



## SITE INFORMATION

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**Closure Report**  
**BLACK RIVER 15 10 STATE 3H7H TB**  
**Incident #: nAPP2331346586**  
**Eddy County, New Mexico**  
**Unit O Sec 15 T24S R27E**  
**32.2105694°, -104.1761266°**

**Produced Water Release**  
**Point of Release: Pinhole in the welded flange to the 7H separator**  
**Release Date: 11/09/2023**  
**Volume Released: 16 barrels of Produced Water**  
**Volume Recovered: 16 barrels of Produced Water**

**CARMONA RESOURCES**



**Prepared for:**  
**Marathon Oil Corporation**  
**990 Town and Country Blvd,**  
**Houston, Texas 77024**

**Prepared by:**  
**Carmona Resources, LLC**  
**310 West Wall Street**  
**Suite 500**  
**Midland, Texas 79701**



November 17, 2023

Mike Bratcher  
District Supervisor  
Oil Conservation Division, District 2  
811 S. First Street  
Artesia, New Mexico 88210

**Re: Closure Report**  
**Black River 15 10 State 3H7H TB**  
**Marathon Oil Corporation**  
**Incident ID: nAPP2331346586**  
**Site Location: Unit O, S15, T24S, R27E**  
**(Lat 32.2105694°, Long -104.1761266°)**  
**Eddy County, New Mexico**

Mr. Bratcher:

On behalf of Marathon Oil Corporation (Marathon), Carmona Resources, LLC has prepared this letter to document site activities for the Black River 15 10 State 3H7H TB. The site is located at 32.2105694°, -104.1761266° within Unit O, S15, T24S, R27E, in Eddy County, New Mexico (Figures 1 and 2).

### **1.0 Site Information and Background**

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the release was discovered on November 9, 2023, caused by a pinhole in the welded flange to the 7H separator. It resulted in the release of approximately sixteen (16) barrels of produced water, and approximately sixteen (16) barrels of produced water were recovered within the lined facility. See Figure 3. The initial C-141 form is attached in Appendix B.

### **2.0 Site Characterization and Groundwater**

The site is located within a medium karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, no known water sources are within a 0.50-mile radius of the location. The closest well is located approximately 0.57 miles south of the site in S22, T24S, R27E and was drilled in 1971. The well has a reported depth to groundwater of 70' feet below the ground surface (ft bgs). A copy of the associated point of diversion is attached in Appendix C.

### **3.0 NMAC Regulatory Criteria**

Per the NMOCD regulatory criteria established in 19.15.29.12 NMAC, the following criteria were utilized in assessing the site.

- Benzene: 10 milligrams per kilogram (mg/kg).
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg.
- TPH: 100 mg/kg (GRO + DRO + MRO).
- Chloride: 600 mg/kg.



**4.0 Liner Inspection Activities**

On November 15, 2023, Carmona Resources, LLC conducted liner inspection activities to assess the liner's integrity within the facility. Before performing the liner inspection, the NMOCD division office was notified via email on November 10, 2023, per Subsection D of 19.15.29.12 NMAC. See Appendix B. Carmona Resources, LLC personnel inspected the liner visually and determined it to be intact with no integrity issues.

Refer to the Photolog.

**5.0 Conclusions**

Based on the liner inspection throughout the facility, no further actions are required at the site. The final C-141 is attached, and Marathon formally requests the closure of the spill. If you have any questions regarding this report or need additional information, please contact us at 432-813-1992.

Sincerely,  
Carmona Resources, LLC

Clinton Merritt  
Sr. Project Manager

Ashton Thielke  
Sr. Project Manager

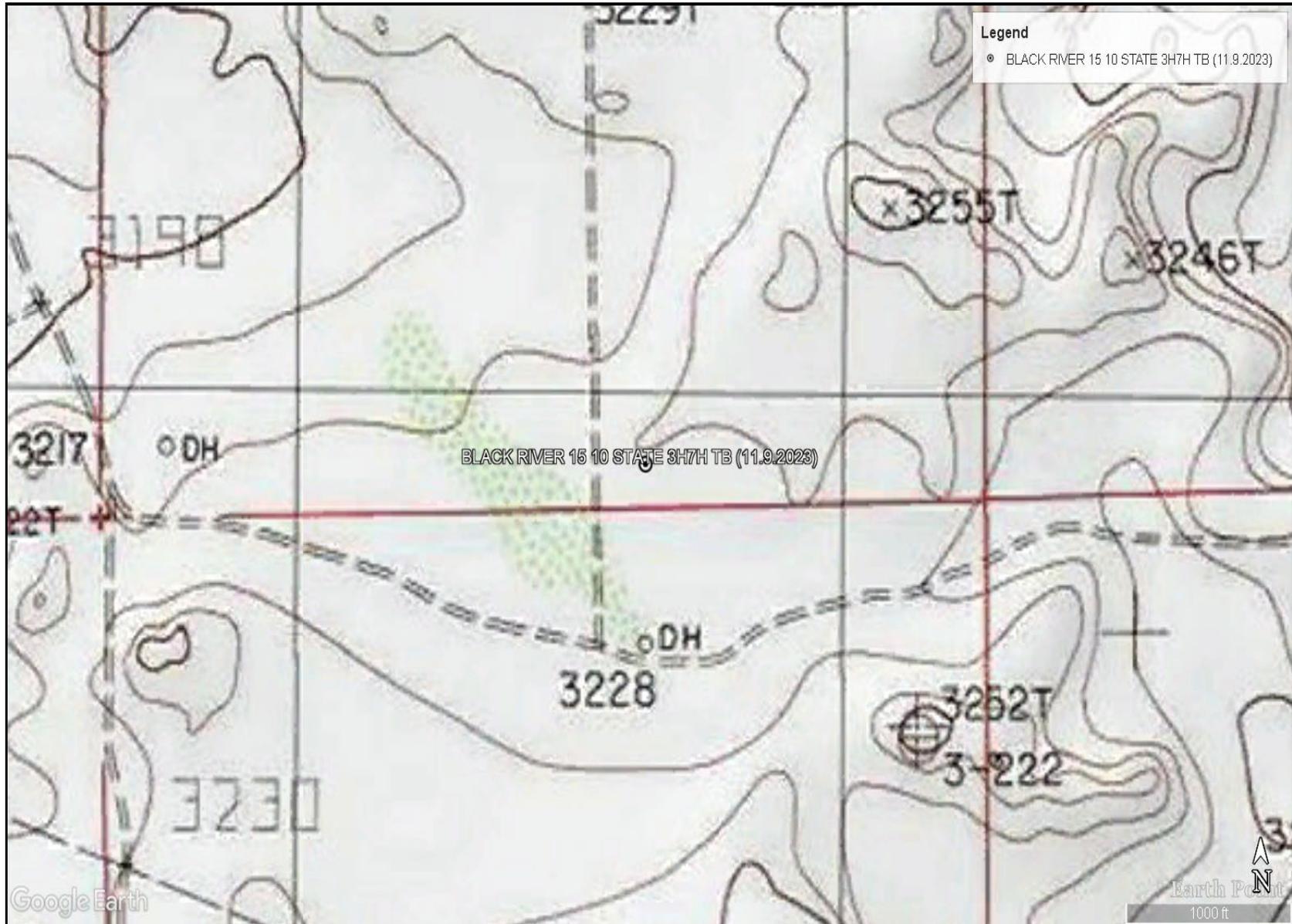
# FIGURES

CARMONA RESOURCES





<p>OVERVIEW MAP MARATHON OIL CORPORATION BLACK RIVER 15 10 STATE 3H7H TB EDDY COUNTY, NEW MEXICO 32.2105694°, -104.1761266°</p>	<p>CARMONA RESOURCES </p>	<p>FIGURE 1</p>
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TOPOGRAPHIC MAP  
MARATHON OIL CORPORATION  
BLACK RIVER 15 10 STATE 3H7H TB  
EDDY COUNTY, NEW MEXICO  
32.2105694°, -104.1761266°



FIGURE 2



SAMPLE LOCATION MAP  
MARATHON OIL CORPORATION  
BLACK RIVER 15 10 STATE 3H7H TB  
EDDY COUNTY, NEW MEXICO  
32.2105694°, -104.1761266°



FIGURE 3

# APPENDIX A

CARMONA RESOURCES



# PHOTOGRAPHIC LOG

## Marathon Oil Corporation

### Photograph No. 1

**Facility:** Black River 15 10 State 3H7H TB

**County:** Eddy County, New Mexico

**Description:**  
View Northeast of lined facility.

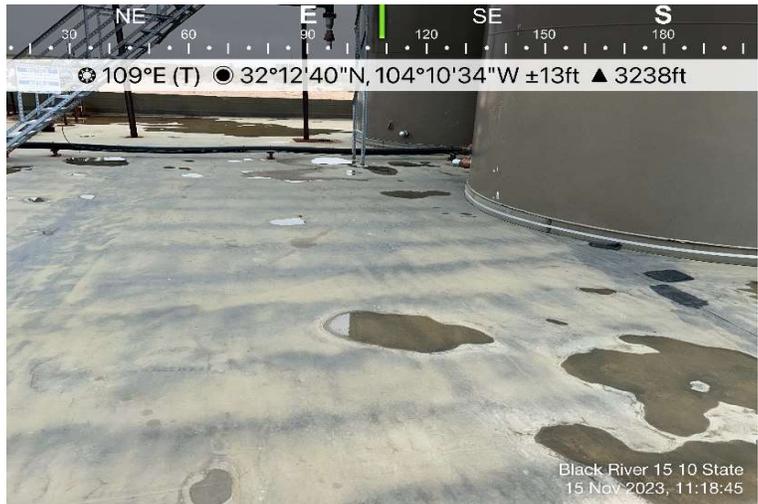


### Photograph No. 2

**Facility:** Black River 15 10 State 3H7H TB

**County:** Eddy County, New Mexico

**Description:**  
View East of lined facility.



### Photograph No. 3

**Facility:** Black River 15 10 State 3H7H TB

**County:** Eddy County, New Mexico

**Description:**  
View Northeast of lined facility.



# PHOTOGRAPHIC LOG

## Marathon Oil Corporation

### Photograph No. 4

**Facility:** Black River 15 10 State 3H7H TB

**County:** Eddy County, New Mexico

**Description:**  
View Northeast of lined facility.



### Photograph No. 5

**Facility:** Black River 15 10 State 3H7H TB

**County:** Eddy County, New Mexico

**Description:**  
View Northeast of lined facility.

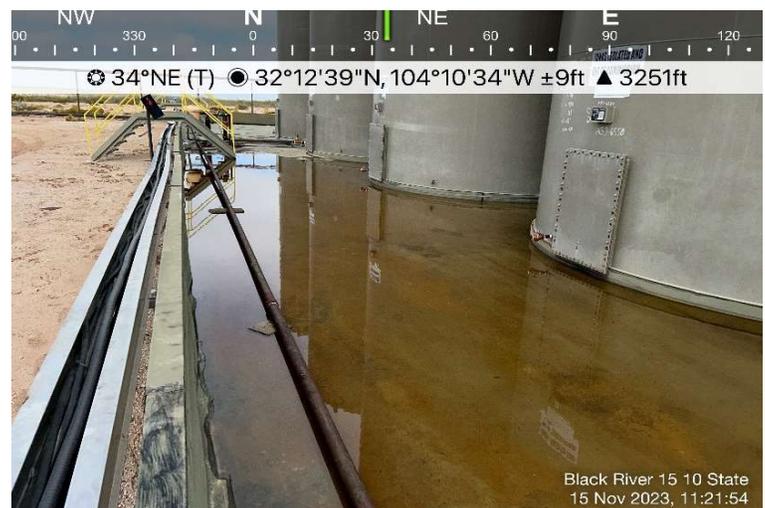


### Photograph No. 6

**Facility:** Black River 15 10 State 3H7H TB

**County:** Eddy County, New Mexico

**Description:**  
View Northeast of lined facility.



# PHOTOGRAPHIC LOG

## Marathon Oil Corporation

### Photograph No. 7

**Facility:** Black River 15 10 State 3H7H TB

**County:** Eddy County, New Mexico

**Description:**  
View Southeast of lined facility.



### Photograph No. 8

**Facility:** Black River 15 10 State 3H7H TB

**County:** Eddy County, New Mexico

**Description:**  
View North of lined facility.

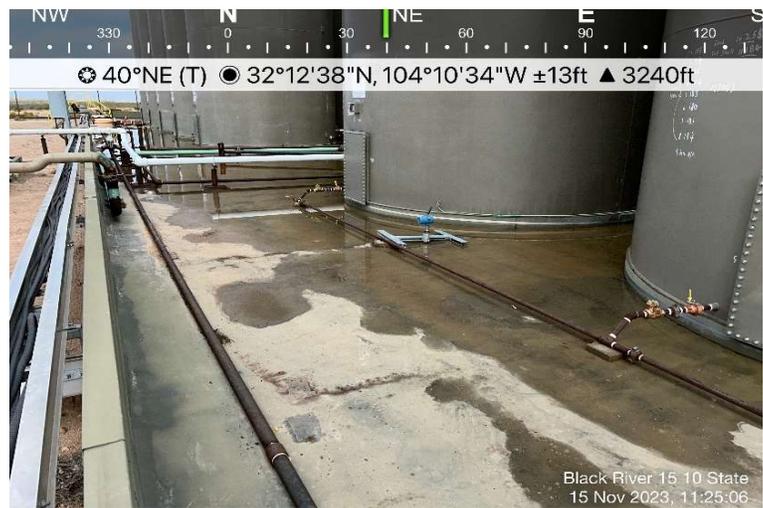


### Photograph No. 9

**Facility:** Black River 15 10 State 3H7H TB

**County:** Eddy County, New Mexico

**Description:**  
View Northeast of lined facility.



# PHOTOGRAPHIC LOG

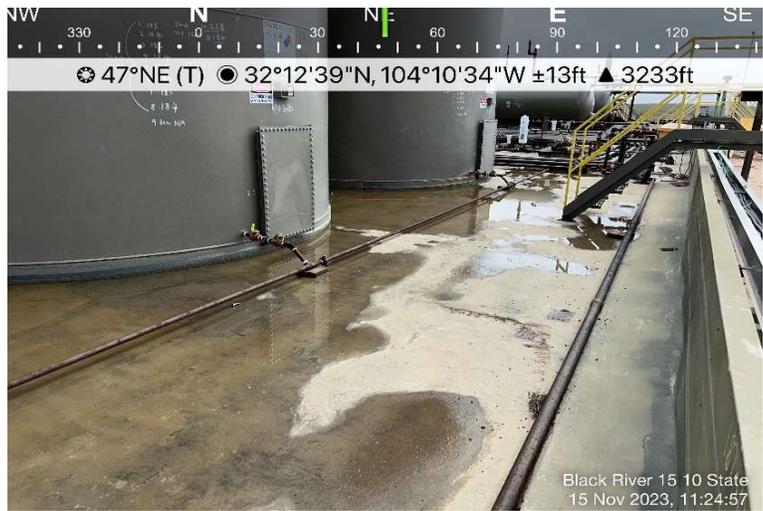
## Marathon Oil Corporation

### Photograph No. 10

**Facility:** Black River 15 10 State 3H7H TB

**County:** Eddy County, New Mexico

**Description:**  
View Northeast of lined facility.

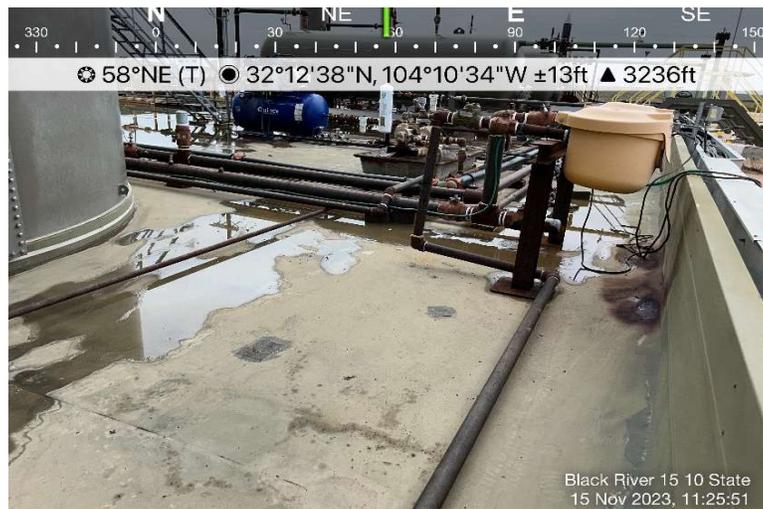


### Photograph No. 11

**Facility:** Black River 15 10 State 3H7H TB

**County:** Eddy County, New Mexico

**Description:**  
View Northeast of lined facility.

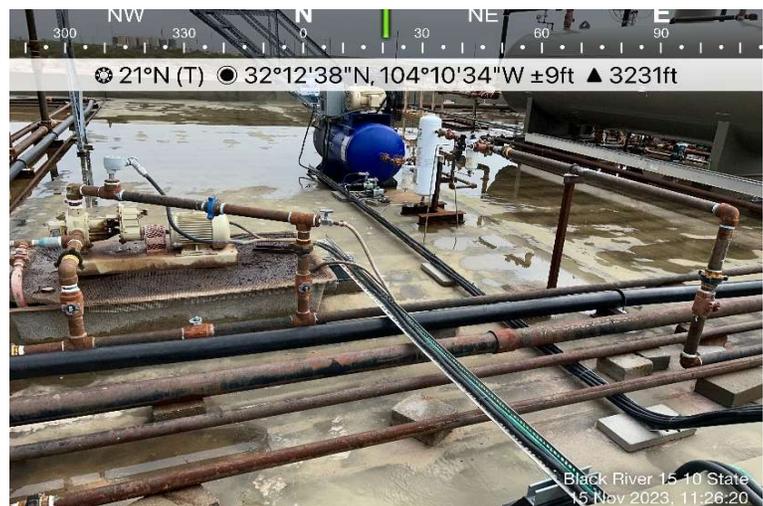


### Photograph No. 12

**Facility:** Black River 15 10 State 3H7H TB

**County:** Eddy County, New Mexico

**Description:**  
View North of lined facility.



# PHOTOGRAPHIC LOG

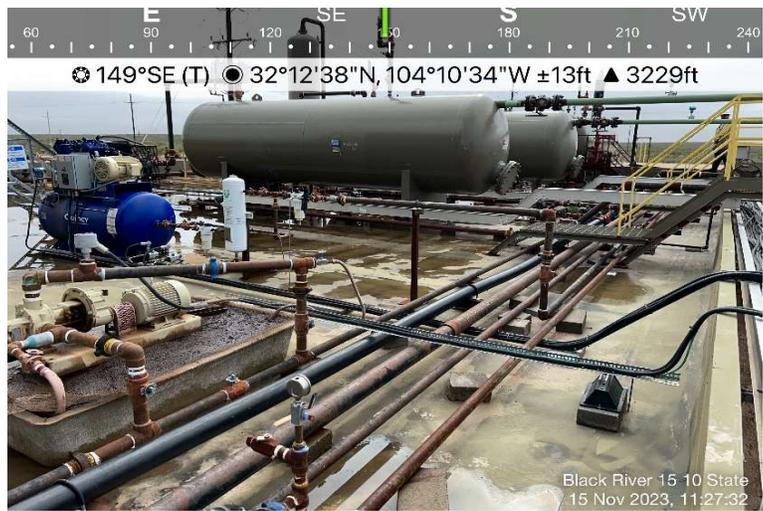
## Marathon Oil Corporation

### Photograph No. 13

**Facility:** Black River 15 10 State 3H7H TB

**County:** Eddy County, New Mexico

**Description:**  
View Southeast of lined facility.

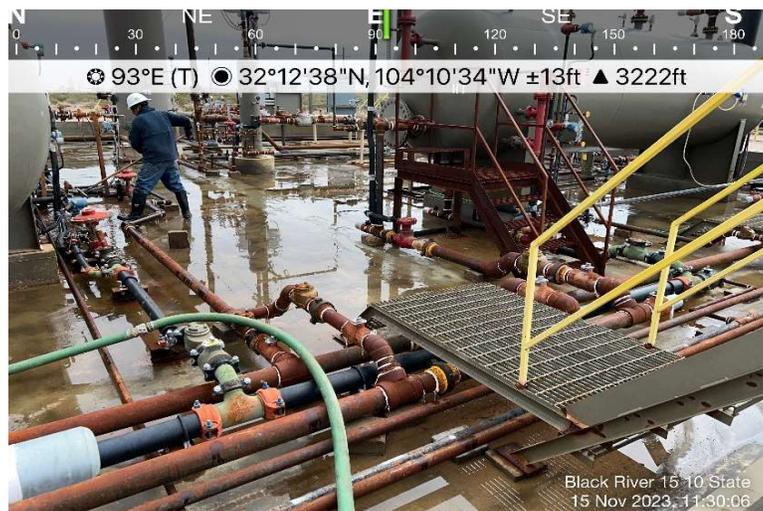


### Photograph No. 14

**Facility:** Black River 15 10 State 3H7H TB

**County:** Eddy County, New Mexico

**Description:**  
View East of lined facility.

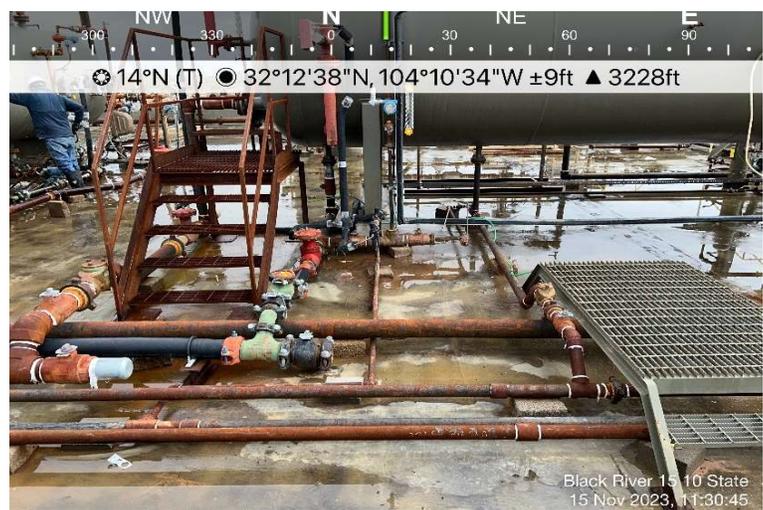


### Photograph No. 15

**Facility:** Black River 15 10 State 3H7H TB

**County:** Eddy County, New Mexico

**Description:**  
View North of lined facility.



# PHOTOGRAPHIC LOG

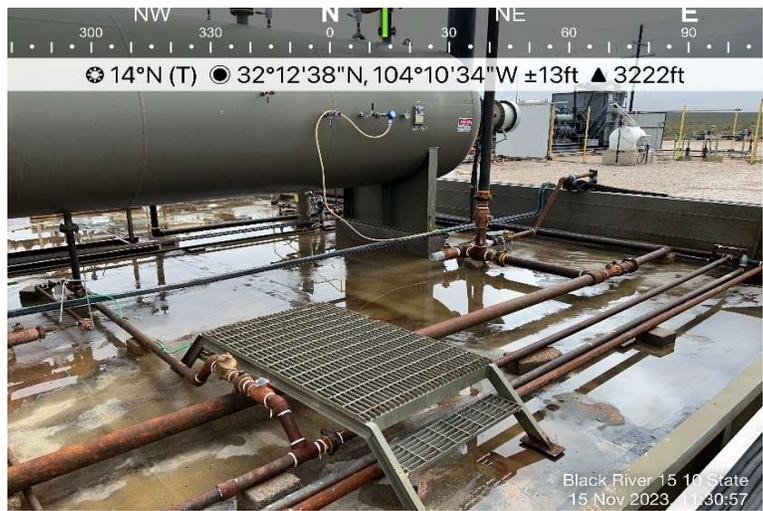
## Marathon Oil Corporation

### Photograph No. 16

**Facility:** Black River 15 10 State 3H7H TB

**County:** Eddy County, New Mexico

**Description:**  
View North of lined facility.

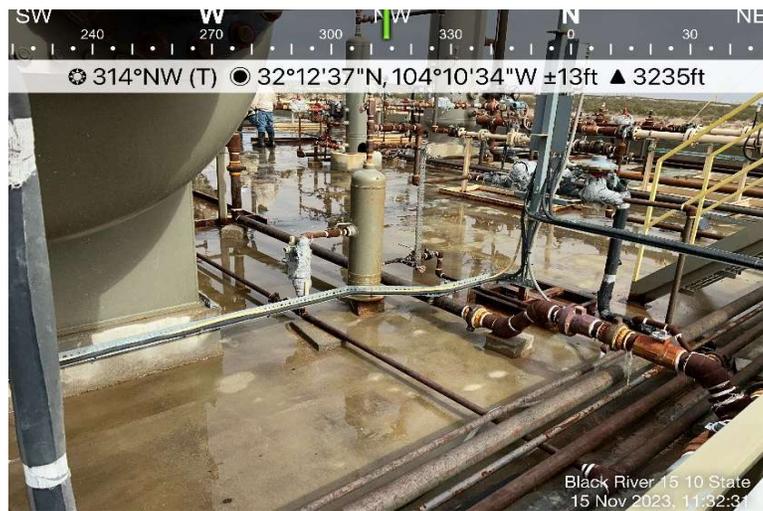


### Photograph No. 17

**Facility:** Black River 15 10 State 3H7H TB

**County:** Eddy County, New Mexico

**Description:**  
View Northwest of lined facility.

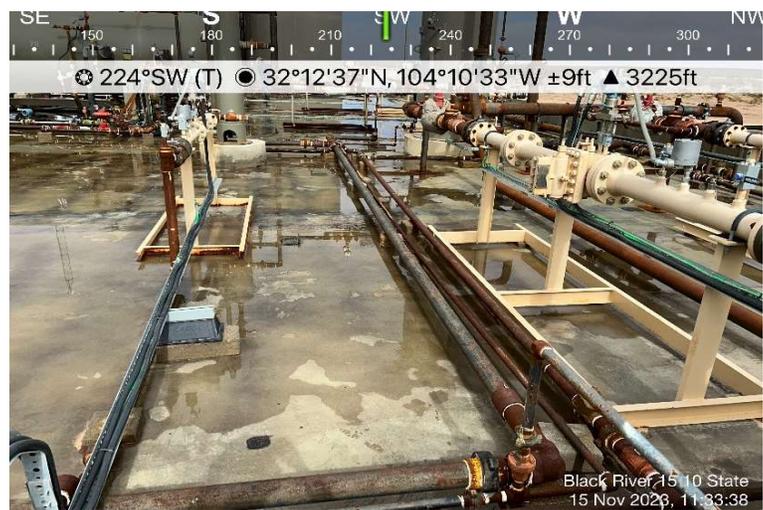


### Photograph No. 18

**Facility:** Black River 15 10 State 3H7H TB

**County:** Eddy County, New Mexico

**Description:**  
View Southwest of lined facility.



# PHOTOGRAPHIC LOG

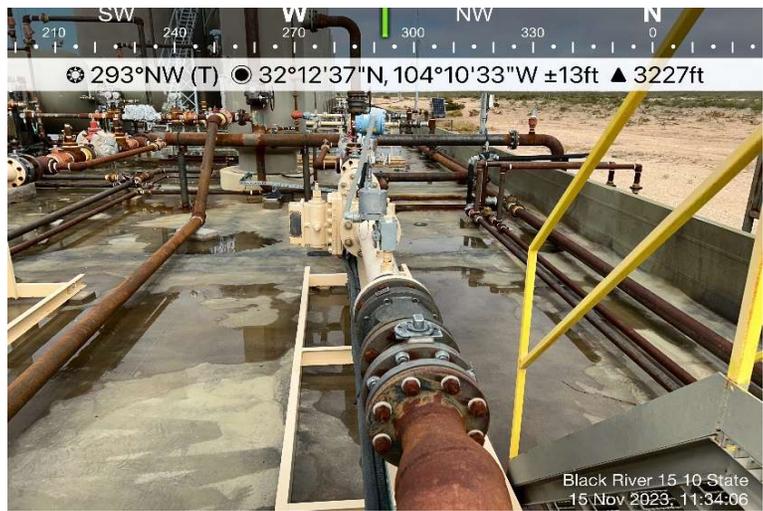
## Marathon Oil Corporation

### Photograph No. 19

**Facility:** Black River 15 10 State 3H7H TB

**County:** Eddy County, New Mexico

**Description:**  
View West of lined facility.

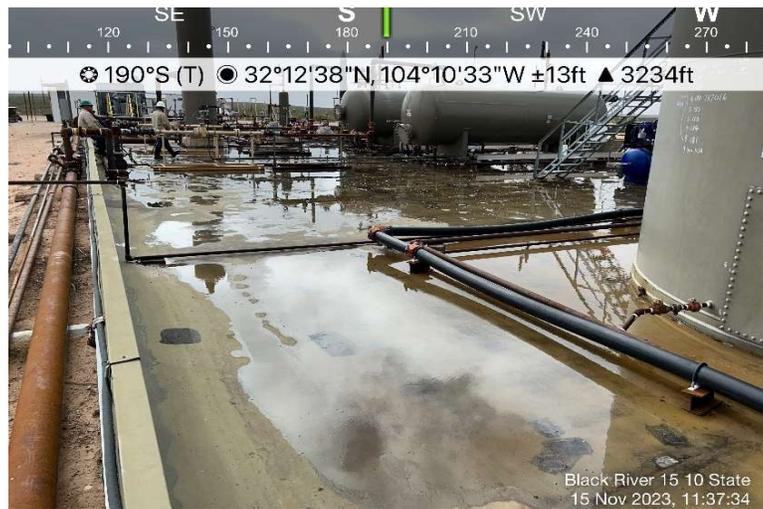


### Photograph No. 20

**Facility:** Black River 15 10 State 3H7H TB

**County:** Eddy County, New Mexico

**Description:**  
View South of lined facility.

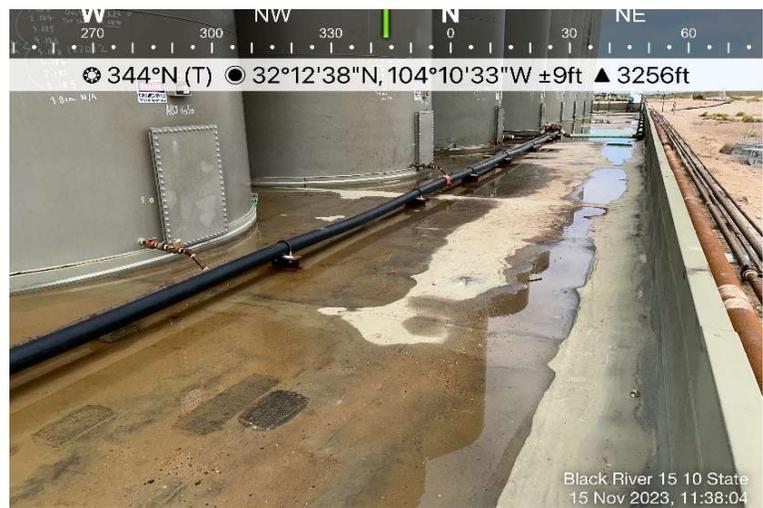


### Photograph No. 21

**Facility:** Black River 15 10 State 3H7H TB

**County:** Eddy County, New Mexico

**Description:**  
View North of lined facility.



# PHOTOGRAPHIC LOG

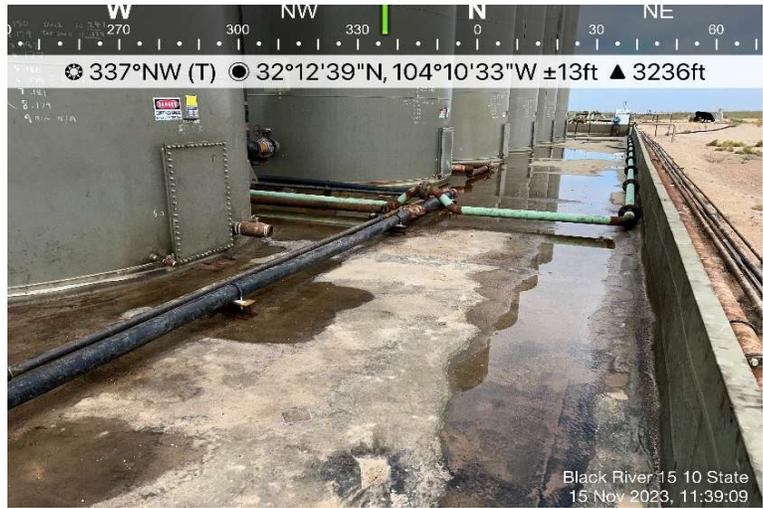
## Marathon Oil Corporation

### Photograph No. 22

**Facility:** Black River 15 10 State 3H7H TB

**County:** Eddy County, New Mexico

**Description:**  
View North of lined facility.

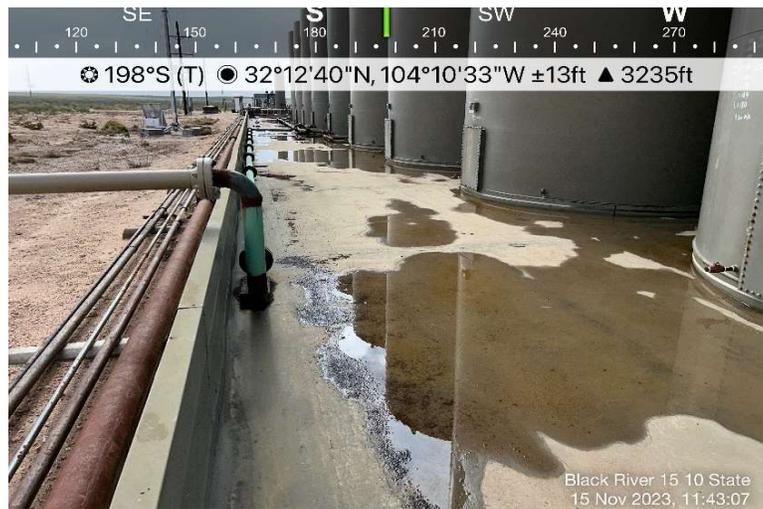


### Photograph No. 23

**Facility:** Black River 15 10 State 3H7H TB

**County:** Eddy County, New Mexico

**Description:**  
View South of lined facility.



### Photograph No. 24

**Facility:** Black River 15 10 State 3H7H TB

**County:** Eddy County, New Mexico

**Description:**  
View West of lined facility.



## APPENDIX B

CARMONA RESOURCES



District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural  
Resources Department

Form C-141  
Revised August 24, 2018  
Submit to appropriate OCD District office

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Incident ID	nAPP2331346586
District RP	
Facility ID	
Application ID	fAPP2125247203

## Release Notification

### Responsible Party

Responsible Party Marathon Oil Permian LLC	OGRID 372098
Contact Name Melodie Sanjari	Contact Telephone 575-988-8753
Contact email <a href="mailto:msanjari@marathonoil.com">msanjari@marathonoil.com</a>	Incident # (assigned by OCD)
Contact mailing address 4111 S. Tidwell Rd., Carlsbad, NM 8220	

### Location of Release Source

Latitude 32.2105694 Longitude -104.1761266  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name BLACK RIVER 15 10 STATE 3H7H TB	Site Type Oil & Gas Facility
Date Release Discovered: 11/9/2023	fAPP2125247203

Unit Letter	Section	Township	Range	County
O	15	24S	27E	Eddy

Surface Owner:  State  Federal  Tribal  Private (Name: \_\_\_\_\_)

### Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 16	Volume Recovered (bbls) 16
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

#### Cause of Release

A pinhole in the welded flange to separator 7H resulted in the release of 16 bbl. of produced water within the lined secondary containment. Because the depth of the fluid was too shallow to recover, it's being removed during the pressure washing process. A notice will be sent out prior to a liner integrity inspection.

State of New Mexico  
Oil Conservation Division

Page 2

Incident ID	nAPP2331346586
District RP	
Facility ID	
Application ID	fAPP2125247203

Was this a major release as defined by 19.15.29.7(A) NMAC?  <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

### Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain why:
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
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.
Printed Name: <u>Melodie Sanjari</u> Title: <u>Environmental Professional</u>
Signature: <u>Melodie Sanjari</u> Date: <u>11/9/2023</u>
email: <u>msanjari@marathonoil.com</u> Telephone: <u>575-988-8753</u>
<b><u>OCD Only</u></b>  Received by: _____ Date: _____

### MRO Spill Calculation Tool

**Standing Liquid Inputs:**

	Length (ft.)	Width (ft.) (Area for Displacement)	Avg. Liquid Depth (in.)	% Oil	Total Volume (bbls)	Water Volume (bbls)	Oil Volume (bbls)
Rectangle Area #1	88	49	0.25		16.00	16.00	0.00
Rectangle Area #2					0.00	0.00	0.00
Rectangle Area #3					0.00	0.00	0.00
Rectangle Area #4					0.00	0.00	0.00
Rectangle Area #5					0.00	0.00	0.00
Rectangle Area #6					0.00	0.00	0.00
Vessel Displacement					0.00	0.00	0.00
Vessel Displacement					0.00	0.00	0.00
Liquid Volume:					<b>16.00</b>	<b>16.00</b>	<b>0.00</b>

**Saturated Soil Inputs:**

Soil Type: **Gravel or Sand**

	Length (ft.)	Width (ft.)	Avg. Saturated Depth (in.)	% Oil	Total Volume (bbls)	Water Volume (bbls)	Oil Volume (bbls)
Rectangle Area #1					0.00	0.00	0.00
Rectangle Area #2					0.00	0.00	0.00
Rectangle Area #3					0.00	0.00	0.00
Rectangle Area #4					0.00	0.00	0.00
Rectangle Area #5					0.00	0.00	0.00
Rectangle Area #6					0.00	0.00	0.00
Rectangle Area #7					0.00	0.00	0.00
Rectangle Area #8					0.00	0.00	0.00
Saturated Volume					<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

	Total Volume (bbls)	Water Volume (bbls)	Oil Volume (bbls)
Total Spill Volume (bbls):	<b>16.00</b>	<b>16.00</b>	<b>0.00</b>
Total Spill Volume (gals):	<b>672.00</b>	<b>672.00</b>	<b>0.00</b>

Comments:

Color Key:

Required Input Cells	Supplemental Input Cells	No Input (Calculations)	No Input
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**Ground/Vegetation Overspray**

Cover Type	Microns	Approximate Depth (in)
<b>Ground</b>		
Dull Color	10	0.00003281
Dark Color	50	0.00016404

Incident ID	
District RP	
Facility ID	
Application ID	

## Site Assessment/Characterization

*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?	_____ (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

**Characterization Report Checklist:** *Each of the following items must be included in the report.*

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico  
Oil Conservation Division

Page 4

Incident ID	
District RP	
Facility ID	
Application ID	

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.

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

email: \_\_\_\_\_ Telephone: \_\_\_\_\_

**OCD Only**

Received by: Shelly Wells \_\_\_\_\_ Date: 11/20/2023 \_\_\_\_\_

Incident ID	
District RP	
Facility ID	
Application ID	

## Closure

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 (electronic submittals in .pdf format are preferred) 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.

**Closure Report Attachment Checklist:** *Each of the following items must be included in the closure report.*

- A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- Description of remediation activities

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.

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

email: \_\_\_\_\_ Telephone: \_\_\_\_\_

**OCD Only**

Received by: Shelly Wells Date: 11/20/2023

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Ashley Maxwell Date: \_\_\_\_\_

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

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**From:** Wells, Shelly, EMNRD  
**Sent:** Monday, November 13, 2023 10:34 AM  
**To:** Clint Merritt  
**Cc:** Melodie Sanjari; Castro, Isaac (MRO); Mike Carmona; Conner Moehring; Devin Dominguez; Hamlet, Robert, EMNRD; Bratcher, Michael, EMNRD  
**Subject:** RE: [EXTERNAL] Black River 15 10 State 3H 7H TB Liner Inspection Notification

Hi Clinton,

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,

*Shelly*

**Shelly Wells** \* Environmental Specialist-Advanced  
Environmental Bureau  
EMNRD-Oil Conservation Division  
1220 S. St. Francis Drive | Santa Fe, NM 87505  
(505)469-7520 | [Shelly.Wells@emnrd.nm.gov](mailto:Shelly.Wells@emnrd.nm.gov)  
<http://www.emnrd.state.nm.us/OCD/>

---

**From:** Clint Merritt <[MerrittC@carmonaresources.com](mailto:MerrittC@carmonaresources.com)>  
**Sent:** Friday, November 10, 2023 9:40 AM  
**To:** Enviro, OCD, EMNRD <[OCD.Enviro@emnrd.nm.gov](mailto:OCD.Enviro@emnrd.nm.gov)>  
**Cc:** Melodie Sanjari <[msanjari@marathonoil.com](mailto:msanjari@marathonoil.com)>; Castro, Isaac (MRO) <[icastro@marathonoil.com](mailto:icastro@marathonoil.com)>; Mike Carmona <[Mcarmona@carmonaresources.com](mailto:Mcarmona@carmonaresources.com)>; Conner Moehring <[Cmoehring@carmonaresources.com](mailto:Cmoehring@carmonaresources.com)>; Devin Dominguez <[Ddominguez@carmonaresources.com](mailto:Ddominguez@carmonaresources.com)>  
**Subject:** [EXTERNAL] Black River 15 10 State 3H 7H TB Liner Inspection Notification

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

Good Morning,

On behalf of Marathon Oil, Carmona Resources will conduct a liner inspection at the below-referenced site on **11/15/23 around 10:00 AM. Mountain Time**. Please let me know if you have any questions.

**BLACK RIVER 15 10 STATE 3H7H TB**  
**Incident ID: nAPP2331346586**  
**Lea County, New Mexico**

Clinton Merritt  
310 West Wall Street, Suite 500  
Midland TX, 79701  
M: 432-813-9044  
[MerrittC@carmonaresources.com](mailto:MerrittC@carmonaresources.com)

CARMONA RESOURCES



## APPENDIX C

CARMONA RESOURCES

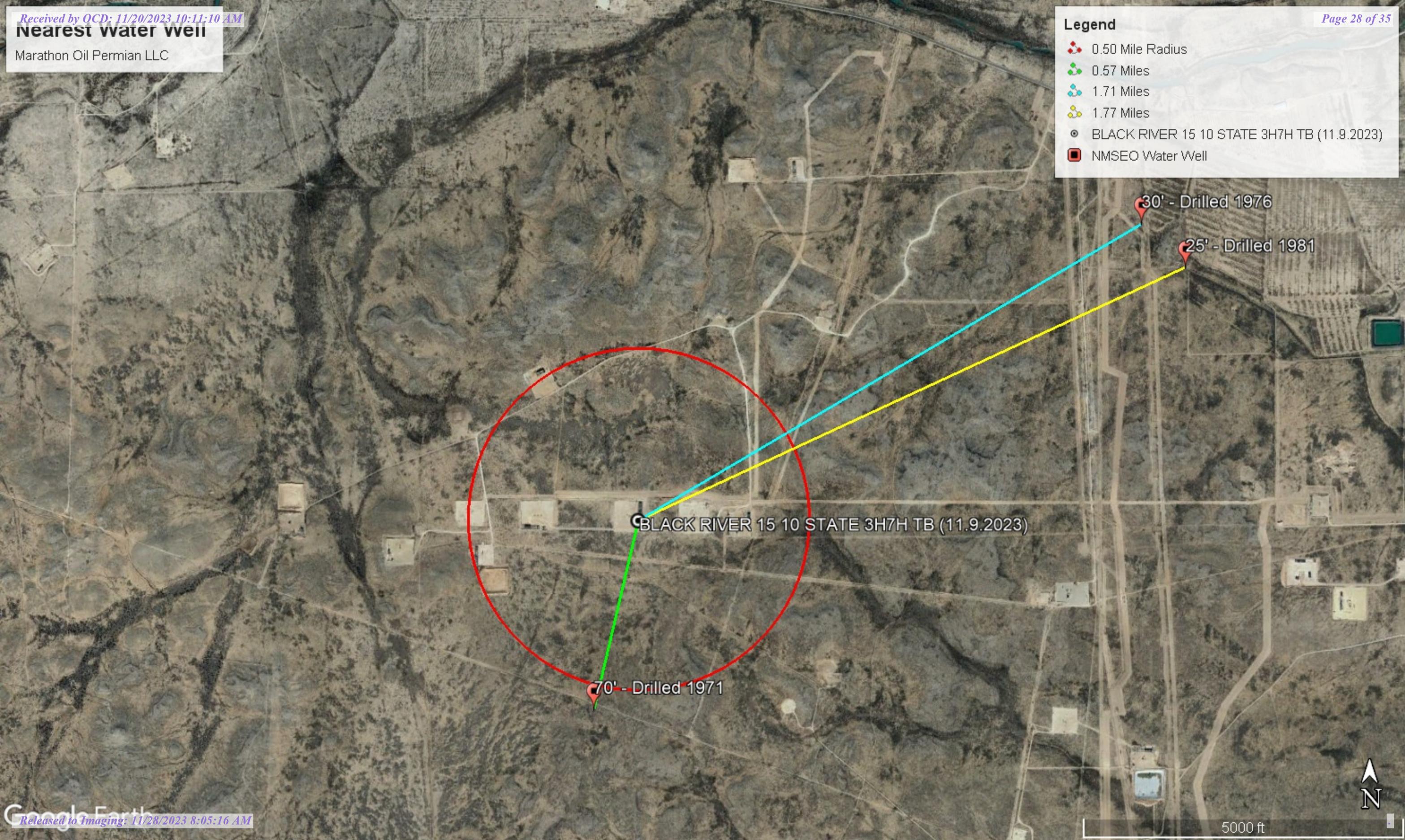


### Nearest water well

Marathon Oil Permian LLC

**Legend**

- 0.50 Mile Radius
- 0.57 Miles
- 1.71 Miles
- 1.77 Miles
- BLACK RIVER 15 10 STATE 3H7H TB (11.9.2023)
- NMSEO Water Well



BLACK RIVER 15 10 STATE 3H7H TB (11.9.2023)

70' - Drilled 1971

30' - Drilled 1976

25' - Drilled 1981

5000 ft



# Medium Karst

Marathon Oil Permian LLC

**Legend**

- BLACK RIVER 15 10 STATE 3H7H TB (11.9.2023)
- High
- Medium



BLACK RIVER 15 10 STATE 3H7H TB (11.9.2023)



# New Mexico Office of the State Engineer Water Column/Average Depth to Water

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

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

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

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
<a href="#">C 01452</a>	C		ED				22	24S	27E	577435	3563175*	921	95	70	25
<a href="#">C 04147</a> <b>POD1</b>	CUB		ED	4	1	3	24	24S	27E	580101	3562969	2695	35		
<a href="#">C 00347</a>	CUB		ED		1	1	13	24S	27E	580010	3565479*	2753	60	30	30
<a href="#">C 03147</a>	C		ED	3	3	3	12	24S	27E	579885	3565715	2779	140		
<a href="#">C 01943</a>	C		ED		1		13	24S	27E	580221	3565275*	2845	30	25	5
<a href="#">C 00342</a>	C	CUB	ED	4	1		13	24S	27E	580432	3565080*	2966	2565		
<a href="#">C 00850</a>	C		ED	2	3		09	24S	27E	575595	3566223*	2968	108	35	73

Average Depth to Water: **40 feet**

Minimum Depth: **25 feet**

Maximum Depth: **70 feet**

**Record Count: 7**

**UTMNAD83 Radius Search (in meters):**

**Easting (X):** 577642

**Northing (Y):** 3564073

**Radius:** 3000

\*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.



# New Mexico Office of the State Engineer

## Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)  
 (quarters are smallest to largest) (NAD83 UTM in meters)

<b>Well Tag</b>	<b>POD Number</b>	<b>Q64</b>	<b>Q16</b>	<b>Q4</b>	<b>Sec</b>	<b>Tws</b>	<b>Rng</b>	<b>X</b>	<b>Y</b>
	C 01452				22	24S	27E	577435	3563175*

<b>Driller License:</b> 30	<b>Driller Company:</b> BARRON, EMMETT		
<b>Driller Name:</b> BARRON, EMMETT			
<b>Drill Start Date:</b> 07/21/1971	<b>Drill Finish Date:</b> 07/23/1971	<b>Plug Date:</b>	
<b>Log File Date:</b> 08/02/1971	<b>PCW Rcv Date:</b>	<b>Source:</b> Shallow	
<b>Pump Type:</b>	<b>Pipe Discharge Size:</b>	<b>Estimated Yield:</b>	
<b>Casing Size:</b> 7.00	<b>Depth Well:</b> 95 feet	<b>Depth Water:</b> 70 feet	

Water Bearing Stratifications:	Top	Bottom	Description
	60	70	Sandstone/Gravel/Conglomerate

\*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.

11/13/23 10:24 AM

POINT OF DIVERSION SUMMARY



# New Mexico Office of the State Engineer

## Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)  
 (quarters are smallest to largest) (NAD83 UTM in meters)

<b>Well Tag</b>	<b>POD Number</b>	<b>Q64</b>	<b>Q16</b>	<b>Q4</b>	<b>Sec</b>	<b>Tws</b>	<b>Rng</b>	<b>X</b>	<b>Y</b>
C	00347	1	1	13	24S	27E	580010	3565479*	

<b>Driller License:</b> 24	<b>Driller Company:</b> BRININSTOOL, M.D.	
<b>Driller Name:</b> BRININSTOOL, M.D.		
<b>Drill Start Date:</b> 07/02/1974	<b>Drill Finish Date:</b> 06/25/1976	<b>Plug Date:</b>
<b>Log File Date:</b> 07/01/1976	<b>PCW Rcv Date:</b>	<b>Source:</b> Shallow
<b>Pump Type:</b>	<b>Pipe Discharge Size:</b>	<b>Estimated Yield:</b> 100 GPM
<b>Casing Size:</b> 4.25	<b>Depth Well:</b> 60 feet	<b>Depth Water:</b> 30 feet

Water Bearing Stratifications:	Top	Bottom	Description
	48	54	Other/Unknown

\*UTM location was derived from PLSS - see Help

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11/13/23 10:25 AM

POINT OF DIVERSION SUMMARY



# New Mexico Office of the State Engineer

## Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)						
		(quarters are smallest to largest)					(NAD83 UTM in meters)	
<b>Well Tag</b>	<b>POD Number</b>	<b>Q64</b>	<b>Q16</b>	<b>Q4</b>	<b>Sec</b>	<b>Tws</b>	<b>Rng</b>	<b>X</b> <b>Y</b>
	C 01943			1	13	24S	27E	580221    3565275*

<b>Driller License:</b> 961	<b>Driller Company:</b> MAVERICK DRILLING	
<b>Driller Name:</b> DON THOMPSON		
<b>Drill Start Date:</b> 09/15/1981	<b>Drill Finish Date:</b> 09/25/1981	<b>Plug Date:</b>
<b>Log File Date:</b> 06/11/1982	<b>PCW Rcv Date:</b>	<b>Source:</b>
<b>Pump Type:</b>	<b>Pipe Discharge Size:</b>	<b>Estimated Yield:</b> 2 GPM
<b>Casing Size:</b>	<b>Depth Well:</b> 30 feet	<b>Depth Water:</b> 25 feet

Water Bearing Stratifications:	Top	Bottom	Description
	0	10	Shallow Alluvium/Basin Fill
	10	25	Other/Unknown
	25	30	Sandstone/Gravel/Conglomerate

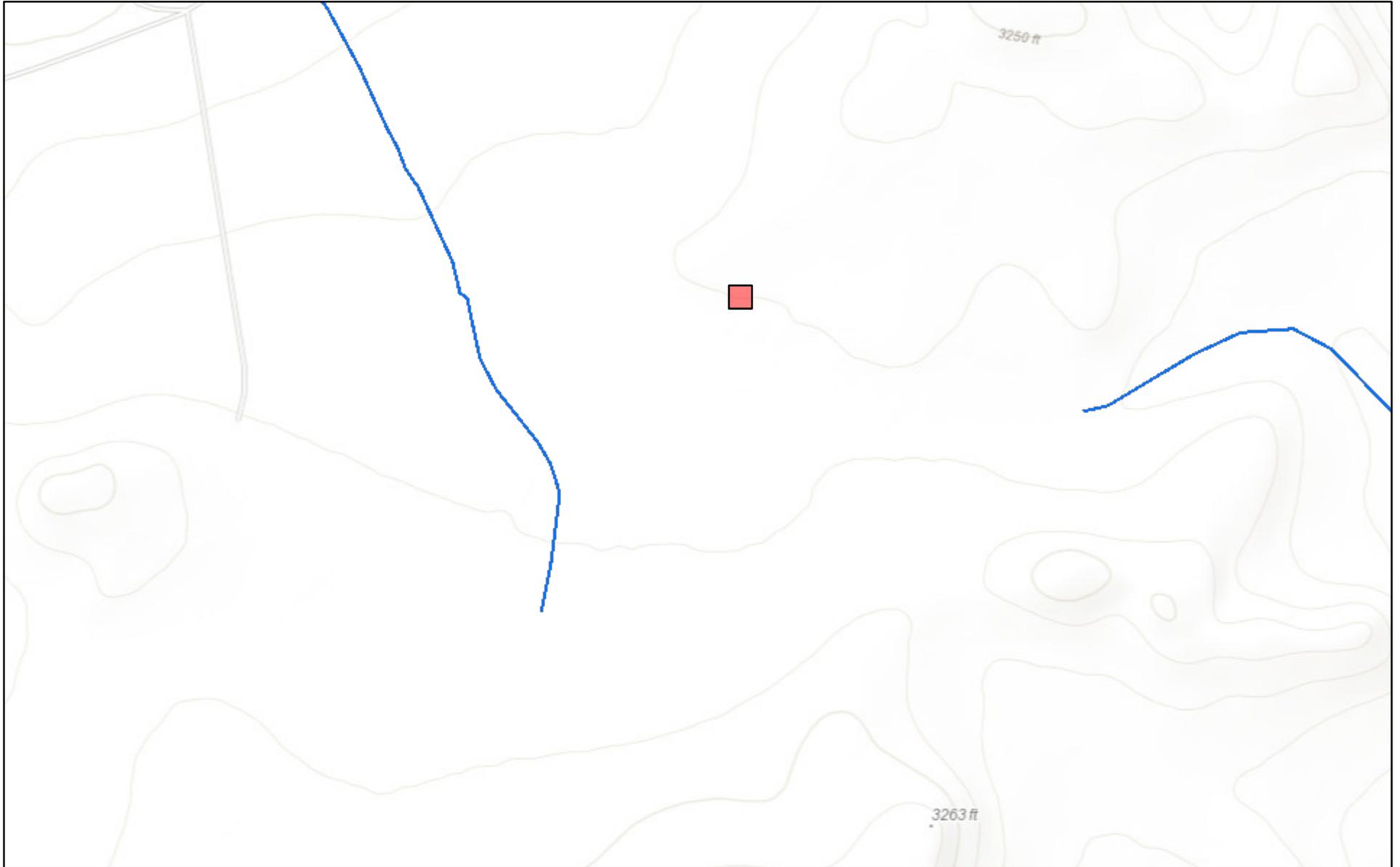
\*UTM location was derived from PLSS - see Help

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.

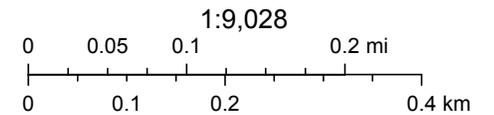
11/13/23 10:26 AM

POINT OF DIVERSION SUMMARY

# New Mexico NFHL Data



November 13, 2023



FEMA, Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey,

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**District I**  
 1625 N. French Dr., Hobbs, NM 88240  
 Phone:(575) 393-6161 Fax:(575) 393-0720

**District II**  
 811 S. First St., Artesia, NM 88210  
 Phone:(575) 748-1283 Fax:(575) 748-9720

**District III**  
 1000 Rio Brazos Rd., Aztec, NM 87410  
 Phone:(505) 334-6178 Fax:(505) 334-6170

**District IV**  
 1220 S. St Francis Dr., Santa Fe, NM 87505  
 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS  
 Action 287216

**CONDITIONS**

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 287216
	Action Type: [C-141] Release Corrective Action (C-141)

**CONDITIONS**

Created By	Condition	Condition Date
amaxwell	None	11/28/2023