



26A-02188

Characterization Plan

Mobil CI Federal #005

Incident I.D: nMCS0124842142

API: 30-015-23218

Coordinates: 32.686983, -104.523580

Prepared for:

Riley Exploration Permian, Inc.

Prepared by:

Vertex Resource Services, Inc.

Date:

May 2026

Riley Exploration Permian, Inc.

Mobil CI Federal #005

Characterization Plan

May 2026

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Mobil CI Federal #005

Incident I.D: nMCS0124842142

API: 30-015-23218

Coordinates: 32.686983, -104.523580

On behalf of:

Riley Exploration Permian, Inc.

500, 29 East Reno Avenue

Oklahoma City, Oklahoma 73104

Prepared for:

New Mexico Oil Conservation

508 West Texas Avenue

Artesia, New Mexico 88210

Prepared by:

Vertex Resource Services, Inc.

3101 Boyd Drive

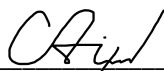
Carlsbad, New Mexico 88220



John Rewis, B.Sc.
ENVIRONMENTAL TECHNICIAN, REPORTING

May 4, 2026

Date



Chance Dixon, B.Sc.
SENIOR PROJECT MANAGER, REPORT REVIEW

May 4, 2026

Date

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1.0 Introduction

Riley Exploration Permian, Inc. retained Vertex Resource Services Inc. (Vertex) to complete an initial site assessment and Characterization Plan for Mobil CI Federal #005 (hereafter referred to as “site”). This Characterization Plan discusses actions conducted to date and proposes additional characterization activities for the open incident (nMCS0124842142) that was initiated on April 28, 2001.

2.0 Background

2.1 Site Description

New Mexico Oil Conservation District identified two areas of interest (AOI) at the provided coordinates 32.686983, -104.523580 and 32.686859, -104.523279. The AOI are located in the pasture approximately 620 feet (0.12 miles) to the southeast of the active oil and gas production pad Mobil CI Federal #004 (Figure 1). Surface and subsurface mineral ownership belongs to the Betty R. Howell, Revocable Trust. The site is situated in a mostly flat area surrounded by gravelly, sandy loam plains with grassy mesquite shrublands. Grama grasses and forbs are present on and off the pad.

3.0 Site Evaluation

Initial site assessment occurred on April 8, 2026, by Vertex personnel. The AOI was located in the pasture approximately 620 feet to the southeast of the Mobil CL Federal #004 pad. The AOI had little to no vegetation growing. Documentation of the site visit is included in the daily field report (Appendix B) and summarized below.

- The Mobil CI Federal #005 flowline referenced in incident nMCS0124842142 runs north-south and connects to the Mobil CI Federal #004 at the AOI
- The AOI was previously remediated in June 2018, with the Remediation Closure Report of incident nAB1801742031 being approved on October 25, 2019
- No observable staining or signs of impact were identified outside the AOI

3.1 Assessment of Soil Suitability

The site is in a medium karst potential area, therefore the most stringent Closure Criteria per Table 1 of *New Mexico Administrative Code* (NMAC) 19.15.29 applies (New Mexico Oil Conservation Division, 2018). Closure Criteria determination is summarized in Table 1 and visualized in the Closure Criteria Documentation in Appendix A. Closure Criteria is defined as:

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

DTGW – depth to groundwater

bgs – below ground surface

For the purpose of this document, soil suitability is defined as:

- Suitable Soils – soils that meet the above Closure Criteria concentrations and consists of compositions that support vegetative growth (i.e., topsoil)
- Unsuitable Soils – soils that exceed the above Closure Criteria
- Undesirable Soils – soils that meet the above Closure Criteria and consists of caliche, gypsum, limestone or compositions that inhibit vegetation growth

4.0 Characterization Plan

Vertex personnel will advance two exploratory boreholes at the locations shown on Figure 1 to a minimum depth of four feet below ground surface or until the vertical extent of impact meets the closure criteria established in Table 1 in accordance with 19.15.29 NMAC requirements to determine if any impact remains from the 2018 cleanup. Soil samples will be collected at one-foot intervals and will satisfy the delineation requirements per 19.15.29 NMAC with more than two discrete samples collected per sample point. Field screening results will be used to guide sample collection and evaluate the vertical extent of potential impacts. Horizontal delineation will be completed if any impact is detected.

Field screening will be conducted using a photoionization detector (PID) for volatile hydrocarbons, a Dextil PetroFlag in accordance with EPA SW-846 Method 9074 for extractable hydrocarbons, and silver nitrate titration for chlorides. Laboratory analyses will be performed in accordance with the following methods:

- Benzene, toluene, ethylbenzene and xylene – Method 8021
- Total Petroleum Hydrocarbons – Method SW-8015B
- Chlorides – Method 300.0

5.0 References

Google Inc. (2026). *Google Earth Pro (Version 7.3.3)* [Software]. Retrieved from <https://earth.google.com>

Griffith, G.E., Omernik, J.M., McGraw, M.M., Jacobi, G.Z., Canavan, C.M., Schrader, T.S., Mercer, D., Hill, R., and Moran, B.C. (2006). *Ecoregions of New Mexico*. Available at: <https://www.epa.gov/eco-research/ecoregion-download-files-state-region-6#pane-29>

Natural Resources Conservation Service. (2012, Reprint 2021). *Field Book for Describing and Sampling Soils Version 3.0*. National Soil Survey Center: Natural Resources Conservation Service. U.S. Department of Agriculture. Pg. 2-89. Retrieved from: <https://www.nrcs.usda.gov/sites/default/files/2022-09/field-book.pdf>

New Mexico Oil Conservation Division. (2018). *New Mexico Administrative Code – Natural Resources and Wildlife Oil and Gas Releases*. Santa Fe, New Mexico.

United States Department of Agriculture, Natural Resources Conservation Service. (2026). *Web Soil Survey*. Retrieved from: <https://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx>

6.0 Limitations

This report has been prepared for the sole benefit of Riley Exploration Permian, Inc. 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 Riley Exploration Permian, Inc. 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



Testpit
 Approximate Production Pad



0 50 100 ft.
 NAD 1983 UTM Zone 13N
 Date: Apr 30/26

Map Center:
 Lat: 32.687151°N,
 Long: 104.524353°W



Proposed Characterization Sampling Site
Schematic Mobil CI Federal #005

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. Approximate production pad from imagery by Vertex Professional Services Ltd. (VPS), 2026. Site features from GPS by VPS, 2026.

Document Path: S:\04 - Geomatics\1-Projects\1- US PROJECS\Riley Exploration Permian Inc\26A-02188 - Mobil CI Federal #005\00 - ArcPro\26A-02188 - Mobil CI Federal #005.aprx

TABLES

Table 2. Closure Criteria Determination			
Site Name: Mobil CI Federal #005			
Spill Coordinates: 32.686983, -104.523580		X: 544661.87	Y: 3616687
Site Specific Conditions		Value	Unit
1	Depth to Groundwater (nearest reference)	>105	feet
	Distance between release and nearest DTGW reference	2,317	feet
		0.44	miles
Date of nearest DTGW reference measurement		September 26, 2022	
2	Within 300 feet of any continuously flowing watercourse or any other significant watercourse	2,857	feet
3	Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark)	6,202	feet
4	Within 300 feet from an occupied residence, school, hospital, institution or church	17,300	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	5,472	feet
	ii) Within 1000 feet of any fresh water well or spring	5,472	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	feet
7	Within 300 feet of a wetland	5,602	feet
8	Within the area overlying a subsurface mine	No	feet
	Distance between release and nearest registered mine	39,104	feet
9	Within an unstable area (Karst Map)	Medium	Critical High Medium Low
	Distance between release and nearest unstable area	0	feet
10	Within a 100-year Floodplain	500	year
	Distance between release and nearest FEMA Zone A (100-year Floodplain)	5,205	feet
11	Soil Type	Upton-Reagan complex	
12	Ecological Classification	Shallow	
13	Geology	Piedmont alluvial deposits	
	NMAC 19.15.29.12 E (Table 1) Closure Criteria	<50'	≤ 50' 51-100' >100'

APPENDIX A – Closure Criteria Research Documentation



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		WELL TAG ID NO.		OSE FILE NO(S) RA-13243	
	WELL OWNER NAME(S) EOG Resources				PHONE (OPTIONAL)	
	WELL OWNER MAILING ADDRESS 105 S 4th Street				CITY Artesia	STATE ZIP NM 88210
	WELL LOCATION (FROM GPS)	DEGREES 32	MINUTES 41	SECONDS 1.25	* ACCURACY REQUIRED: ONE TENTH OF A SECOND	
	LATITUDE	104	31	48.05	* DATUM REQUIRED: WGS 84	
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE						

2. DRILLING & CASING INFORMATION	LICENSE NO. WD-1670	NAME OF LICENSED DRILLER Kenny Cooper			NAME OF WELL DRILLING COMPANY HCI Drilling			
	DRILLING STARTED 09/26/2022	DRILLING ENDED 09/26/2022	DEPTH OF COMPLETED WELL (FT) 105	BORE HOLE DEPTH (FT) 105	DEPTH WATER FIRST ENCOUNTERED (FT) N/A			
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN *add Centralizer info below <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A	DATE STATIC MEASURED		
	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:					CHECK HERE IF PITLESS ADAPTER IS INSTALLED <input type="checkbox"/>		
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	95	6	PVC	FJ	2	.40	
	95	105	6	PVC	FJ	2	.40	.010
	USE DIT DEC 9 2022 PM 4:18							
2022 DEC 9 PM 9:50 STATE ENGINEER OFFICE								

3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL <i>*(if using Centralizers for Artesian wells- indicate the spacing below)</i>	AMOUNT (cubic feet)	METHOD OF PLACEMENT
	FROM	TO				
				N/A		

FOR OSE INTERNAL USE

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

FILE NO. RA-13243	POD NO. 1	TRN NO. 734540
LOCATION Ob. 195. 25E 433	WELL TAG ID NO. 117	PAGE 1 OF 2



Mobil CI Federal #005 Watercourse 2,857 f



April 24, 2026

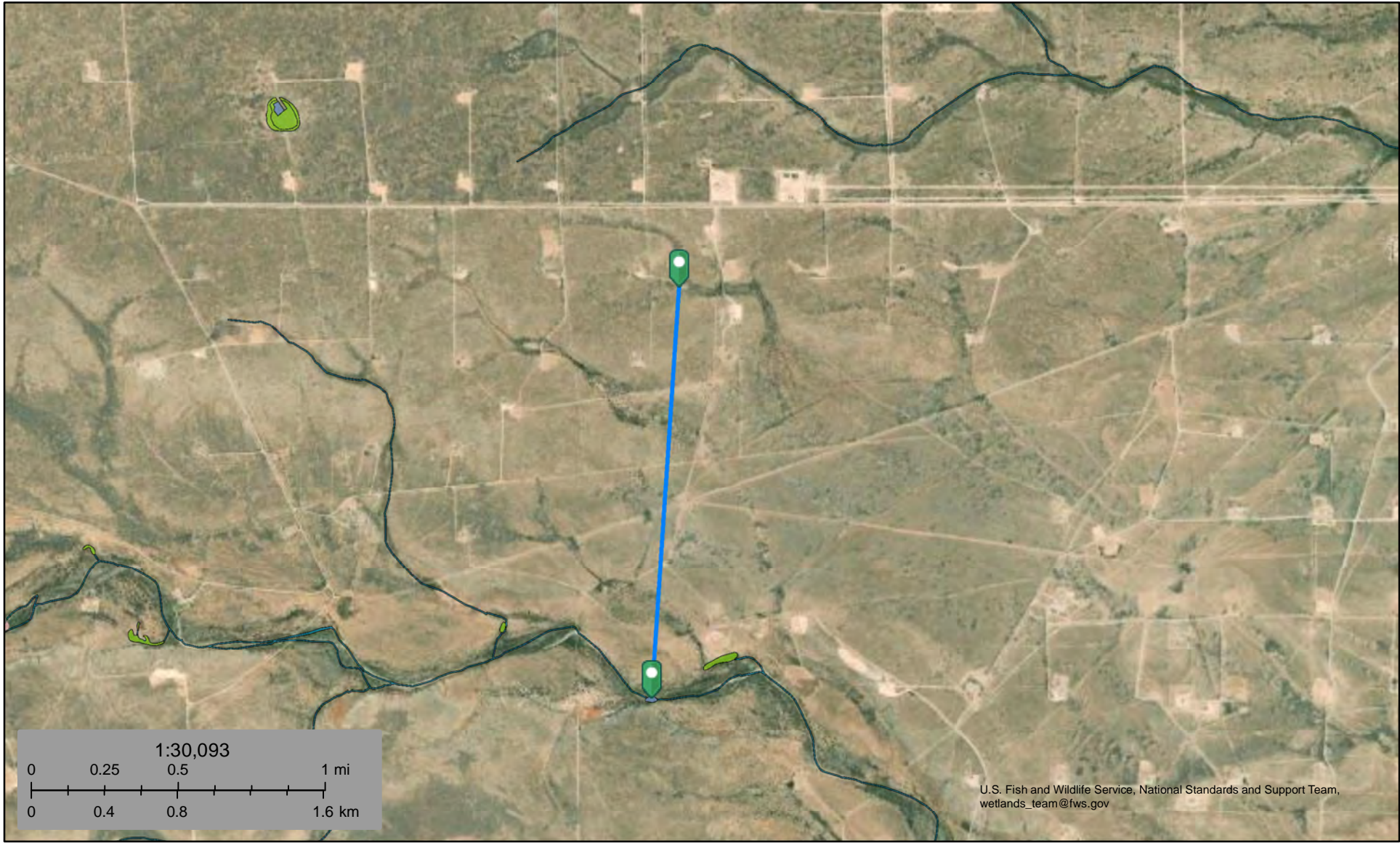
Wetlands

- Estuarine and Marine Deepwater
- 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.



Mobil CI Federal #005 Pond 6,202 ft



April 24, 2026

Wetlands




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

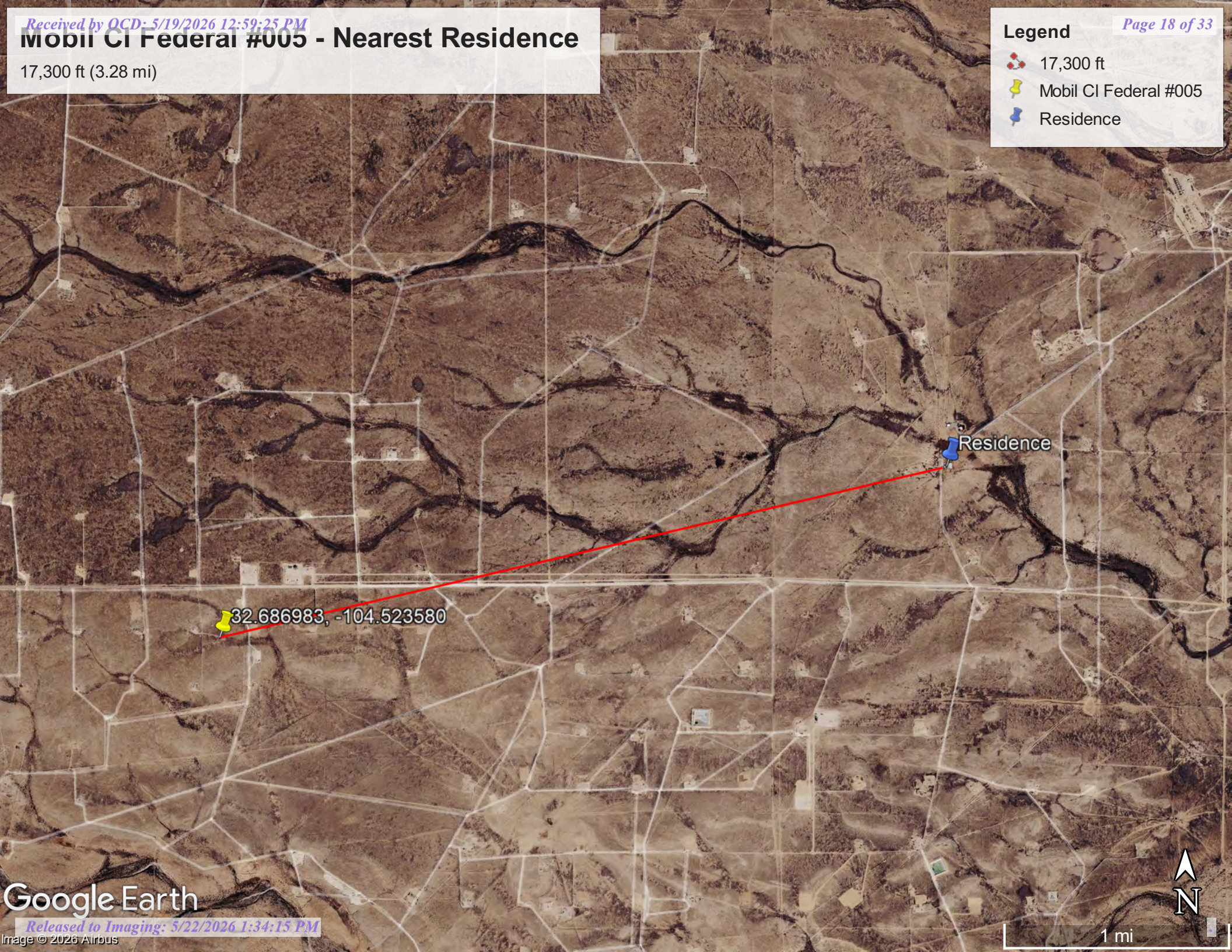
This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

Mobil CI Federal #005 - Nearest Residence

17,300 ft (3.28 mi)

Legend

-  17,300 ft
-  Mobil CI Federal #005
-  Residence



32.686983, -104.523580

Residence





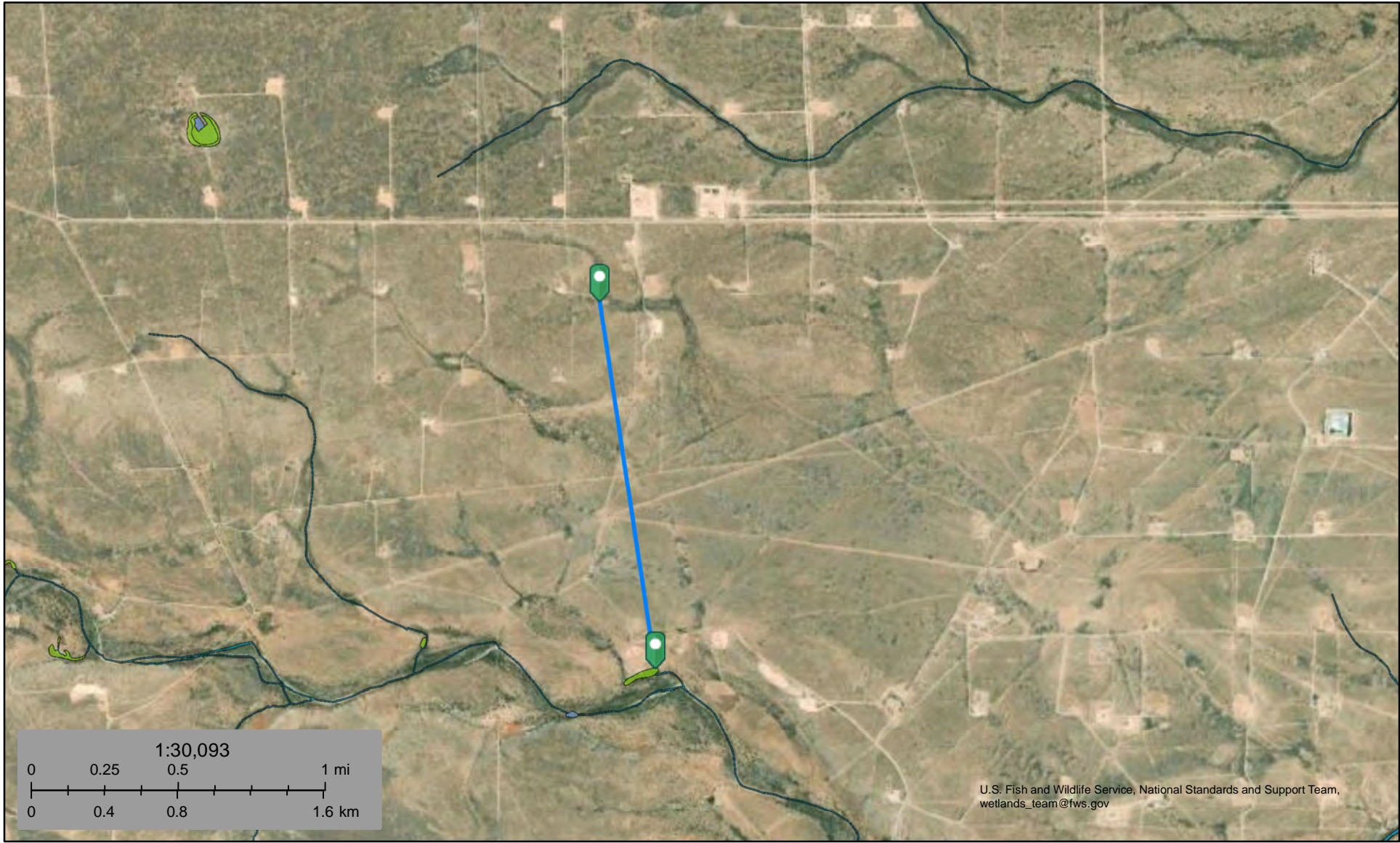
New Mexico Office of the State Engineer

Active & Inactive Points of Diversion

WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Well Tag	Code	Grant	Source	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)				Range	(NAD83 UTM in meters)		Map	Distance	
											q64	q16	q4	Sec		Tws	X			Y
RA 13243	RA	EXP	0.000	RANGER ENVIRONMENTAL SERVICES	ED	RA 13243 POD1	NA				SE	SW	SW	06	19S	25E	544060.4	3616318.2		705.5
RA 13183	RA	MON	0.000	EOG RESOURCES, INC.	ED	RA 13183 POD1	NA				SE	SE	NE	06	19S	25E	545287.6	3617141.6		773.4
					ED	RA 13183 POD2	NA				SE	SE	NW	05	19S	25E	546179.0	3617084.4		1,568.3
RA 13238	RA	EXP	0.000	EOG RESOURCES, INC.	ED	RA 13238 POD1	NA				NE	SW	NE	01	19S	24E	543237.3	3617424.7		1,604.2
RA 05331	RA	DOL	3.000	JAMES H.HOWELL, REVOCABLE TRUST	ED	RA 05331				Shallow	NW	NW	SE	05	19S	25E	546308.0	3616955.0 *		1,667.8
RA 03959	RA	STK	3.000	HOWELL REVOCABLE TRUST	ED	RA 03959				Shallow		NE	SE	12	19S	24E	543589.0	3615225.0 *		1,813.4
RA 06436	RA	STK	3.000	HOWARDHOWELL	ED	RA 06436				Shallow	SW	NW	SE	12	19S	24E	543145.5	3615180.4		2,137.6
RA 04335	RA	DOL	3.000	YATES RANCH PROPERTY LLP.	CH	RA 04335				Shallow		NW	NW	32	18S	25E	545580.0	3619275.0 *		2,746.0
RA 06418	RA	STK	3.000	JAMES H. & BETTY R.HOWELL REVOCABLE TRUST	ED	RA 06418				Shallow	NW	NE	SW	17	19S	25E	545959.7	3613809.4		3,156.7
RA 08148	RA	STK	3.000	YATES RANCH PROPERTY LLP	ED	RA 08148				Shallow	SW	SW	NW	36	18S	24E	542252.0	3618748.0 *		3,171.0
RA 11061	RA	STK	3.000	YATES RANCH PROPERTY LLP	ED	RA 11061 POD1						SE	NE	35	18S	24E	541949.0	3618852.0 *		3,470.9
RA 13269	RA	MON	0.000	EOG RESOURCES, INC.	ED	RA 13269 POD1	NA				SE	NW	NW	16	19S	25E	547275.5	3614401.3		3,472.1
RA 13230	RA	EXP	0.000	EOG RESOURCES, INC.	ED	RA 13230 POD1	NA				SE	NE	NE	14	19S	24E	542086.1	3614287.7		3,520.1
RA 08146	RA	STK	3.000	YATES RANCH PROPERTY LLP	ED	RA 08146				Shallow	SE	SE	SW	28	18S	25E	547693.0	3619576.0 *		4,187.4
RA 05900	RA	STK	3.000	JAMES H.HOWELL, TRUST	ED	RA 05900				Shallow		NE	NE	16	19S	25E	548392.9	3614627.7		4,261.6



Mobil CI Federal #005 Wetland 5,602 ft



April 24, 2026

Wetlands

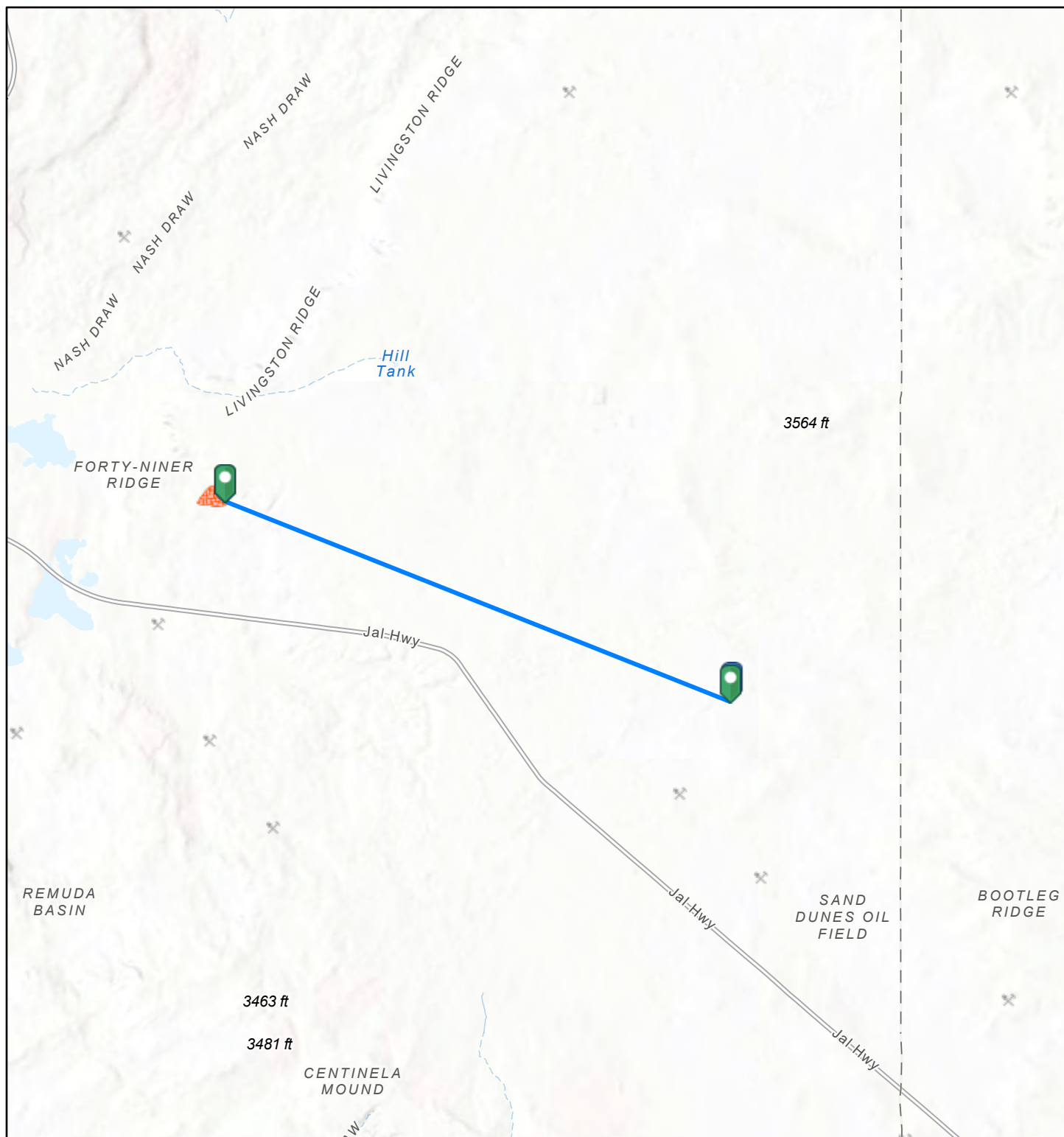
- Estuarine and Marine Deepwater
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- Freshwater Emergent Wetland
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- Other
- Riverine

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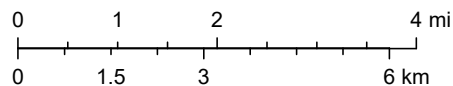
Mobil CL Federal #005 39,104 ft to Nearest Mine






4/24/2026, 5:08:13 PM

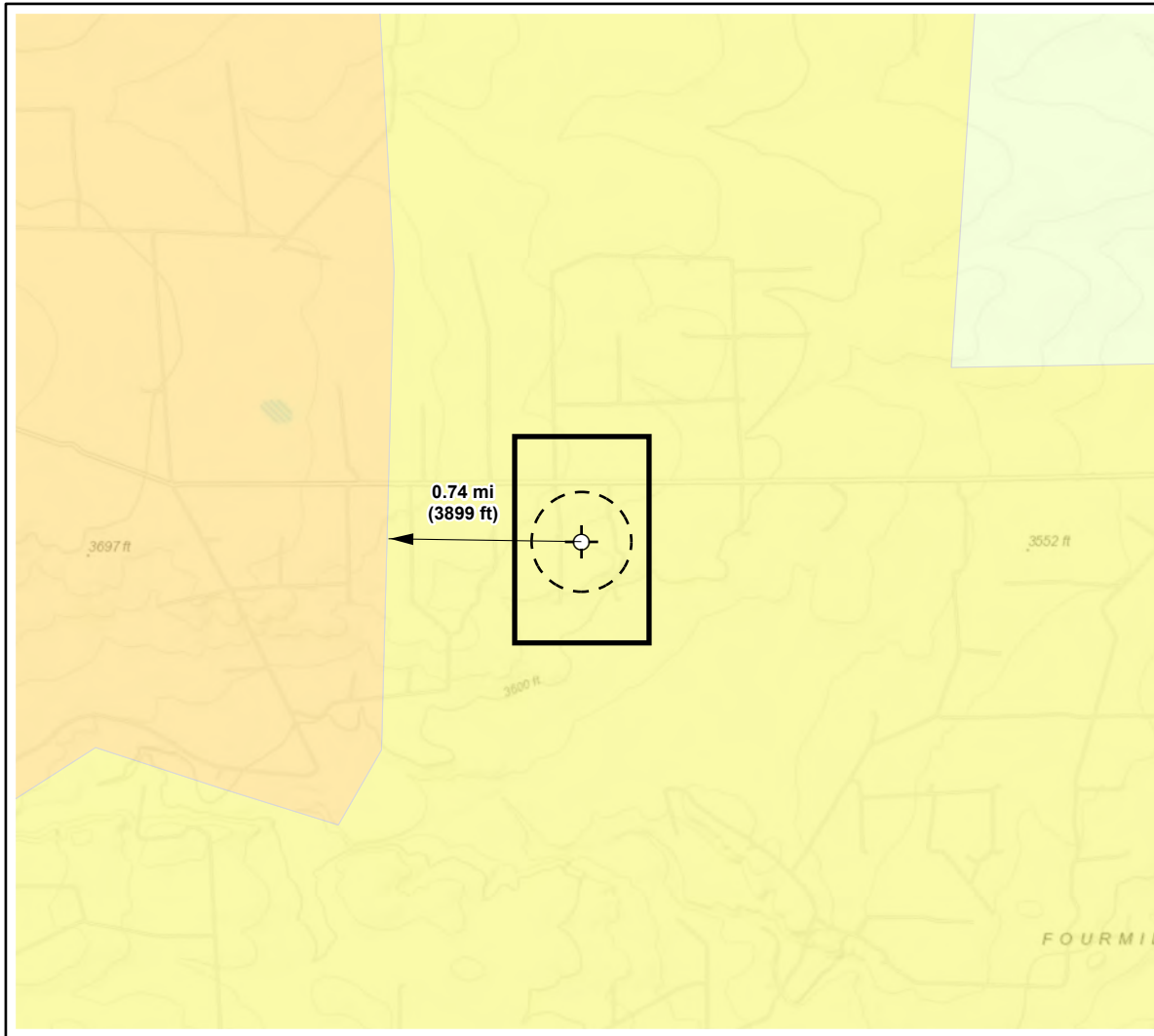
1:144,448

Registered Mines



-  Aggregate, Stone etc.
-  Aggregate, Stone etc.
-  Potash

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



- Karst Potential**
- Critical
 - High
 - Medium
 - Low
- Site Location
 Site Buffer (1,000 ft)

Overview Map

0 1 mi

Detail Map

0 125 250 500 ft



Map Center:
 Lat: 32.688106°N,
 Long: 104.523286°W

NAD 1983 UTM Zone 13N
 Date: Apr 27/26



**Karst Potential Map
 Mobil CI Federal #005**

Figure:
X



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: Inset Map, Esri 2025; Overview Map: Esri World Topographic. Karst potential data from Carlsbad Field Office Bureau of Land Management, 2025.

Document Path: S:\04 - Geomatics\1-Projects\US PROJECTS\Riley Exploration Permian Inc\26A-02188 - Mobil CI Federal #005\00 - ArcPro\26A-02188 - Mobil CI Federal #005.aprx

Distance to FEMA Zone A - Mobil CI Federal #005

5,205 feet

Legend

-  Mobil CI Federal #005
-  5,205 feet
-  FEMA Zone A

32.686983, -104.523580

Google Earth



3000 ft

National Flood Hazard Layer FIRMette



104°31'44"W 32°41'28"N



Legend

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

- | | | |
|------------------------------------|--|--|
| SPECIAL FLOOD HAZARD AREAS | | Without Base Flood Elevation (BFE)
<i>Zone A, V, A99</i> |
| | | With BFE or Depth <i>Zone AE, AO, AH, VE, AR</i> |
| | | 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 <i>Zone X</i> |
| | | Future Conditions 1% Annual Chance Flood Hazard <i>Zone X</i> |
| | | Area with Reduced Flood Risk due to Levee. See Notes. <i>Zone X</i> |
| | | Area with Flood Risk due to Levee <i>Zone D</i> |
| OTHER AREAS | | NO SCREEN Area of Minimal Flood Hazard <i>Zone X</i> |
| | | Effective LOMRs |
| GENERAL STRUCTURES | | Area of Undetermined Flood Hazard <i>Zone D</i> |
| | | Channel, Culvert, or Storm Sewer |
| OTHER FEATURES | | Levee, Dike, or Floodwall |
| | | 20.2 Cross Sections with 1% Annual Chance |
| | | 17.5 Water Surface Elevation |
| | | Coastal Transect |
| | | Base Flood Elevation Line (BFE) |
| | | Limit of Study |
| | | Jurisdiction Boundary |
| | | Coastal Transect Baseline |
| | | Profile Baseline |
| | | Hydrographic Feature |
| 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. | |



1:6,000

104°31'6"W 32°40'58"N

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 4/24/2026 at 11:13 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.

APPENDIX B – Field Reports



Daily Field Log
Site: Mobil CI Federal #005
Client: Riley Exploration Permian, Inc.

04/08/2026

Location: Default Site Location

By: John Rewis

Table with 4 columns: Field Name, Value, Field Name, Value. Includes Weather (Sunny), Staff On-site (John Rewis), Contractor, Contractor Crew, Staff From Time, Equipment On Site, Tailgate meeting conducted (Yes), Incident ID Number.

Work Summary:

Site Documentation

Time Observations

Table with 2 columns: Time, Observations. Contains two entries: 11:13:32 (Completed safety paperwork...) and 11:14:22 (The AOI was located in the pasture east of the Mobil CI Federal #004 pad...)

Pictures/Attachments

Metadata box containing Date (4/8/2026), Time (11:17), Notes (West entrance into the AOI), Latitude (32.68730277777774), Longitude (-104.52481944444445), and Direction (E). Includes a photograph of a dry, brushy landscape with a caption: 'Default Site Location | Lat: 32.68730, Lon: -104.52482 | Azimuth: 69.4 E , Wed, Apr 8, 2026 11:17:17'.



Daily Field Log
Site: Mobil CI Federal #005
Client: Riley Exploration Permian, Inc.

Pictures/Attachments

<p>Date: 4/8/2026 Time: 11:17 Notes: Western extent of the AOI. Latitude: 32.68626388888889 Longitude: -104.52346111111111 Direction: E</p>	 <p>Default Site Location Lat: 32.68626, Lon: -104.52346 Azimuth: 71.5 E , Wed, Apr 8, 2026 11:17</p>
<p>Date: 4/8/2026 Time: 11:17 Notes: Northern extent of the AOI. Latitude: 32.68263888888889 Longitude: -104.51913611111111 Direction: E</p>	 <p>Default Site Location Lat: 32.68264, Lon: -104.51914 Azimuth: 69.9 E , Wed, Apr 8, 2026 11:17</p>



Daily Field Log
Site: Mobil CI Federal #005
Client: Riley Exploration Permian, Inc.

Pictures/Attachments

<p>Date: 4/8/2026 Time: 11:17 Notes: Eastern extent of the AOI Latitude: 32.67395 Longitude: -104.50878888888889 Direction: E</p>	 <p>Default Site Location Lat: 32.67395, Lon: -104.50879 Azimuth: 109.8 E , Wed, Apr 8, 2026 11:17 AM</p>
<p>Date: 4/8/2026 Time: 11:19 Notes: Location of the requested boreholes from the OCD. Latitude: 32.68685277777777 Longitude: -104.52337777777778 Direction: SE</p>	 <p>Default Site Location Lat: 32.68685, Lon: -104.52338 Azimuth: 139.0 SE , Wed, Apr 8, 2026 11:19 AM</p>



Daily Field Log
Site: Mobil CI Federal #005
Client: Riley Exploration Permian, Inc.

Pictures/Attachments

Date: 4/8/2026
Time: 11:19
Notes: Polyline connection from the Mobil CI Federal #004 to the line that comes from the Mobil CI Federal #005
Latitude: 32.68684722222222
Longitude: -104.52337777777778
Direction: E



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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 585769

QUESTIONS

Operator: RILEY PERMIAN OPERATING COMPANY, LLC 29 E Reno Avenue Oklahoma City, OK 73104	OGRID: 372290
	Action Number: 585769
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Prerequisites	
Incident ID (n#)	nMCS0124842142
Incident Name	NMCS0124842142 MOBIL CI FEDERAL #005 @ 30-015-23218
Incident Type	Oil Release
Incident Status	Initial C-141 Received
Incident Well	[30-015-23218] MOBIL CI FEDERAL #005

Location of Release Source	
<i>Please answer all the questions in this group.</i>	
Site Name	MOBIL CI FEDERAL #005
Date Release Discovered	04/28/2001
Surface Owner	Federal

Incident Details	
<i>Please answer all the questions in this group.</i>	
Incident Type	Oil 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	
<i>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.</i>	
Crude Oil Released (bbls) Details	Cause: Corrosion Flow Line - Production Crude Oil Released: 12 BBL Recovered: 0 BBL Lost: 12 BBL.
Produced Water Released (bbls) Details	Cause: Produced Water Released: 60 BBL Recovered: 0 BBL Lost: 60 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)	This C-141 is to address the 04/28/2001 historical release that described the following: "FLOWLINE LEAK. CONTAMINATED AREA WAS FENCED TO ELIMINATE LIVESTOCK ACCESS. BACKHOE TILLED AND TREATED AREA WITH BIO-REMEDIATION MATERIALS. IMPACTED SOILS WILL BE SAMPLED AT CONCLUSION OF TREATMENT." This release is also believed to be addressed in the remediation of nAB1801742031 for which closure was approved though no closure report has been found.

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QUESTIONS, Page 2

Action 585769

QUESTIONS (continued)

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	Action Number: 585769
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

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.
<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: Fernando Rodriguez Title: SR EHS Specialist Email: fernandorodriguez@rileypermian.com Date: 05/17/2026
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QUESTIONS, Page 3

Action 585769

QUESTIONS (continued)

Operator: RILEY PERMIAN OPERATING COMPANY, LLC 29 E Reno Avenue Oklahoma City, OK 73104	OGRID: 372290
	Action Number: 585769
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

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 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No

What is the minimum distance, between the closest lateral extents of the release and the following surface areas:

A continuously flowing watercourse or any other significant watercourse	Between ½ and 1 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (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	Yes

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	No
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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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CONDITIONS

Action 585769

CONDITIONS

Operator: RILEY PERMIAN OPERATING COMPANY, LLC 29 E Reno Avenue Oklahoma City, OK 73104	OGRID: 372290
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CONDITIONS

Created By	Condition	Condition Date
scwells	Site Characterization plan approved with the following conditions:	5/22/2026
scwells	1) As this release occurred over 20 years ago, 12 BBL of oil and 60 BBL of produced water was released and there is no evidence any remediation has occurred, an investigation must be conducted at these locations where a release can be seen in Google Earth satellite imagery on 6/30/2005: 32.686983, -104.523580 and at 32.686859, -104.523279. Two boreholes should be drilled down to 10' depth and discrete samples collected beginning at surface, 1', 2', 3', etc. down through 10' depth and submitted to a laboratory to be analyzed for TPH, BTEX, and chlorides using the analytical methods specified in Table I of 19.15.29 NMAC. All affected areas must be vertically and horizontally delineated pursuant to 19.15.29.11(A)(5)(b) NMAC and remediated in accordance with 19.15.29.12 NMAC.	5/22/2026
scwells	1 continued) If samples may be used for closure, a variance that meets the requirements of 19.15.29.14.A NMAC must be submitted to and approved by OCD prior to the sample collection. A C-141N must also be submitted at least two business days prior to sample collection.	5/22/2026
scwells	2) Under the Site Characterization portion of the C-141 application to the question, "What is the minimum distance, between the closest lateral extents of the release and the following surface areas: A wetland," was answered, "Between 1 and 5 (mi.)." According to the National Wetlands Inventory Mapper, the nearest wetland is a riverine located between 1/2 and 1 mile N of the release. This distance must be updated in the next C-141 submission.	5/22/2026
scwells	3) OCD requires that any base or wall that is exposed during excavation, even due to benching and sloping, have samples collected pursuant to 19.15.29 NMAC. Ensure sidewall samples are collected between the varying depths of excavation and clearly show these on the Figures in your closure report.	5/22/2026
scwells	Submit a complete and accurate report to OCD no later than August 20, 2026.	5/22/2026