



SITE INFORMATION

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



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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 NMOC 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

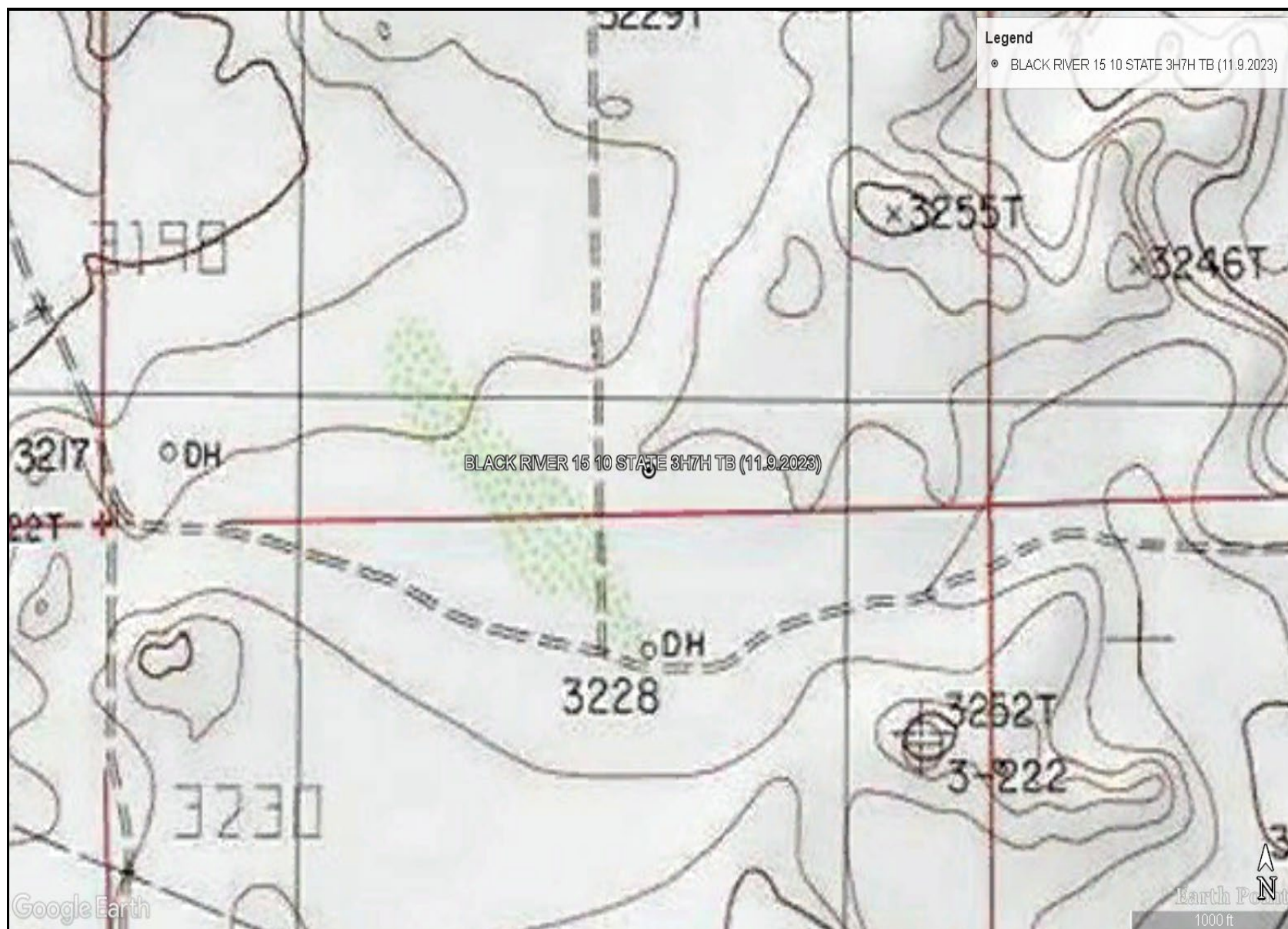
Ashton Thielke
Sr. Project Manager

FIGURES

CARMONA RESOURCES



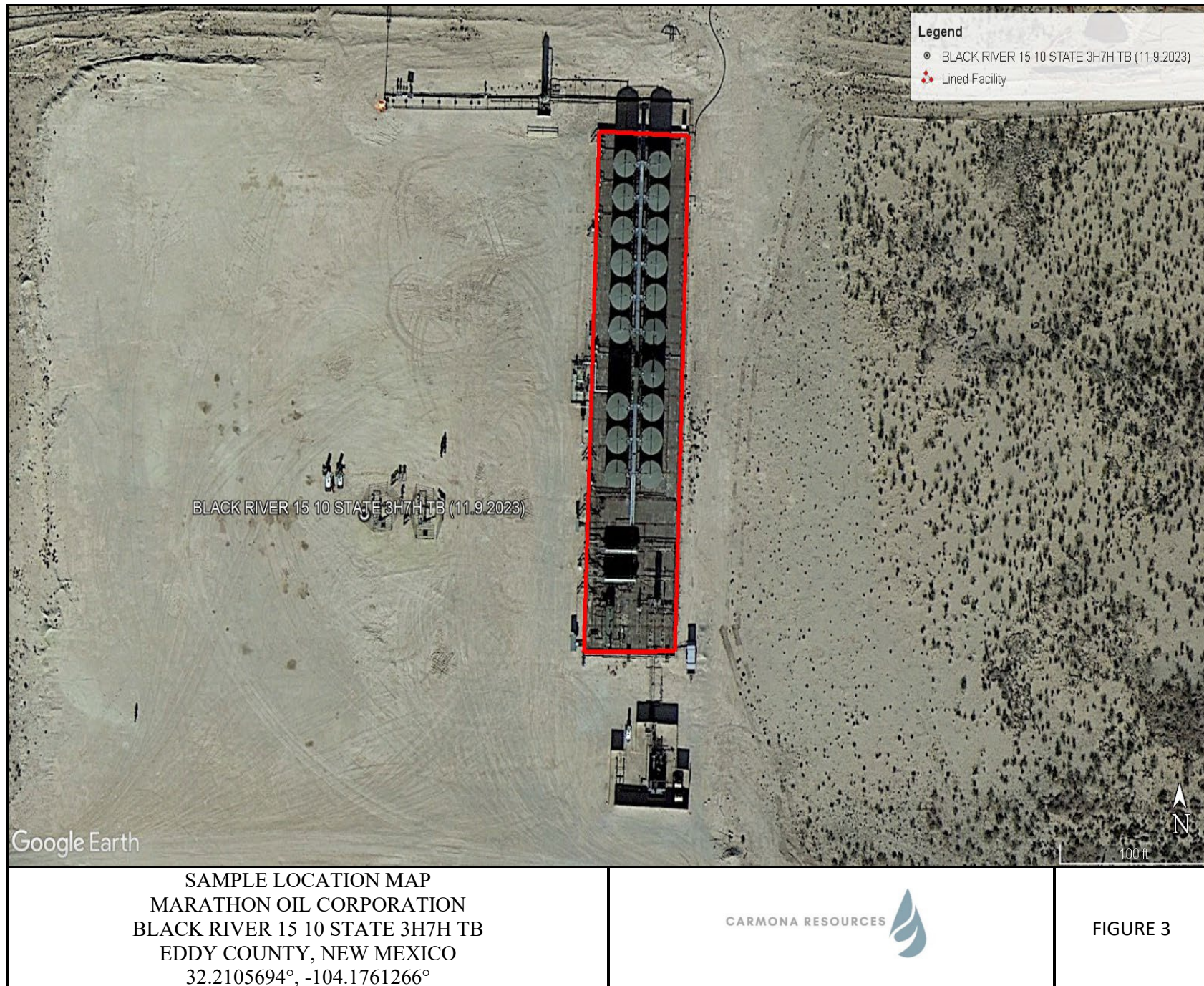




TOPOGRAPHIC MAP
MARATHON OIL CORPORATION
BLACK RIVER 15 10 STATE 3H7H TB
EDDY COUNTY, NEW MEXICO
32.2105694°, -104.1761266°



FIGURE 2



APPENDIX A

CARMONA RESOURCES



PHOTOGRAPHIC LOG

Marathon Oil Corporation

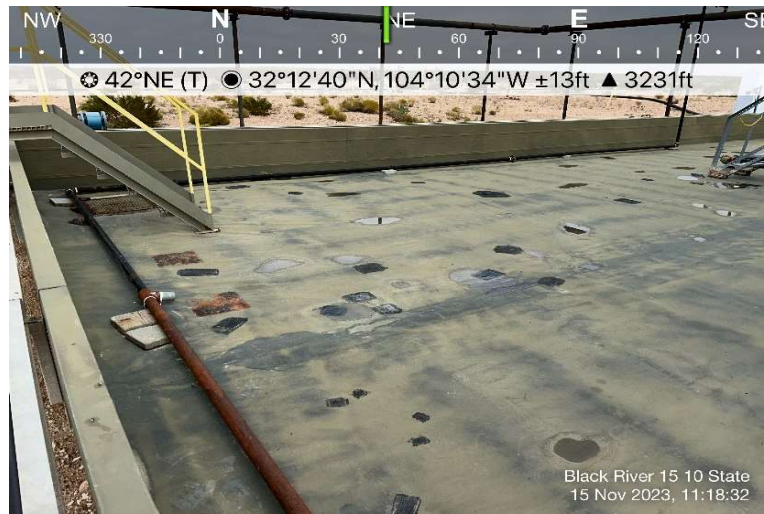
Photograph No. 1

Facility: Black River 15 10 State 3H7H TB

County: Eddy County, New Mexico

Description:

View Northeast of lined facility.



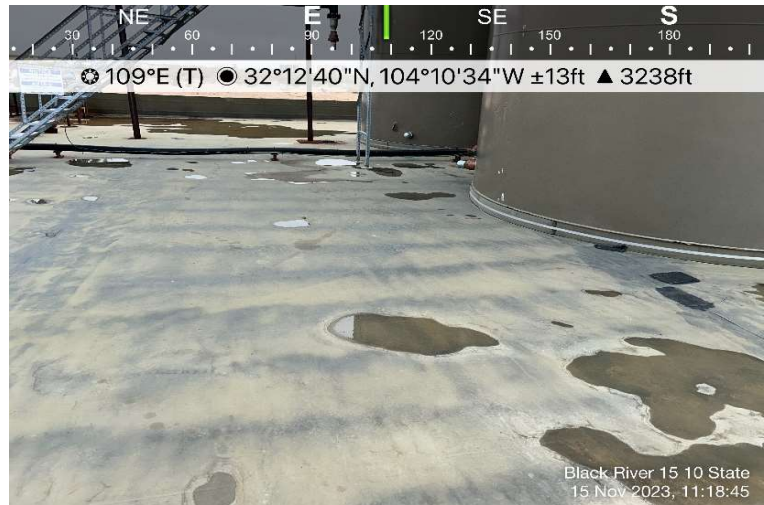
Photograph No. 2

Facility: Black River 15 10 State 3H7H TB

County: Eddy County, New Mexico

Description:

View East of lined facility.



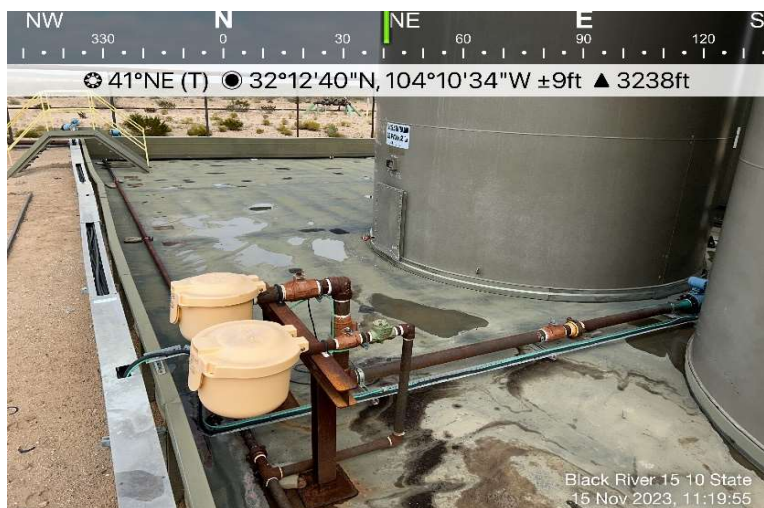
Photograph No. 3

Facility: Black River 15 10 State 3H7H TB

County: Eddy County, New Mexico

Description:

View Northeast of lined facility.



PHOTOGRAPHIC LOG

Marathon Oil Corporation

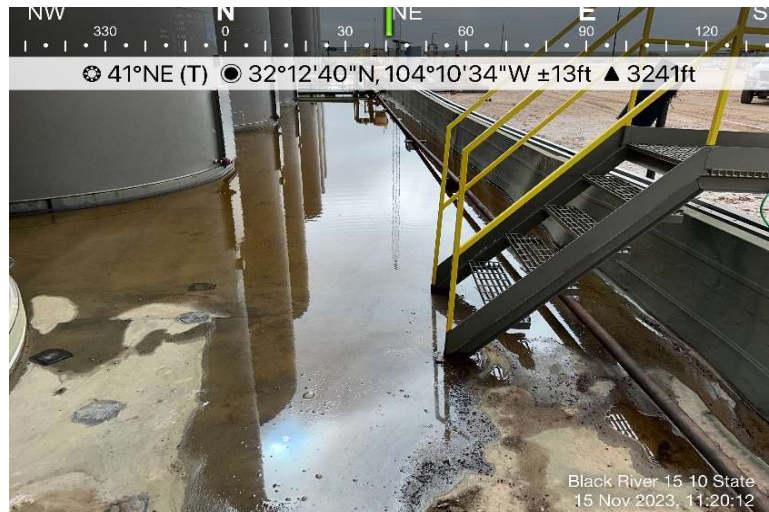
Photograph No. 4

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.



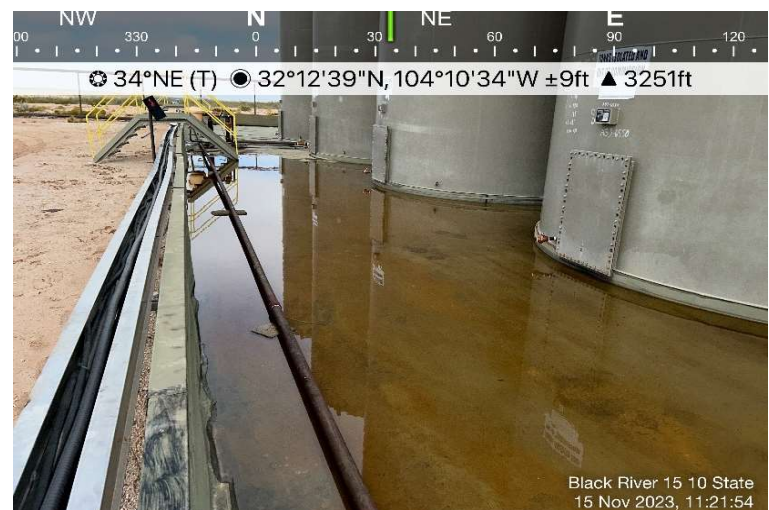
Photograph No. 6

Facility: Black River 15 10 State 3H7H TB

County: Eddy County, New Mexico

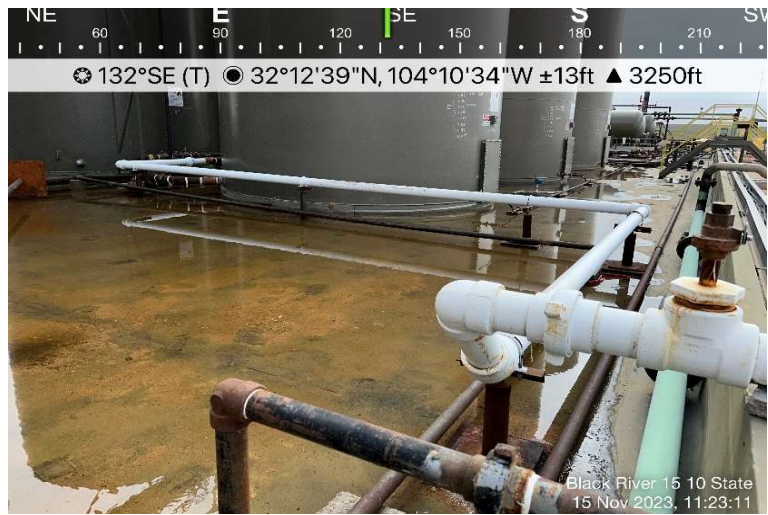
Description:

View Northeast of lined facility.

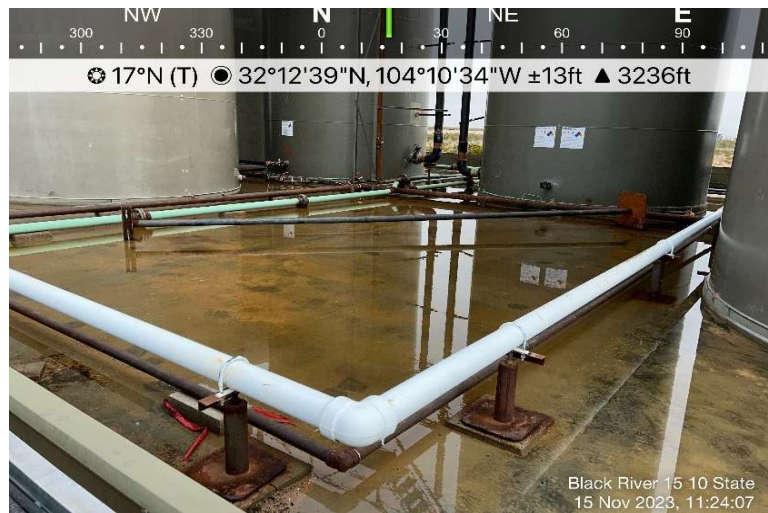


PHOTOGRAPHIC LOG**Marathon Oil Corporation****Photograph No. 7****Facility:** Black River 15 10 State 3H7H TB**County:** Eddy County, New Mexico**Description:**

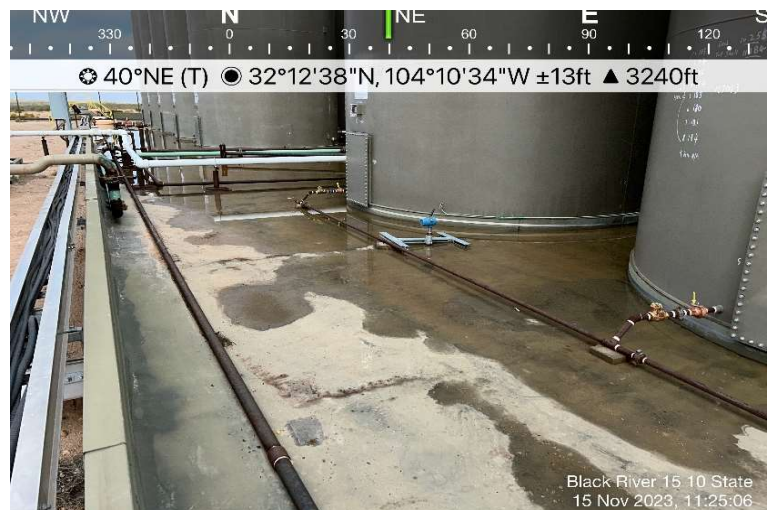
View Southeast of lined facility.

**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

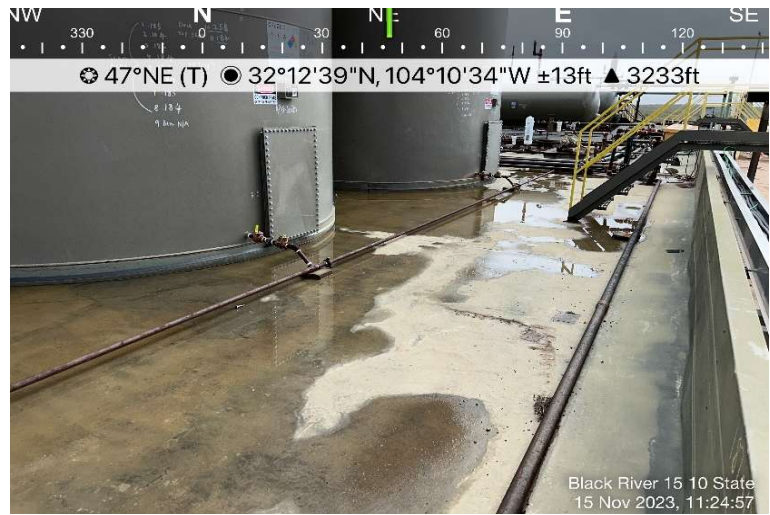
Photograph No. 10

Facility: Black River 15 10 State 3H7H TB

County: Eddy County, New Mexico

Description:

View Northeast of lined facility.



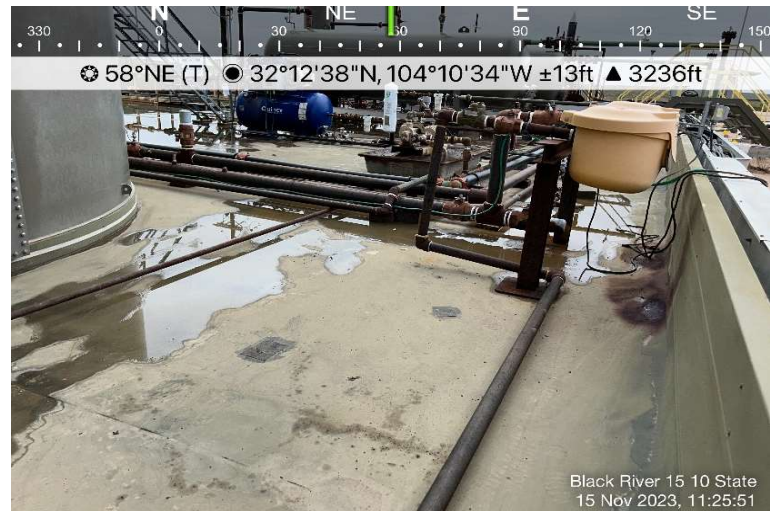
Photograph No. 11

Facility: Black River 15 10 State 3H7H TB

County: Eddy County, New Mexico

Description:

View Northeast of lined facility.



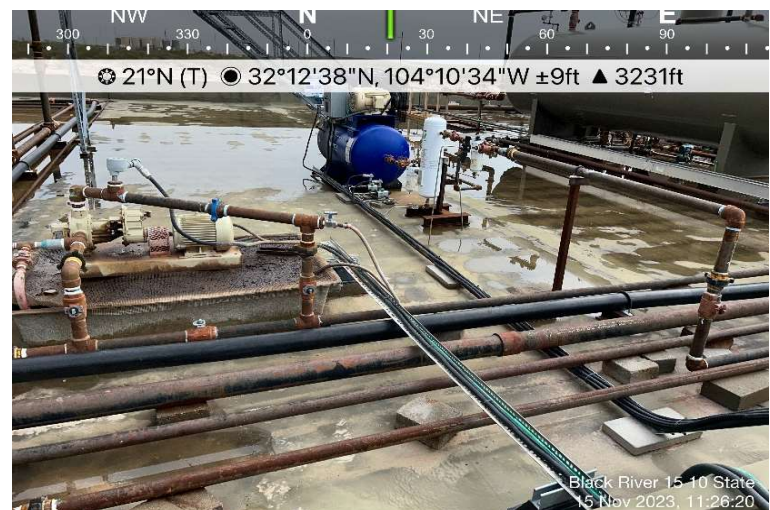
Photograph No. 12

Facility: Black River 15 10 State 3H7H TB

County: Eddy County, New Mexico

Description:

View North of lined facility.



PHOTOGRAPHIC LOG

Marathon Oil Corporation

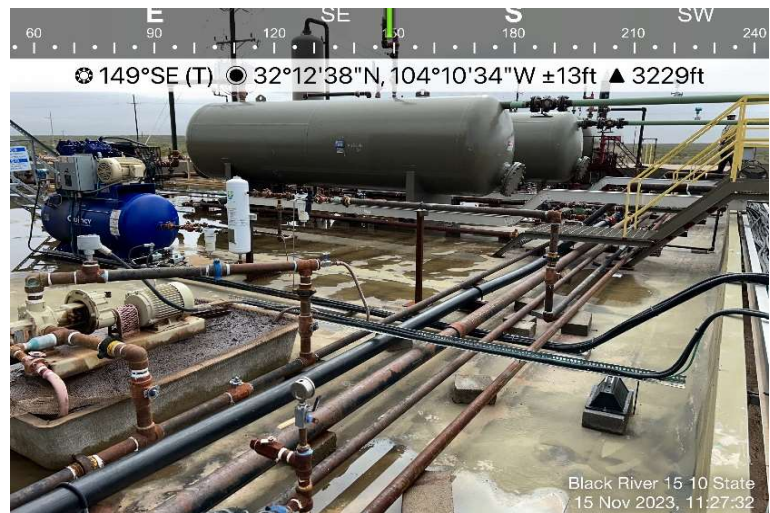
Photograph No. 13

Facility: Black River 15 10 State 3H7H TB

County: Eddy County, New Mexico

Description:

View Southeast of lined facility.



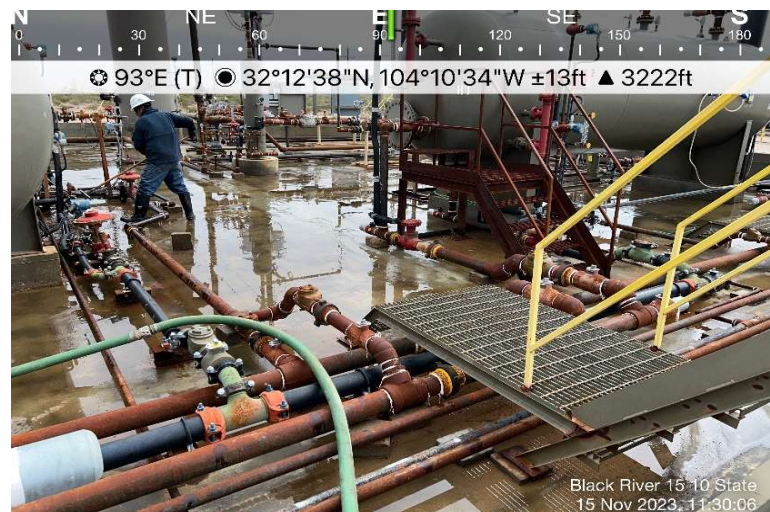
Photograph No. 14

Facility: Black River 15 10 State 3H7H TB

County: Eddy County, New Mexico

Description:

View East of lined facility.



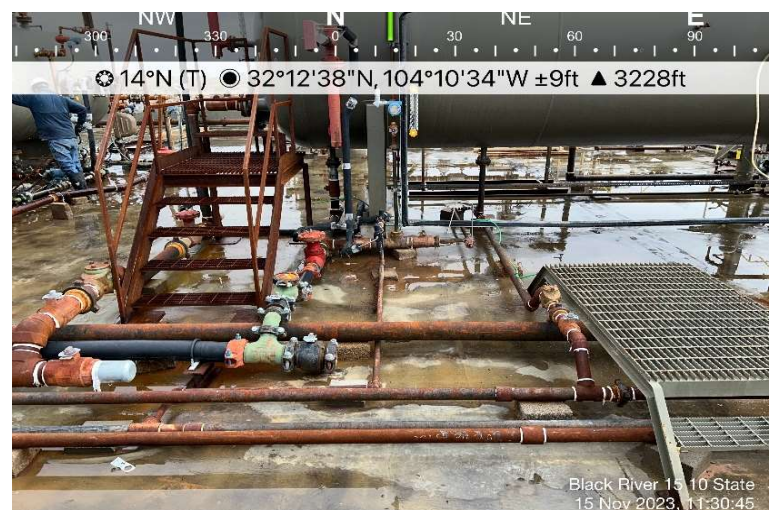
Photograph No. 15

Facility: Black River 15 10 State 3H7H TB

County: Eddy County, New Mexico

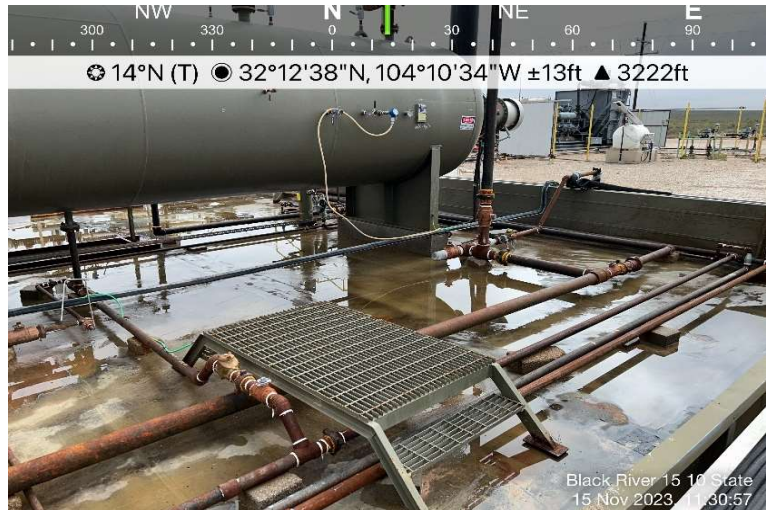
Description:

View North of lined facility.

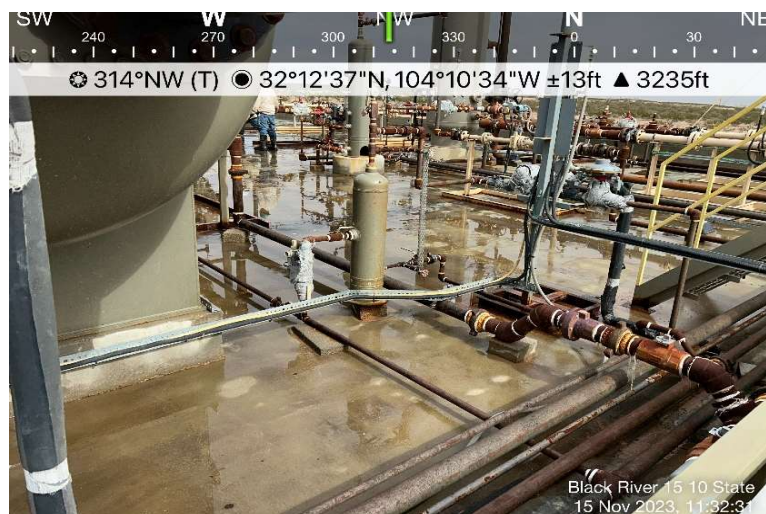


PHOTOGRAPHIC LOG**Marathon Oil Corporation****Photograph No. 16****Facility:** Black River 15 10 State 3H7H TB**County:** Eddy County, New Mexico**Description:**

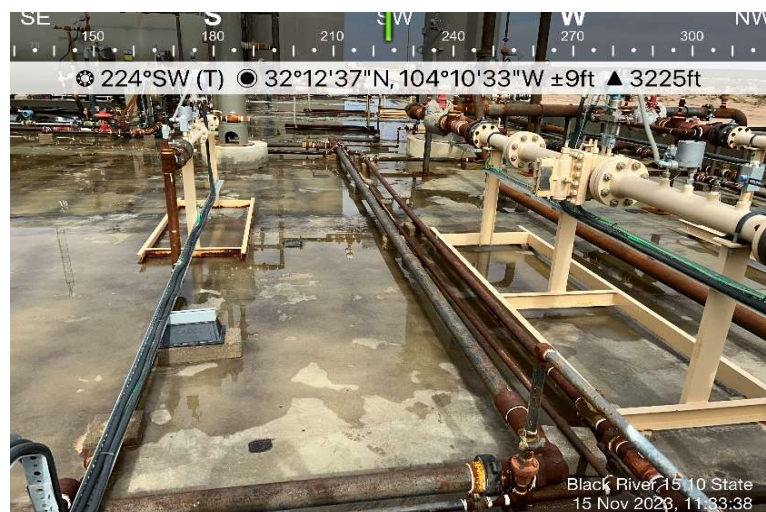
View North of lined facility.

**Photograph No. 17****Facility:** Black River 15 10 State 3H7H TB**County:** Eddy County, New Mexico**Description:**

View Northwest of lined facility.

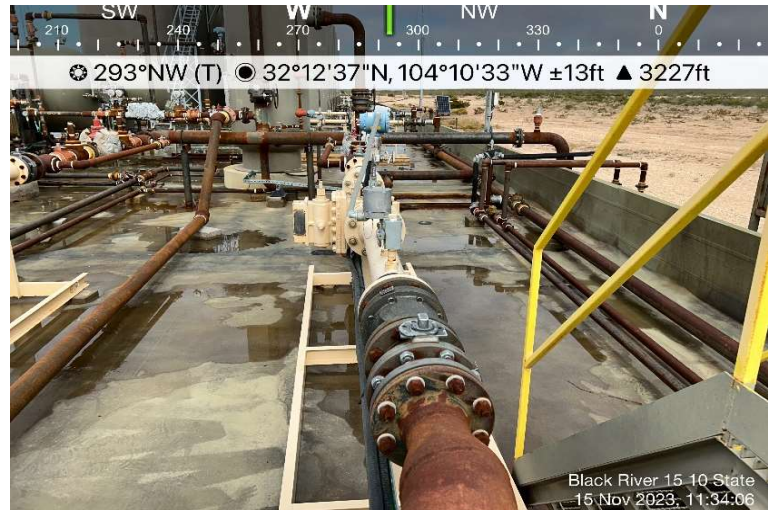
**Photograph No. 18****Facility:** Black River 15 10 State 3H7H TB**County:** Eddy County, New Mexico**Description:**

View Southwest of lined facility.

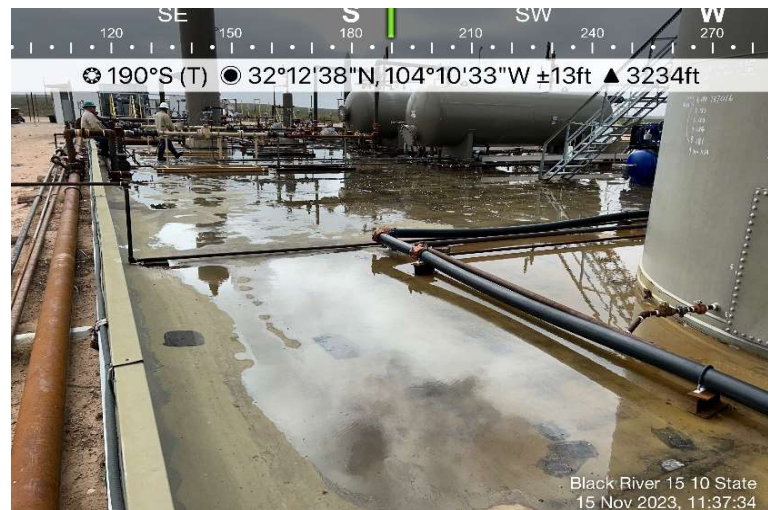


PHOTOGRAPHIC LOG**Marathon Oil Corporation****Photograph No. 19****Facility:** Black River 15 10 State 3H7H TB**County:** Eddy County, New Mexico**Description:**

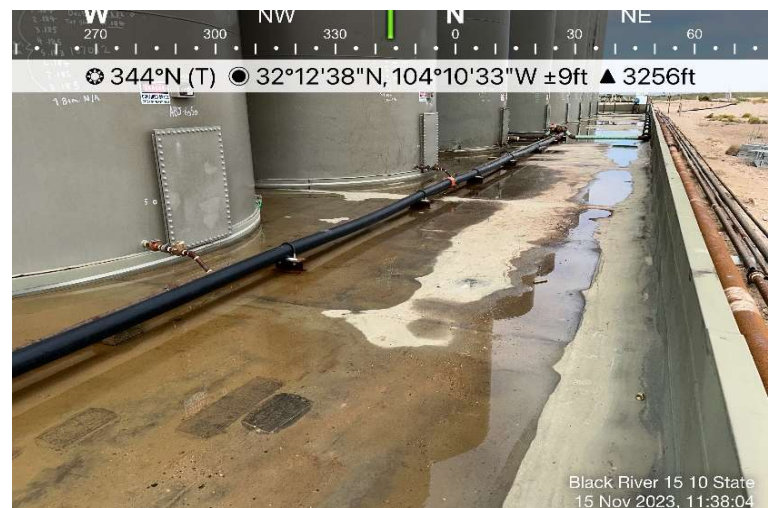
View West of lined facility.

**Photograph No. 20****Facility:** Black River 15 10 State 3H7H TB**County:** Eddy County, New Mexico**Description:**

View South of lined facility.

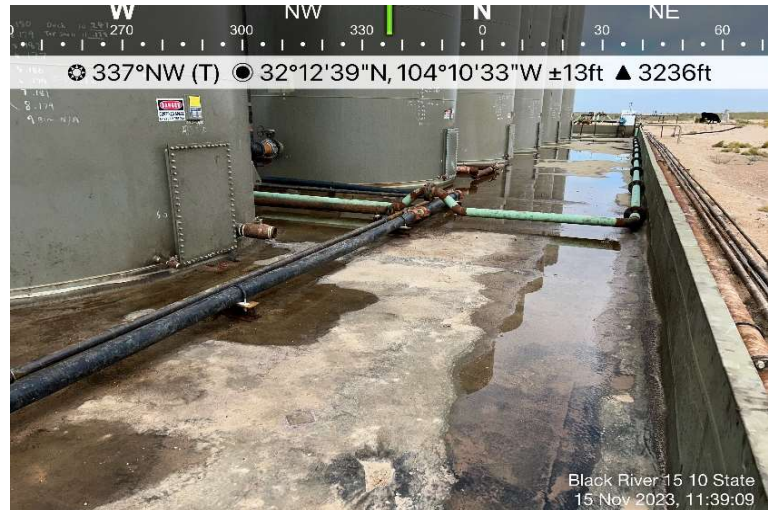
**Photograph No. 21****Facility:** Black River 15 10 State 3H7H TB**County:** Eddy County, New Mexico**Description:**

View North of lined facility.

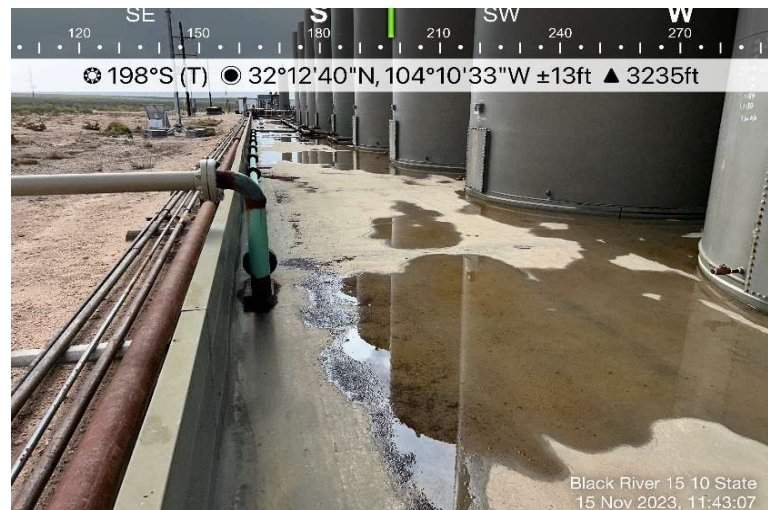


PHOTOGRAPHIC LOG**Marathon Oil Corporation****Photograph No. 22****Facility:** Black River 15 10 State 3H7H TB**County:** Eddy County, New Mexico**Description:**

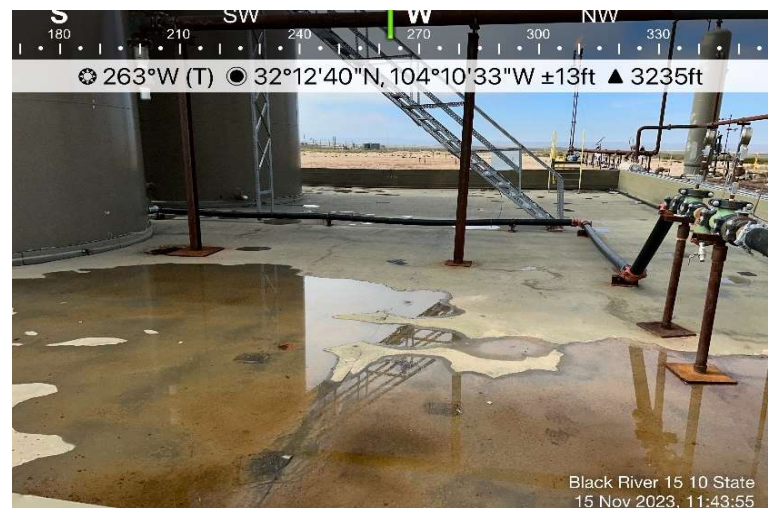
View North of lined facility.

**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

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

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

| | |
|----------------|----------------|
| 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 msanjari@marathonoil.com | 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

| | |
|----------------|----------------|
| 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: 11/9/2023 |
| email: <u>msanjari@marathonoil.com</u> | Telephone: <u>575-988-8753</u> |
| <u>OCD Only</u> | |
| 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: | | | | | 16.00 | 16.00 | 0.00 |

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 | | | | | 0.00 | 0.00 | 0.00 |

| | Total Volume (bbls) | Water Volume (bbls) | Oil Volume (bbls) |
|----------------------------|------------------------|------------------------|----------------------|
| Total Spill Volume (bbls): | 16.00 | 16.00 | 0.00 |
| Total Spill Volume (gals): | 672.00 | 672.00 | 0.00 |

Comments:

Color Key:

| | | | |
|---------------------------------|-----------------------------|----------------------------|----------|
| Required Input Cells | Supplemental Input Cells | No Input (Calculations) | No Input |
|---------------------------------|-----------------------------|----------------------------|----------|

Ground/Vegetation Overspray

| Cover Type | Microns | Approximate Depth (in) |
|---------------|---------|------------------------|
| Ground | | |
| 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 not 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: _____

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
<http://www.emnrd.state.nm.us/OCD/>

From: Clint Merritt <MerrittC@carmonaresources.com>
Sent: Friday, November 10, 2023 9:40 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Melodie Sanjari <msanjari@marathonoil.com>; Castro, Isaac (MRO) <icastro@marathonoil.com>; Mike Carmona <Mcarmona@carmonaresources.com>; Conner Moehring <Cmoehring@carmonaresources.com>; Devin Dominguez <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

CARMONA RESOURCES



APPENDIX C

CARMONA RESOURCES

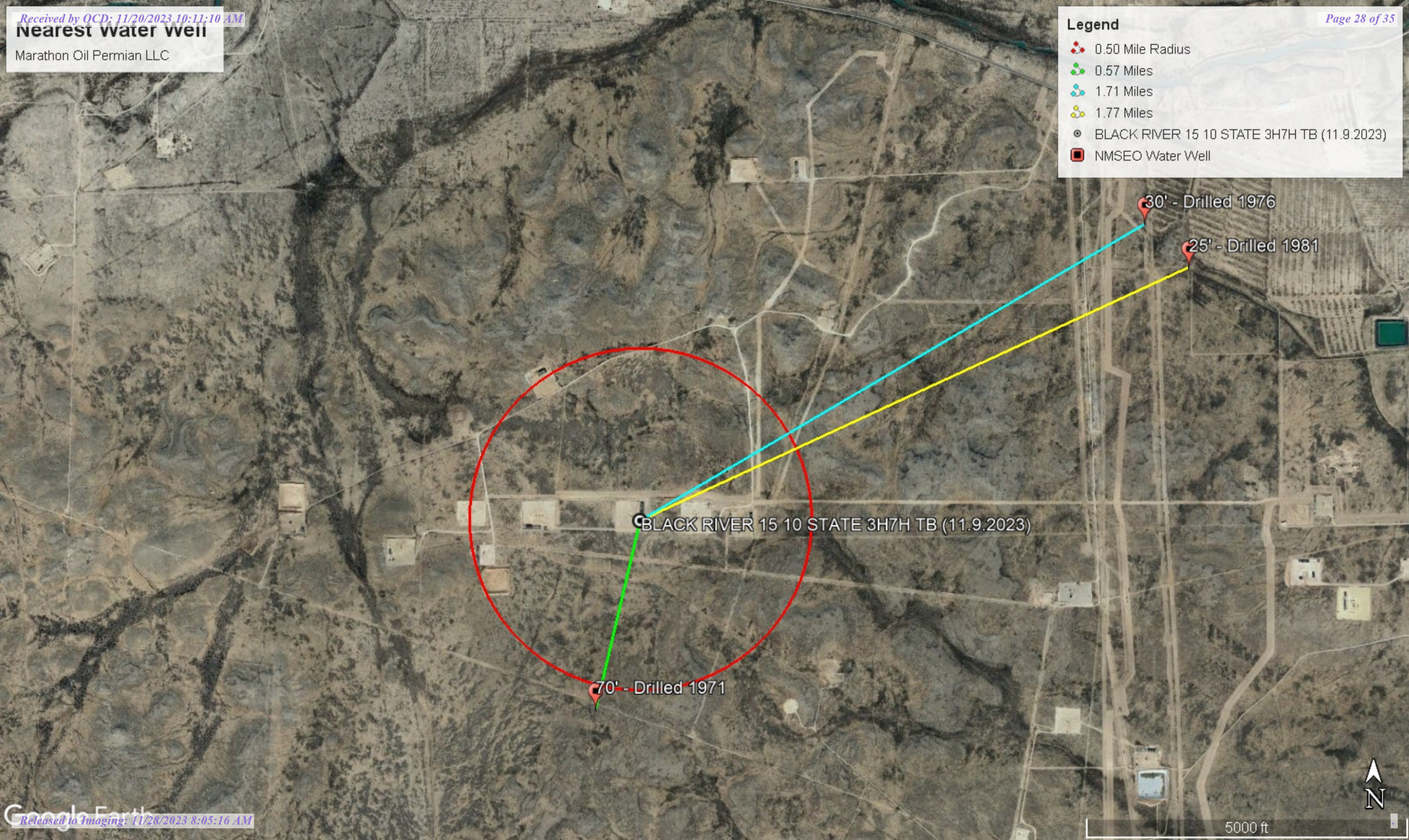


Nearest water well

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



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 |
|------------------------------|--------------|-------|--------|------|------|-----|-----|-----|--------|----------|----------|----------|------------|-------------|--------------|
| C 01452 | C | | ED | | | | 22 | 24S | 27E | 577435 | 3563175* | 921 | 95 | 70 | 25 |
| C 04147 POD1 | CUB | | ED | 4 | 1 | 3 | 24 | 24S | 27E | 580101 | 3562969 | 2695 | 35 | | |
| C 00347 | CUB | | ED | | 1 | 1 | 13 | 24S | 27E | 580010 | 3565479* | 2753 | 60 | 30 | 30 |
| C 03147 | C | | ED | 3 | 3 | 3 | 12 | 24S | 27E | 579885 | 3565715 | 2779 | 140 | | |
| C 01943 | C | | ED | | | 1 | 13 | 24S | 27E | 580221 | 3565275* | 2845 | 30 | 25 | 5 |
| C 00342 | C | CUB | ED | 4 | 1 | 13 | 24S | 27E | 580432 | 3565080* | 2966 | 2565 | | | |
| C 00850 | 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

UTM NAD83 Radius Search (in meters):

Easting (X): 577642

Northing (Y): 3564073

Radius: 3000

*UTM location was derived from PLSS - see Help

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11/13/23 10:22 AM


Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER



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) | |
| Well Tag | POD Number | Q64 | Q16 | Q4 | Sec Tws Rng X Y |
| | C 01452 | | | 22 24S 27E | 577435 3563175*  |
| <hr/> | | | | | |
| Driller License: | 30 | Driller Company: | | BARRON, EMMETT | |
| Driller Name: | BARRON, EMMETT | | | | |
| Drill Start Date: | 07/21/1971 | Drill Finish Date: | 07/23/1971 | Plug Date: | |
| Log File Date: | 08/02/1971 | PCW Rcv Date: | | Source: Shallow | |
| Pump Type: | | Pipe Discharge Size: | | Estimated Yield: | |
| Casing Size: | 7.00 | Depth Well: | 95 feet | Depth Water: 70 feet | |
| <hr/> | | | | | |
| 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) | | | |
| Well Tag | POD Number | Q64 | Q16 | Q4 | Sec | Tws | Rng | X | Y | | | | |
| C | 00347 | 1 | 1 | 13 | 24S | 27E | 580010 | 3565479* | | | | | |
| <hr/> | | | | | | | | | | | | | |
| Driller License: | | 24 | Driller Company: | | BRININSTOOL, M.D. | | | | | | | | |
| Driller Name: | | BRININSTOOL, M.D. | | | | | | | | | | | |
| Drill Start Date: | | 07/02/1974 | Drill Finish Date: | | 06/25/1976 | Plug Date: | | | | | | | |
| Log File Date: | | 07/01/1976 | PCW Rcv Date: | | | | Source: | | Shallow | | | | |
| Pump Type: | | Pipe Discharge Size: | | | | Estimated Yield: | | 100 GPM | | | | | |
| Casing Size: | | 4.25 | Depth Well: | | 60 feet | Depth Water: | | 30 feet | | | | | |
| <hr/> | | | | | | | | | | | | | |
| 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) | |
| Well Tag | POD Number | Q64 | Q16 | Q4 | Sec Tws Rng X Y |
| | C 01943 | | | 1 13 | 24S 27E 580221 3565275*  |
| <hr/> | | | | | |
| Driller License: | 961 | Driller Company: | MAVERICK DRILLING | | |
| Driller Name: | DON THOMPSON | | | | |
| Drill Start Date: | 09/15/1981 | Drill Finish Date: | 09/25/1981 | Plug Date: | |
| Log File Date: | 06/11/1982 | PCW Rcv Date: | | Source: | |
| Pump Type: | | Pipe Discharge Size: | | Estimated Yield: | 2 GPM |
| Casing Size: | | Depth Well: | 30 feet | Depth Water: | 25 feet |
| <hr/> | | | | | |
| Water Bearing Stratifications: | | Top | Bottom | Description | |
| | | 0 | 10 | Shallow Alluvium/Basin Fill | |
| | | 10 | 25 | Other/Unknown | |
| | | 25 | 30 | Sandstone/Gravel/Conglomerate | |

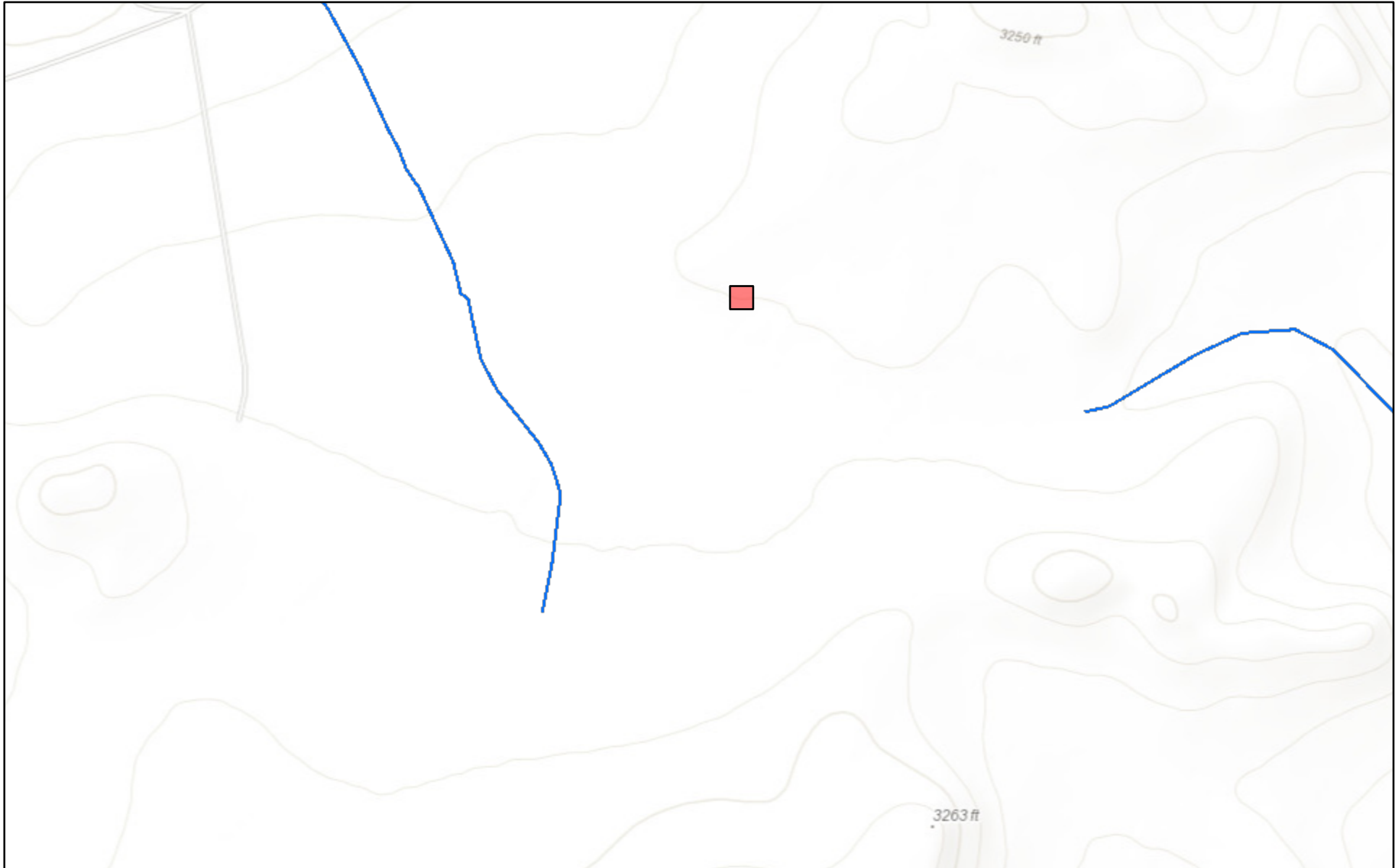
*UTM location was derived from PLSS - see Help

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.

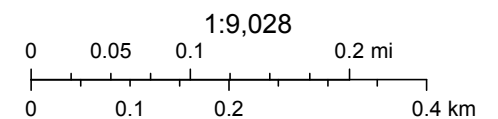
11/13/23 10:26 AM

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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This is a non-regulatory product for informational use only. Please consult your local floodplain administrator for further information.

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 |