



## SITE INFORMATION

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**Closure Report**  
**Mammoth Fed Com TB**  
**Incident ID: NAPP2328444194**  
**Unit N Sec 01 T26S R34E**  
**32.0663936°, -103.4273093°**  
**Lea County, New Mexico**

**Produced Water Release**  
**Point of Release: Water Tank Failure**  
**Release Date: 10.10.23**  
**Volume Released: 310 Barrels of Produced Water**  
**Volume Recovered: 310 Barrels of Produced Water**

**CARMONA RESOURCES**



**Prepared for:**  
**Marathon Oil Company**  
**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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October 27, 2023

New Mexico Oil Conservation Division  
1220 South St, Francis Drive  
Santa Fe, NM 87505

**Re: Closure Report**  
**Mammoth Fed Com TB**  
**Marathon Oil Company**  
**Incident ID: NAPP2328444194**  
**Site Location: Unit N, S01, T26S, R34E**  
**(Lat 32.0663936°, Long -103.4273093°)**  
**Lea County, New Mexico**

To whom it may concern:

On behalf of Marathon Oil Company, Carmona Resources, LLC has prepared this letter to document site activities for the Mammoth Fed Com TB. The site is located at 32.0663936°, -103.4273093° within Unit N, S01, T26S, R34E, in Lea 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 October 10, 2023, due to a failure on the bottom of a water tank. The incident resulted in the release of approximately three hundred and ten (310) barrels of produced water, with three hundred and ten (310) barrels of produced water recovered. 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 low 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 2.05 miles east of the site in S05, T26S, R35E and was drilled in 2022. The well has a reported groundwater depth of 101 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 October 24, 2023, Carmona Resources, LLC conducted liner inspection activities to assess the liner's integrity within the facility. Before performing the liner inspection, the NMOCD division office was notified via email on October 20, 2023, per Subsection D of 19.15.29.12 NMAC. See Appendix B. Carmona Resources, LLC personnel inspected the liner visually, and found the liner 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 COG formally requests the closure of the spill. If you have any questions regarding this report or need additional information, please get in touch with us at 432-813-1992.

Sincerely,

**Carmona Resources, LLC**

Mike Carmona  
Environmental Manager

Devin Dominguez  
Sr. Project Manager



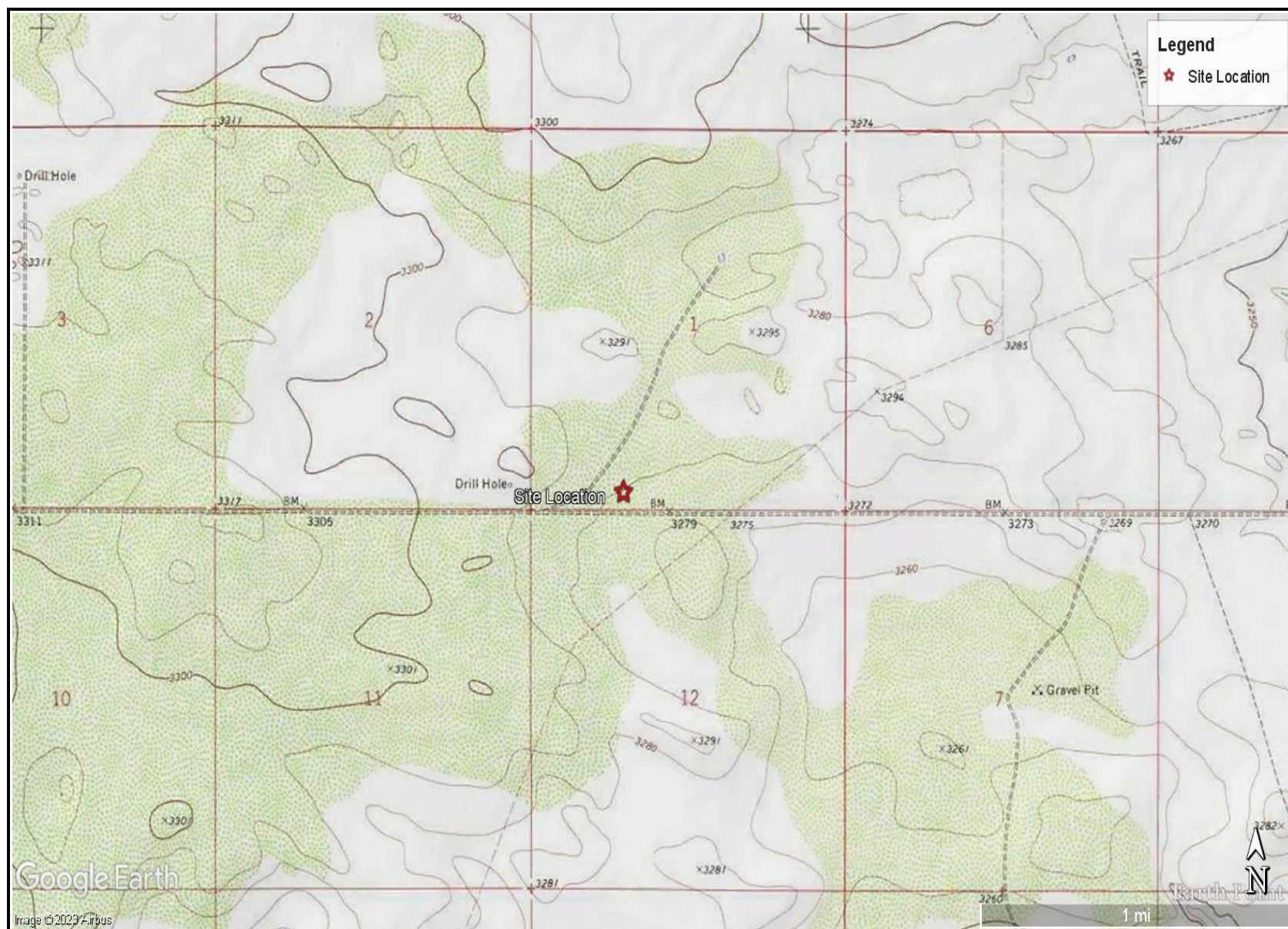
## FIGURES

CARMONA RESOURCES







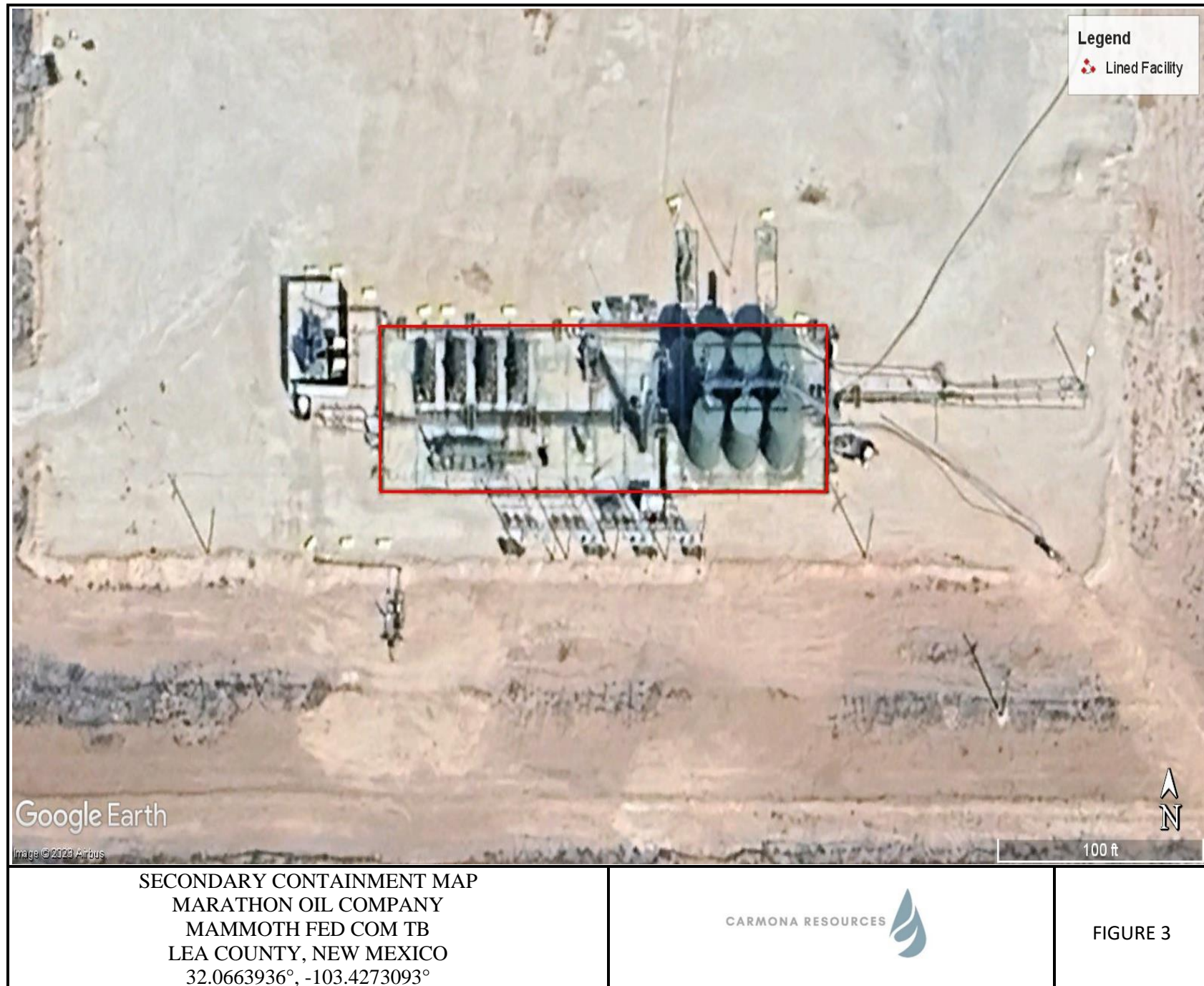


TOPOGRAPHIC MAP  
MARATHON OIL COMPANY  
MAMMOTH FED COM TB  
LEA COUNTY, NEW MEXICO  
32.0663936°, -103.4273093°



FIGURE 2





## APPENDIX A

CARMONA RESOURCES



# PHOTOGRAPHIC LOG

## Marathon Oil Company

### Photograph No. 1

**Facility:** Mammoth Fed Com TB

**County:** Lea County, New Mexico

**Description:**

View Northwest, area of tank batteries.



### Photograph No. 2

**Facility:** Mammoth Fed Com TB

**County:** Lea County, New Mexico

**Description:**

View East, area of separators.



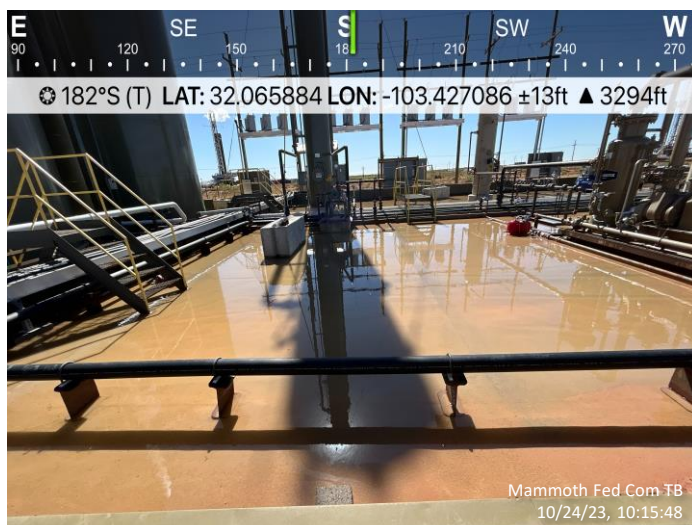
### Photograph No. 3

**Facility:** Mammoth Fed Com TB

**County:** Lea County, New Mexico

**Description:**

View South, area of lined facility.





## PHOTOGRAPHIC LOG

## Marathon Oil Company

## Photograph No. 4

Facility: Mammoth Fed Com TB

County: Lea County, New Mexico

## Description:

View South, area between separators.



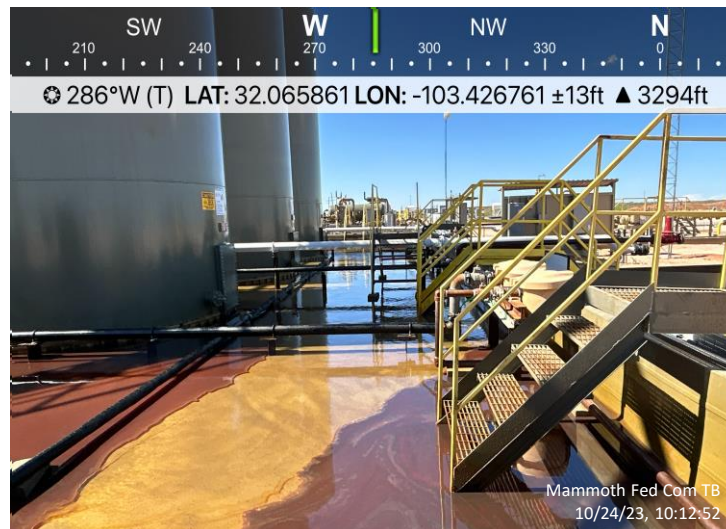
## Photograph No. 5

Facility: Mammoth Fed Com TB

County: Lea County, New Mexico

## Description:

View West, area of tank batteries.



## Photograph No. 6

Facility: Mammoth Fed Com TB

County: Lea County, New Mexico

## Description:

View Northwest, area of separators.



## 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    | nAPP2328444194 |
| District RP    |                |
| Facility ID    | fAPP2228624278 |
| Application ID |                |

Release Notification

Responsible Party

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

Location of Release Source

Latitude 32.0663936 Longitude -103.4273093  
(NAD 83 in decimal degrees to 5 decimal places)

|                                     |                              |
|-------------------------------------|------------------------------|
| Site Name MAMMOTH FED COM TB        | Site Type Oil & Gas Facility |
| Date Release Discovered: 10/10/2023 | API# (if applicable)         |

| Unit Letter | Section | Township | Range | County |
|-------------|---------|----------|-------|--------|
| N           | 01      | 26S      | 34E   | Lea    |

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) 310   | Volume Recovered (bbls) 310   |
|  | 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 failure on the bottom of a water tank resulted in the release of produced water within the lined, secondary containment. When enough standing fluid was able to be recovered, the source was found and the tank was pulled down. A notice will be sent out prior to a liner integrity inspection.

|                |                |
|----------------|----------------|
| Incident ID    | nAPP2328444194 |
| District RP    |                |
| Facility ID    | fAPP2228624278 |
| Application ID |                |

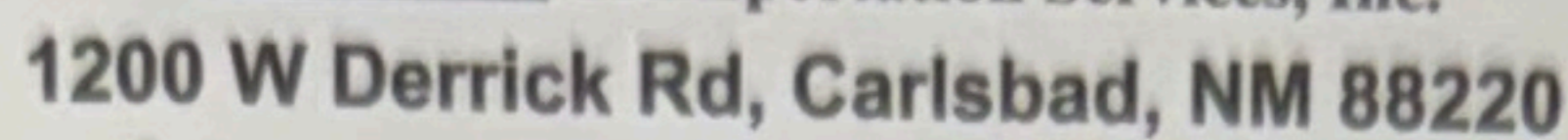
|  |  |
|--|--|
| Was this a major release as defined by 19.15.29.7(A) NMAC?<br><br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  | If YES, for what reason(s) does the responsible party consider this a major release?<br><br>Volume |
| If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?<br>Yes – NOR and email to BLM send 10/11/23 by Melodie Sanjari. |  |

## 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.<br><input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment.<br><input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.<br><input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.   |  |
| If all the actions described above have <u>not</u> been undertaken, explain why:   |  |
| Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.  |  |
| I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. |  |
| Printed Name: <u>Melodie Sanjari</u>   | Title: <u>Environmental Professional</u> |
| Signature: <u>Melodie Sanjari</u>  | Date: <u>10/18/23</u>                    |
| email: <u>msanjari@marathonoil.com</u>   | Telephone: <u>575-988-8753</u>           |
| <b><u>OCD Only</u></b>   |  |
| Received by: <u>Shelly Wells</u>   | Date: <u>10/18/2023</u>                  |





BILLO

Method 0.1

|                  |       |            |       |
|------------------|-------|------------|-------|
| TICKET<br>NUMBER | 11358 | DATE       | 10/11 |
| API<br>NUMBER    |       | ORDERED BY |       |

| DELIVERED FROM: Mammoth |                         | TO: NGL Sidewinder   |   |        |
|-------------------------|-------------------------|--|---|--------|
| LOCATION LEASE: Mammoth |                         | <input type="radio"/> RIG <input type="radio"/> BATTERY <input type="radio"/> COMPLETION <input type="radio"/> FLOW BACK |   |        |
| TRUCK OR UNIT NO.: 3948 | AMOUNT HAULED: 125 bbls | START TIME: 8:00 <input checked="" type="radio"/> A.M. <input type="radio"/> P.M.  | END TIME: <input type="radio"/> A.M. <input type="radio"/> P.M. |        |
| DESCRIPTION             |                         | <input type="radio"/> HR. <input type="radio"/> BBL.   | RATE  | AMOUNT |
| Hauling 125 bbls of PW  |                         |  | Hrs.  |        |
|                         |                         |  | F/W   |        |
|                         |                         |  | B/W   |        |
|                         |                         |  | P/W   |        |
|                         |                         |  | CRI   |        |
|                         |                         |  |   |        |

# JOB SAFETY ANALYSIS

|           |  |
|-----------|--|
| SUB TOTAL |  |
| TAX       |  |
| TOTAL     |  |

# JOB SAFETY ANALYSIS

## HAZARDS AND CONTROLS *(Check Those That Apply:)*

- ☒ **Falling Hazards:** Head Protection (Hard Hat) Feet (Steel Toe Boots).
- ☒ **Airborne Particulates:** Safety Glasses.
- ☒ **Hand Protection:** Work Gloves.
- ☒ **H2S / Gases LEL:** H2S Monitor
- ☒ **Fire Hazard:** Clothing (FR), Fire Extinguisher on Truck/Trailer and Location.
- ☒ **Hearing Protection:** Ear Plugs (if Posted on Location or Noisy Area).
- ☒ **Slip or Trip Hazards:** Maintain a clean work area before and during work activity. (Steel Toe Boots).
- ☒ **Poor illumination:** Ensure lighting on trailer is operable and sufficient to work safety.
- ☒ **Working Outside:** Potential hazards include animals, snakes, insects and severe weather.
- ☒ **Thermal Stress:** (Heat or Cold Stress) modify work hours, stay hydrated. Cold days - sufficient clothing.

[illegible]

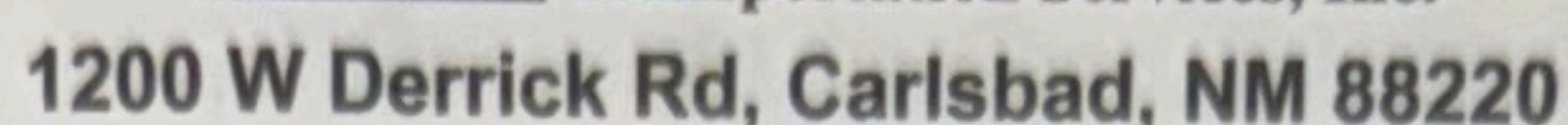
DRIVER PRINT NAME

COMPANY MAN PRINT NAME

DRIVER SIGNATURE

COMPANY MAN SIGNATURE



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Marathon Dr. 1

|                  |       |            |       |
|------------------|-------|------------|-------|
| TICKET<br>NUMBER | 1136A | DATE       | 10/11 |
| API<br>NUMBER    |       | ORDERED BY |       |

|                                      |                               |  |  |
|--------------------------------------|-------------------------------|--|--|
| DELIVERED FROM: <i>Mammoth</i>       |                               | TO: <i>NGL Sidewinder</i>  |  |
| LOCATION LEASE                       |                               | <input type="radio"/> RIG <input type="radio"/> BATTERY <input type="radio"/> COMPLETION <input type="radio"/> FLOW BACK |  |
| TRUCK OR UNIT NO.: <i>3948</i>       | AMOUNT HAULED: <i>12566's</i> | START TIME: <i>12:30</i> <input checked="" type="radio"/> A.M. <input type="radio"/> P.M.                                | END TIME: <i>3:45</i> <input type="radio"/> A.M. <input checked="" type="radio"/> P.M. |
| DESCRIPTION: <i>Hedge 12563/5 PA</i> |                               | <input type="radio"/> HR. <input type="radio"/> BBL.            RATE            AMOUNT                                   |  |
|                                      |                               | Hrs.   |  |
|                                      |                               | F/W  |  |
|                                      |                               | B/W  |  |
|                                      |                               | P/W  |  |
|                                      |                               | CRI  |  |

|           |  |  |
|-----------|--|--|
| SUB TOTAL |  |  |
| TAX       |  |  |
| TOTAL     |  |  |

- ☒ **Falling Hazards:** Head Protection (Hard Hat) Feet (Steel Toe Boots).
- ☒ **Airborne Particulates:** Safety Glasses.
- ☒ **Hand Protection:** Work Gloves.
- ☒ **H2S / Gases LEL:** H2S Monitor
- ☒ **Fire Hazard:** Clothing (FR), Fire Extinguisher on Truck/Trailer and Location.
- ☒ **Hearing Protection:** Ear Plugs (if Posted on Location or Noisy Area).
- ☒ **Slip or Trip Hazards:** Maintain a clean work area before and during work activity. (Steel Toe Boots).
- ☒ **Poor illumination:** Ensure lighting on trailer is operable and sufficient to work safety.
- ☒ **Working Outside:** Potential hazards include animals, snakes, insects and severe weather.
- ☒ **Thermal Stress:** (Heat or Cold Stress) modify work hours, stay hydrated. Cold days - sufficient clothing.

[illegible]

DRIVER PRINT NAME

COMPANY MAN PRINT NAME

DRIVER SIGNATURE

COMPANY MAN SIGNATURE





**1200 W Derrick Rd, Carlsbad, NM 88220**

521575

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Marathon D. 1

8220  
Sidewinder

|                  |       |            |         |
|------------------|-------|------------|---------|
| TICKET<br>NUMBER | 11379 | DATE       | 10/1/13 |
| API<br>NUMBER    |       | ORDERED BY |         |

| DELIVERED FROM: Mammoth |                        | TO: NGC SideWinder  |                            |           |        |
|-------------------------|------------------------|---|----------------------------|-----------|--------|
| LOCATION LEASE          |                        | <input type="radio"/> RIG <input checked="" type="radio"/> BATTERY <input type="radio"/> COMPLETION <input type="radio"/> FLOW BACK |                            |           |        |
| TRUCK OR UNIT NO.: 394B | AMOUNT HAULED: 60 bbls | START TIME: 4:00 PM   | END TIME:                  |           |        |
| DESCRIPTION             |                        | <input type="radio"/> HR.   | <input type="radio"/> BBL. | RATE      | AMOUNT |
| Hwy 125 bbls PW         |                        |   |                            |           |        |
|                         |                        | Hrs.  |                            |           |        |
|                         |                        | F/W   |                            |           |        |
|                         |                        | B/W   |                            |           |        |
|                         |                        | P/W   |                            |           |        |
|                         |                        | CRI   |                            |           |        |
|                         |                        |   |                            |           |        |
|                         |                        |   |                            | SUB TOTAL |        |
|                         |                        |   |                            | TAX       |        |
|                         |                        |   |                            | TOTAL     |        |

# JOB SAFETY ANALYSIS

## HAZARDS AND CONTROLS *(Check Those That Apply:)*

- ☒ **Falling Hazards:** Head Protection (Hard Hat) Feet (Steel Toe Boots).
- ☒ **Airborne Particulates:** Safety Glasses.
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- ☒ **Thermal Stress:** (Heat or Cold Stress) modify work hours, stay hydrated. Cold days - sufficient clothing.

[illegible]

DRIVER PRINT NAME

COMPANY MAN PRINT NAME

DRIVER SIGNATURE

COMPANY MAN SIGNATURE



**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 276862

CONDITIONS

|  |   |
|--|---|
| Operator:<br>MARATHON OIL PERMIAN LLC<br>990 Town & Country Blvd.<br>Houston, TX 77024 | OGRID:<br>372098  |
|  | Action Number:<br>276862                                  |
|  | Action Type:<br>[C-141] Release Corrective Action (C-141) |

CONDITIONS

| Created By | Condition | Condition Date |
|------------|-----------|----------------|
| scwells    | None      | 10/18/2023     |

|                |  |
|----------------|--|
| Incident ID    |  |
| District RP    |  |
| Facility ID    |  |
| Application ID |  |

## Site Assessment/Characterization

*This information must be provided to the appropriate district office no later than 90 days after the release discovery date.*

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

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

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

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

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

State of New Mexico  
Oil Conservation Division

Page 4

|                |  |
|----------------|--|
| Incident ID    |  |
| District RP    |  |
| Facility ID    |  |
| Application ID |  |

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

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

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

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

**OCD Only**

Received by: \_\_\_\_\_ 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: Scott Rodgers Date: 01/03/2023 \_\_\_\_\_

Printed Name: Scott Rodgers \_\_\_\_\_ Title: Environmental Specialist Adv. \_\_\_\_\_

---

**From:** Rodgers, Scott, EMNRD  
**Sent:** Friday, October 20, 2023 11:08 AM  
**To:** Clint Merritt; Velez, Nelson, EMNRD; Wells, Shelly, EMNRD; Bratcher, Michael, EMNRD  
**Cc:** Mike Carmona; Melodie Sanjari; Conner Moehring; Devin Dominguez  
**Subject:** RE: [EXTERNAL] Mammoth Fed Com CTB 48 Liner Inspection Notification

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.

**Scott Rodgers** • Environmental Specialist  
Environmental Bureau  
EMNRD - Oil Conservation Division  
8801 Horizon Blvd. NE, Suite 260 | Albuquerque, NM 87113  
505.469.1830 | [scott.rodgers@emnrd.nm.gov](mailto:scott.rodgers@emnrd.nm.gov)  
<http://www.emnrd.nm.gov/oed>



---

**From:** Clint Merritt <[MerrittC@carmonaresources.com](mailto:MerrittC@carmonaresources.com)>  
**Sent:** Friday, October 20, 2023 9:46 AM  
**To:** Enviro, OCD, EMNRD <[OCD.Enviro@emnrd.nm.gov](mailto:OCD.Enviro@emnrd.nm.gov)>  
**Cc:** Mike Carmona <[Mcarmona@carmonaresources.com](mailto:Mcarmona@carmonaresources.com)>; Melodie Sanjari <[msanjari@marathonoil.com](mailto:msanjari@marathonoil.com)>; Conner Moehring <[Cmoehring@carmonaresources.com](mailto:Cmoehring@carmonaresources.com)>; Devin Dominguez <[Ddominguez@carmonaresources.com](mailto:Ddominguez@carmonaresources.com)>  
**Subject:** [EXTERNAL] Mammoth Fed Com CTB 48 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 10/24/23 around 10:00 AM. Mountain Time. Please let me know if you have any questions.

**Mammoth Fed Com CTB**  
**Incident ID: NAPP2328444194**  
**Lea County, New Mexico**

Clinton Merritt  
310 West Wall Street, Suite 500  
Midland TX, 79701

M: 432-813-9044

[MerrittC@carmonaresources.com](mailto:MerrittC@carmonaresources.com)

CARMONA RESOURCES



## APPENDIX C

CARMONA RESOURCES



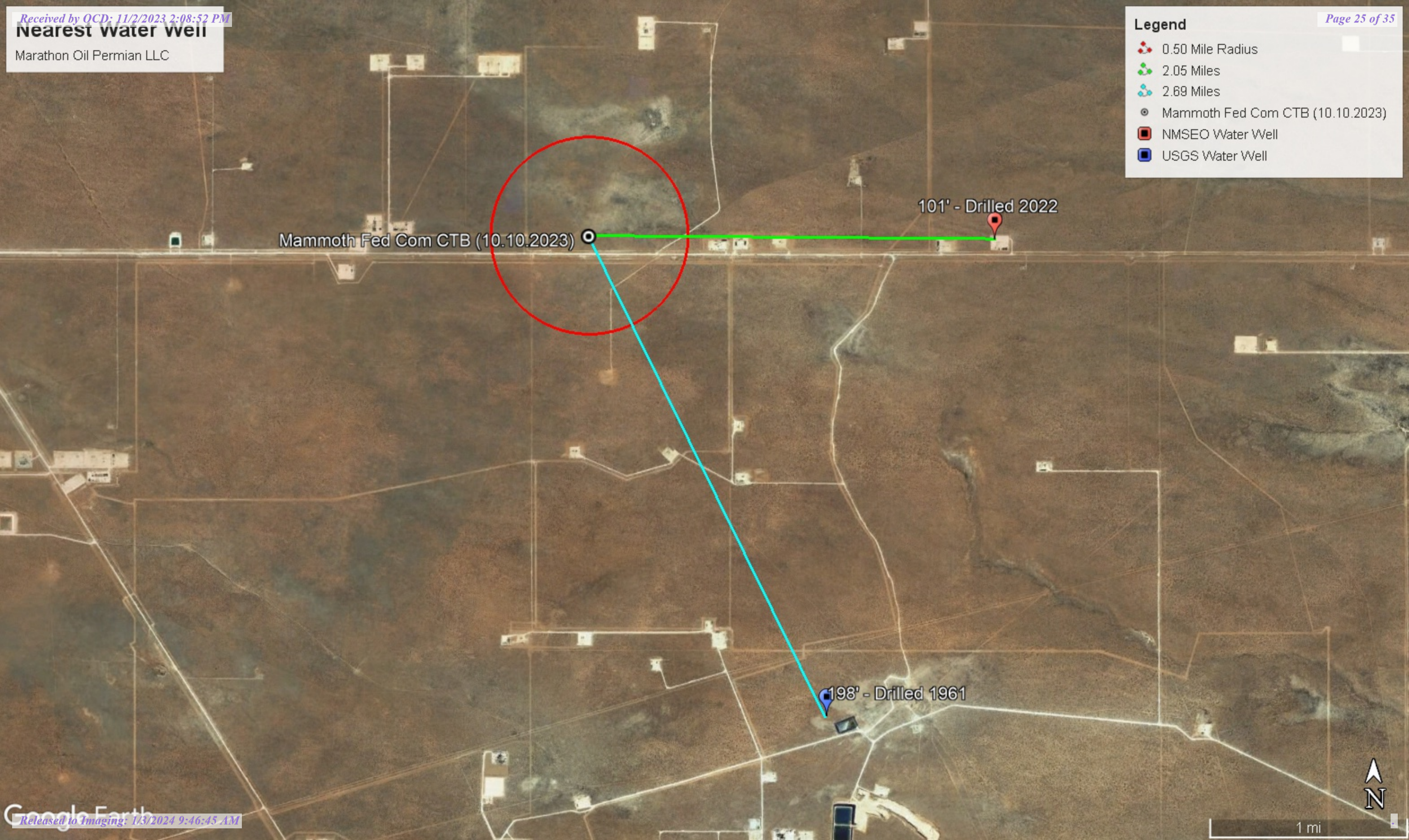


Nearest water well

Marathon Oil Permian LLC

**Legend**

- 0.50 Mile Radius
- 2.05 Miles
- 2.69 Miles
- Mammoth Fed Com CTB (10.10.2023)
- NMSEO Water Well
- USGS Water Well






**Low Karst**  
Marathon Oil Permian LLC

**Legend**

-  Low
-  Mammoth Fed Com CTB (10.10.2023)
-  Medium



Mammoth Fed Com CTB (10.10.2023) 



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

| POD Number                   | POD Sub-Code | basin | County | Q 64 | Q 16 | Q 4 | Sec | Tws | Rng | X      | Y       | Distance | Depth Well | Depth Water | Water Column |
|------------------------------|--------------|-------|--------|------|------|-----|-----|-----|-----|--------|---------|----------|------------|-------------|--------------|
| <a href="#">C 04601 POD1</a> | CUB          | LE    |        | 3    | 4    | 3   | 05  | 26S | 35E | 651710 | 3548919 | 3260     |            |             |              |

Average Depth to Water: --

Minimum Depth: --

Maximum Depth: --

Record Count: 1

### UTM NAD83 Radius Search (in meters):

**Easting (X):** 648450

**Northing (Y):** 3548876

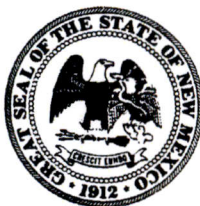
**Radius:** 4000

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.

10/18/23 10:16 AM

Page 1 of 1

WATER COLUMN/ AVERAGE  
DEPTH TO WATER



# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

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

OSE 011 APR 8 2022 PM 3:16

|   |   |               |  |  |  |  |   |                    |
|---|---|---------------|--|--|--|--|---|--------------------|
| 1. GENERAL AND WELL LOCATION  | OSE POD NO. (WELL NO.)<br>POD1 (TW-1)   |               | WELL TAG ID NO.                              |  | OSE FILE NO(S).<br>C-4601                      |  |   |                    |
|   | WELL OWNER NAME(S)<br>Marathon Oil  |               |  |  | PHONE (OPTIONAL)                               |  |   |                    |
|   | WELL OWNER MAILING ADDRESS<br>4111 S Tidwell Rd.  |               |  |  | CITY<br>Carlsbad                               | STATE<br>NM  | ZIP<br>88220  |                    |
|   | WELL LOCATION (FROM GPS)  | DEGREES<br>32 | MINUTES<br>3                                 | SECONDS<br>58  | * ACCURACY REQUIRED: ONE TENTH OF A SECOND     |  |   |                    |
|   |   | LATITUDE      | 103  | 23   | 33   | * DATUM REQUIRED: WGS 84   |   |                    |
| DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE<br>SE SE Sw Sec. 05 T26S R35E |   |               |  |  |  |  |   |                    |
| 2. DRILLING & CASING INFORMATION  | LICENSE NO.<br>1249   |               | NAME OF LICENSED DRILLER<br>Jackie D. Atkins |  |  | NAME OF WELL DRILLING COMPANY<br>Atkins Engineering Associates, Inc. |   |                    |
|   | DRILLING STARTED<br>3/31/2022   |               | DRILLING ENDED<br>3/31/2022                  |  | DEPTH OF COMPLETED WELL (FT)<br>temporary well | BORE HOLE DEPTH (FT)<br>±100.8                                       | DEPTH WATER FIRST ENCOUNTERED (FT)<br>n/a                           |                    |
|   | COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)   |               |  |  |  | STATIC WATER LEVEL IN COMPLETED WELL (FT)<br>n/a                     | DATE STATIC MEASURED<br>4/6/2022                                    |                    |
|   | DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:  |               |  |  |  |  |   |                    |
|   | DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Hollow Stem Auger |               |  |  |  |  | CHECK HERE IF PITLESS ADAPTER IS INSTALLED <input type="checkbox"/> |                    |
|   | DEPTH (feet bgl)  |               | BORE HOLE DIAM (inches)                      | CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen) | CASING CONNECTION TYPE (add coupling diameter) | CASING INSIDE DIAM. (inches)   | CASING WALL THICKNESS (inches)                                      | SLOT SIZE (inches) |
|   | FROM  | TO            |  |  |  |  |   |                    |
|   | 0   | 100.8         | ±6.5   | Boring   | --   | --   | --  | --                 |
|   |   |               |  |  |  |  |   |                    |
|   |   |               |  |  |  |  |   |                    |
|   |   |               |  |  |  |  |   |                    |
|   |   |               |  |  |  |  |   |                    |
| 3. ANNULAR MATERIAL   | DEPTH (feet bgl)  |               | BORE HOLE DIAM. (inches)                     | LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL                      | AMOUNT (cubic feet)                            | METHOD OF PLACEMENT  |   |                    |
|   | FROM  | TO            |  |  |  |  |   |                    |
|   |   |               |  |  |  |  |   |                    |
|   |   |               |  |  |  |  |   |                    |
|   |   |               |  |  |  |  |   |                    |
|   |   |               |  |  |  |  |   |                    |
|   |   |               |  |  |  |  |   |                    |

FOR OSE INTERNAL USE

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

|                              |                            |                       |
|------------------------------|----------------------------|-----------------------|
| FILE NO. <b>C-4601-POD 1</b> | POD NO. <b>1</b>           | TRN NO. <b>721041</b> |
| LOCATION <b>26.35.05.343</b> | WELL TAG ID NO. <b>---</b> | PAGE 1 OF 2           |



#### 4. HYDROGEOLOGIC LOG OF WELL

| 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 BEARING?<br>(YES / NO)      | ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm) |
|---|---------------------|----|---|-----------------------------------|---|
|   | FROM                | TO |   |                                   |   |
| 0   | 4                   | 4  | Sand, medium/ fine grained poorly graded, Red   | Y    ✓ N                          |   |
| 4   | 19                  | 15 | Sand, medium/ fine grained poorly graded, Tan   | Y    ✓ N                          |   |
| 19  | 101                 | 82 | Sand, medium/ fine grained poorly graded, Reddish Brown   | Y    ✓ N                          |   |
|   |                     |    |   | Y    N                            |   |
|   |                     |    |   | Y    N                            |   |
|   |                     |    |   | Y    N                            |   |
|   |                     |    |   | Y    N                            |   |
|   |                     |    |   | Y    N                            |   |
|   |                     |    |   | Y    N                            |   |
|   |                     |    |   | Y    N                            |   |
|   |                     |    |   | Y    N                            |   |
|   |                     |    |   | Y    N                            |   |
|   |                     |    |   | Y    N                            |   |
|   |                     |    |   | Y    N                            |   |
|   |                     |    |   | Y    N                            |   |
|   |                     |    |   | Y    N                            |   |
|   |                     |    |   | Y    N                            |   |
|   |                     |    |   | Y    N                            |   |
|   |                     |    |   | Y    N                            |   |
|   |                     |    |   | Y    N                            |   |
| METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:<br><input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER – SPECIFY: |                     |    |   | TOTAL ESTIMATED WELL YIELD (gpm): | 0.00  |

| 5. TEST; RIG SUPERVISION  |   |   |  |
|---|---|---|--|
| <table border="1"><tr><td>WELL TEST</td><td>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.</td></tr></table> MISCELLANEOUS INFORMATION: <div style="text-align: right;">USE DTI APR 8 2022 PM 3:16</div> <table border="1"><tr><td>PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:<br/>Shane Eldridge, Carmelo Trevino, Cameron Pruitt</td></tr></table> | 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. | PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:<br>Shane Eldridge, Carmelo Trevino, Cameron Pruitt |
| 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. |   |  |
| PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:<br>Shane Eldridge, Carmelo Trevino, Cameron Pruitt  |   |   |  |

| 6. SIGNATURE   |   |  |
|--|---|--|
| <table border="1"><tr><td>THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:<br/><div>Jack Atkins<div>Jackie D. Atkins</div><div>4/7/2022</div></div></td></tr><tr><td>SIGNATURE OF DRILLER / PRINT SIGNEE NAMEDATE</td></tr></table> | THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:<br><div>Jack Atkins<div>Jackie D. Atkins</div><div>4/7/2022</div></div> | SIGNATURE OF DRILLER / PRINT SIGNEE NAMEDATE |
| THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:<br><div>Jack Atkins<div>Jackie D. Atkins</div><div>4/7/2022</div></div>  |   |  |
| SIGNATURE OF DRILLER / PRINT SIGNEE NAMEDATE   |   |  |

Mike A. Hamman, P.E.  
State Engineer



Roswell Office  
1900 WEST SECOND STREET  
ROSWELL, NM 88201

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

Trn Nbr: 721041  
File Nbr: C 04601  
Well File Nbr: C 04601 POD1

Apr. 08, 2022

MELODIE SANJARI  
MARATHON OIL  
4111 S TIDWELL RD  
CARLSBAD, NM 88220

Greetings:

The above numbered permit was issued in your name on 03/10/2022.

The Well Record was received in this office on 04/08/2022, stating that it had been completed on 03/31/2022, 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 03/10/2023.

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

Sincerely,

A handwritten signature in blue ink, appearing to read "Maret Amaral".

Maret Amaral  
(575) 622-6521

drywell



2904 W 2nd St.  
Roswell, NM 88201  
voice: 575.624.2420  
fax: 575.624.2421  
www.atkinseng.com

08/016/2021

DII-NMOSE  
1900 W 2<sup>nd</sup> Street  
Roswell, NM 88201

*Hand Delivered to the DII Office of the State Engineer*

Re: Well Record C-4601 Pod1

To whom it may concern:

Attached please find a well log & record and a plugging record, in duplicate, for a one (1) soil borings, C-4601 Pod1.

If you have any questions, please contact me at 575.499.9244 or [lucas@atkinseng.com](mailto:lucas@atkinseng.com).

Sincerely,

A handwritten signature in black ink, appearing to read "Lucas Middleton".

Lucas Middleton

Enclosures: as noted above

OSE DII APR 8 2022 PM3:15

| Date | Time | ?<br>Water-level<br>date-time<br>accuracy | ?<br>Parameter<br>code | Water<br>level,<br>feet<br>below<br>land<br>surface | Water<br>level,<br>feet<br>above<br>specific<br>vertical<br>datum | Referenced<br>vertical<br>datum | ?<br>S |
|------|------|---|------------------------|---|---|---------------------------------|--------|
|      |      |   |                        |   |   |                                 |        |
|      |      |   |                        | Groundwater   | New Mexico  |                                 | GO     |

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Groundwater levels for New Mexico

Click to hide state-specific text

❗ Important: [Next Generation Monitoring Location Page](#)

Search Results -- 1 sites found

Agency code = usgs  
site\_no list =

- 320150103235501

Minimum number of levels = 1  
[Save file of selected sites](#) to local disk for future upload

USGS 320150103235501 26S.35E.19.142

Lea County, New Mexico  
Latitude 32°01'53", Longitude 103°24'25" NAD27  
Land-surface elevation 3,190 feet above NGVD29  
This well is completed in the Other aquifers (N9999OTHER) national aquifer.

Output formats

|                                    |
|------------------------------------|
| <a href="#">Table of data</a>      |
| <a href="#">Tab-separated data</a> |
| <a href="#">Graph of data</a>      |
| <a href="#">Reselect period</a>    |

| Date       | Time | ?<br>Water-level<br>date-time<br>accuracy | ?<br>Parameter<br>code | Water<br>level,<br>feet<br>below<br>land<br>surface | Water<br>level,<br>feet<br>above<br>specific<br>vertical<br>datum | Referenced<br>vertical<br>datum | ?<br>Status | ?<br>Method of<br>measurement | ?<br>Measuring<br>agency | ?<br>Source of<br>measurement |
|------------|------|---|------------------------|---|---|---------------------------------|-------------|-------------------------------|--------------------------|-------------------------------|
|            |      |   |                        |   |   |                                 |             |                               |                          |                               |
| 1961-12-20 |      |   | D                      | 62610   | 2992.00   | NGVD29                          | 1           | O                             | USGS                     |                               |
| 1961-12-20 |      |   | D                      | 62611   | 2993.51   | NAVD88                          | 1           | O                             | USGS                     |                               |
| 1961-12-20 |      |   | D                      | 72019   | 198.00  |                                 | 1           | O                             | USGS                     |                               |

Explanation

| Section                        | Code   | Description                                   |
|--------------------------------|--------|---|
| Water-level date-time accuracy | D      | Date is accurate to the Day                   |
| Parameter code                 | 62610  | Groundwater level above NGVD 1929, feet       |
| Parameter code                 | 62611  | Groundwater level above NAVD 1988, feet       |
| Parameter code                 | 72019  | Depth to water level, feet below land surface |
| Referenced vertical datum      | NAVD88 | North American Vertical Datum of 1988         |
| Referenced vertical datum      | NGVD29 | National Geodetic Vertical Datum of 1929      |
| Status                         | 1      | Static  |

| Date | Time | ?<br>Water-level<br>date-time<br>accuracy | ?<br>Parameter<br>code | Water<br>level,<br>feet<br>below<br>land<br>surface | Water<br>level,<br>feet<br>above<br>specific<br>vertical<br>datum | Referenced<br>vertical<br>datum | ?<br>S |
|------|------|---|------------------------|---|---|---------------------------------|--------|
|------|------|---|------------------------|---|---|---------------------------------|--------|

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**Title:** Groundwater for New Mexico: Water Levels

**URL:** <https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?>



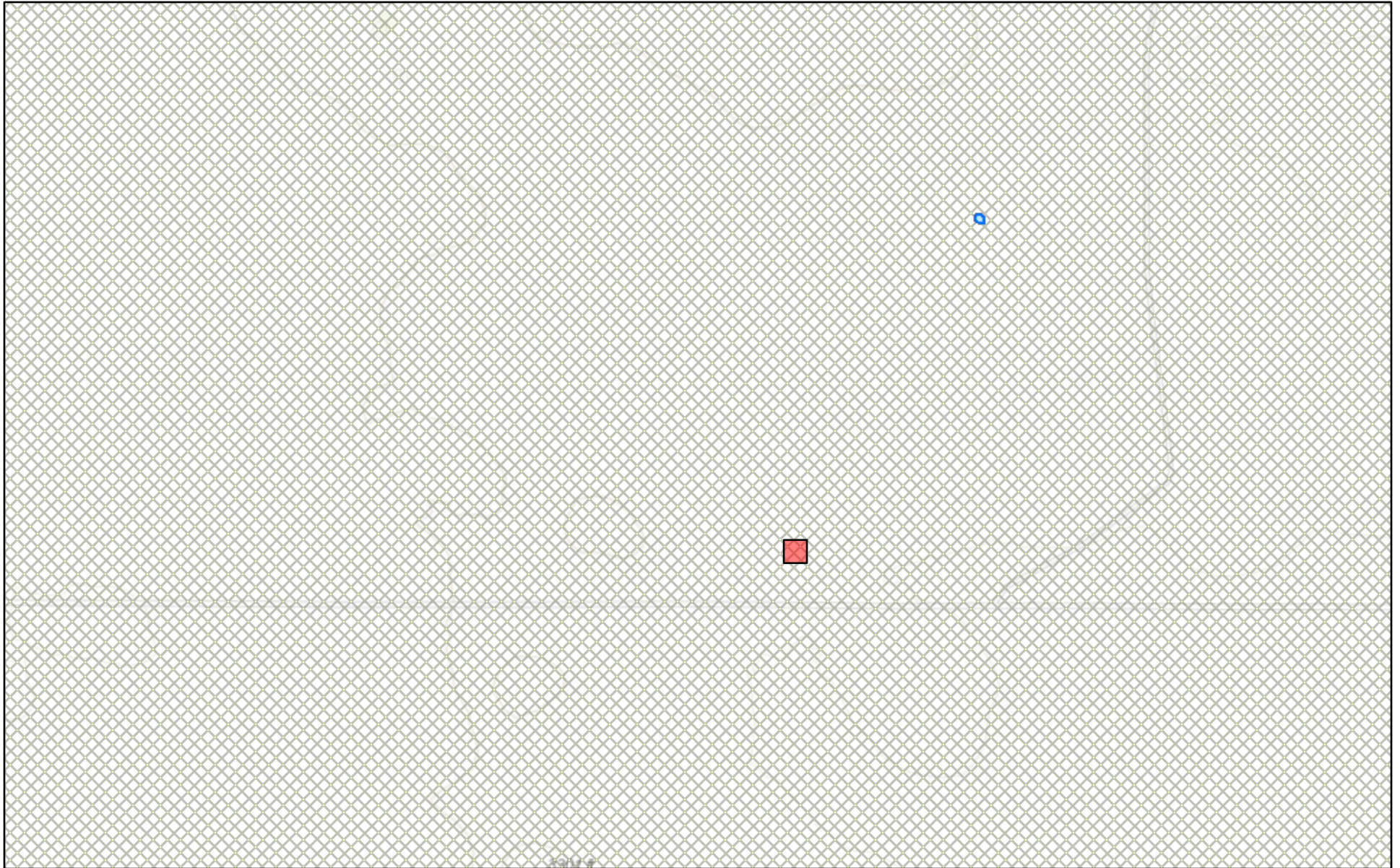
Page Contact Information: [New Mexico Water Data Maintainer](#)

Page Last Modified: 2023-09-17 16:42:33 EDT

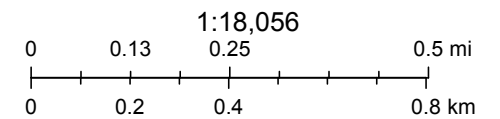
0.28 0.24 nadww02



# New Mexico NFHL Data



October 18, 2023



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

nmflood.org is made possible through a collaboration with NMDHSEM,

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 282240

CONDITIONS

|  |   |
|--|---|
| Operator:<br>MARATHON OIL PERMIAN LLC<br>990 Town & Country Blvd.<br>Houston, TX 77024 | OGRID:<br>372098  |
|  | Action Number:<br>282240                                  |
|  | Action Type:<br>[C-141] Release Corrective Action (C-141) |

CONDITIONS

| Created By    | Condition | Condition Date |
|---------------|-----------|----------------|
| scott.rodgers | None      | 1/3/2024       |