

CARMONA RESOURCES



## SITE INFORMATION

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**Closure Report**  
**Trojan Horse 35 Fed Com CTB TB**  
**Incident ID: NAPP2405570668**  
**Unit M Sec 26 T22S R28E**  
**32.3571294°, -104.0628609°**  
**Eddy County, New Mexico**

**Produced Water Release**  
**Point of Release: Equipment failure inside the secondary containment**  
**Release Date: 2.24.23**  
**Volume Released: 170 Barrels of Produced Water**  
**Volume Recovered: 170 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**

310 West Wall Street, Suite 500  
Midland TX, 79701  
432.813.1992



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March 19, 2024

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

**Re: Closure Report**  
**Trojan Horse 35 Fed Com CTB TB**  
**Marathon Oil Corporation**  
**Incident ID: NAPP2405570668**  
**Site Location: Unit M, S26, T22S, R28E**  
**(Lat 32.3571294°, Long -104.0628609°)**  
**Eddy County, New Mexico**

Mr. Bratcher:

On behalf of Marathon Oil Corporation, Carmona Resources, LLC has prepared this letter to document the Trojan Horse 35 Fed Com CTB TB site activities. The site is located at 32.3571294°, -104.0628609° within Unit M, S26, T22S, R28E, 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 incident was discovered on February 24, 2024, due to equipment failure inside the secondary containment. The incident released approximately one-hundred-and-seventy (170) barrels of produced water, with one-hundred-and-seventy (170) barrels of produced water recovered. All fluids were contained 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 area. Based on a review of the New Mexico Office of State Engineers and USGS databases, one known water source is within a 0.50-mile radius of the location. The nearest well is located approximately 0.38 miles southwest of the site in S35, T22S, R28E and was drilled in 2023. The well has a reported groundwater depth of 64' 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: 2,500 mg/kg (GRO + DRO + MRO).
- Chloride: 10,000 mg/kg.

### **4.0 Liner Inspection Activities**

On March 14, 2024, Carmona Resources, LLC conducted liner inspection activities to assess the liner's integrity within the facility. Prior to the liner inspection, the NMOCD division office was notified via web portal on March 12, 2024, per Subsection D of 19.15.29.12 NMAC. See Appendix B. Carmona



Resources, LLC personnel inspected the liner visually and found 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

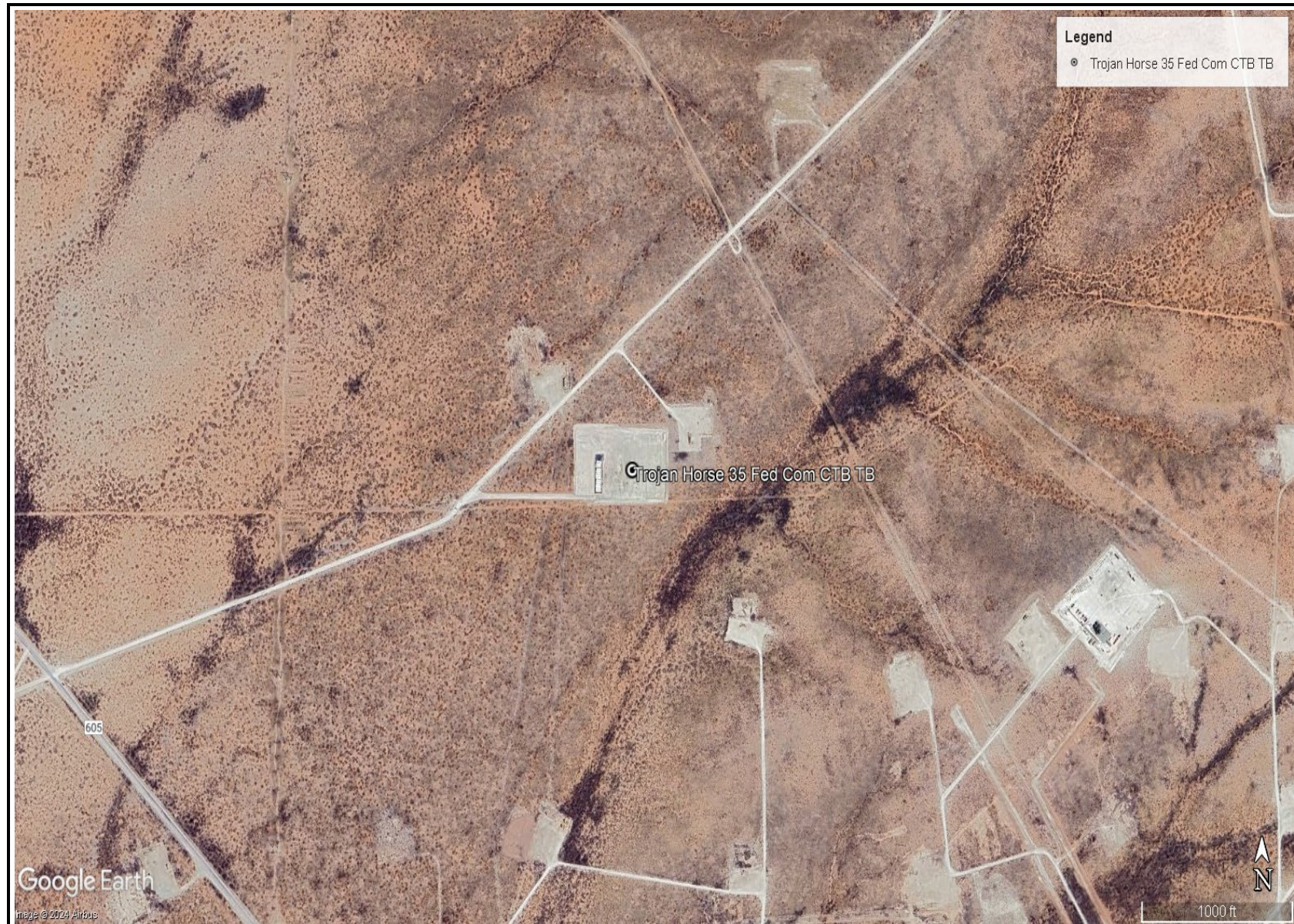
Ashton Thielke  
Sr. Project Manager



## FIGURES

CARMONA RESOURCES



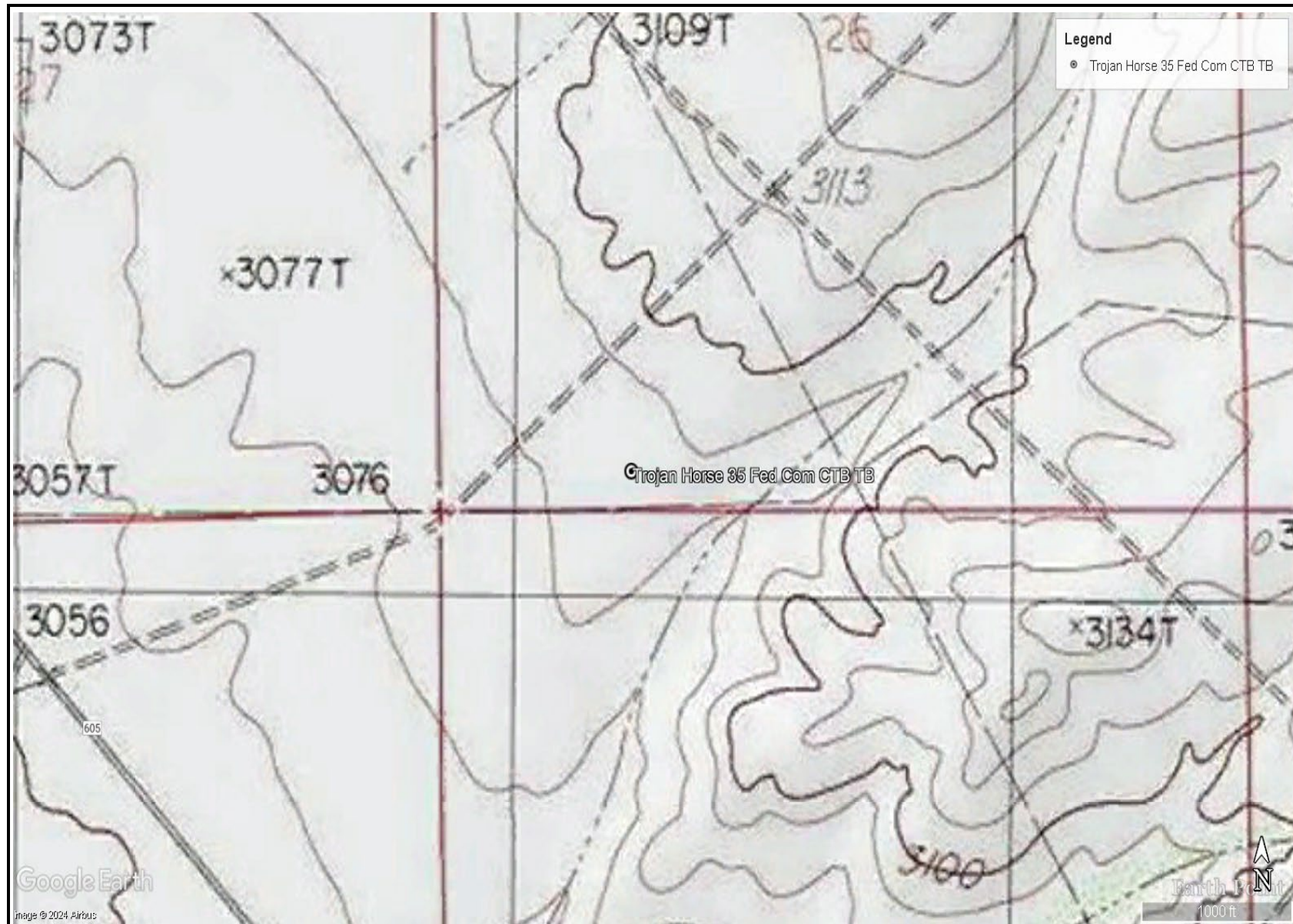


OVERVIEW MAP  
MARATHON OIL CORPORATION  
TROJAN HORSE 35 FED COM CTB TB  
EDDY COUNTY, NEW MEXICO  
32.3571294°, -104.0628609°



FIGURE 1





TOPOGRAPHIC MAP  
MARATHON OIL CORPORATION  
TROJAN HORSE 35 FED COM CTB TB  
EDDY COUNTY, NEW MEXICO  
32.3571294°, -104.0628609°



FIGURE 2





## APPENDIX A

CARMONA RESOURCES



## PHOTOGRAPHIC LOG

Marathon Oil Corporation

## Photograph No. 1

Facility: Trojan Horse 35 Fed Com CTB TB

County: Eddy County, New Mexico

## Description:

View West, area of lined facility.



## Photograph No. 2

Facility: Trojan Horse 35 Fed Com CTB TB

County: Eddy County, New Mexico

## Description:

View North, area of lined facility.



## Photograph No. 3

Facility: Trojan Horse 35 Fed Com CTB TB

County: Eddy County, New Mexico

## Description:

View Northwest, area of lined facility.



## PHOTOGRAPHIC LOG

## Marathon Oil Corporation

## Photograph No. 4

Facility: Trojan Horse 35 Fed Com CTB TB

County: Eddy County, New Mexico

## Description:

View Southeast, area of lined facility.



## Photograph No. 5

Facility: Trojan Horse 35 Fed Com CTB TB

County: Eddy County, New Mexico

## Description:

View Northeast, area of lined facility.



## Photograph No. 6

Facility: Trojan Horse 35 Fed Com CTB TB

County: Eddy County, New Mexico

## Description:

View Northeast, area of lined facility.





## PHOTOGRAPHIC LOG

Marathon Oil Corporation

## Photograph No. 7

Facility: Trojan Horse 35 Fed Com CTB TB

County: Eddy County, New Mexico

## Description:

View North, area of lined facility.



## Photograph No. 8

Facility: Trojan Horse 35 Fed Com CTB TB

County: Eddy County, New Mexico

## Description:

View Northeast, area of lined facility.



## Photograph No. 9

Facility: Trojan Horse 35 Fed Com CTB TB

County: Eddy County, New Mexico

## Description:

View Southeast, area of lined facility.





## PHOTOGRAPHIC LOG

Marathon Oil Corporation

## Photograph No. 10

Facility: Trojan Horse 35 Fed Com CTB TB

County: Eddy County, New Mexico

## Description:

View North, area of lined facility.



## Photograph No. 11

Facility: Trojan Horse 35 Fed Com CTB TB

County: Eddy County, New Mexico

## Description:

View North, area of lined facility.



## Photograph No. 12

Facility: Trojan Horse 35 Fed Com CTB TB

County: Eddy County, New Mexico

## Description:

View East, area of lined facility.





## PHOTOGRAPHIC LOG

Marathon Oil Corporation

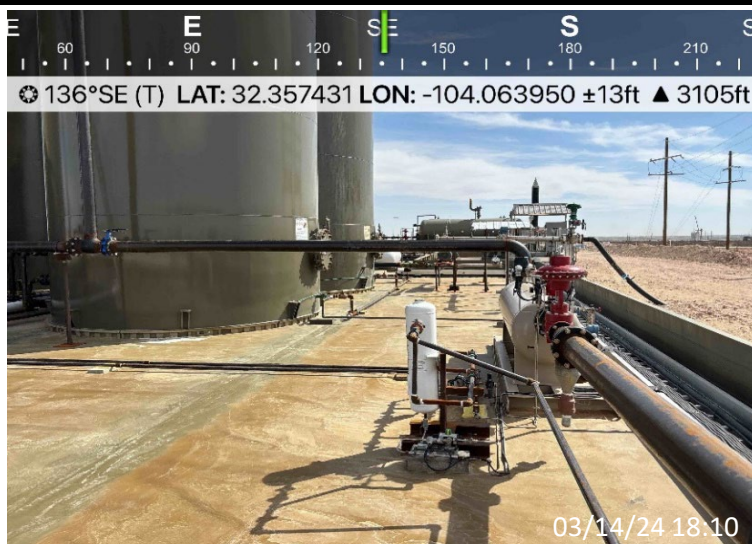
## Photograph No. 13

Facility: Trojan Horse 35 Fed Com CTB TB

County: Eddy County, New Mexico

## Description:

View Southeast, area of lined facility.



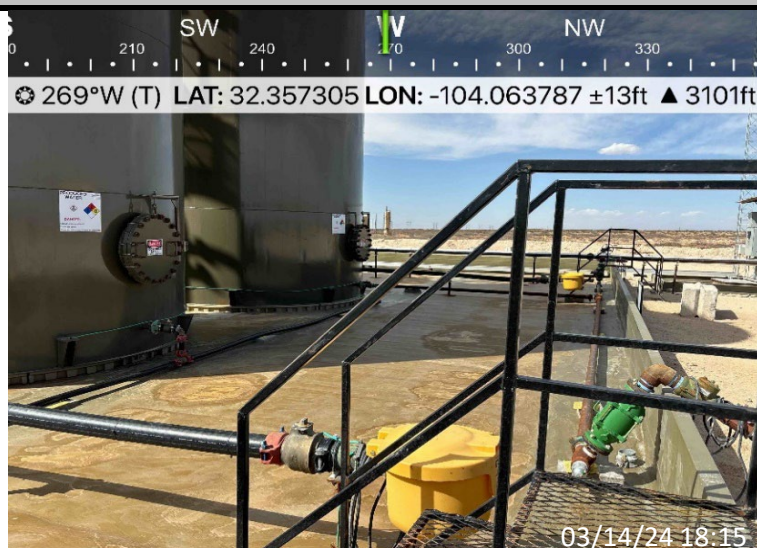
## Photograph No. 14

Facility: Trojan Horse 35 Fed Com CTB TB

County: Eddy County, New Mexico

## Description:

View West, area of lined facility.



## Photograph No. 15

Facility: Trojan Horse 35 Fed Com CTB TB

County: Eddy County, New Mexico

## Description:

View South, area of lined facility.



## APPENDIX B

CARMONA RESOURCES



OCD Permitting

Home    Operator Data    Action Status    Action Search Results    Action Status Item Details

[C-141] Initial C-141 (C-141-V-INITIAL) Application

Submission Information

|                 |   |            |         |
|-----------------|---|------------|---------|
| Submission ID:  | 321397  | Districts: | Artesia |
| Operator:       | [372098] MARATHON OIL PERMIAN LLC   | Counties:  | Eddy    |
| Description:    | MARATHON OIL PERMIAN LLC [372098]<br>, TROJAN HORSE 35 FED COM CTB TB<br>, nAPP2405570668 |            |         |
| Status:         | APPROVED  |            |         |
| Status Date:    | 03/07/2024  |            |         |
| References (2): | fAPP2327850534, nAPP2405570668  |            |         |

Forms

|              |                                    |
|--------------|------------------------------------|
| Attachments: | <a href="#">Volume Calculation</a> |
|--------------|------------------------------------|

Questions

Prerequisites

|                   |   |
|-------------------|---|
| Incident ID (n#)  | nAPP2405570668                                    |
| Incident Name     | NAPP2405570668 TROJAN HORSE 35 FED COM CTB TB @ 0 |
| Incident Type     | Produced Water Release                            |
| Incident Status   | Initial C-141 Received                            |
| Incident Facility | [fAPP2327850534] TROJAN HORSE 35 FED COM CTB TB   |

Location of Release Source

Please answer all the questions in this group.

|                         |                                |
|-------------------------|--------------------------------|
| Site Name               | TROJAN HORSE 35 FED COM CTB TB |
| Date Release Discovered | 02/24/2024                     |
| Surface Owner           | Federal                        |

Incident Details

Please answer all the questions in this group.

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

Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

|                                    |               |
|------------------------------------|---------------|
| Crude Oil Released (bbbls) Details | Not answered. |
|------------------------------------|---------------|

Other Released Details

Are there 

additional details

 for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)

Not answered.

All volume was recovered via vac truck. This release was all contained inside lined secondary containment.

Nature and Volume of Release (continued)

Is this a gas only submission (i.e. only significant Mcf values reported)

Was this a major release as defined by Subsection A of 19.15.29.7 NMAC

Reasons why this would be considered a submission for a notification of a major release

No, according to supplied volumes this does not appear to be a “gas only” report.

Yes

From paragraph A. “Major release” determine using:  
(1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.

With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.

Initial Response

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

The source of the release has been stopped

The impacted area has been secured to protect human health and the environment

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices

All free liquids and recoverable materials have been removed and managed appropriately

If all the actions described above have not been undertaken, explain why

True

True

True

True

Not answered.

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

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

I hereby agree and sign off to the above statement

Name: Isaac Castro  
Email: icastro@marathonoil.com  
Date: 03/07/2024

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)

What method was used to determine the depth to ground water

Did this release impact groundwater or surface water

Not answered.

Not answered.

Not answered.

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

Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)

An occupied permanent residence, school, hospital, institution, or church

A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes

Any other fresh water well or spring

Incorporated municipal boundaries or a defined municipal fresh water well field

A wetland

A subsurface mine

An (non-karst) unstable area

Categorize the risk of this well / site being in a karst geology

A 100-year floodplain

Did the release impact areas not on an exploration, development, production, or storage site

Not answered.

Not answered.

Not answered.

Not answered.

Not answered.

Not answered.

Not answered.

Not answered.

Not answered.

Not answered.

Not answered.

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

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.

Comments

No comments found for this submission.

Conditions

Summary:                      scwells (3/7/2024), None

Reasons

No reasons found for this submission.

Go Back

|                |  |
|----------------|--|
| 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.

Oil Conservation Division

|                |  |
|----------------|--|
| 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: \_\_\_\_\_ Date: \_\_\_\_\_



|                |  |
|----------------|--|
| 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: \_\_\_\_\_ Date: \_\_\_\_\_

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

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

OCD Permitting

Home    Operator Data    Action Status    Action Search Results    Action Status Item Details

[NOTIFY] Notification Of Liner Inspection (C-141L) Application

Submission Information

|                 |   |            |         |
|-----------------|---|------------|---------|
| Submission ID:  | 322164  | Districts: | Artesia |
| Operator:       | [372098] MARATHON OIL PERMIAN LLC   | Counties:  | Eddy    |
| Description:    | MARATHON OIL PERMIAN LLC [372098]<br>, TROJAN HORSE 35 FED COM CTB TB<br>, nAPP2405570668 |            |         |
| Status:         | APPROVED  |            |         |
| Status Date:    | 03/12/2024  |            |         |
| References (2): | fAPP2327850534, nAPP2405570668  |            |         |

Forms

This application type does not have attachments.

Questions

Prerequisites

|                   |   |
|-------------------|---|
| Incident ID (n#)  | nAPP2405570668                                    |
| Incident Name     | NAPP2405570668 TROJAN HORSE 35 FED COM CTB TB @ 0 |
| Incident Type     | Produced Water Release                            |
| Incident Status   | Initial C-141 Approved                            |
| Incident Facility | [fAPP2327850534] TROJAN HORSE 35 FED COM CTB TB   |

Location of Release Source

|                         |                                |
|-------------------------|--------------------------------|
| Site Name               | TROJAN HORSE 35 FED COM CTB TB |
| Date Release Discovered | 02/24/2024                     |
| Surface Owner           | Federal                        |

Liner Inspection Event Information

Please answer all the questions in this group.

|   |   |
|---|---|
| What is the liner inspection surface area in square feet  | 22,940  |
| Have all the impacted materials been removed from the liner   | Yes   |
| Liner inspection date pursuant to Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC   | 03/14/2024  |
| Time liner inspection will commence   | 04:50 PM  |
| <b>Warning: Notification can not be less than two business days prior to conducting liner inspection.</b> |   |
| Please provide any information necessary for observers to liner inspection                                | Clinton Merritt 432-813-9044  |
| Please provide any information necessary for navigation to liner inspection site                          | From the intersection of NM-31 and refinery Rd, run north onto Refinery Rd and travel 14.2 miles. Turn east or Bend Rd and travel 0.56 miles. Turn east onto unmarked lease road and travel 0.17 miles. Jobsite is directly n |

Comments

No comments found for this submission.

Conditions

**Summary:**      *icastro* (3/12/2024), Failure to notify the OCD of liner inspections including any changes in date/time per the requirements of 19.15.29.11.A(5)(a)(ii) NMAC, may result in the inspection not being accepted.

Reasons

No reasons found for this submission.

Go Back

New Mexico Energy, Minerals and Natural Resources Department | Copyright 2012  
1220 South St. Francis Drive | Santa Fe, NM 87505 | P: (505) 476-3200 | F: (505) 476-3220

## APPENDIX C

CARMONA RESOURCES



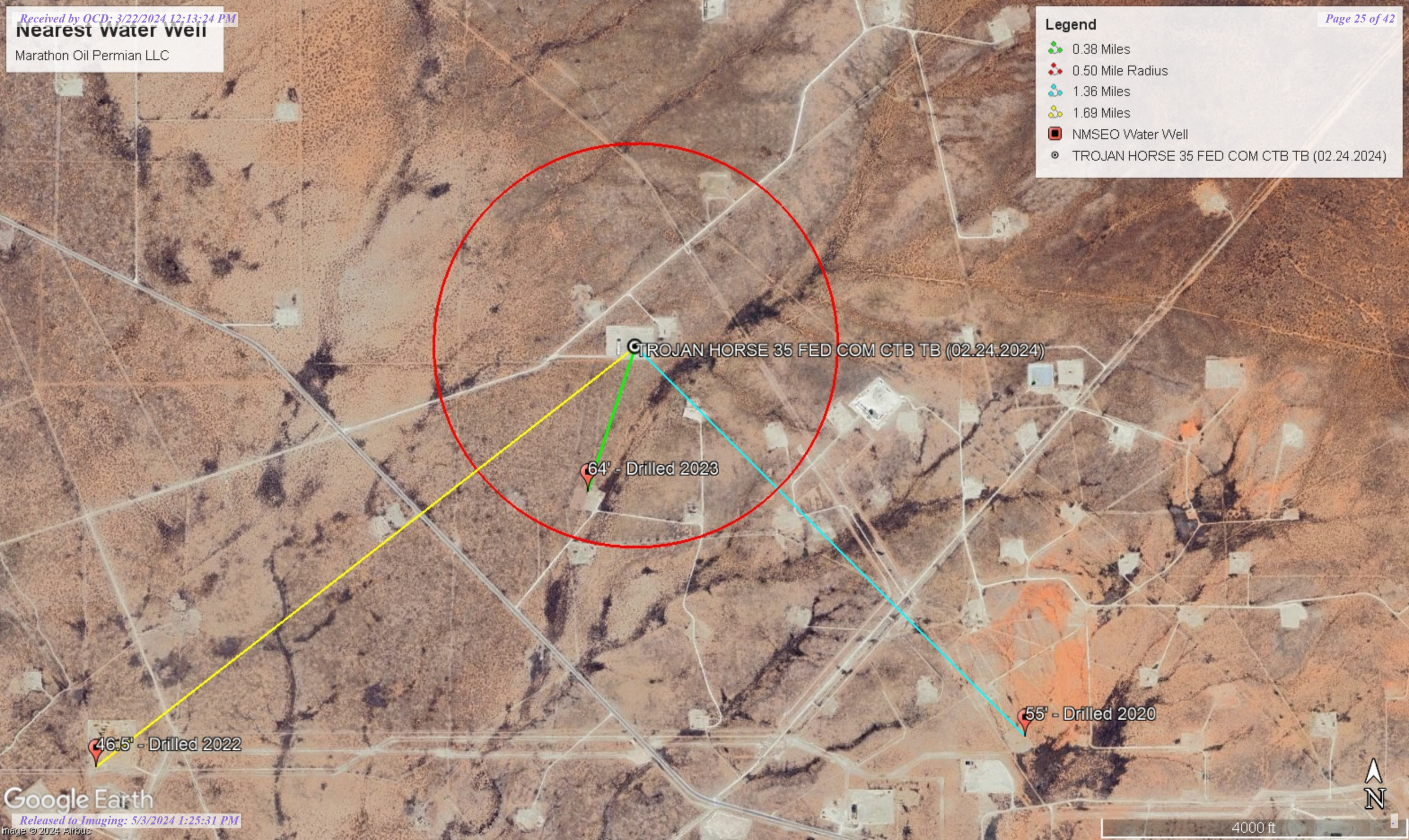


**Nearest water well**

Marathon Oil Permian LLC

**Legend**

- 0.38 Miles
- 0.50 Mile Radius
- 1.36 Miles
- 1.69 Miles
- NMSEO Water Well
- TROJAN HORSE 35 FED COM CTB TB (02.24.2024)





Medium Karst

Marathon Oil Permian LLC

Legend

- Medium
- TROJAN HORSE 35 FED COM CTB TB (02.24.2024)

TROJAN HORSE 35 FED COM CTB TB (02.24.2024)





# 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 04688 POD1</a>      |              | CUB   | ED     | 1    | 3    | 1   | 35  | 22S | 28E | 587989 | 3579827  | 609      | 84         | 64          | 20           |
| <a href="#">C 04417 POD1</a>      |              | CUB   | ED     | 4    | 3    | 3   | 36  | 22S | 28E | 589736 | 3578874  | 2188     | 55         |             |              |
| <a href="#">C 04609 POD1</a>      |              | CUB   | ED     | 2    | 1    | 1   | 01  | 23S | 28E | 589816 | 3578589  | 2450     | 51         |             |              |
| <a href="#">C 04588 POD1</a>      |              | CUB   | ED     | 2    | 2    | 2   | 04  | 23S | 28E | 586043 | 3578720  | 2718     | 50         |             |              |
| <a href="#">C 04677 POD1</a>      |              | CUB   | ED     | 2    | 2    | 2   | 04  | 23S | 28E | 586059 | 3578623  | 2767     | 50         | 47          | 3            |
| <a href="#">C 04524 POD1</a>      |              | CUB   | ED     | 1    | 1    | 2   | 01  | 23S | 28E | 590452 | 3578629  | 2889     | 55         |             |              |
| <a href="#">C 04539 POD1</a>      |              | CUB   | ED     | 2    | 4    | 2   | 01  | 23S | 28E | 591034 | 3578223  | 3598     | 55         |             |              |
| <a href="#">C 00512 CLW198323</a> | O            | CUB   | ED     | 4    | 1    | 1   | 11  | 23S | 28E | 588167 | 3576806* | 3601     | 100        |             |              |
| <a href="#">C 00512 S</a>         |              | CUB   | ED     | 4    | 1    | 1   | 11  | 23S | 28E | 588167 | 3576806* | 3601     | 100        |             |              |
| <a href="#">C 00512</a>           |              | CUB   | ED     | 4    | 1    | 1   | 11  | 23S | 28E | 588188 | 3576775  | 3632     | 175        | 15          | 160          |
| <a href="#">C 00512 EXPL</a>      | O            | CUB   | ED     |      |      | 1   | 11  | 23S | 28E | 588272 | 3576703* | 3706     | 200        | 16          | 184          |
| <a href="#">C 04415 POD5</a>      |              | CUB   | ED     | 4    | 1    | 4   | 04  | 23S | 28E | 585652 | 3577605  | 3770     | 10         |             |              |
| <a href="#">C 04415 POD6</a>      |              | CUB   | ED     | 4    | 1    | 4   | 04  | 23S | 28E | 585652 | 3577605  | 3770     | 10         |             |              |
| <a href="#">C 04415 POD1</a>      |              | CUB   | ED     | 4    | 1    | 4   | 04  | 23S | 28E | 585657 | 3577591  | 3777     | 25         | 20          | 5            |
| <a href="#">C 04415 POD8</a>      |              | CUB   | ED     | 4    | 1    | 4   | 04  | 23S | 28E | 585656 | 3577583  | 3784     | 27         | 23          | 4            |
| <a href="#">C 04415 POD2</a>      |              | CUB   | ED     | 4    | 1    | 4   | 04  | 23S | 28E | 585653 | 3577570  | 3795     | 12         |             |              |
| <a href="#">C 04415 POD4</a>      |              | CUB   | ED     | 3    | 1    | 4   | 04  | 23S | 28E | 585628 | 3577575  | 3809     | 11         |             |              |
| <a href="#">C 04415 POD3</a>      |              | CUB   | ED     | 4    | 1    | 4   | 04  | 23S | 28E | 585645 | 3577552  | 3815     | 11         |             |              |
| <a href="#">C 04415 POD7</a>      |              | CUB   | ED     | 3    | 1    | 4   | 04  | 23S | 28E | 585628 | 3577518  | 3851     | 55         | 38          | 17           |
| <a href="#">C 04216 POD2</a>      |              | CUB   | ED     | 1    | 4    | 1   | 11  | 23S | 28E | 588465 | 3576555  | 3862     | 20         | 10          | 10           |
| <a href="#">C 04216 POD3</a>      |              | CUB   | ED     | 1    | 4    | 1   | 11  | 23S | 28E | 588501 | 3576556  | 3865     | 23         | 13          | 10           |
| <a href="#">C 04216 POD1</a>      |              | CUB   | ED     | 2    | 4    | 1   | 11  | 23S | 28E | 588488 | 3576534  | 3886     | 20         | 10          | 10           |
| <a href="#">C 00109</a>           |              | CUB   | ED     | 1    | 3    | 3   | 04  | 23S | 27E | 588486 | 3576531  | 3888     | 168        | 120         | 48           |
| <a href="#">C 04216 POD4</a>      |              | CUB   | ED     | 2    | 4    | 1   | 11  | 23S | 28E | 588499 | 3576513  | 3908     | 20         | 10          | 10           |

\*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.



Average Depth to Water: 32 feet  
Minimum Depth: 10 feet  
Maximum Depth: 120 feet

Record Count: 24

UTMNAD83 Radius Search (in meters):


Easting (X): 588174.67      Northing (Y): 3580407.86      Radius: 4000





# New Mexico Office of the State Engineer

## Point of Diversion Summary

|                                |              |  |     |                      |        |                                |     |                  |   |            |
|--------------------------------|--------------|--|-----|----------------------|--------|--------------------------------|-----|------------------|---|------------|
|                                |              | (quarters are 1=NW 2=NE 3=SW 4=SE)<br>(quarters are smallest to largest) |     |                      |        | (NAD83 UTM in meters)          |     |                  |   |            |
| Well Tag                       | POD Number   | Q64  | Q16 | Q4                   | Sec    | Tws                            | Rng | X                | Y   |            |
| NA                             | C 04688 POD1 | 1  | 3   | 1                    | 35     | 22S                            | 28E | 587989           | 3579827  |            |
| x                              |              |  |     |                      |        |                                |     |                  |   |            |
| Driller License:               |              | 1249   |     | Driller Company:     |        | ATKINS ENGINEERING ASSOC. INC. |     |                  |   |            |
| Driller Name:                  |              | JACKIE ATKINS  |     |                      |        |                                |     |                  |   |            |
| Drill Start Date:              |              | 12/27/2022   |     | Drill Finish Date:   |        | 12/27/2022                     |     | Plug Date:       |   | 01/10/2023 |
| Log File Date:                 |              | 01/17/2023   |     | PCW Rcv Date:        |        |                                |     | Source:          |   | Shallow    |
| Pump Type:                     |              |  |     | Pipe Discharge Size: |        |                                |     | Estimated Yield: |   |            |
| Casing Size:                   |              |  |     | Depth Well:          |        | 84 feet                        |     | Depth Water:     |   | 64 feet    |
| x                              |              |  |     |                      |        |                                |     |                  |   |            |
| Water Bearing Stratifications: |              |  |     | Top                  | Bottom | Description                    |     |                  |   |            |
|                                |              |  |     | 40                   | 55     | Sandstone/Gravel/Conglomerate  |     |                  |   |            |
|                                |              |  |     | 55                   | 70     | Sandstone/Gravel/Conglomerate  |     |                  |   |            |
|                                |              |  |     | 70                   | 84     | Sandstone/Gravel/Conglomerate  |     |                  |   |            |
| x                              |              |  |     |                      |        |                                |     |                  |   |            |
| Casing Perforations:           |              |  |     | Top                  | Bottom |                                |     |                  |   |            |
|                                |              |  |     | 0                    | 84     |                                |     |                  |   |            |
| x                              |              |  |     |                      |        |                                |     |                  |   |            |

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



# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

[www.ose.state.nm.us](http://www.ose.state.nm.us)

|   |   |                           |   |   |   |  |   |                          |
|---|---|---------------------------|---|---|---|--|---|--------------------------|
| 1. GENERAL AND WELL LOCATION  | OSE POD NO. (WELL NO.)<br>POD1  |                           | WELL TAG ID NO.<br>Well Tag ID Not Issued |   | OSE FILE NO(S)<br>C 04417                               |  |   |                          |
|   | WELL OWNER NAME(S)<br>WPX Energy  |                           |   |   | PHONE (OPTIONAL)  |  |   |                          |
|   | WELL OWNER MAILING ADDRESS<br>5315 Buena Vista Drive  |                           |   |   | CITY<br>Carlsbad  | STATE<br>NM  | ZIP<br>88220  |                          |
|   | WELL LOCATION<br>(FROM GPS)   | DEGREES<br>LATITUDE<br>32 | MINUTES<br>20                             | SECONDS<br>35.4 N   | * ACCURACY REQUIRED: ONE TENTH OF A SECOND              |  |   |                          |
|   |   | LONGITUDE<br>-104         | 02  | 47.1 W  | * DATUM REQUIRED: WGS 84                                |  |   |                          |
| DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE<br>M-36-22S-28E; Pinnacle State #25 |   |                           |   |   |   |  |   |                          |
| 2. DRILLING & CASING INFORMATION  | LICENSE NO.<br>1789   |                           | NAME OF LICENSED DRILLER<br>Mark Mumby    |   |   | NAME OF WELL DRILLING COMPANY<br>HRL Compliance Solutions                                    |   |                          |
|   | DRILLING STARTED<br>3/31/2020   |                           | DRILLING ENDED<br>3/31/2020               |   | DEPTH OF COMPLETED WELL (FT)<br>55                      | BORE HOLE DEPTH (FT)<br>55   | DEPTH WATER FIRST ENCOUNTERED (FT)<br>Water was not encountered |                          |
|   | COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)   |                           |   |   |   | STATIC WATER LEVEL IN COMPLETED WELL (FT)<br>Water was not present in the well after 48-hour |   |                          |
|   | DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:  |                           |   |   |   |  |   |                          |
|   | DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Hollow Stem Auger |                           |   |   |   |  |   |                          |
|   | DEPTH (feet bgl)  |                           | BORE HOLE<br>DIAM.<br>(inches)            | CASING MATERIAL AND/OR<br>GRADE<br>(include each casing string, and<br>note sections of screen) | CASING<br>CONNECTION<br>TYPE<br>(add coupling diameter) | CASING<br>INSIDE DIAM.<br>(inches)   | CASING WALL<br>THICKNESS<br>(inches)                            | SLOT<br>SIZE<br>(inches) |
|   | FROM  | TO                        |   |   |   |  |   |                          |
|   | 0   | 45                        | 6.25                                      | Blank PVC   | Flush Thread  | 2.0  | 0.154   | 0.010                    |
|   | 45  | 55                        | 6.25                                      | Factory Slotted PVC Screen  | Flush Thread  | 2.0  | 0.154   | 0.010                    |
|   |   |                           |   |   |   |  |   |                          |
|   |   |                           |   |   |   |  |   |                          |
|   |   |                           |   |   |   |  |   |                          |
|   |   |                           |   |   |   |  |   |                          |
| 3. ANNULAR MATERIAL   | DEPTH (feet bgl)  |                           | BORE HOLE<br>DIAM. (inches)               | LIST ANNULAR SEAL MATERIAL AND<br>GRAVEL PACK SIZE-RANGE BY INTERVAL                            | AMOUNT<br>(cubic feet)                                  | METHOD OF<br>PLACEMENT   |   |                          |
|   | FROM  | TO                        |   |   |   |  |   |                          |
|   |   |                           |   | No Annular Seal Material or Gravel Pack   | None  |  |   |                          |
|   |   |                           |   |   |   |  |   |                          |
|   |   |                           |   |   |   |  |   |                          |
|   |   |                           |   |   |   |  |   |                          |
|   |   |                           |   |   |   |  |   |                          |

FOR OSE INTERNAL USE

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

|          |                      |                 |    |             |        |
|----------|----------------------|-----------------|----|-------------|--------|
| FILE NO. | C-4417               | POD NO.         | 1  | TRN NO.     | 670394 |
| LOCATION | 334 T22S R28E Sec 36 | WELL TAG ID NO. | NA | PAGE 1 OF 2 |        |

#### 4. HYDROGEOLOGIC LOG OF WELL

## 5. TEST; RIG SUPERVISION

## 6. SIGNATURE

|                      |                        |  |             |
|----------------------|------------------------|--|-------------|
| FOR OSE INTERNAL USE |                        | WR-20 WELL RECORD & LOG (Version 04/30/2019) |             |
| FILE NO.             | C-4417                 | POD NO.                                      | 1           |
| LOCATION             | 334 T22.5 R2-8 E S. 36 | TRN NO.                                      | 670344      |
|                      |                        | WELL TAG ID NO.                              | NA          |
|                      |                        |  | PAGE 2 OF 2 |

John R. D Antonio, Jr., P.E.  
State Engineer



Roswell Office  
1900 WEST SECOND STREET  
ROSWELL, NM 88201

**STATE OF NEW MEXICO  
OFFICE OF THE STATE ENGINEER**

Trn Nbr: 670344  
File Nbr: C 04417  
Well File Nbr: C 04417 POD1

May. 29, 2020

LYNDA LAUMBACH  
WPX ENERGY  
5315 BUENA VISTA DRIVE  
CARLSBAD, NM 88220

Greetings:

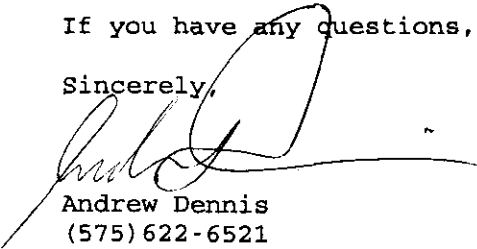
The above numbered permit was issued in your name on 03/26/2020.

The Well Record was received in this office on 05/26/2020, stating that it had been completed on 03/31/2020, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 03/26/2021.

If you have any questions, please feel free to contact us.

Sincerely,

  
Andrew Dennis  
(575) 622-6521

drywell



# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

[www.ose.state.nm.us](http://www.ose.state.nm.us)

|   |   |          |  |   |   |  |  |                          |
|---|---|----------|--|---|---|--|--|--------------------------|
| 1. GENERAL AND WELL LOCATION  | OSE POD NO. (WELL NO.)<br>C-4588-POD1 (SB-1)                    |          | WELL TAG ID NO.  |   | OSE FILE NO(S).<br>C-4588                               |  |  |                          |
|   | WELL OWNER NAME(S)<br>Novo Oil & Gas Northern Delware LLC       |          |  |   | PHONE (OPTIONAL)  |  |  |                          |
|   | WELL OWNER MAILING ADDRESS<br>1001 W. Wilshire Blvd., Suite 206 |          |  |   | CITY STATE ZIP<br>Oklahoma City OK 73116                |  |  |                          |
|   | WELL LOCATION<br>(FROM GPS)                                     | DEGREES  | MINUTES  | SECONDS   | N   | * ACCURACY REQUIRED: ONE TENTH OF A SECOND<br>* DATUM REQUIRED: WGS 84 |  |                          |
|   |   | LATITUDE | 32   | 20  |   |  |  | 31.47                    |
|   | LONGITUDE   | 104      | 5  | 8.404   | W   |  |  |                          |
| DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE<br>Culebra Bluff CTB3 |   |          |  |   |   |  |  |                          |
| 2. DRILLING & CASING INFORMATION  | LICENSE NO.<br>WD-1456  |          | NAME OF LICENSED DRILLER<br>John W. White  |   |   | NAME OF WELL DRILLING COMPANY<br>White Drilling Company, Inc.          |  |                          |
|   | DRILLING STARTED<br>1/25/2022                                   |          | DRILLING ENDED<br>1/25/2022  |   | DEPTH OF COMPLETED WELL (FT)                            |  | BORE HOLE DEPTH (FT)<br>50.0               |                          |
|   | COMPLETED WELL IS:  |          | <input type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input checked="" type="checkbox"/> SHALLOW (UNCONFINED)                             |   |   |  | DEPTH WATER FIRST ENCOUNTERED (FT)<br>46.5 |                          |
|   | DRILLING FLUID:   |          | <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD    ADDITIVES - SPECIFY:   |   |   |  |  |                          |
|   | DRILLING METHOD:  |          | <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY: |   |   |  |  |                          |
|   | DEPTH (feet bgl)  |          | BORE HOLE<br>DIAM.<br>(inches)   | CASING MATERIAL AND/OR<br>GRADE<br>(include each casing string, and<br>note sections of screen) | CASING<br>CONNECTION<br>TYPE<br>(add coupling diameter) | CASING<br>INSIDE DIAM.<br>(inches)                                     | CASING WALL<br>THICKNESS<br>(inches)       | SLOT<br>SIZE<br>(inches) |
|   | FROM  | TO       |  |   |   |  |  |                          |
|   |   |          |  |   |   |  |  |                          |
|   |   |          |  |   |   |  |  |                          |
|   |   |          |  |   |   |  |  |                          |
|   |   |          |  |   |   |  |  |                          |
|   |   |          |  |   |   |  |  |                          |
| 3. ANNULAR MATERIAL   | DEPTH (feet bgl)  |          | BORE HOLE<br>DIAM. (inches)  | LIST ANNULAR SEAL MATERIAL AND<br>GRAVEL PACK SIZE-RANGE BY INTERVAL                            | AMOUNT<br>(cubic feet)                                  | METHOD OF<br>PLACEMENT   |  |                          |
|   | FROM  | TO       |  |   |   |  |  |                          |
|   | 0.0   | 50.0     | 5.0  | Type 1 Cement-Bentonite Slurry  | 6.82  | Pump Mix w/Trimie Pipe   |  |                          |
|   |   |          |  |   |   |  |  |                          |
|   |   |          |  |   |   |  |  |                          |
|   |   |          |  |   |   |  |  |                          |

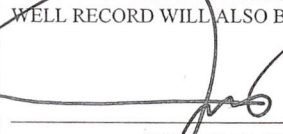
OSE DJT FEB 14 2022 AM 9:11

FOR OSE INTERNAL USE

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

|          |         |         |      |         |                             |
|----------|---------|---------|------|---------|-----------------------------|
| FILE NO. | C-4588  | POD NO. | POD1 | TRN NO. | 7116696                     |
| LOCATION | WENWEN2 | 4       | 235  | 28E     | WELL TAG ID NO. PAGE 1 OF 2 |



|  | DEPTH (feet bgl)  |           | THICKNESS<br>(feet)   | COLOR AND TYPE OF MATERIAL ENCOUNTERED -<br>INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES<br><b>(attach supplemental sheets to fully describe all units)</b> | WATER<br>BEARING?<br>(YES / NO)                          | ESTIMATED<br>YIELD FOR<br>WATER-<br>BEARING<br>ZONES (gpm) |
|--|---|-----------|---|---|--|--|
|  | FROM  | TO        |   |   |  |  |
| <b>4. HYDROGEOLOGIC LOG OF WELL</b>  | 0.0   | 3.0       | 3.0   | Brown sandy silt w/caliche.   | Y    ✓ N   |  |
|  | 3.0   | 18.0      | 15.0  | Limestone gravel.   | Y    ✓ N   |  |
|  | 18.0  | 20.0      | 2.0   | Red/brown sandy clay.   | Y    ✓ N   |  |
|  | 20.0  | 25.0      | 5.0   | Red/brown sandstone w/red brn silty sandy clay mixed  | Y    ✓ N   |  |
|  | 25.0  | 45.0      | 20.0  | Red/brown sandy clay/clayey sand  | Y    ✓ N   |  |
|  | 45.0  | 46.0      | 1.0   | Brown sand.   | Y    ✓ N   |  |
|  | 46.0  | 47.0      | 1.0   | Brown sandy clay.   | ✓ Y    N   |  |
|  | 47.0  | 50.0      | 3.0   | Brown sand.   | ✓ Y    N   |  |
|  |   |           |   |   | Y    N   |  |
|  |   |           |   |   | Y    N   |  |
|  |   |           |   |   | Y    N   |  |
|  |   |           |   |   | Y    N   |  |
|  |   |           |   |   | Y    N   |  |
|  |   |           |   |   | Y    N   |  |
|  |   |           |   |   | Y    N   |  |
|  |   |           |   |   | Y    N   |  |
|  |   |           |   |   | Y    N   |  |
|  |   |           |   |   | Y    N   |  |
|  | METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:<br><input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input checked="" type="checkbox"/> OTHER – SPECIFY:  |           |   |   | TOTAL ESTIMATED<br>WELL YIELD (gpm):                0.00 |  |
|  | <b>5. TEST; RIG SUPERVISION</b>   | WELL TEST | TEST RESULTS – ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD. |   |  |  |
| MISCELLANEOUS INFORMATION:   |   |           |   |   |  |  |
| PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:<br>William B. Atkins |   |           |   |   |  |  |
| <b>6. SIGNATURE</b>  | BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.<br><br> |           |   |   |  |  |
| SIGNATURE OF DRILLER / PRINT SIGNEE NAME<br>John W. White  |   |           |   |   | DATE<br>02/08/2022                                       |  |

|                      |                  |  |             |
|----------------------|------------------|--|-------------|
| FOR OSE INTERNAL USE |                  | WR-20 WELL RECORD & LOG (Version 04/30/2019) |             |
| FILE NO.             | C4588            | POD NO.                                      | POD1        |
| LOCATION             | NININZ 4 235 78E | TRN NO.                                      | 746690      |
|                      |                  | WELL TAG ID NO                               | PAGE 2 OF 2 |

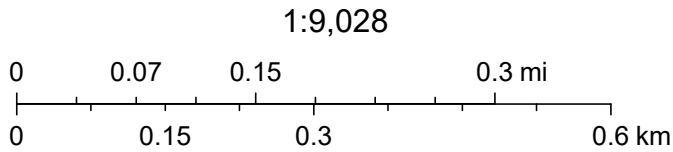


TROJAN HORSE 35 FED COM CTB TB (02.24.2024)



3/8/2024, 9:24:25 AM

— OSE Streams



Esri, HERE, Garmin, IPC, Maxar, NM OSE



## FEMA National Flood Hazard Layer (NFHL)





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

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

QUESTIONS

Action 324982

QUESTIONS

|  |                |   |
|--|----------------|---|
| Operator:<br>MARATHON OIL PERMIAN LLC<br>990 Town & Country Blvd.<br>Houston, TX 77024 | OGRID:         | 372098  |
|  | Action Number: | 324982  |
|  | Action Type:   | [C-141] Remediation Closure Request C-141 (C-141-v-Closure) |
|  |                |   |

QUESTIONS

|                   |   |
|-------------------|---|
| Prerequisites     |   |
| Incident ID (n#)  | nAPP2405570668                                    |
| Incident Name     | NAPP2405570668 TROJAN HORSE 35 FED COM CTB TB @ 0 |
| Incident Type     | Produced Water Release                            |
| Incident Status   | Remediation Closure Report Received               |
| Incident Facility | [fAPP2327850534] TROJAN HORSE 35 FED COM CTB TB   |

|  |                                |
|--|--------------------------------|
| Location of Release Source                     |                                |
| Please answer all the questions in this group. |                                |
| Site Name                                      | TROJAN HORSE 35 FED COM CTB TB |
| Date Release Discovered                        | 02/24/2024                     |
| Surface Owner                                  | Federal                        |

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

|  |  |
|--|--|
| Nature and Volume of Release   |  |
| Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission. |  |
| Crude Oil Released (bbls) Details  | Not answered.  |
| Produced Water Released (bbls) Details   | Cause: Equipment Failure   Pump   Produced Water   Released: 170 BBL   Recovered: 0 BBL   Lost: 170 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)                                 | All volume was recovered via vac truck. This release was all contained inside lined secondary containment. |

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QUESTIONS, Page 2

Action 324982

**QUESTIONS (continued)**

|  |                |   |
|--|----------------|---|
| Operator:<br>MARATHON OIL PERMIAN LLC<br>990 Town & Country Blvd.<br>Houston, TX 77024 | OGRID:         | 372098  |
|  | Action Number: | 324982  |
|  | Action Type:   | [C-141] Remediation Closure Request C-141 (C-141-v-Closure) |
|  |                |   |

**QUESTIONS**

|   |  |
|---|--|
| <b>Nature and Volume of Release (continued)</b>   |  |
| 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:<br>(1) an unauthorized release of a volume, excluding gases, of 25 barrels or more. |
| With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form. |  |

**Initial Response**

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

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

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

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

|  |  |
|--|--|
| I hereby agree and sign off to the above statement | Name: Isaac Castro<br>Email: icastro@marathonoil.com<br>Date: 03/22/2024 |
|--|--|

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QUESTIONS, Page 3

Action 324982

**QUESTIONS (continued)**

|  |   |
|--|---|
| Operator:<br>MARATHON OIL PERMIAN LLC<br>990 Town & Country Blvd.<br>Houston, TX 77024 | OGRID:<br>372098  |
|  | Action Number:<br>324982  |
|  | Action Type:<br>[C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

**QUESTIONS****Site Characterization**

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

|  |                                |
|--|--------------------------------|
| What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs) | Between 51 and 75 (ft.)        |
| What method was used to determine the depth to ground water  | NM OSE iWaters Database Search |
| Did this release impact groundwater or surface water   | No                             |
| <b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>   |                                |
| A continuously flowing watercourse or any other significant watercourse  | Between 500 and 1000 (ft.)     |
| Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)  | Greater than 5 (mi.)           |
| An occupied permanent residence, school, hospital, institution, or church  | Greater than 5 (mi.)           |
| A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes  | Greater than 5 (mi.)           |
| Any other fresh water well or spring   | Greater than 5 (mi.)           |
| Incorporated municipal boundaries or a defined municipal fresh water well field  | Greater than 5 (mi.)           |
| A wetland  | Greater than 5 (mi.)           |
| A subsurface mine  | Greater than 5 (mi.)           |
| An (non-karst) unstable area   | Greater than 5 (mi.)           |
| Categorize the risk of this well / site being in a karst geology   | Medium                         |
| A 100-year floodplain  | Greater than 5 (mi.)           |
| Did the release impact areas not on an exploration, development, production, or storage site                               | No                             |

**Remediation Plan**

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

|  |            |
|--|------------|
| Requesting a remediation plan approval with this submission  | Yes        |
| Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.  |            |
| Have the lateral and vertical extents of contamination been fully delineated   | Yes        |
| Was this release entirely contained within a lined containment area  | Yes        |
| Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.  |            |
| On what estimated date will the remediation commence   | 03/14/2024 |
| On what date will (or did) the final sampling or liner inspection occur  | 03/14/2024 |
| On what date will (or was) the remediation complete(d)   | 03/14/2024 |
| What is the estimated surface area (in square feet) that will be remediated  | 22940      |
| What is the estimated volume (in cubic yards) that will be remediated  | 8.9        |
| These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.  |            |
| The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required. |            |

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QUESTIONS, Page 4

Action 324982

**QUESTIONS (continued)**

|  |                |   |
|--|----------------|---|
| Operator:<br>MARATHON OIL PERMIAN LLC<br>990 Town & Country Blvd.<br>Houston, TX 77024 | OGRID:         | 372098  |
|  | Action Number: | 324982  |
|  | Action Type:   | [C-141] Remediation Closure Request C-141 (C-141-v-Closure) |
|  |                |   |

**QUESTIONS****Remediation Plan (continued)**

*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.*

**This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:**

*(Select all answers below that apply.)*

|  |               |
|--|---------------|
| Is (or was) there affected material present needing to be removed              | Yes           |
| Is (or was) there a power wash of the lined containment area (to be) performed | Yes           |
| OTHER (Non-listed remedial process)  | Not answered. |

*Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.*

I 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: Isaac Castro<br>Email: <a href="mailto:icastro@marathonoil.com">icastro@marathonoil.com</a><br>Date: 03/22/2024 |
|--|---|

*The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.*

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QUESTIONS, Page 6

Action 324982

**QUESTIONS (continued)**

|  |                |   |
|--|----------------|---|
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|  | Action Number: | 324982  |
|  | Action Type:   | [C-141] Remediation Closure Request C-141 (C-141-v-Closure) |
|  |                |   |

**QUESTIONS**

|   |                   |
|---|-------------------|
| <b>Liner Inspection Information</b>   |                   |
| Last liner inspection notification (C-141L) recorded  | <b>322164</b>     |
| Liner inspection date pursuant to Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC | <b>03/14/2024</b> |
| Was all the impacted materials removed from the liner   | <b>Yes</b>        |
| What was the liner inspection surface area in square feet   | <b>22940</b>      |

**Remediation Closure Request**

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

|   |   |
|---|---|
| Requesting a remediation closure approval with this submission                  | <b>Yes</b>  |
| Have the lateral and vertical extents of contamination been fully delineated    | <b>Yes</b>  |
| Was this release entirely contained within a lined containment area             | <b>Yes</b>  |
| What was the total surface area (in square feet) remediated                     | <b>22940</b>  |
| What was the total volume (cubic yards) remediated                              | <b>8.9</b>  |
| Summarize any additional remediation activities not included by answers (above) | Spill was contained inside lined containment. Lined containment was pressure washed and fluids picked up via vac truck. Afterward a liner inspection was performed to ensure liner integrity. |

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

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

|  |  |
|--|--|
| I hereby agree and sign off to the above statement | Name: Isaac Castro<br>Email: icastro@marathonoil.com<br>Date: 03/22/2024 |
|--|--|

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CONDITIONS  
  
Action 324982

CONDITIONS

|  |   |
|--|---|
| Operator:<br>MARATHON OIL PERMIAN LLC<br>990 Town & Country Blvd.<br>Houston, TX 77024 | OGRID:<br>372098  |
|  | Action Number:<br>324982  |
|  | Action Type:<br>[C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

CONDITIONS

| Created By | Condition   | Condition Date |
|------------|---|----------------|
| rhamlet    | We have received your Remediation Closure Report for Incident #NAPP2405570668 TROJAN HORSE 35 FED COM CTB TB, thank you. This Remediation Closure Report is approved. | 5/3/2024       |