



## SITE INFORMATION

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### **Closure Report**

**Flowmaster Fee 367 TB (08.05.2024)**

**Incident #: NAPP2422154552**

**Lea County, New Mexico**

**Unit D Sec 15 T24S R34E**

**32.2237399°, -103.4648054°**

### **Produced Water Release**

**Point of Release: Equipment Failure, Sight Glass on Separator Failed**

**Release Date: 08.05.2024**

**Volume Released: 49 barrels of Produced Water**

**Volume Recovered: 49 barrels of Produced Water**

CARMONA RESOURCES



### **Prepared for:**

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

### **Prepared by:**

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



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August 26, 2024

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

**Re: Closure Report**  
**Flowmaster Fee 367 TB (08.05.2024)**  
**Marathon Oil Corporation**  
**Incident ID: NAPP2422154552**  
**Site Location: Unit D, S15, T24S, R34E**  
**(Lat 32.2237399°, Long -103.4648054°)**  
**Lea County, New Mexico**

To Whom it May Concern:

On behalf of Marathon Oil Corporation (Marathon), Carmona Resources, LLC has prepared this letter to document site activities for the Flowmaster Fee 367 TB. The site is located at 32.2237399°, -103.4648054° within Unit D, S15, T24S, 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 release was discovered on August 05, 2024, caused by a sight glass on a separator failing. It resulted in the release of approximately forty-nine (49) barrels of produced water inside the lined facility, and approximately forty-nine (49) barrels of produced water were recovered within the lined facility. See Figure 3. The initial C-141 form is attached in Appendix B.

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

The site is located within a low karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, there are no known water sources within a 0.50-mile radius of the location. The closest well is located approximately 0.72 miles North of the site in S10, T24S, R34E and was drilled in 1970. The well has a reported depth to groundwater of 69.73 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/Site Assessment Activities**



On August 15, 2024, 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 NMOCD web portal on August 13, 2024, per Subsection D of 19.15.29.12 NMAC. See Appendix C. Carmona Resources, LLC personnel inspected the liner visually and determined it to be intact with no integrity issues.

Refer to the Photolog attached in Appendix A.

### **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 432-813-9044.

Sincerely,

**Carmona Resources, LLC**

Clinton Merritt  
Sr. Project Manager

Ashton Thielke  
Sr. Project Manager



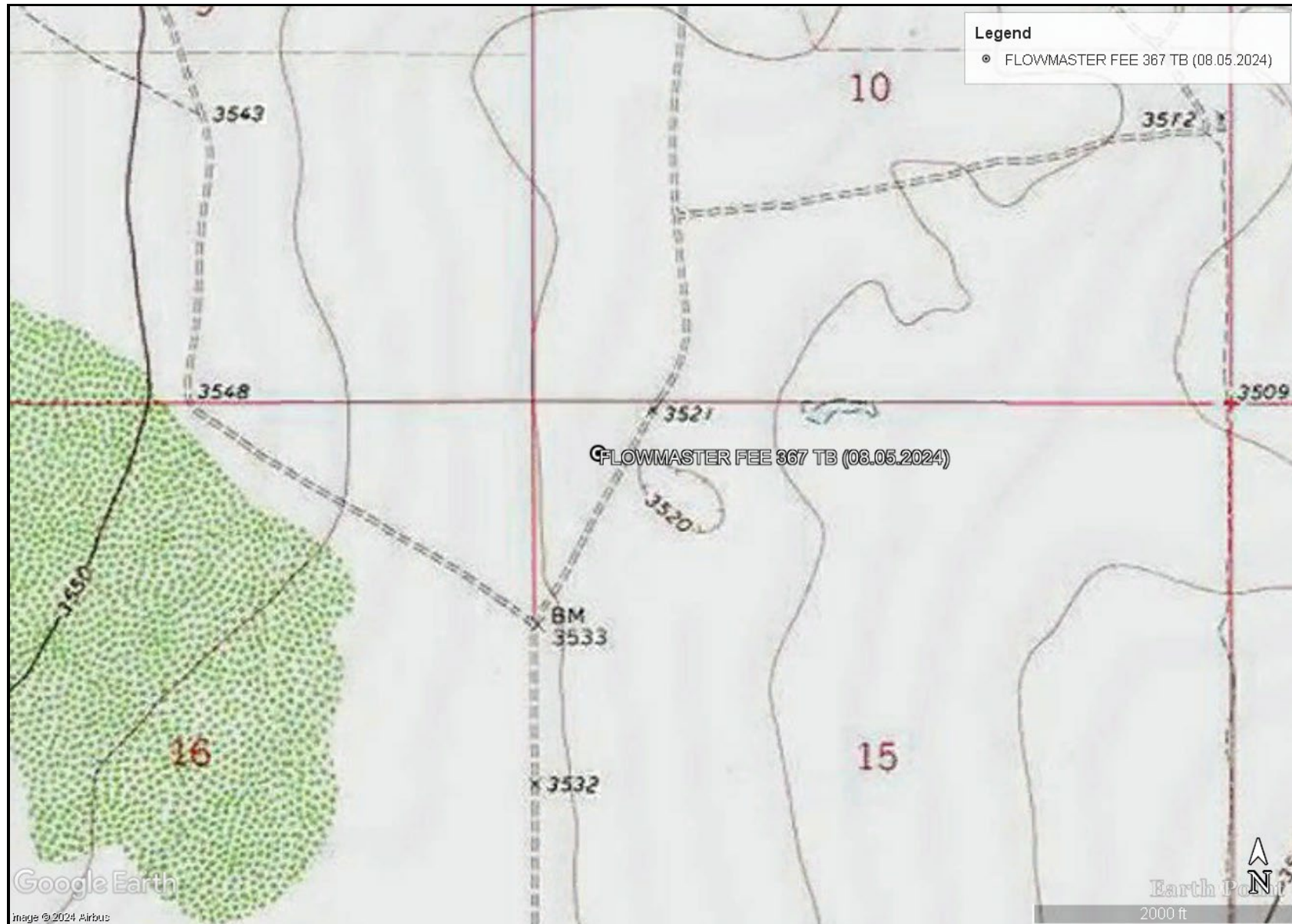
## FIGURES

CARMONA RESOURCES









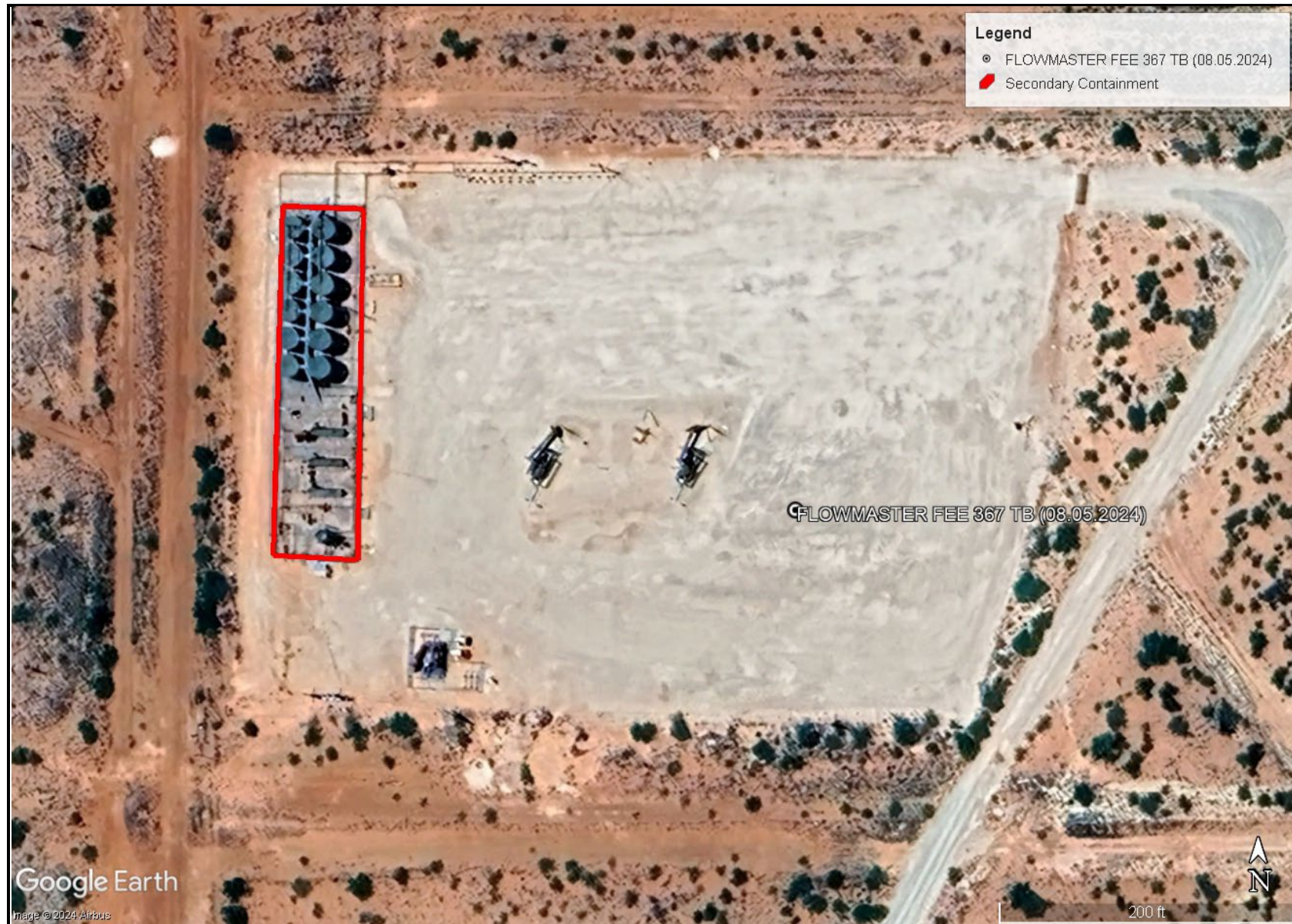
TOPOGRAPHIC MAP  
MARATHON OIL CORPORATION  
FLOWMASTER FEE 367 TB  
LEA COUNTY, NEW MEXICO  
32.2237399°, -103.4648054°

CARMONA RESOURCES



FIGURE 2





SECONDARY CONTAINMENT MAP  
MARATHON OIL CORPORATION  
FLOWMASTER FEE 367 TB  
LEA COUNTY, NEW MEXICO  
32.2237399°, -103.4648054°

CARMONA RESOURCES



FIGURE 3

## APPENDIX A

CARMONA RESOURCES





# PHOTOGRAPHIC LOG

## Marathon Oil Corporation

### Photograph No. 1

**Facility:** FLOWMASTER FEE 367 TB

**County:** Lea County, New Mexico

**Description:**

View Southwest, area of facility sign.



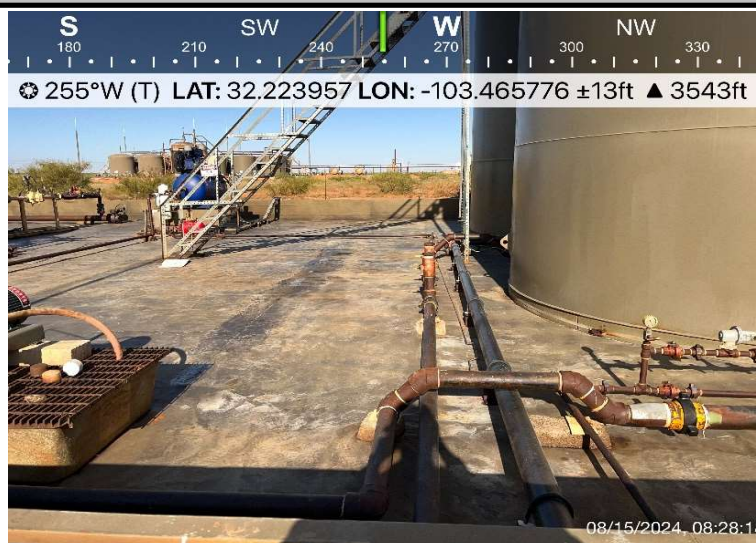
### Photograph No. 2

**Facility:** FLOWMASTER FEE 367 TB

**County:** Lea County, New Mexico

**Description:**

View West, area of lined facility.



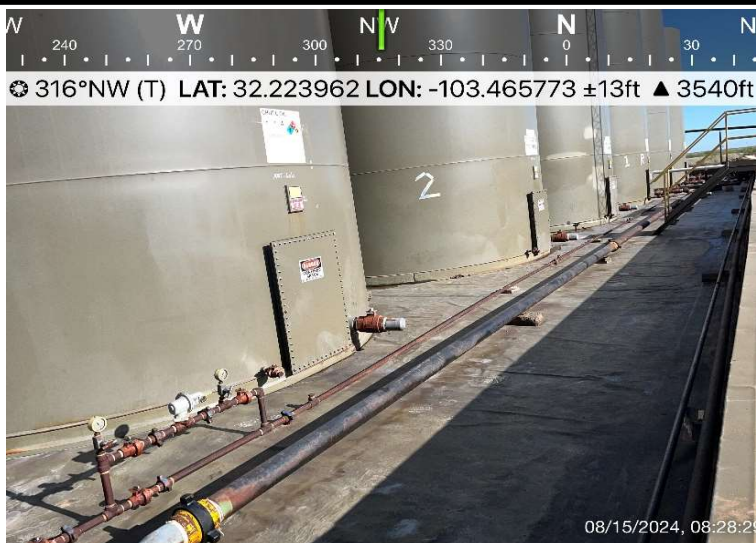
### Photograph No. 3

**Facility:** FLOWMASTER FEE 367 TB

**County:** Lea County, New Mexico

**Description:**

View Northwest, area of lined facility.



## PHOTOGRAPHIC LOG

## Marathon Oil Corporation

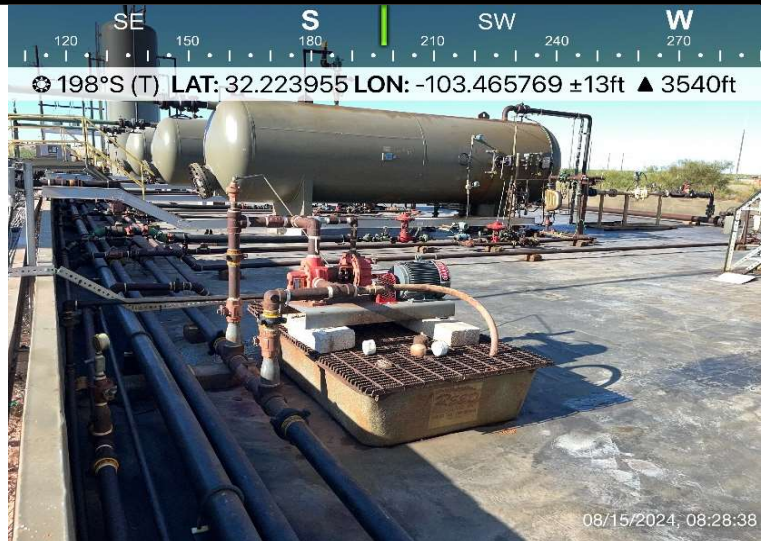
## Photograph No. 4

Facility: FLOWMASTER FEE 367 TB

County: Lea County, New Mexico

## Description:

View South, area of lined facility.



## Photograph No. 5

Facility: FLOWMASTER FEE 367 TB

County: Lea County, New Mexico

## Description:

View West, area of lined facility.



## Photograph No. 6

Facility: FLOWMASTER FEE 367 TB

County: Lea County, New Mexico

## Description:

View South, area of lined facility.





## PHOTOGRAPHIC LOG

Marathon Oil Corporation

## Photograph No. 7

Facility: FLOWMASTER FEE 367 TB

County: Lea County, New Mexico

## Description:

View Southwest, area of lined facility.



## Photograph No. 8

Facility: FLOWMASTER FEE 367 TB

County: Lea County, New Mexico

## Description:

View South, area of lined facility.



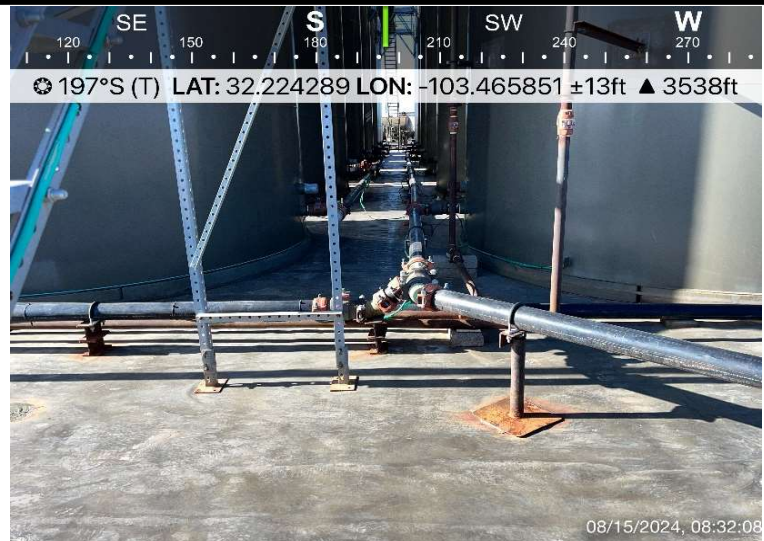
## Photograph No. 9

Facility: FLOWMASTER FEE 367 TB

County: Lea County, New Mexico

## Description:

View South, area of lined facility.





## PHOTOGRAPHIC LOG

Marathon Oil Corporation

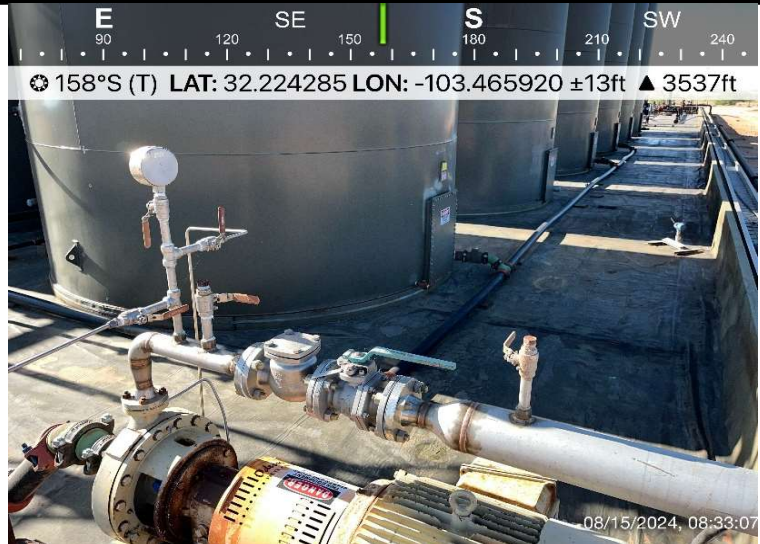
## Photograph No. 10

Facility: FLOWMASTER FEE 367 TB

County: Lea County, New Mexico

## Description:

View South, area of lined facility.



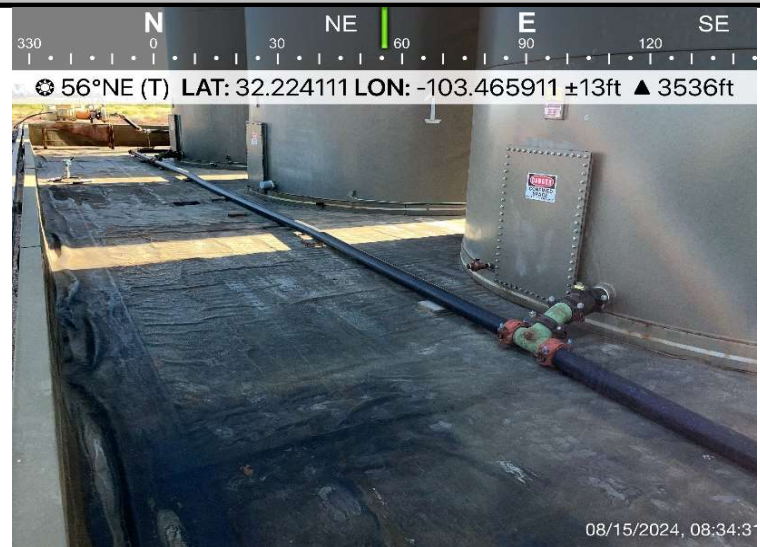
## Photograph No. 11

Facility: FLOWMASTER FEE 367 TB

County: Lea County, New Mexico

## Description:

View Northeast, area of lined facility.



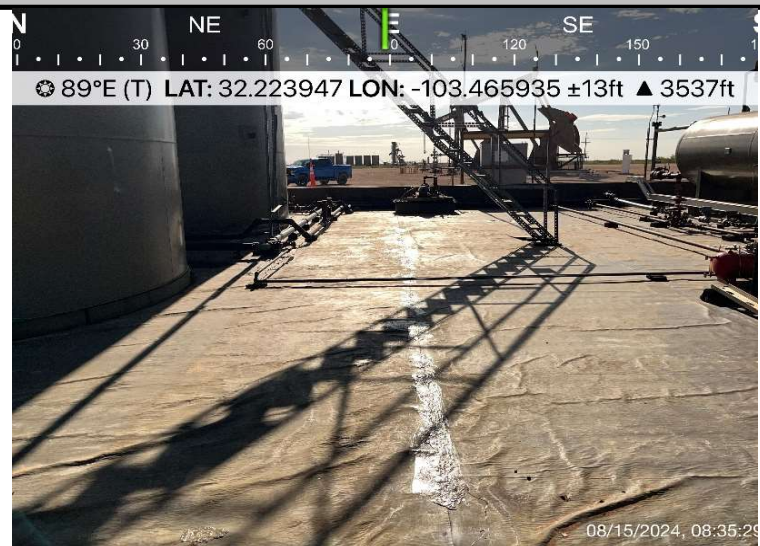
## Photograph No. 12

Facility: FLOWMASTER FEE 367 TB

County: Lea County, New Mexico

## Description:

View East, area of lined facility.

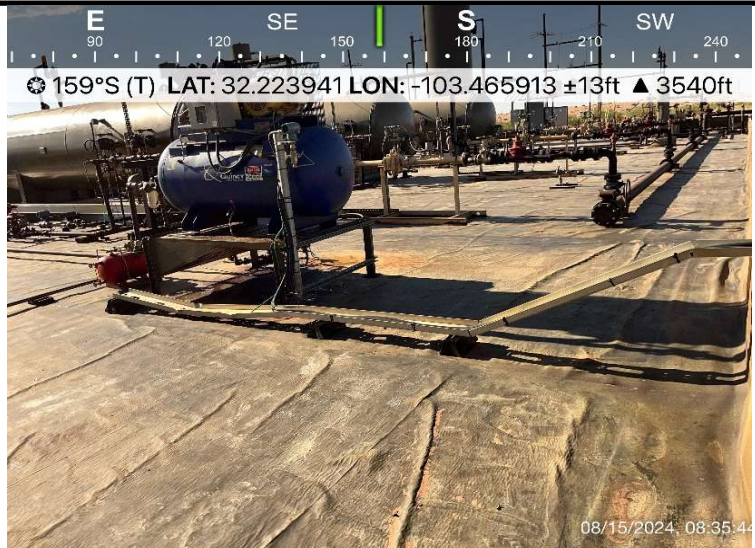


**PHOTOGRAPHIC LOG****Marathon Oil Corporation****Photograph No. 13****Facility:** FLOWMASTER FEE 367 TB**County:** Lea County, New Mexico**Description:**

View Northeast, area of lined facility.

**Photograph No. 14****Facility:** FLOWMASTER FEE 367 TB**County:** Lea County, New Mexico**Description:**

View South, area of lined facility.

**Photograph No. 15****Facility:** FLOWMASTER FEE 367 TB**County:** Lea County, New Mexico**Description:**

View East, area of lined facility.





## PHOTOGRAPHIC LOG

Marathon Oil Corporation

## Photograph No. 16

Facility: FLOWMASTER FEE 367 TB

County: Lea County, New Mexico

## Description:

View East, area of lined facility.



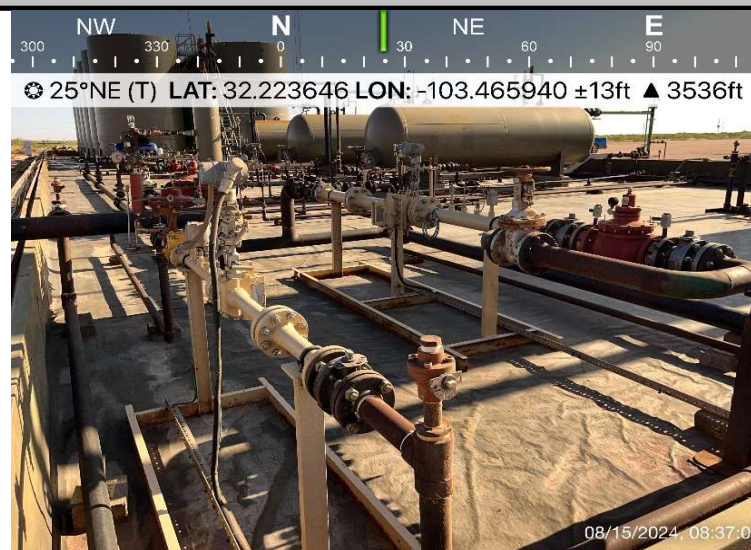
## Photograph No. 17

Facility: FLOWMASTER FEE 367 TB

County: Lea County, New Mexico

## Description:

View North, area of lined facility.



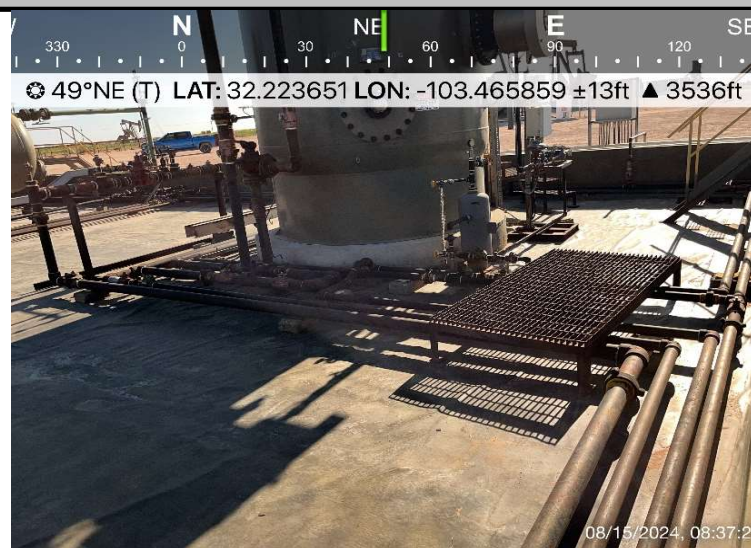
## Photograph No. 18

Facility: FLOWMASTER FEE 367 TB

County: Lea County, New Mexico

## Description:

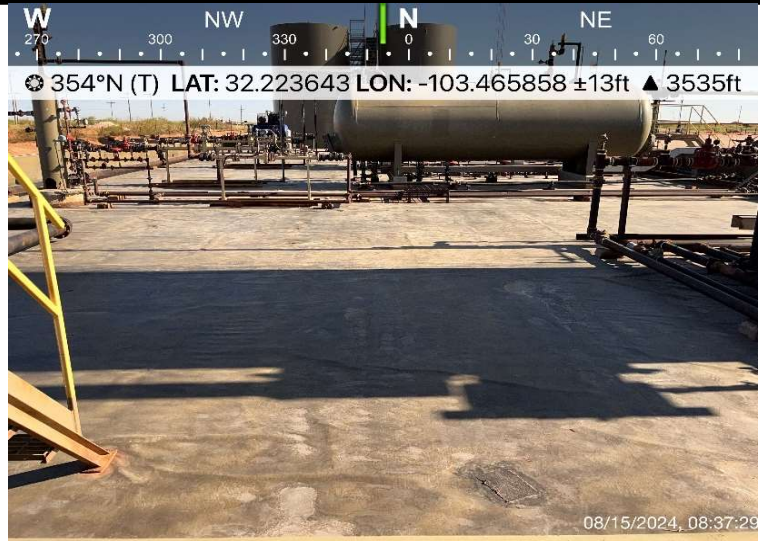
View Northeast, area of lined facility.





**PHOTOGRAPHIC LOG****Marathon Oil Corporation****Photograph No. 19****Facility:** FLOWMASTER FEE 367 TB**County:** Lea County, New Mexico**Description:**

View North, area of lined facility.

**Photograph No. 20****Facility:** FLOWMASTER FEE 367 TB**County:** Lea County, New Mexico**Description:**

View West, area of lined facility.

**Photograph No. 21****Facility:** FLOWMASTER FEE 367 TB**County:** Lea County, New Mexico**Description:**

View North, area of lined facility.





## PHOTOGRAPHIC LOG

## Marathon Oil Corporation

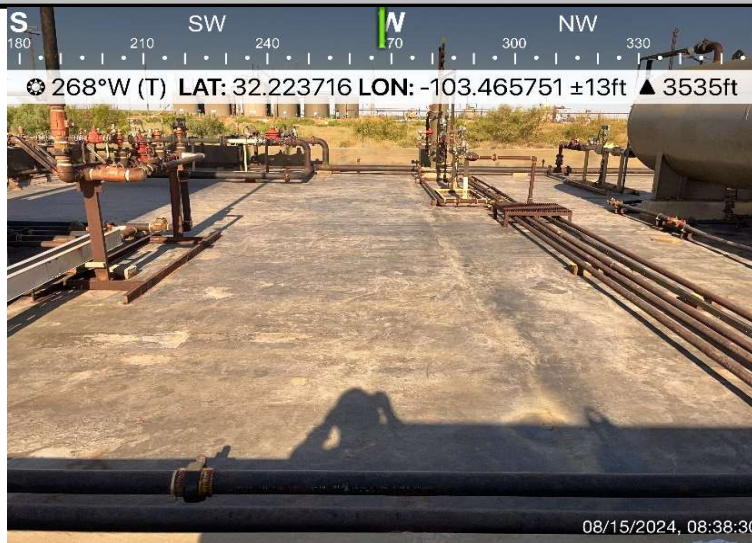
## Photograph No. 22

Facility: FLOWMASTER FEE 367 TB

County: Lea County, New Mexico

## Description:

View West, area of lined facility.



## Photograph No. 23

Facility: FLOWMASTER FEE 367 TB

County: Lea County, New Mexico

## Description:

View Northwest, area of lined facility.



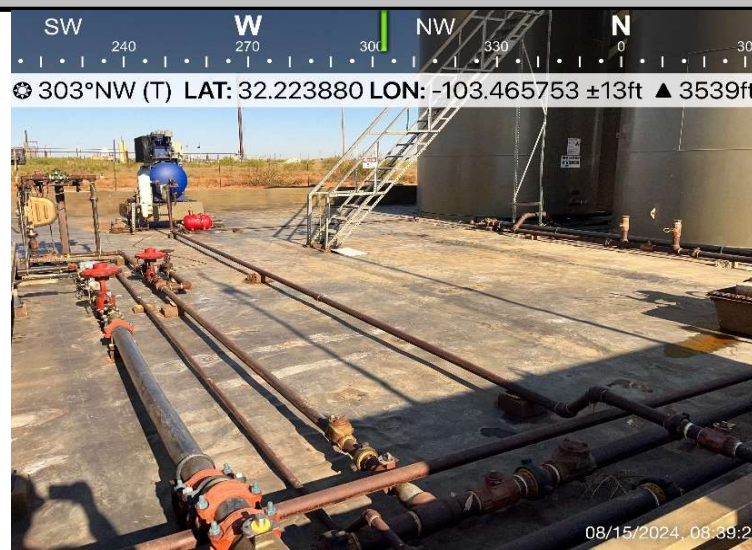
## Photograph No. 24

Facility: FLOWMASTER FEE 367 TB

County: Lea County, New Mexico

## Description:

View Northwest, area of lined facility.



## APPENDIX B

CARMONA RESOURCES



**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 372084

QUESTIONS

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 372084
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

Location of Release Source	
Please answer all the questions in this group.	
Site Name	FLOWMASTER FEE 367 TB
Date Release Discovered	08/05/2024
Surface Owner	Private

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   Other (Specify)   Produced Water   Released: 49 BBL   Recovered: 49 BBL   Lost: 0 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 fluid was contained inside of lined secondary containment. A sight glass on a separator failed resulting in the release.

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State of New Mexico  
Energy, Minerals and Natural Resources  
Oil Conservation Division  
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Santa Fe, NM 87505

QUESTIONS, Page 2  
  
Action 372084

QUESTIONS (continued)

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 372084
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
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 19.15.29.11(A)(5)(a) NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.	



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**Oil Conservation Division**  
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**Santa Fe, NM 87505**

ACKNOWLEDGMENTS  
  
Action 372084

ACKNOWLEDGMENTS

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 372084
	Action Type: [NOTIFY] Notification Of Release (NOR)

ACKNOWLEDGMENTS

<input checked="" type="checkbox"/>	I acknowledge that I am authorized to submit notification of a release on behalf of my operator.
<input checked="" type="checkbox"/>	I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to my operator) to track the notification(s) and corrective action(s) for a release, pursuant to NMAC 19.15.29.
<input checked="" type="checkbox"/>	I acknowledge that creating a new incident file will require my operator to file subsequent submission(s) of form "C-141, Application for administrative approval of a release notification and corrective action", pursuant to NMAC 19.15.29.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	I acknowledge the fact that 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.
<input checked="" type="checkbox"/>	I acknowledge the fact that, 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.

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1220 S. St Francis Dr.  
Santa Fe, NM 87505

CONDITIONS  
  
Action 372084

CONDITIONS

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 372084
	Action Type: [NOTIFY] Notification Of Release (NOR)

CONDITIONS

Created By	Condition	Condition Date
cswansonsteege	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.	8/8/2024

## MRO Spill Calculation Tool

Standing Liquid Inputs:

	Length (ft.)	Width (ft.) (Area for Displacement)	Avg. Liquid Depth (in.)	% Oil	Total Volume (bbls)	Water Volume (bbls)	Oil Volume (bbls)
Rectangle Area #1	156	42	0.5		48.62	48.62	0.00
Rectangle Area #2					0.00	0.00	0.00
Rectangle Area #3					0.00	0.00	0.00
Rectangle Area #4					0.00	0.00	0.00
Rectangle Area #5					0.00	0.00	0.00
Rectangle Area #6					0.00	0.00	0.00
Vessel Displacement					0.00	0.00	0.00
Vessel Displacement					0.00	0.00	0.00
Vac truck recovery:					0.00	48.62	0.00

Saturated Soil Inputs:

	Length (ft.)	Width (ft.) / (SQ Ft)	Avg. Saturated Depth (in.)	% Oil	Total Volume (bbls)	Water Volume (bbls)	Oil Volume (bbls)
Rectangle Area #1					0.00	0.00	0.00
Rectangle Area #2					0.00	0.00	0.00
Rectangle Area #3					0.00	0.00	0.00
Rectangle Area #4					0.00	0.00	0.00
Rectangle Area #5					0.00	0.00	0.00
Rectangle Area #6					0.00	0.00	0.00
SQ FT Calc					0.00	0.00	0.00
Rectangle Area #8					0.00	0.00	0.00
Saturated Volume					0.00	0.00	0.00

	Total Volume (bbls)	Water Volume (bbls)	Oil Volume (bbls)
Total Spill Volume (bbls):	0.00	48.62	0.00
Total Spill Volume (gals):	0.00	2042.18	0.00

Comments:

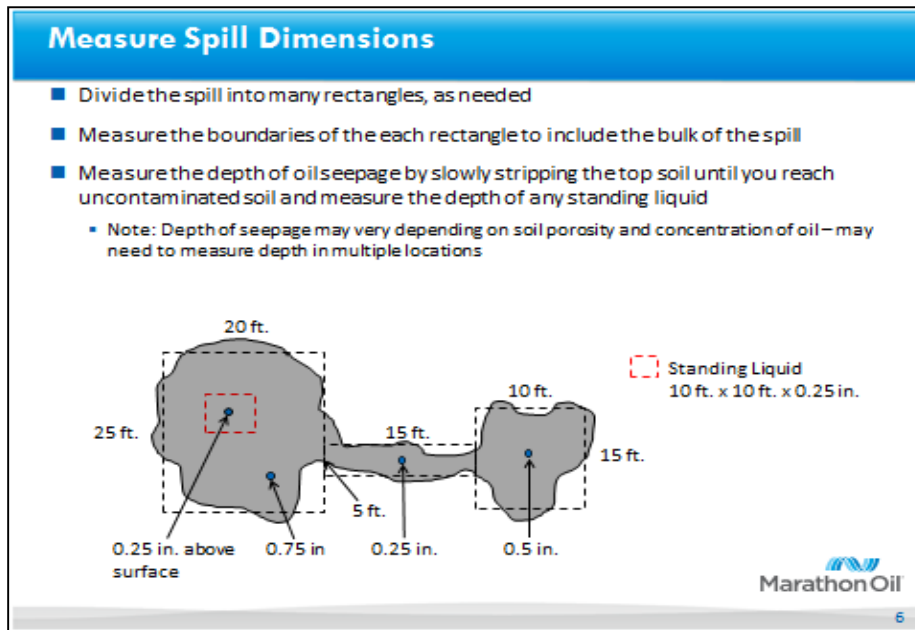
Color Key:

Required Input  
CellsSupplemental  
Input CellsNo Input  
(Calculations)

No Input

## Ground/Vegetation Overspray

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



Number of Tanks	Area of Displacement (Ft <sup>2</sup> )
10	1880

Clay Loam	0.16
Gravel or Sand	0.08
Gravel Loam	0.14
Sandy Clay Loam	0.14

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:	373170	Districts:	Hobbs
Operator:	[372098] MARATHON OIL PERMIAN LLC	Counties:	Lea
Description:	MARATHON OIL PERMIAN LLC [372098] , FLOWMASTER FEE 367 TB , nAPP2422154552		
Status:	APPROVED		
Status Date:	08/19/2024		
References (2):	fAPP2125248380, nAPP2422154552		

Forms

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

Prerequisites

Incident ID (n#)	nAPP2422154552
Incident Name	NAPP2422154552 FLOWMASTER FEE 367 TB @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Received
Incident Facility	[fAPP2125248380] FLOWMASTER FEE 367 TB

Location of Release Source

Please answer all the questions in this group.

Site Name	FLOWMASTER FEE 367 TB
Date Release Discovered	08/05/2024
Surface Owner	Private

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.
-----------------------------------	---------------

Other Released Details	Not answered.
Are there <b>additional details</b> for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	All fluid was contained inside of lined secondary containment. A sight glass on a separator failed resulting in the release.

Nature and Volume of Release (continued)

Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a “gas only” report.
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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: Cody Swanson Steege  
Title: Compliance Supervisor  
Email: swansonste@marathonoil.com  
Date: 08/13/2024

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)	Not answered.
What method was used to determine the depth to ground water	Not answered.
Did this release impact groundwater or surface water	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	Not answered.
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Not answered.
An occupied permanent residence, school, hospital, institution, or church	Not answered.
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Not answered.
Any other fresh water well or spring	Not answered.
Incorporated municipal boundaries or a defined municipal fresh water well field	Not answered.
A wetland	Not answered.
A subsurface mine	Not answered.
An (non-karst) unstable area	Not answered.
Categorize the risk of this well / site being in a karst geology	Not answered.
A 100-year floodplain	Not answered.
Did the release impact areas not on an exploration, development, production, or storage site	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
---	----

This submission type does not have acknowledgments, at this time.

**Comments**

No comments found for this submission.

**Conditions**

**Summary:** *hamlet (8/19/2024), None*

**Reasons**

No reasons found for this submission.

Fees

Summary:		Created	Type	Amount	Status	Saved	
	1FAFH-240813-C-1410	Fee	8/13/2024	SB553 A.(2) [ADMIN]	\$150.00	Paid [PAID]	8/13/2024
		Payment	8/13/2024	Credit Card [CC]	\$150.00	Paid [PAID]	8/19/2024

Go Back



**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 373010

**QUESTIONS**

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 373010
	Action Type: [NOTIFY] Notification Of Liner Inspection (C-141L)

**QUESTIONS**

Prerequisites	
Incident ID (n#)	nAPP2422154552
Incident Name	NAPP2422154552 FLOWMASTER FEE 367 TB @ 0
Incident Type	Produced Water Release
Incident Status	Notification Accepted
Incident Facility	[fAPP2125248380] FLOWMASTER FEE 367 TB

**Location of Release Source**

Site Name	FLOWMASTER FEE 367 TB
Date Release Discovered	08/05/2024
Surface Owner	Private

**Liner Inspection Event Information***Please answer all the questions in this group.*

What is the liner inspection surface area in square feet	13,310
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	08/15/2024
Time liner inspection will commence	08:00 AM
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 128 and CR 2-B, travel north on CR 2-B for 0.83 miles. Turn east onto unmarked lease road and travel for 0.08 miles. Turn northeast onto unmarked lease road and travel for 0.15 miles. Job site is on the west side of the road.

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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 373010

CONDITIONS

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 373010
	Action Type: [NOTIFY] Notification Of Liner Inspection (C-141L)

CONDITIONS

Created By	Condition	Condition Date
cswansonsteege	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.	8/13/2024

## APPENDIX C

CARMONA RESOURCES



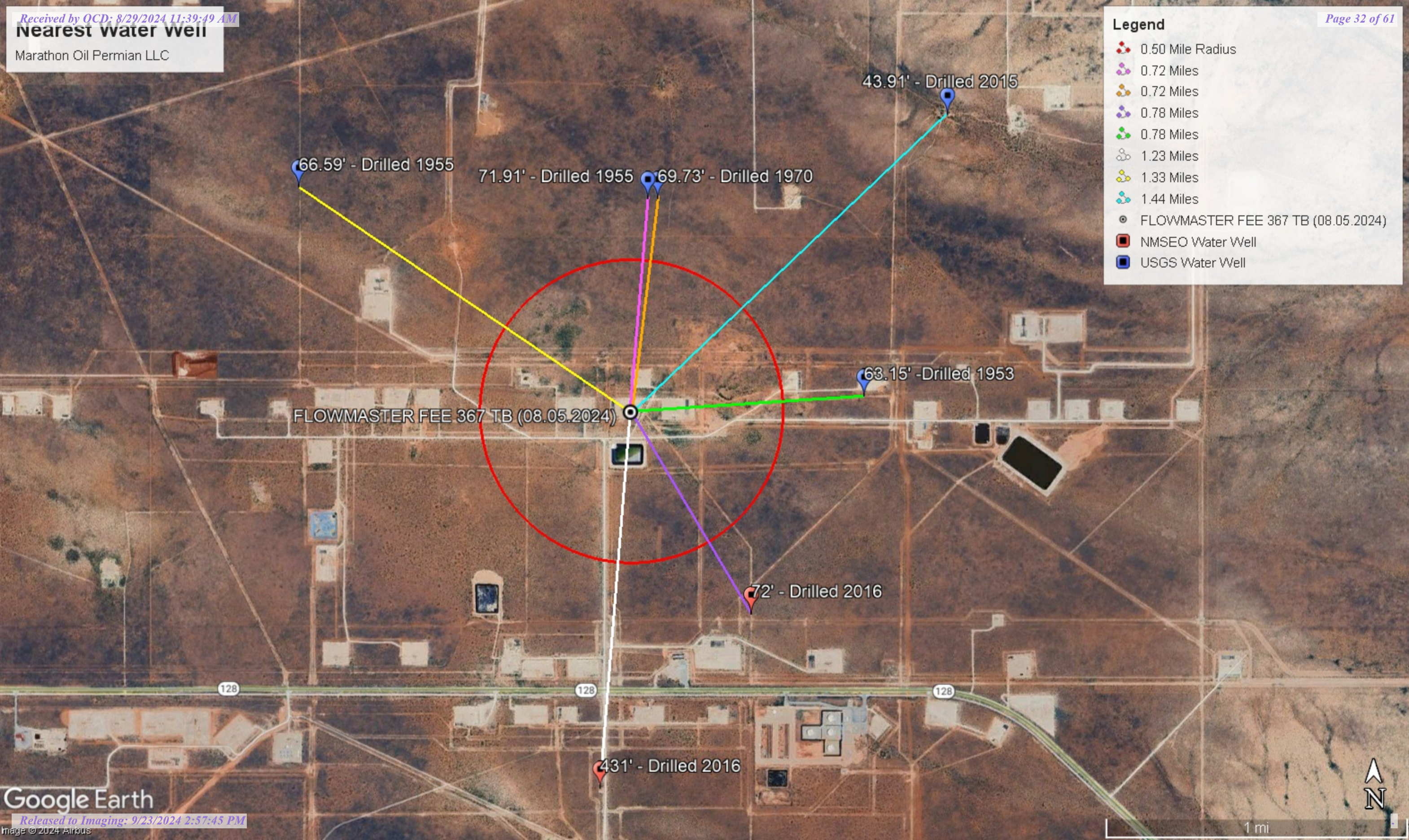


**Nearest water well**

Marathon Oil Permian LLC

**Legend**

- 0.50 Mile Radius
- 0.72 Miles
- 0.72 Miles
- 0.78 Miles
- 0.78 Miles
- 1.23 Miles
- 1.33 Miles
- 1.44 Miles
- FLOWMASTER FEE 367 TB (08.05.2024)
- NMSEO Water Well
- USGS Water Well





Low Karst

Marathon Oil Permian LLC

Legend

- FLOWMASTER FEE 367 TB (08.05.2024)
- Low

FLOWMASTER FEE 367 TB (08.05.2024)

128

128

128





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 smallest to largest)

(meters)

(In feet)

POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	X	Y	Map	Distance	Well Depth	Depth Water	Water Column
<a href="#">C 03932 POD13</a>		CUB	LE	SE	NE	SW	15	24S	34E	645314.2	3565203.5		1249	90		
<a href="#">C 03943 POD1</a>		CUB	LE	NE	SE	NE	21	24S	34E	644522.6	3564266.6		2007	610	431	179
<a href="#">P 04400 POD2</a>		P	RO	SE	NE	NW	21	01S	33E	642775.3	3565051.9		2244	95		
<a href="#">C 02387</a>		CUB	LE			NW	11	24S	34E	646513.0	3567613.0 *		2288	62	40	22
<a href="#">C 02386</a>		CUB	LE	SE	NW	NE	04	24S	34E	643962.0	3569290.0 *		3100	575	475	100
<a href="#">C 02397</a>		CUB	LE	SE	NW	NE	04	24S	34E	643962.0	3569290.0 *		3100	575	475	100
<a href="#">C 03932 POD3</a>		CUB	LE	SE	SW	NE	05	24S	34E	642442.0	3568787.7		3356	100		
<a href="#">C 04458 POD1</a>		CUB	LE	SE	NW	NW	20	24S	34E	641549.2	3564532.9		3563		0	
<a href="#">C 03932 POD8</a>		CUB	LE	SE	NE	SE	07	24S	34E	641120.0	3566769.9		3576	72		

Average Depth to Water: 284 feet

Minimum Depth: 0 feet

Maximum Depth: 475 feet

Record Count: 9

UTM Filters (in meters):

Easting: 644661.00

Northing: 3566269.00

Radius: 4000

\* 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.



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Geographic Area:  
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Agency code = usgs  
site\_no list =

- 321402103274801

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

USGS 321402103274801 24S.34E.10.11221

Lea County, New Mexico  
Latitude 32°14'02", Longitude 103°27'48" NAD27  
Land-surface elevation 3,535 feet above NAVD88  
This well is completed in the Other aquifers (N9999OTHER) national aquifer.  
This well is completed in the Ogallala Formation (121OGLL) local 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	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement
1968-06-12			D	62610	3461.95	NGVD29	1	Z		
1968-06-12			D	62611	3463.58	NAVD88	1	Z		
1968-06-12			D	72019	71.42		1	Z		
1970-12-08			D	62610	3463.64	NGVD29	1	Z		
1970-12-08			D	62611	3465.27	NAVD88	1	Z		
1970-12-08			D	72019	69.73		1	Z		

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

Section	Code	Description
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

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**Title: Groundwater for New Mexico: Water Levels**  
**URL: <https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?>**



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Search Results -- 1 sites found

Agency code = usgs  
site\_no list =

- 321402103275001

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

USGS 321402103275001 24S.34E.10.11212

Lea County, New Mexico  
Latitude 32°14'02", Longitude 103°27'50" NAD27  
Land-surface elevation 3,536 feet above NAVD88  
The depth of the well is 83 feet below land surface.  
This well is completed in the Other aquifers (N9999OTHER) national aquifer.  
This well is completed in the Ogallala Formation (121OGLL) local 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	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement
1953-04-27			D	62610	3462.62	NGVD29	1		Z	
1953-04-27			D	62611	3464.25	NAVD88	1		Z	
1953-04-27			D	72019	71.75		1		Z	
1955-06-03			D	62610	3462.46	NGVD29	1		Z	
1955-06-03			D	62611	3464.09	NAVD88	1		Z	
1955-06-03			D	72019	71.91		1		Z	

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

Section	Code	Description
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

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USGS Water Resources

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Groundwater

Geographic Area:  
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Search Results -- 1 sites found

Agency code = usgs  
site\_no list =

- 321328103270601

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

USGS 321328103270601 24S.34E.10.42243

Lea County, New Mexico  
Latitude 32°13'28", Longitude 103°27'06" NAD27  
Land-surface elevation 3,514 feet above NAVD88  
The depth of the well is 93 feet below land surface.  
This well is completed in the Other aquifers (N9999OTHER) national aquifer.  
This well is completed in the Ogallala Formation (121OGLL) local 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	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement
1953-04-27			D	62610	3449.23	NGVD29	1	Z		
1953-04-27			D	62611	3450.85	NAVD88	1	Z		
1953-04-27			D	72019	63.15		1	Z		

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

Section	Code	Description
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

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# 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 NUMBER (WELL NUMBER)				OSE FILE NUMBER(S)			
	S15-BH-03				C 03932			
	WELL OWNER NAME(S)				PHONE (OPTIONAL)			
	Bryce Krager % Parkhill, Smith & Cooper Attention: R.H. Holder							
	WELL OWNER MAILING ADDRESS				CITY STATE ZIP			
4222 85th Street				Lubbock Texas 79423				
WELL LOCATION (FROM GPS)	DEGREES	MINUTES	SECONDS	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84				
	LATITUDE	32	12					50.55 N
	LONGITUDE	103	27	28.96 W				
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE								
SW 1/4 of SW 1/4 of NW 1/4 of SE 1/4 of Section 15, Township 24S, Range 34E								
2. DRILLING & CASING INFORMATION	LICENSE NUMBER		NAME OF LICENSED DRILLER			NAME OF WELL DRILLING COMPANY		
	WD-1222		Lee Peterson			Peterson Drilling & Testing, Inc.		
	DRILLING STARTED		DRILLING ENDED		DEPTH OF COMPLETED WELL (FT)		BORE HOLE DEPTH (FT)	
	02/10/16		02/11/16				90'	
	COMPLETED WELL IS:		STATIC WATER LEVEL IN COMPLETED WELL (FT)					
	<input type="checkbox"/> ARTESIAN		<input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)					
	DRILLING FLUID:		ADDITIVES - SPECIFY:					
	<input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD							
	DRILLING METHOD:		OTHER - SPECIFY:					
	<input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL							
DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)	
FROM	TO							
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 10/29/15)

FILE NUMBER

C-3932

POD NUMBER

13

TRN NUMBER

581433

LOCATION

24S.34E.15.4.2.3

EXPL

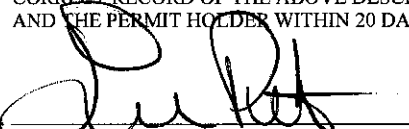

PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
	0	6	6	Light Reddish Brown Fine Sand	Y ✓ N	
	6	13	7	Light Reddish Brown Sand with Caliche	Y ✓ N	
	13	19	6	Light Reddish Brown Fine Sand	Y ✓ N	
	19	29	10	Tan-White Caliche with Light Reddish Brown Sand	Y ✓ N	
	29	39	10	Light Reddish Brown Sand	Y ✓ N	
	39	45	6	Gray to Dark Gray Sand	Y ✓ N	
	45	54	9	Gray-Dark Gray Sand with Sandstone Pebbles	Y ✓ N	
	54	55	1	Dark Reddish Brown to Light Reddish Brown Silty Claystone	Y ✓ N	
	55	58	3	Green to Gray Shale	Y ✓ N	
	58	62	4	Dark Reddish Brown Silty Claystone	Y ✓ N	
	62	74	12	Dark Reddish Brown Claystone	Y ✓ N	
	74	75	1	Light Brown to Gray Silty Clay	Y ✓ N	
	75	77	2	Dark Reddish Brown Claystone	Y ✓ N	
	77	79	2	Light Brown to Gray Silty Clay	Y ✓ N	
	79	80	1	Dark Reddish Brown Claystone	Y ✓ N	
	80	82	2	Light Brown to Gray Sandy Silt	Y ✓ N	
	82	87	5	Dark Reddish Brown Clayey Silt	Y ✓ N	
	87	90	3	Light Brown to Gray Silty Sand	Y N	
					Y N	
					Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <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	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: Boring location drilled only as a soil boring and plugged after completion per well plugging plan.	
PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:		

6. SIGNATURE	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 20 DAYS AFTER COMPLETION OF WELL DRILLING:
 SIGNATURE OF DRILLER / PRINT SIGNEE NAME	 DATE: 2/26/16

FOR USE INTERNAL USE

WR-20 WELL RECORD &amp; LOG (Version 06/08/2012)

FILE NUMBER	C-3932	POD NUMBER	13	TRN NUMBER	581433
LOCATION	24S.34E.13.4-2-3			EXPL.	PAGE 2 OF 2

Tom Blaine, P.E.  
State Engineer



Roswell Office  
1900 WEST SECOND STREET  
ROSWELL, NM 88201

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

Trn Nbr: 581433  
File Nbr: C 03932  
Well File Nbr: C 03932 POD13

Mar. 28, 2016

ROBERT H HOLDER  
BRYCE KRAGER  
4222 85TH ST  
LUBBOCK, TX 79423

Greetings:

The above numbered permit was issued in your name on 01/27/2016.

The Well Record was received in this office on 03/01/2016, stating that it had been completed on 02/11/2016, and was a dry well. The well is to be plugged or capped or otherwise maintained in a manner satisfactory to the State Engineer.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 01/14/2017.

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

Sincerely,

A handwritten signature in black ink, appearing to read "D. Dunaway".

Deborah Dunaway  
(575) 622-6521

drywell

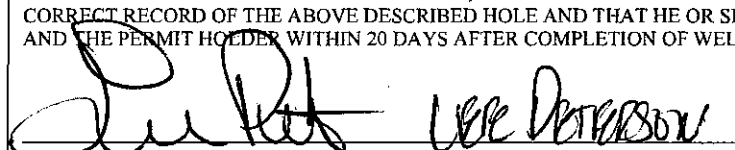


**OFFICE OF THE STATE ENGINEER**

**www.ose.state.nm.us**

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 10/29/15)	
FILE NUMBER	C-3932	POD NUMBER	13
LOCATION	245.34E 15.3.2.4	TRN NUMBER	581433
		EXP1	PAGE 1 OF 2



4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
	0	6	6	Light Reddish Brown Fine Sand	Y ✓ N	
	6	13	7	Light Reddish Brown Sand with Caliche	Y ✓ N	
	13	19	6	Light Reddish Brown Fine Sand	Y ✓ N	
	19	29	10	Tan-White Caliche with Light Reddish Brown Sand	Y ✓ N	
	29	39	10	Light Reddish Brown Sand	Y ✓ N	
	39	45	6	Gray to Dark Gray Sand	Y ✓ N	
	45	54	9	Gray-Dark Gray Sand with Sandstone Pebbles	Y ✓ N	
	54	55	1	Dark Reddish Brown to Light Reddish Brown Silty Claystone	Y ✓ N	
	55	58	3	Green to Gray Shale	Y ✓ N	
	58	62	4	Dark Reddish Brown Silty Claystone	Y ✓ N	
	62	74	12	Dark Reddish Brown Claystone	Y ✓ N	
	74	75	1	Light Brown to Gray Silty Clay	Y ✓ N	
	75	77	2	Dark Reddish Brown Claystone	Y ✓ N	
	77	79	2	Light Brown to Gray Silty Clay	Y ✓ N	
	79	80	1	Dark Reddish Brown Claystone	Y ✓ N	
	80	82	2	Light Brown to Gray Sandy Silt	Y ✓ N	
	82	87	5	Dark Reddish Brown Clayey Silt	Y ✓ N	
	87	90	3	Light Brown to Gray Silty Sand	Y N	
					Y N	
					Y N	
					Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:					TOTAL ESTIMATED WELL YIELD (gpm): 0.00	
<input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY:						
5. TEST; RIG SUPERVISION	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: Boring location drilled only as a soil boring and plugged after completion per well plugging plan.					
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:					
6. SIGNATURE	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 20 DAYS AFTER COMPLETION OF WELL DRILLING:					
	 SIGNATURE OF DRILLER / PRINT SIGNEE NAME					2/26/16 DATE

FOR OSE INTERNAL USE

WR-20 WELL RECORD &amp; LOG (Version 06/08/2012)

FILE NUMBER	C-3932	POD NUMBER	13	TRN NUMBER	581433
LOCATION	24S.34E.13.3-2-4			EXPL	PAGE 2 OF 2

Tom Blaine, P.E.  
State Engineer



Roswell Office  
1900 WEST SECOND STREET  
ROSWELL, NM 88201

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

Trn Nbr: 581433  
File Nbr: C 03932  
Well File Nbr: C 03932 POD13

Apr. 12, 2016

ROBERT H. HOLDER  
BRYCE KARGER  
4222 85TH ST.  
LUBBOCK, TX 79423

Greetings:

The above numbered permit was issued in your name on 01/27/2016.

The Well Record was received in this office on 03/01/2016, stating that it had been completed on 02/11/2016, and was a dry well. The well is to be plugged or capped or otherwise maintained in a manner satisfactory to the State Engineer.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 01/14/2017.

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

Sincerely,


Deborah Dunaway  
(575) 622-6521

drywell



# New Mexico Office of the State Engineer

## Point of Diversion Summary


		(quarters are 1=NW 2=NE 3=SW 4=SE)				(quarters are smallest to largest)				(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y		
C	03943 POD1	2	4	2	21	24S	34E	644523	3564266		
x											
Driller License:		1737		Driller Company:			SHADE TREE DRILLING				
Driller Name:		JUSTIN MULLINS									
Drill Start Date:		04/21/2016		Drill Finish Date:			04/24/2016		Plug Date:		
Log File Date:		04/25/2016		PCW Rev Date:			Source:			Shallow	
Pump Type:					Pipe Discharge Size:			Estimated Yield:			5 GPM
Casing Size:		6.00		Depth Well:			610 feet		Depth Water:		431 feet
x											
Water Bearing Stratifications:					Top	Bottom	Description				
					39	431	Sandstone/Gravel/Conglomerate				
x											
Casing Perforations:					Top	Bottom					
					420	480					
x											

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



# New Mexico Office of the State Engineer

## Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)						(quarters are smallest to largest)		(NAD83 UTM in meters)		
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y			
C	02387			1	11	24S	34E	646513	3567613*			
x												
Driller License:				Driller Company:								
Driller Name:				UNKNOWN								
Drill Start Date:				Drill Finish Date:				12/31/1916		Plug Date:		
Log File Date:				PCW Rev Date:				Source:				
Pump Type:				Pipe Discharge Size:				Estimated Yield:		3 GPM		
Casing Size:		6.00		Depth Well:				62 feet		Depth Water:		40 feet
x												


\*UTM location was derived from PLSS - see Help

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

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Search Results -- 1 sites found

Agency code = usgs  
site\_no list =

- 321357103265201

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

USGS 321357103265201 24S.34E.11.112313

Lea County, New Mexico  
Latitude 32°14'16.5", Longitude 103°26'49.0" NAD83  
Land-surface elevation 3,486 feet above NAVD88  
This well is completed in the Other aquifers (N9999OTHER) national aquifer.  
This well is completed in the Ogallala Formation (121OGLL) local 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	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measur
1976-01-21			D 62610		3443.12	NGVD29	1		Z	
1976-01-21			D 62611		3444.74	NAVD88	1		Z	
1976-01-21			D 72019	41.26			1		Z	
1981-03-19			D 62610		3442.47	NGVD29	1		Z	
1981-03-19			D 62611		3444.09	NAVD88	1		Z	
1981-03-19			D 72019	41.91			1		Z	
1986-03-07			D 62610		3442.53	NGVD29	1		Z	
1986-03-07			D 62611		3444.15	NAVD88	1		Z	
1986-03-07			D 72019	41.85			1		Z	
1991-05-30			D 62610		3442.29	NGVD29	1		Z	
1991-05-30			D 62611		3443.91	NAVD88	1		Z	
1991-05-30			D 72019	42.09			1		Z	
1996-03-13			D 62610		3443.45	NGVD29	1		S	
1996-03-13			D 62611		3445.07	NAVD88	1		S	
1996-03-13			D 72019	40.93			1		S	

Date	Time	?	?	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	?
		Water-level date-time accuracy	Parameter code				S
2015-12-19 00:00 UTC	m	62610	3440.47	NGVD29	1	S	USGS
2015-12-19 00:00 UTC	m	62611	3442.09	NAVD88	1	S	USGS
2015-12-19 00:00 UTC	m	72019	43.91		1	S	USGS

Explanation		
Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
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
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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**Title: Groundwater for New Mexico: Water Levels**  
**URL: [https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?](https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?site_no=321357103265201&agency_cd=USGS&format=html)**



Page Contact Information: [New Mexico Water Data Maintainer](#)  
Page Last Modified: 2023-06-14 16:47:13 EDT  
0.29 0.25 nadww02



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USGS Water Resources

Data Category:  
Groundwater

Geographic Area:  
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Search Results -- 1 sites found

Agency code = usgs  
site\_no list =

- 321404103290101

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

USGS 321404103290101 24S.34E.04.33333

Lea County, New Mexico  
Latitude 32°14'04", Longitude 103°29'01" NAD27  
Land-surface elevation 3,571 feet above NAVD88  
This well is completed in the Other aquifers (N9999OTHER) national aquifer.  
This well is completed in the Ogallala Formation (121OGLL) local 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	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement
1955-04-21			D	62610	3502.74	NGVD29	1	Z		
1955-04-21			D	62611	3504.41	NAVD88	1	Z		
1955-04-21			D	72019	66.59		1	Z		

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

Section	Code	Description
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

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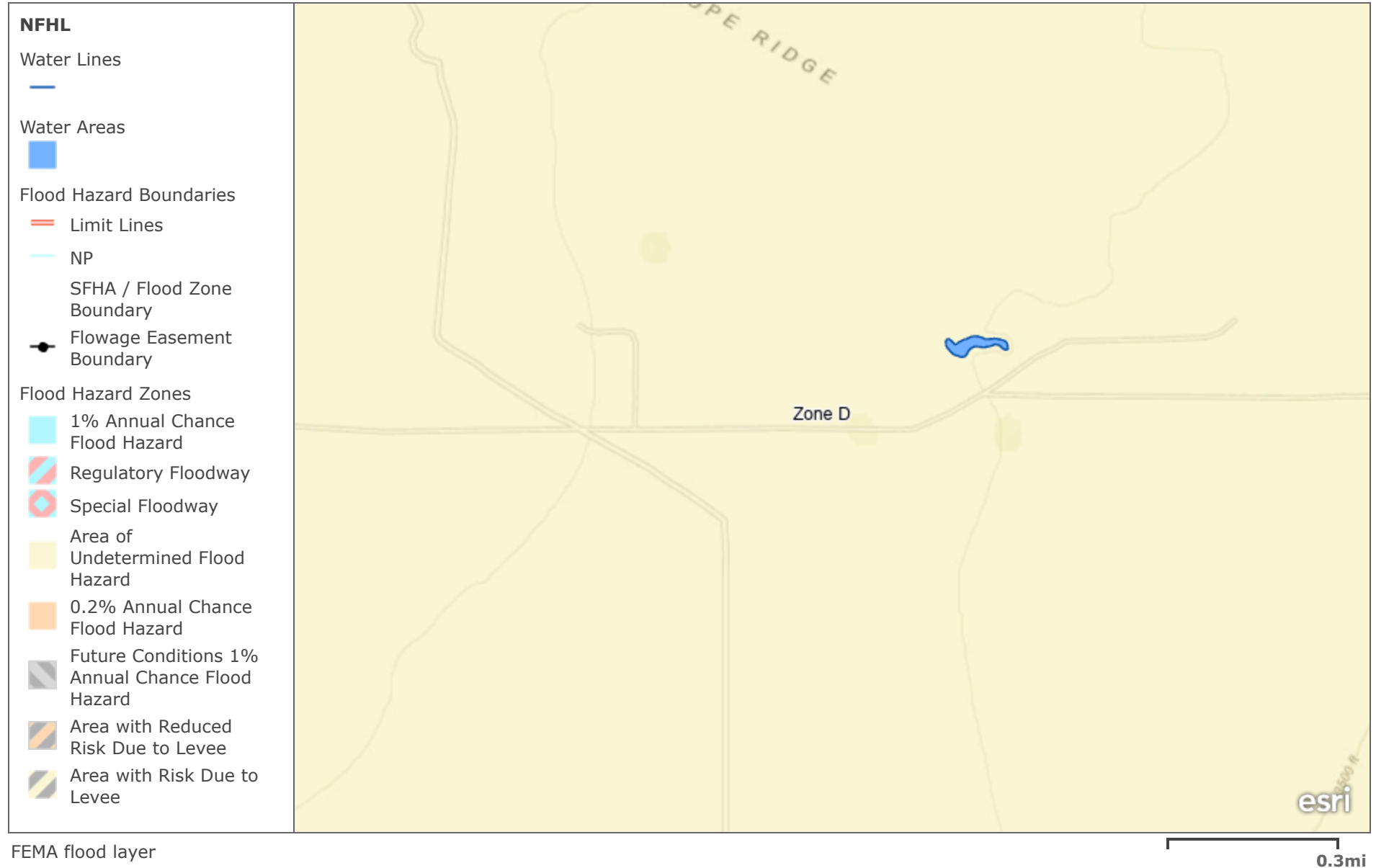
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**Title: Groundwater for New Mexico: Water Levels**  
**URL: <https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?>**



Page Contact Information: [New Mexico Water Data Maintainer](#)  
Page Last Modified: 2023-06-14 16:50:27 EDT  
0.28   0.24 nadww02



## FEMA National Flood Hazard Layer (NFHL)



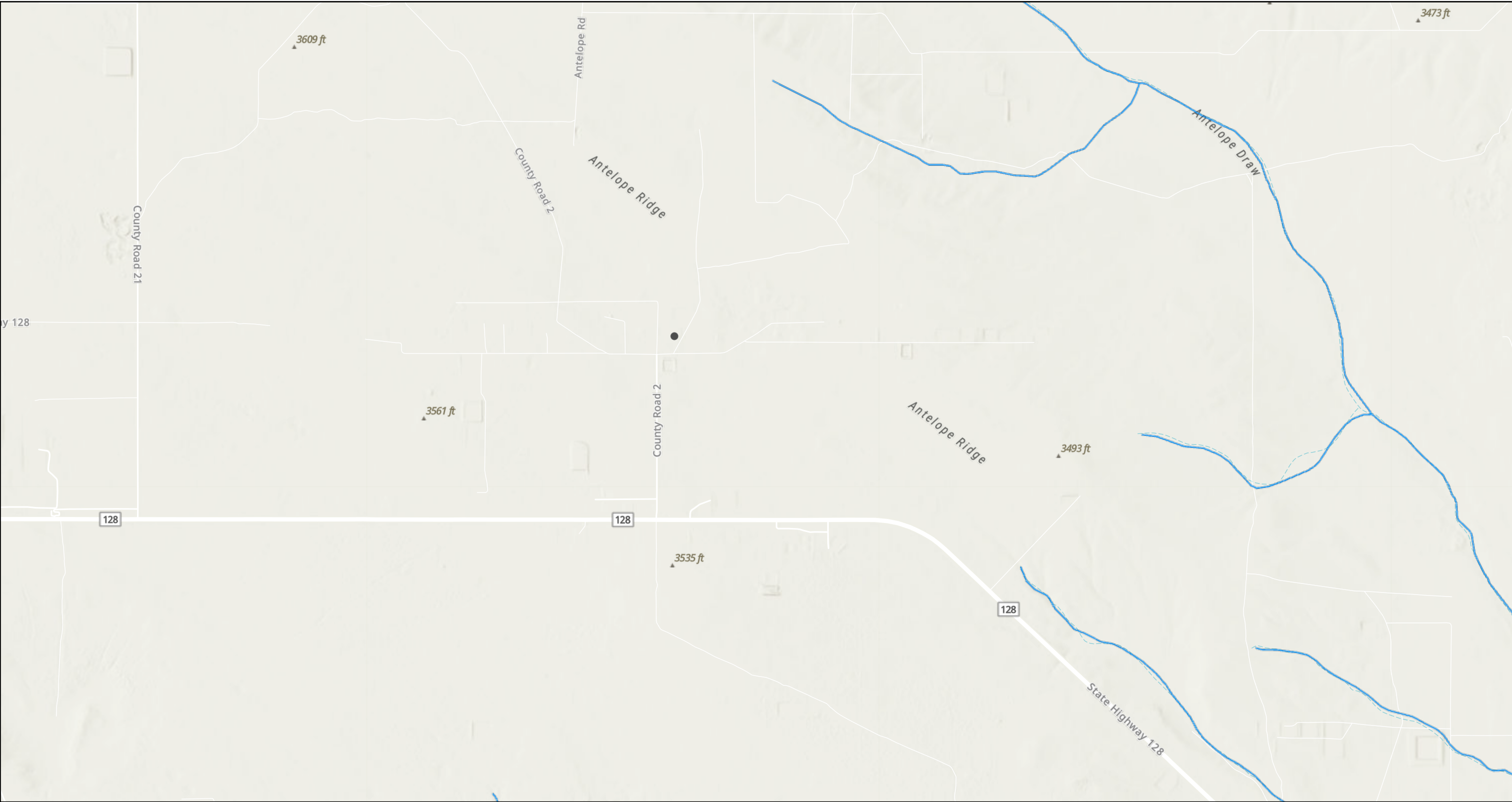
Bureau of Land Management, Texas Parks & Wildlife, Esri, HERE, Garmin, INCREMENT P, USGS, METI/NASA, EPA, USDA

## FEMA National Flood Hazard Layer (NFHL)



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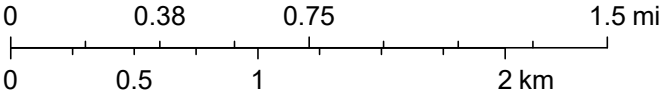
# FLOWMASTER FEE 367 TB (08.05.2024)



8/12/2024, 8:43:14 AM

— OSE Streams

1:36,112



Esri, NASA, NGA, USGS, FEMA, Texas Parks & Wildlife, CONANP, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, USFWS, NM OSE

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**District III**  
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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 378089

QUESTIONS

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID:	372098
	Action Number:	378089
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2422154552
Incident Name	NAPP2422154552 FLOWMASTER FEE 367 TB @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Facility	[fAPP2125248380] FLOWMASTER FEE 367 TB

Location of Release Source	
Please answer all the questions in this group.	
Site Name	FLOWMASTER FEE 367 TB
Date Release Discovered	08/05/2024
Surface Owner	Private

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   Other (Specify)   Produced Water   Released: 49 BBL   Recovered: 49 BBL   Lost: 0 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 fluid was contained inside of lined secondary containment. A sight glass on a separator failed resulting in the release.



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QUESTIONS, Page 2

Action 378089

**QUESTIONS (continued)**

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID:	372098
	Action Number:	378089
	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: (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: Cody Swanson Steege Title: Compliance Supervisor Email: swansonste@marathonoil.com Date: 08/27/2024
--	--

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**Santa Fe, NM 87505**

QUESTIONS, Page 3

Action 378089

**QUESTIONS (continued)**

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID:	372098
	Action Number:	378089
	Action Type:	[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	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 500 and 1000 (ft.)
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	Low
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	08/15/2024
On what date will (or did) the final sampling or liner inspection occur	08/15/2024
On what date will (or was) the remediation complete(d)	08/15/2024
What is the estimated surface area (in square feet) that will be remediated	0
What is the estimated volume (in cubic yards) that will be remediated	0
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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**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

QUESTIONS, Page 4

Action 378089

**QUESTIONS (continued)**

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID:	372098
	Action Number:	378089
	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: Cody Swanson Steege Title: Compliance Supervisor Email: swansonste@marathonoil.com Date: 08/27/2024
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*The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.*

**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**

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QUESTIONS, Page 6

Action 378089

**QUESTIONS (continued)**

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID:	372098
	Action Number:	378089
	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	373010
Liner inspection date pursuant to Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC	08/15/2024
Was all the impacted materials removed from the liner	Yes
What was the liner inspection surface area in square feet	13310

**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	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	Yes
What was the total surface area (in square feet) remediated	0
What was the total volume (cubic yards) remediated	0
Summarize any additional remediation activities not included by answers (above)	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.

*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: Cody Swanson Steege Title: Compliance Supervisor Email: swansonste@marathonoil.com Date: 08/29/2024
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CONDITIONS  
  
Action 378089

CONDITIONS

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 378089
	Action Type: [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 #NAPP2422154552 FLOWMASTER FEE 367 TB, thank you. This Remediation Closure Report is approved.	9/23/2024