.0	3543275.4		420		
C 04850 POD1		CUB	ED	SE	SW	NE	27	26S	29E	597437.2	3542880.3		1103	76	65
C 04850 POD3		CUB	ED	SW	NE	NE	27	26S	29E	597509.4	3542795.1		1198	98	
C 04850 POD5		CUB	ED	SW	SE	NE	27	26S	29E	597548.8	3542708.6		1266	64	57
C 04850 POD2		CUB	ED	SW	NE	NE	27	26S	29E	597623.2	3542827.0		1297	70	64
C 03605 POD1		CUB	ED	SE	NE	SW	27	26S	29E	596989.7	3541983.3		1356	45	0
C 04850 POD6		CUB	ED	SW	SE	NE	27	26S	29E	597629.1	3542646.9		1364	76	64
C 04653 POD6		CUB	ED	SE	SE	SE	22	26S	29E	597782.1	3543171.9		1403	74	67
C 04653 POD5		CUB	ED	SE	SE	SE	22	26S	29E	597784.0	3543186.7		1405	72	67
C 04850 POD7		CUB	ED	SW	SE	NE	27	26S	29E	597621.8	3542536.6		1405	64	57
C 04850 POD4		CUB	ED	NE	SW	NE	27	26S	29E	597706.6	3542727.1		1407	64	55

Average Depth to Wat

Minimum Depth: **0 feet**

Maximum Depth: **67 feet**



Record Count: 11

UTM Filters (in meters):

Easting: 596379

Northing: 3543194

Radius: 002000


* 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.

Point of Diversion Summary

quarters are 1=NW 2=NE 3=SW 4=SE
quarters are smallest to largest

NAD83 UTM in meters

Well Tag	POD Nbr	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map
NA	C 04630 POD1	SW	SE	SW	22	26S	29E	596792.0	3543275.4	

* UTM location was derived from PLSS - see Help

Driller License:	1249	Driller Company:	ATKINS ENGINEERING ASSOC. INC.		
Driller Name:	ATKINS, JACKIE D.UELENER				
Drill Start Date:	2022-06-15	Drill Finish Date:	2022-06-15	Plug Date:	
Log File Date:	2022-07-15	PCW Rcv Date:		Source:	
Pump Type:		Pipe Discharge Size:		Estimated Yield:	0
Casing Size:		Depth Well:		Depth Water:	

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.

Water Right Summary



[get image list](#)

WR File Number:	C 04630	Subbasin:	CUB	Cross Reference:
Primary Purpose:	EXP EXPLORATION			
Primary Status:	PMT Permit			
Total Acres:		Subfile:		Header:
Total Diversion:	0.000	Cause/Case:		
Owner:	DEVON ENERGY	Owner Class:	Owner	
Contact:	DALE WOODALL			

Documents on File

(acre-feet per annum)

Transaction Images	Trn #	Doc	File/Act	Status 1	Status 2	Transaction Desc.	From/To	Acres	Diversion	Consumptive
_get images	726199	EXPL	2022-05-24	PMT	LOG	C 04630 POD1	T	0.000	0.000	

Current Points of Diversion

POD Number	Well Tag	Source	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map	Other Location Desc
C 04630 POD1	NA		SW	SE	SW	22	26S	29E	596792.0	3543275.4		

* 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

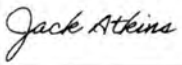
1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD 1 (TW-1)		WELL TAG ID NO. N/A		OSE FILE NO(S). C-4630			
	WELL OWNER NAME(S) Devon Energy				PHONE (OPTIONAL) 575-748-1838			
	WELL OWNER MAILING ADDRESS 6488 7 Rivers Hwy				CITY Artesia	STATE NM	ZIP 88210	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 1	SECONDS 17.32	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND		
	LONGITUDE 103	58	30.17	W	* DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE SW SE SW Sec.22 T26S R29S 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 6/15/2022		DRILLING ENDED 6/15/2022		DEPTH OF COMPLETED WELL (FT) Temporary Well		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 6/15/2022, 7/13/2022	
	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) 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		±6.5	Boring-HSA	--	--	--	--
3. ANNULAR MATERIAL	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		

FOR OSE INTERNAL USE

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

FILE NO.	C-4630	POD NO.	POD 1	TRN NO.	726199
LOCATION	26S 29E 22 3.4.3	WELL TAG ID NO.	NA	PAGE 1 OF 2	

05C ON JUL 15 2022 AM 11:34

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
	0	14	14	Sand, Fine-grained, poorly graded, unconsolidated, with Caliche, 7.5 YR 7/6, Re	Y ✓ N	
	14	34	20	Caliche, Broken with fine-grained sand, 7.5 YR 7/6, Reddish Yellow	Y ✓ N	
	34	39	5	Sand, Fine-grained, poorly graded, 5 YR 5/6, Reddish Yellow	Y ✓ N	
	39	49	10	Sand, Fine-grained, poorly graded, unconsolidated, with clay, 7.5 YR 7/6, Reddi	Y ✓ N	
	49	55	6	Clay, Stiff, with fine-grained sand, 5 YR 5/6, Reddish Yellow	Y ✓ N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:					TOTAL ESTIMATED WELL YIELD (gpm): 0.00	
<input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY:						
5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.				
	MISCELLANEOUS INFORMATION: Temporary well material removed and soil boring backfilled using drill cuttings from total depth to ten feet below ground surface(bgs), then hydrated bentonite chips ten feet bgs to surface.					
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Shane Eldridge, Cameron Pruitt					
6. 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 30 DAYS AFTER COMPLETION OF WELL DRILLING: <div style="display: flex; justify-content: space-between;"> <div>  SIGNATURE OF DRILLER / PRINT SIGNED NAME </div> <div> Jackie D. Atkins DATE </div> </div>					

FOR USE INTERNAL USE

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

FILE NO. C-4630	POD NO. TPOD	TRN NO. 72619A
LOCATION 260 292 22 3.4-3	WELL TAG ID NO. NA	PAGE 2 OF 2



Intermittent 1,505 feet



September 29, 2025

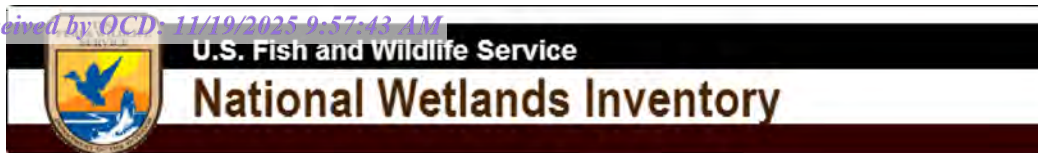
Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

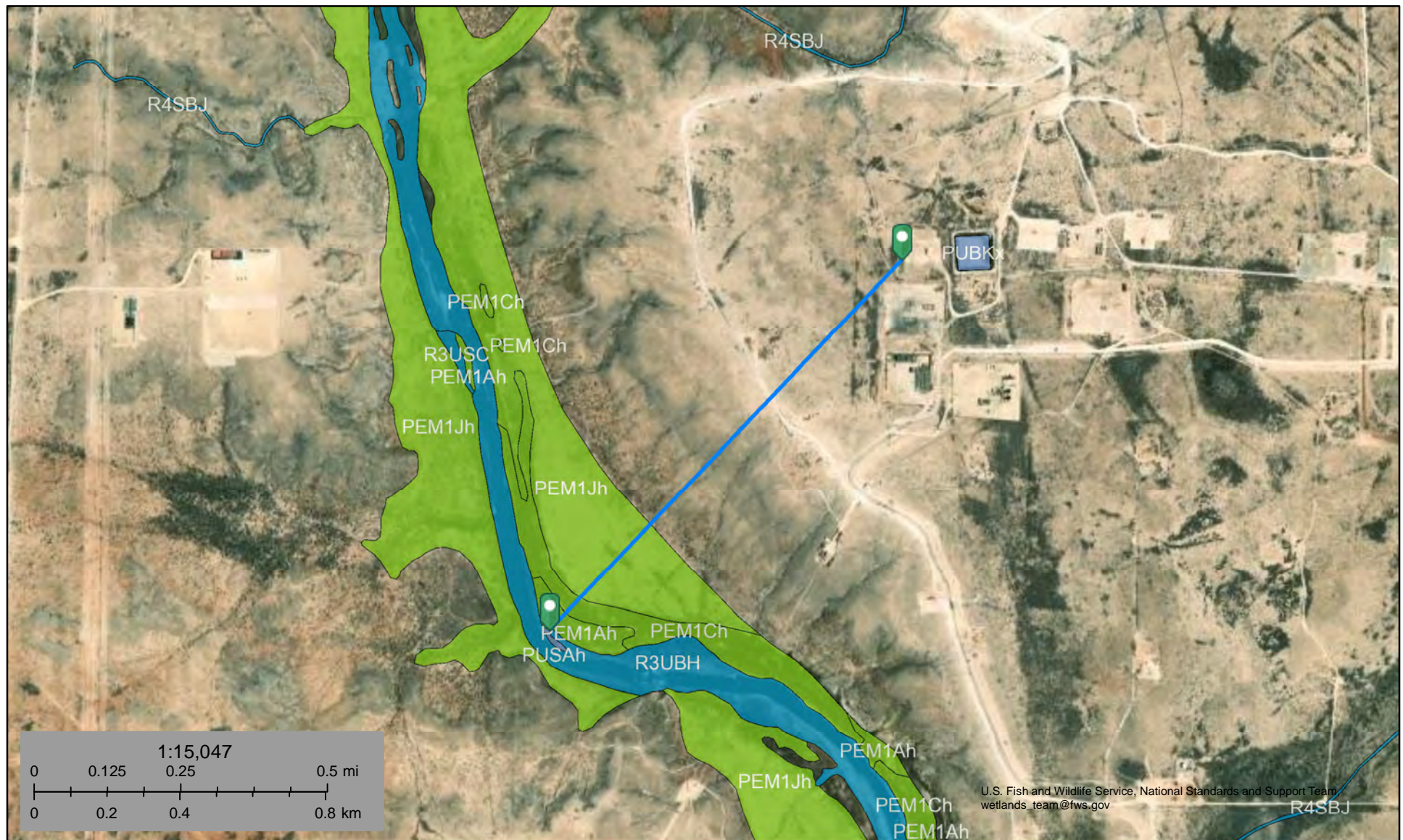
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond

- Lake
- Other
- 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.



Pond 3,896 feet



September 29, 2025

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond





- Lake
- Other
- Riverine

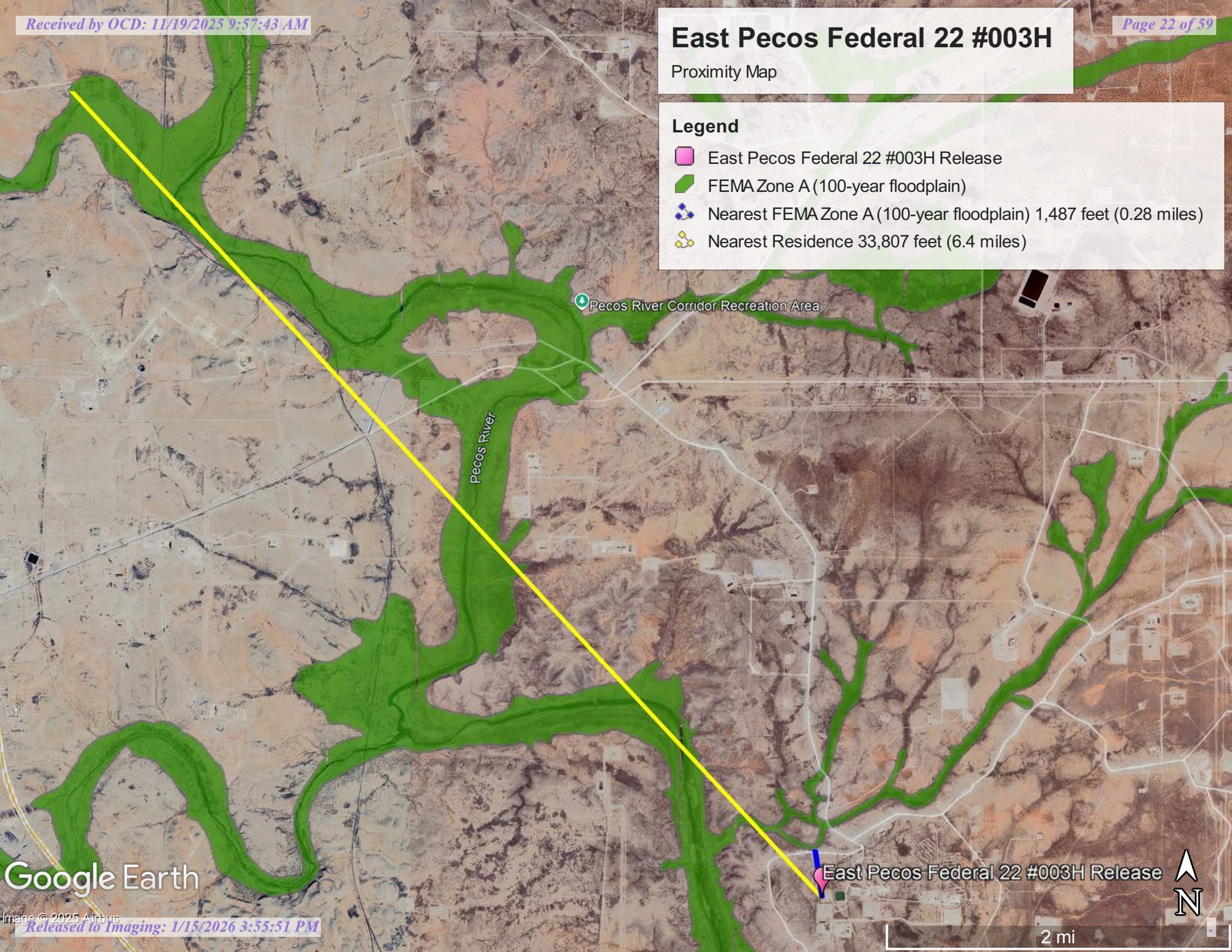
This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

East Pecos Federal 22 #003H

Proximity Map

Legend

-  East Pecos Federal 22 #003H Release
-  FEMA Zone A (100-year floodplain)
-  Nearest FEMA Zone A (100-year floodplain) 1,487 feet (0.28 miles)
-  Nearest Residence 33,807 feet (6.4 miles)





Google Earth

East Pecos Federal 22 #003H Release

2 mi

Active & Inactive Points of Diversion
(with Ownership Information)

WR File Nbr	(acre ft per annum)				(R=POD has been replaced and no longer serves this file, C=the file is closed)					(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)						(NAD83 UTM in meters)		(meters)		
	Sub basin	Use	Diversion	Owner	County	POD Number	Well Tag	Code	Grant	Source	q64	q16	q4	Sec	Tws	Range	X	Y	Map	Distance
C 01354	CUB	SRO	0.000	RECOVERY WATER COMPANY	ED	C 01354 X-5					SW	SW	SW	22	26S	29E	596462.5	3543354.8		181.2
C 03479	C	PRO	0.000	ROSS-BRANTLEY JOINT VENTURE	ED	C 01354 X-5					SW	SW	SW	22	26S	29E	596462.5	3543354.8		181.2
C 01355	CUB	EXP	0.000	GEORGE ROSS	ED	C 01355 X-5					SW	SW	22	26S	29E	596479.0	3543421.0 *		248.1	
C 04630	CUB	EXP	0.000	DEVON ENERGY	ED	C 04630 POD1	NA				SW	SE	SW	22	26S	29E	596792.0	3543275.4		420.9
C 01354	CUB	SRO	0.000	RECOVERY WATER COMPANY	ED	C 01354 X-7					NW	NE	27	26S	29E	597289.0	3542964.0 *		938.6	
C 01355	CUB	EXP	0.000	GEORGE ROSS	ED	C 01355 X-7					NW	NE	27	26S	29E	597289.0	3542964.0 *		938.6	
C 01569	C	STK	3.000	WALTER B PASCHAL	ED	C 01569					SE	SE	NW	22	26S	29E	596978.0	3544093.0 *		1,080.3
C 01354	CUB	SRO	0.000	RECOVERY WATER COMPANY	ED	C 01354 X-6					NW	SE	22	26S	29E	597297.0	3543769.0 *		1,083.2	
C 01355	CUB	EXP	0.000	GEORGE ROSS	ED	C 01355 X-6					NW	SE	22	26S	29E	597297.0	3543769.0 *		1,083.2	
C 04850	CUB	MON	0.000	DEVON ENERGY	ED	C 04850 POD1	NA			Shallow	SE	SW	NE	27	26S	29E	597437.2	3542880.3		1,103.7
C 04717	CUB	MON	0.000	DEVON ENERGY	ED	C 04717 POD1	NA				SE	NW	NE	27	26S	29E	597489.9	3542803.2		1,177.6
C 04850	CUB	MON	0.000	DEVON ENERGY	ED	C 04850 POD3	NA			Shallow	SW	NE	NE	27	26S	29E	597509.4	3542795.1		1,198.7
					ED	C 04850 POD5	NA			Shallow	SW	SE	NE	27	26S	29E	597548.8	3542708.6		1,266.5
C 04718	CUB	MON	0.000	DEVON ENERGY	ED	C 04718 POD1	NA				SW	NE	NE	27	26S	29E	597596.2	3542772.5		1,288.1
C 04666	CUB	MON	0.000	COTERRA ENERGY COMPANY	ED	C 04666 POD 2	NA				SE	NE	SW	27	26S	29E	596960.9	3542036.3		1,295.7
					ED	C 04666 POD 1	NA				SE	NE	SW	27	26S	29E	596905.8	3542010.2		1,295.7
C 04850	CUB	MON	0.000	DEVON ENERGY	ED	C 04850 POD2	NA			Shallow	SW	NE	NE	27	26S	29E	597623.2	3542827.0		1,297.2
C 01354	CUB	SRO	0.000	RECOVERY WATER COMPANY	ED	C 01354 X-4					SE	SE	22	26S	29E	597713.0	3543339.0 *		1,341.9	
C 01355	CUB	EXP	0.000	GEORGE ROSS	ED	C 01355 X-4					SE	SE	22	26S	29E	597713.0	3543339.0 *		1,341.9	
C 03605	CUB	MON	0.000	CIMAREX	ED	C 03605 POD1					SE	NE	SW	27	26S	29E	596989.7	3541983.3		1,356.0
C 04719	CUB	MON	0.000	DEVON ENERGY	ED	C 04719 POD1	NA				NW	SE	NE	27	26S	29E	597646.9	3542706.2		1,358.5
C 01354	CUB	SRO	0.000	RECOVERY WATER COMPANY	ED	C 01354					NW	SE	27	26S	29E	597263.0	3542160.0 *		1,360.4	
C 01355	CUB	EXP	0.000	GEORGE ROSS	ED	C 01355					NW	SE	27	26S	29E	597263.0	3542160.0 *		1,360.4	
C 04850	CUB	MON	0.000	DEVON ENERGY	ED	C 04850 POD6	NA			Shallow	SW	SE	NE	27	26S	29E	597629.1	3542646.9		1,364.6
C 04716	CUB	MON	0.000	DEVON ENERGY	ED	C 04716 POD1	NA				NW	SE	NE	27	26S	29E	597638.9	3542637.4		1,377.4
C 04653	CUB	EXP	0.000	STEPHENS & JOHNSON OPERATING	ED	C 04653 POD6	NA			Shallow	SE	SE	SE	22	26S	29E	597782.1	3543171.9		1,403.3
					ED	C 04653 POD5	NA			Shallow	SE	SE	SE	22	26S	29E	597784.0	3543186.7		1,405.0
C 04850	CUB	MON	0.000	DEVON ENERGY	ED	C 04850 POD7	NA			Shallow	SW	SE	NE	27	26S	29E	597621.8	3542536.6		1,406.0
					ED	C 04850 POD4	NA			Shallow	NE	SW	NE	27	26S	29E	597706.6	3542727.1		1,407.3
C 04653	CUB	EXP	0.000	STEPHENS & JOHNSON OPERATING	ED	C 04653 POD3	NA				SE	SE	SE	22	26S	29E	597805.2	3543169.0		1,426.4
					ED	C 04653 POD4	NA				SE	SE	SE	22	26S	29E	597805.8	3543182.9		1,426.8
					ED	C 04653 POD2	NA				SE	SE	SE	22	26S	29E	597825.1	3543169.8		1,446.3
					ED	C 04653 POD 1	NA				SE	SE	SE	22	26S	29E	597826.1	3543180.3		1,447.2
C 01355	CUB	EXP	0.000	GEORGE ROSS	ED	C 01355 X-3					NW	SW	23	26S	29E	598121.0	3543721.0 *		1,820.0	

(acre ft per annum)					(R=POD has been replaced and no longer serves this file, C=the file is closed)					(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)					(NAD83 UTM in meters)					(meters)	
WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Well Tag	Code	Grant	Source	q64	q16	q4	Sec	Tws	Range	X	Y	Map	Distance	
C 01354	CUB	SRO	0.000	RECOVERY WATER COMPANY	ED	C 01354 X					SW	NW	26	26S	29E	598093.0	3542499.0 *		1,849.5		
C 01355	CUB	EXP	0.000	GEORGE ROSS	ED	C 01355 X					SW	NW	26	26S	29E	598093.0	3542499.0 *		1,849.5		

Record Count: 36

Filters Applied:

UTM Filters (in meters):

Easting: 596379

Northing: 3543194

Radius: 002000

Sorted By: Distance

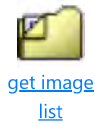
* UTM location was derived from PLSS - see Help

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9/25/25 8:00 AM MST

Active & Inactive Points of Diversion

Water Right Summary



WR File Number:	C 01354	Subbasin:	CUB	Cross Reference:
Primary Purpose:	SRO SECONDARY RECOVERY OF OIL			
Primary Status:	CAN Cancelled			
Total Acres:		Subfile:		Header:
Total Diversion:	0.000	Cause/Case:		
Owner:	RECOVERY WATER COMPANY	Owner Class:	Owner	
Contact:				

Documents on File

(acre-feet per annum)

Transaction Images	Trn #	Doc	File/Act	Status 1	Status 2	Transaction Desc.	From/To	Acres	Diversion	Consumptive
	128227	APPRO	1966-12-19	CAN	CAN	CONVERSION C 01354	T		13400.000	

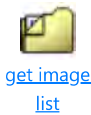
Current Points of Diversion

POD Number	Well Tag	Source	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map	Other Location Desc
C 01354				NW	SE	27	26S	29E	597263.0	3542160.0 *		
C 01354 X				SW	NW	26	26S	29E	598093.0	3542499.0 *		
C 01354 X-2				NW	SE	26	26S	29E	598895.0	3542093.0 *		
C 01354 X-3			NE	NW	SW	23	26S	29E	598323.2	3543837.6		
C 01354 X-4				SE	SE	22	26S	29E	597713.0	3543339.0 *		
C 01354 X-5			SW	SW	SW	22	26S	29E	596462.5	3543354.8		SEE COMMENT SCREEN
C 01354 X-6				NW	SE	22	26S	29E	597297.0	3543769.0 *		
C 01354 X-7				NW	NE	27	26S	29E	597289.0	3542964.0 *		

* UTM location was derived from PLSS - see Help

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Water Right Summary



WR File Number:	C 03479	Subbasin:	C	Cross Reference:
Primary Purpose:	PRO 72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE			
Primary Status:	PMT Permit			
Total Acres:		Subfile:	Header:	
Total Diversion:	0.000	Cause/Case:		
Owner:	ROSS-BRANTLEY JOINT VENTURE	Owner Class:	Agent	
Contact:	JOHN DRAPER BRANTLEY, JR.			

Documents on File

(acre-feet per annum)

Transaction Images	Trn #	Doc	File/Act	Status 1	Status 2	Transaction Desc.	From/To	Acres	Diversion	Consumptive
get images	476144	72121	2011-04-14	PMT	APR	C 03479	T		3.000	

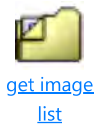
Current Points of Diversion

POD Number	Well Tag	Source	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map	Other Location Desc
C 01354 X-5			SW	SW	SW	22	26S	29E	596462.5	3543354.8		SEE COMMENT SCREEN

* UTM location was derived from PLSS - see Help

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Water Right Summary











WR File Number:	C 01355	Subbasin:	CUB	Cross Reference:
Primary Purpose:	EXP EXPLORATION			
Primary Status:	PMT Permit			
Total Acres:		Subfile:		Header:
Total Diversion:	0.000	Cause/Case:		
Owner:	GEORGE ROSS	Owner Class:	Owner	
Contact:				

Documents on File

(acre-feet per annum)

Transaction Images	Trn #	Doc	File/Act	Status 1	Status 2	Transaction Desc.	From/To	Acres	Diversion	Consumptive
	198567	EXPL	1966-12-23	PMT	APR	C 01355 X 7	T	0.000	0.000	
	198566	EXPL	1966-12-23	PMT	APR	C 01355 X 6	T	0.000	0.000	
	198564	EXPL	1966-12-23	PMT	APR	C 01355 X 5	T	0.000	0.000	
	198562	EXPL	1966-12-23	PMT	APR	C 01355 X 4	T	0.000	0.000	
	198559	EXPL	1966-12-23	PMT	APR	C 01355 X 3	T	0.000	0.000	
	198544	EXPL	1966-12-23	PMT	APR	C 01355 X 2	T	0.000	0.000	
	198542	EXPL	1966-12-23	PMT	APR	C 01355 X	T	0.000	0.000	
	198538	EXPL	1966-12-23	PMT	APR	C 01355	T	0.000	0.000	

Current Points of Diversion

POD Number	Well Tag	Source	Q64	Q16	Q4	Sec	TwS	Rng	X	Y	Map	Other Location Desc
C 01355				NW	SE	27	26S	29E	597263.0	3542160.0 *		
C 01355 X				SW	NW	26	26S	29E	598093.0	3542499.0 *		
C 01355 X.6				NW	SE	22	26S	29E	597297.0	3543769.0 *		
C 01355 X-2				NW	SE	26	26S	29E	598895.0	3542093.0 *		
C 01355 X-3				NW	SW	23	26S	29E	598121.0	3543721.0 *		
C 01355 X-4				SE	SE	22	26S	29E	597713.0	3543339.0 *		
C 01355 X-5				SW	SW	22	26S	29E	596479.0	3543421.0 *		
C 01355 X-7				NW	NE	27	26S	29E	597289.0	3542964.0 *		

* UTM location was derived from PLSS - see Help

Source

Acres	Diversion	CU	Use	Priority	Source	Description
0.000	0.000		EXP		GW	

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9/29/25 12:36 PM MST

Water Rights Summary

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Water Right Summary



[get image](#)
[list](#)

WR File Number:	C 01569	Subbasin:	C	Cross Reference:
Primary Purpose:	STK 72-12-1 LIVESTOCK WATERING			
Primary Status:	PMT Permit			
Total Acres:		Subfile:		Header:
Total Diversion:	3.000	Cause/Case:		
Owner:	WALTER B PASCHAL	Owner Class:	Owner	
Owner:	JACKIE C PASCHAL	Owner Class:	Owner	
Owner:	KATHRYN F PASCHAL	Owner Class:	Owner	
Owner:	BYRON W PASCHAL	Owner Class:	Owner	

Documents on File

(acre-feet per annum)

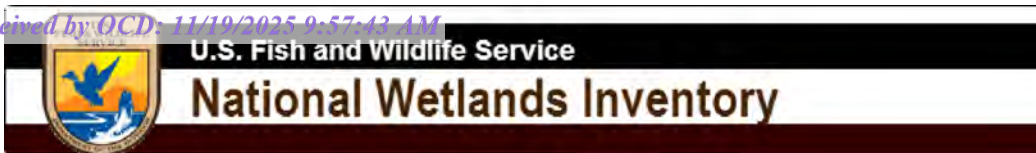
Transaction Images	Trn #	Doc	File/Act	Status 1	Status 2	Transaction Desc.	From/To	Acres	Diversion	Consumptive
_get images 463747		COWNF	1989-11-15	CHG	PRC	C 01569	T		0.000	
_get images 463743		72121	1974-12-02	PMT	APR	C 01569	T		3.000	

Current Points of Diversion

POD Number	Well Tag	Source	Q64	Q16	Q4	Sec	TwS	Rng	X	Y	Map	Other Location Desc
C 01569			SE	SE	NW	22	26S	29E	596978.0	3544093.0 *		

* 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.



Wetland 2,788 feet



September 29, 2025

Wetlands

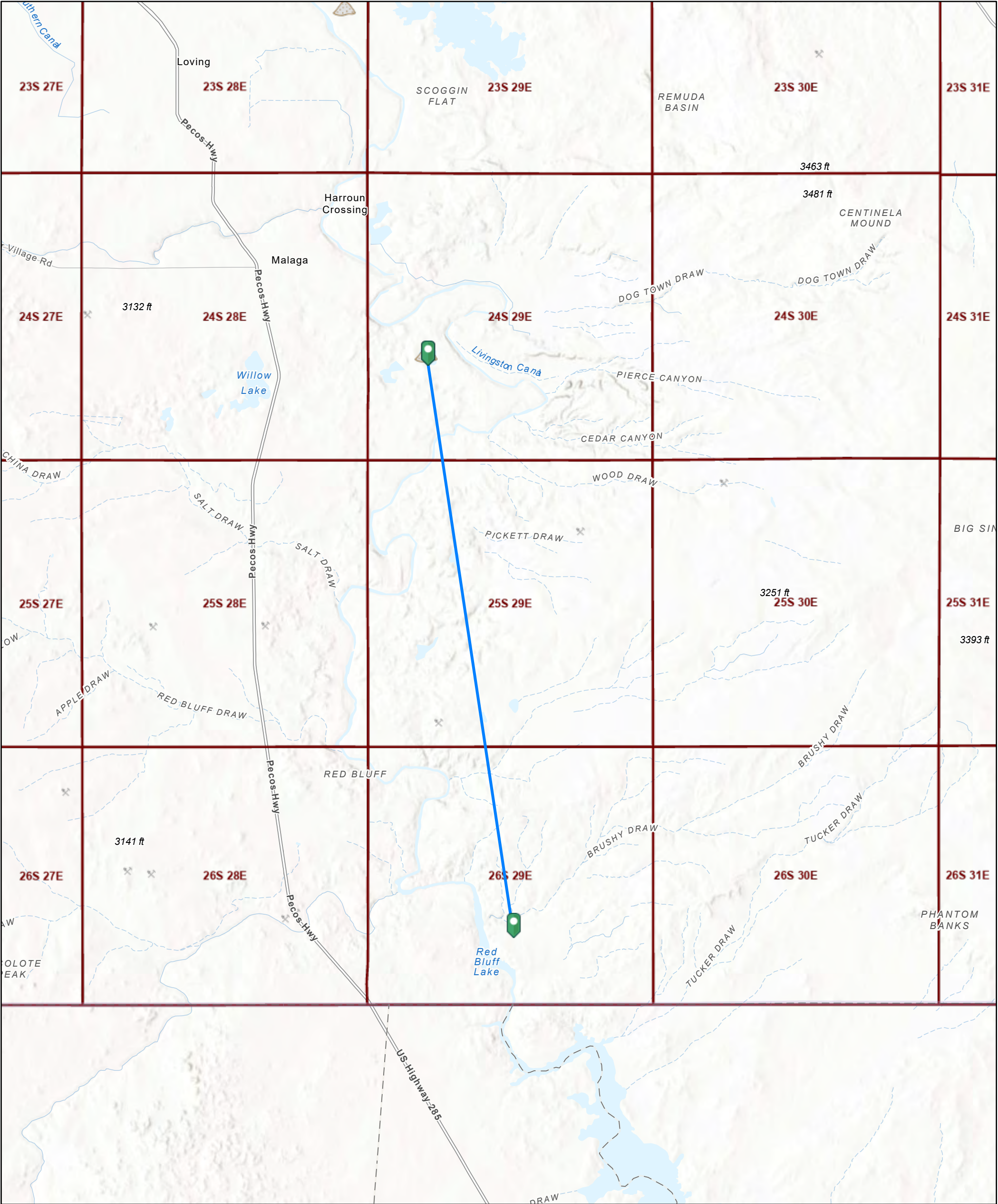
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond

- Lake
- Other
- 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.

Salt Mine 64,336 feet

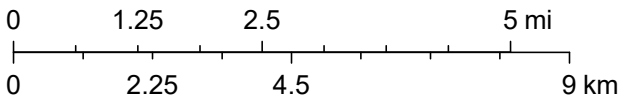


9/29/2025, 2:41:52 PM

Registered Mines

- Aggregate, Stone etc.
- Aggregate, Stone etc.
- Salt
- PLSS Townships

1:144,448



Esri, NASA, NGA, USGS, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community, BLM

High Karst 5,201 feet

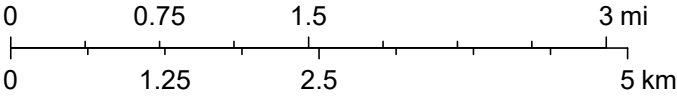


9/29/2025, 2:49:48 PM

Karst Occurrence Potential

- High
- Medium
- Low

1:72,224



BLM, OCD, New Mexico Tech, Esri, HERE, Garmin, Earthstar Geographics

National Flood Hazard Layer FIRMette



103°59'5"W 32°1'30"N



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 9/29/2025 at 8:51 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.

Released to Imaging: 1/15/2026 3:35:51 PM

1:6,000

103°58'27"W 32°1'N

Basemap Imagery Source: USGS National Map 2023



United States
Department of
Agriculture

NRCS

Natural
Resources
Conservation
Service

A product of the National
Cooperative Soil Survey,
a joint effort of the United
States Department of
Agriculture and other
Federal agencies, State
agencies including the
Agricultural Experiment
Stations, and local
participants

Custom Soil Resource Report for Eddy Area, New Mexico



September 29, 2025

Custom Soil Resource Report
Soil Map



Custom Soil Resource Report

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: Eddy Area, New Mexico
Survey Area Data: Version 20, Sep 3, 2024

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

Date(s) aerial images were photographed: Mar 20, 2020—Dec 2, 2022

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.

Custom Soil Resource Report

Eddy Area, New Mexico**US—Upton-Simona complex, 1 to 15 percent slopes, eroded****Map Unit Setting**

National map unit symbol: 1w66
Elevation: 2,000 to 5,700 feet
Mean annual precipitation: 6 to 14 inches
Mean annual air temperature: 57 to 70 degrees F
Frost-free period: 180 to 260 days
Farmland classification: Not prime farmland

Map Unit Composition

Upton and similar soils: 40 percent
Simona and similar soils: 35 percent
Minor components: 25 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Upton**Setting**

Landform: Ridges, fans
Landform position (three-dimensional): Side slope, rise
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Residuum weathered from limestone

Typical profile

H1 - 0 to 9 inches: gravelly loam
H2 - 9 to 13 inches: gravelly loam
H3 - 13 to 21 inches: cemented
H4 - 21 to 60 inches: very gravelly loam

Properties and qualities

Slope: 1 to 15 percent
Depth to restrictive feature: 7 to 20 inches to petrocalcic
Drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Low to moderately high
(0.01 to 0.60 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 75 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Very low (about 1.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: D
Ecological site: R070BC025NM - Shallow
Hydric soil rating: No

Custom Soil Resource Report

Description of Simona**Setting**

Landform: Plains, alluvial fans
Landform position (three-dimensional): Rise
Down-slope shape: Convex, linear
Across-slope shape: Linear
Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 6 inches: gravelly fine sandy loam
H2 - 6 to 20 inches: gravelly fine sandy loam
H3 - 20 to 24 inches: indurated

Properties and qualities

Slope: 1 to 5 percent
Depth to restrictive feature: 7 to 20 inches to petrocalcic
Drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 15 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Very low (about 2.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: D
Ecological site: R070BD002NM - Shallow Sandy
Hydric soil rating: No

Minor Components**Rock outcrop**

Percent of map unit: 9 percent
Hydric soil rating: No

Pajarito

Percent of map unit: 8 percent
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Dune land

Percent of map unit: 8 percent
Hydric soil rating: No



Ecological site R070BC025NM

Shallow

Accessed: 12/21/2024

General information

Provisional. A provisional ecological site description has undergone quality control and quality assurance review. It contains a working state and transition model and enough information to identify the ecological site.

Figure 1. Mapped extent

Areas shown in blue indicate the maximum mapped extent of this ecological site. Other ecological sites likely occur within the highlighted areas. It is also possible for this ecological site to occur outside of highlighted areas if detailed soil survey has not been completed or recently updated.

Table 1. Dominant plant species

Tree	Not specified
Shrub	Not specified
Herbaceous	Not specified

Physiographic features

This site occurs on knolls, ridges, hillslopes alluvial fans and escarpments. Slopes range fro 0 to 25 percent and average about 7 percent. Direction of slope varies and is usually not significant. Elevations range from 2,842 to 4,500 feet.

Table 2. Representative physiographic features

Landforms	(1) Hill (2) Ridge (3) Fan piedmont
Flooding frequency	None
Ponding frequency	None
Elevation	2,842–4,500 ft
Slope	0–25%
Aspect	Aspect is not a significant factor

Climatic features

The average annual precipitation ranges from 8 to 13 inches. Variations of 5 inches, more or less, are common. Over 80 percent of the precipitation falls from April through October. Most of the summer precipitation comes in the form of high intensity – short duration thunderstorms.

Temperatures are characterized by distinct seasonal changes and large annual and diurnal temperature changes. The average annual temperature is 61 degrees with extremes of 25 degrees below zero in the winter to 112 degrees in the summer.

The average frost-free season is 180 to 220 days. The last killing frost is late March or early April, and the first killing frost is in late October or early November.

Temperature and rainfall both favor warm season perennial plant growth. In years of abundant spring moisture, annual forbs and cool season grasses can make up an important component of this site. Because of the shallow soil depth, the vegetation on this site can take advantage of moisture almost anytime it falls. Strong winds that blow from the west and southwest blow from January through June, which accelerates soil drying at a critical time for cool season plant growth.

Climate data was obtained from <http://www.wrcc.sage.dri.edu/summary/climsmnm.html> web site using 50% probability for freeze-free and frost-free seasons using 28.5 degrees F and 32.5 degrees F respectively.

Table 3. Representative climatic features

Frost-free period (average)	220 days
Freeze-free period (average)	240 days
Precipitation total (average)	13 in

Influencing water features

This site is not influenced from water from wetlands or streams.

Soil features

The soils of this site are shallow to very shallow. Soils are derived from mixed calcareous eolian deposits derived from sedimentary rock. Surface layers are very cobbly loam, very gravelly loam, gravelly loam, cobbly loam, gravelly fine sandy loam or gravelly sandy loam.

There is an indurated caliche layer or limestone bedrock that occurs within 20 inches and averages less than 10 inches. Limestone or caliche layer may be the restrictive layer.

Minimum and maximum values listed below represent the characteristic soils for this site.

Characteristic soils:

Lozier
Potter
Tencee
Upton
Ector
Kimbrough

Table 4. Representative soil features

Surface texture	(1) Gravelly loam (2) Extremely gravelly loam (3) Extremely cobbly loam
Family particle size	(1) Loamy
Drainage class	Well drained
Permeability class	Very slow to moderately slow
Soil depth	4–20 in
Surface fragment cover <=3"	15–40%
Available water capacity (0-40in)	1 in
Calcium carbonate equivalent (0-40in)	15–60%

Electrical conductivity (0-40in)	0–2 mmhos/cm
Sodium adsorption ratio (0-40in)	0–1
Soil reaction (1:1 water) (0-40in)	7.4–8.4
Subsurface fragment volume <=3" (Depth not specified)	13–42%
Subsurface fragment volume >3" (Depth not specified)	0–1%

Ecological dynamics

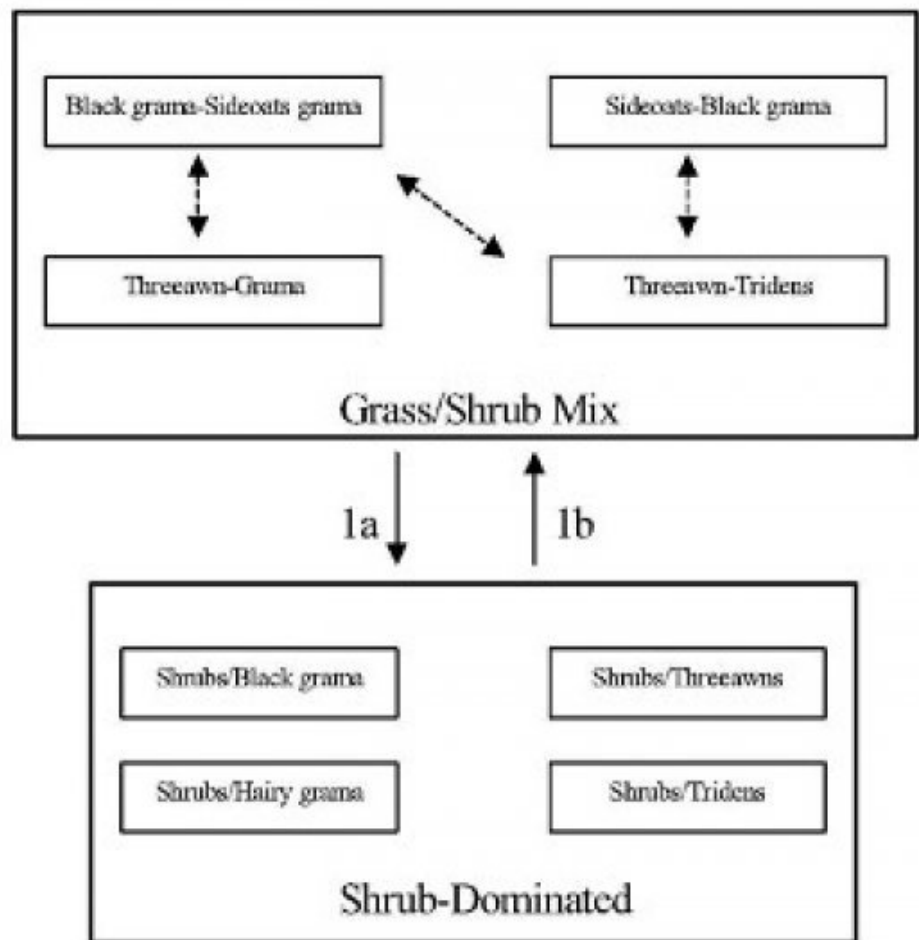
Overview:

The Shallow site is associated with and Limestone Hills, Loamy, and Shallow Sandy sites. When associated with Limestone Hills, the Shallow site occurs on the summits, foot slopes and toeslopes of hills. Loamy sites often occur as areas between low elongated hills with rounded crests (Shallow site). When the Shallow Sandy site and Shallow site occur in association, the Shallow Sandy soils occupy the tops of low ridges and the Shallow site soils occur on the steeper sideslopes of the ridge. The historic plant community of the Shallow site has the aspect of a grassland/shrub mix, dominated by grasses, but with shrubs common throughout the site. Black grama is the dominant grass species; creosotebush, mesquite, and catclaw mimosa are common shrubs. Overgrazing and or extended drought can reduce grass cover, effect a change in grass species dominance, and may result in a shrub-dominated state. 1

State and transition model

Plant Communities and Transitional Pathways (diagram)

MLRA-42, SD-3, Shallow



1a. Extended drought, overgrazing, no fire

1b. Brush control, Prescribed grazing

State 1

Grass/Shrub Mix

Community 1.1

Grass/Shrub Mix

Grassland/Shrub Mix: The historic plant community is dominated by black grama with sideoats grama as the sub-dominant. Blue grama, hairy grama, bush muhly, and sand dropseed also occur in significant amounts. Sideoats grama can occur as the dominant grass with black grama as sub-dominant on the western side of the Land Resource Unit SD-3. This may be due to higher average elevation on the west side. Retrogression within this state due to extended drought or overgrazing will cause a decrease in species such as black grama, sideoats grama, blue grama, and bush muhly. Threeawns may become the dominant grass species due to a decline in more palatable grasses or because of its ability to quickly recover following drought. Continued loss of grass cover and associated increase in amount of bare ground may result in a shrub-dominated state. Decreased fire frequencies may also be

an important component in the cause of this transition. Diagnosis: Grass cover is fairly uniform, however, surface gravel, cobble, and bare ground make up a large percent of total ground cover, and grass production during unfavorable years may only average 150-175 pounds per acre. Shrubs are common with canopy cover averaging five to ten percent. Evidence of erosion such as rills and gullies are rare, but may occur on slopes greater than eight percent.

Table 5. Annual production by plant type

Plant Type	Low (Lb/Acre)	Representative Value (Lb/Acre)	High (Lb/Acre)
Grass/Grasslike	168	352	536
Shrub/Vine	63	131	200
Forb	20	42	64
Total	251	525	800

Table 6. Ground cover

Tree foliar cover	0%
Shrub/vine/liana foliar cover	5-10%
Grass/grasslike foliar cover	10-15%
Forb foliar cover	0%
Non-vascular plants	0%
Biological crusts	0%
Litter	5-8%
Surface fragments >0.25" and <=3"	0%
Surface fragments >3"	0%
Bedrock	0%
Water	0%
Bare ground	40-60%

**Figure 5. Plant community growth curve (percent production by month).
NM2825, R042XC025NM Shallow HCPC. R042XC025NM Shallow HCPC Warm
Season Plant Community.**

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0	0	3	5	10	10	25	30	12	5	0	0

State 2 Shrub-Dominated

Community 2.1 Shrub-Dominated

Shrub-Dominated: This state is characterized by an increase in shrubs and a decrease in grass cover relative to grassland/shrub mix. As grass cover decreases shrubs increase, especially creosotebush, catclaw mimosa, whitethorn acacia, and mesquite. Each of these shrub species may become dominant in localized areas or across the site, depending on the spatial variability in soil characteristics and landscape position. Black grama, threeawns, hairy grama, or hairy tridens may be the dominant grass species. Fluffgrass, burrograss and broom snakeweed increase in representation. The Shallow site is resistant to state change, due to the natural rock armor of the soil and a shallow impermeable layer. The amount of rock fragments on the soil surface assist in retarding erosion. On Shallow sites with low slope, the shallow depth to either a petrocalcic layer or limestone bedrock helps to keep water perched and available to shallow rooted grasses for extended periods. 2 Diagnosis: Shrubs are the dominant species, especially creosotebush, catclaw mimosa, whitethorn acacia, or mesquite. Grass cover is variable ranging

from patchy with large connected bare areas present to sparse with only a limited amount in shrub inter-spaces. Transition to Shrub-Dominated (1a) Overgrazing and or extended periods of drought, and suppression of natural fire regimes are thought to cause this transition. As grass cover is lost, soil fertility and available soil moisture decline, due to the reduction of organic matter and decreased infiltration.³ Shrubs have the ability to extract nutrients and water from a greater area of soil than grasses and are better able to utilize limited water. Competition by shrubs for water and nutrients limits grass recruitment and establishment. Fire historically may have played a part in suppressing shrub expansion; fire suppression may therefore facilitate shrub expansion. Key indicators of approach to transition: *Decrease or change in composition or distribution of grass cover. *Increase in size and frequency of bare patches. *Increase in amount of shrub seedlings. Transition back to Grassland/Shrub Mix (1b) Brush control is necessary to re-establish grasses. Prescribed grazing will help to ensure proper forage utilization and sustain grass cover. Once the transition is reversed and grass cover is re-established, periodic use of prescribed fire may assist in maintaining the Grassland/Shrub state.

Additional community tables

Table 7. Community 1.1 plant community composition

Group	Common Name	Symbol	Scientific Name	Annual Production (Lb/Acre)	Foliar Cover (%)
Grass/Grasslike					
1				105–158	
	black grama	BOER4	<i>Bouteloua eriopoda</i>	105–158	–
2				79–105	
	sideoats grama	BOCU	<i>Bouteloua curtipendula</i>	79–105	–
3				79–105	
	blue grama	BOGR2	<i>Bouteloua gracilis</i>	79–105	–
	hairy grama	BOHI2	<i>Bouteloua hirsuta</i>	79–105	–
4				26–53	
	bush muhly	MUPO2	<i>Muhlenbergia porteri</i>	26–53	–
5				16–26	
	cane bluestem	BOBA3	<i>Bothriochloa barbinodis</i>	16–26	–
6				26–53	
	sand dropseed	SPCR	<i>Sporobolus cryptandrus</i>	26–53	–
7				16–26	
	hairy woollygrass	ERPI5	<i>Erioneuron pilosum</i>	16–26	–
8				5–16	
	ear muhly	MUAR	<i>Muhlenbergia arenacea</i>	5–16	–
9				5–16	
	New Mexico feathergrass	HENE5	<i>Hesperostipa neomexicana</i>	5–16	–
10				5–16	
	low woollygrass	DAPU7	<i>Dasyochloa pulchella</i>	5–16	–
11				16–26	
	Grass, perennial	2GP	<i>Grass, perennial</i>	16–26	–
Forb					
12				11–26	
	stemless four-nerve daisy	TEACE	<i>Tetraneuris acaulis</i> var. <i>epunctata</i>	11–26	–
13				5–16	
	woolly groundsel	PACA15	<i>Packera cana</i>	5–16	–

APPENDIX B – Daily Field Report(s)



Daily Site Visit Report

Client:	Devon Energy Corporation	Incident ID #:	
Site Location Name:	East Pecos Federal 22 #009H	API #:	
Inspection Date:	11/10/2025		

Summary of Times

Arrived at Site	11/10/2025 10:15 AM
Departed Site	11/10/2025 10:59 AM

Daily Site Visit Report



Site Sketch

Site Sketch

Daily Site Visit Report



Field Notes

- 10:36** Completed safety paperwork upon arrival
- 10:36** Inspected the outside of the containment and found no breach of containment
- 10:56** Inspected the inside of the liner and found no holes or significant wear
- 10:57** The liner was determined to be intact and as such has adequate liner integrity to contain the release

Next Steps & Recommendations

1

Daily Site Visit Report



Site Photos

Viewing Direction: North



Descriptive Photo - 1
Viewing Direction: North
Desc: East side of the containment
Created: 11/10/2025 10:38:27 AM
Lat:32.020534, Long:-103.979557

East side of the containment has integrity

Viewing Direction: North



Descriptive Photo - 2
Viewing Direction: North
Desc: South side of containment has integrity
Created: 11/10/2025 10:38:21 AM
Lat:32.020508, Long:-103.979498

South side of containment has integrity

Viewing Direction: North



Descriptive Photo - 3
Viewing Direction: North
Desc: West side of containment has integrity
Created: 11/10/2025 10:39:58 AM
Lat:32.020538, Long:-103.979520

West side of containment has integrity

Viewing Direction: South



Descriptive Photo - 4
Viewing Direction: South
Desc: West side of containment has integrity
Created: 11/10/2025 10:40:05 AM
Lat:32.020538, Long:-103.979520

West side of containment has integrity



Daily Site Visit Report

Viewing Direction: South



North side of containment has integrity

Viewing Direction: Southwest



East side of containment has integrity

Viewing Direction: South



Northeast area of the liner is intact

Viewing Direction: South



Eastern area of the containment is intact



Daily Site Visit Report

Viewing Direction: South



Southeast area of the liner is intact

Viewing Direction: North



Southwest area of the liner is intact

Viewing Direction: North



Northwest area of the liner is intact

Viewing Direction: East



Area between the southern and central tanks are intact



Daily Site Visit Report

Viewing Direction: East



Area between the northern and central tanks are intact

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Katrina Taylor

Signature:


Signature

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

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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 527899

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 527899
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2523824000
Incident Name	NAPP2523824000 EAST PECOS FEDERAL 22 #003H @ 30-015-42285
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-015-42285] EAST PECOS FEDERAL 22 #003H

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

Site Name	EAST PECOS FEDERAL 22 #003H
Date Release Discovered	08/25/2025
Surface Owner	Private

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 Valve Produced Water Released: 6 BBL Recovered: 6 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)	Valve failure on tank allowed produced water to be released to lined secondary containment. Fluids fully recovered.

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QUESTIONS, Page 2

Action 527899

QUESTIONS (continued)

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 527899
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	<i>Unavailable.</i>
<i>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.</i>	

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	<i>Not answered.</i>

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@dvsn.com Date: 11/19/2025
--	---

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QUESTIONS, Page 3

Action 527899

QUESTIONS (continued)

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 527899
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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 1000 (ft.) and ½ (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	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)
Any other fresh water well or spring	Between 500 and 1000 (ft.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between ½ and 1 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between ½ and 1 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between 1000 (ft.) and ½ (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan	
<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	Yes
<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	11/09/2025
On what date will (or did) the final sampling or liner inspection occur	11/10/2025
On what date will (or was) the remediation complete(d)	11/10/2025
What is the estimated surface area (in square feet) that will be remediated	4287
What is the estimated volume (in cubic yards) that will be remediated	0
<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 527899

QUESTIONS (continued)

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 527899
	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)	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: 11/19/2025
<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 6

Action 527899

QUESTIONS (continued)

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 527899
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Liner Inspection Information	
Last liner inspection notification (C-141L) recorded	523006
Liner inspection date pursuant to Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC	11/10/2025
Was all the impacted materials removed from the liner	Yes
What was the liner inspection surface area in square feet	4287

Remediation Closure Request	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
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	4287
What was the total volume (cubic yards) remediated	0
Summarize any additional remediation activities not included by answers (above)	Liner Inspected
<i>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>	
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: James Raley Title: EHS Professional Email: jim.raley@dvu.com Date: 11/19/2025

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CONDITIONS

Action 527899

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 527899
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	The liner report is approved.	1/15/2026