

### SITE INFORMATION

Closure Report
Cass 16 State 234 TB
Incident ID: nAPP2503421375
Unit E Sec 16 T23S R27E
32.307082°, -104.204353°
Eddy County, New Mexico

Produced Water Release

Point of Release: Equipment Failure

Release Date: 02.02.2025

Volume Released: 5 Barrels of Produced Water Volume Recovered: 5 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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NMOCD CORRESPONDENCE

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February 26, 2025

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

**Re:** Closure Report

Cass 16 State 234 TB Marathon Oil Corporation Incident ID: nAPP2503421375

Site Location: Unit E, S16, T23S, R27E (Lat 32.307082°, Long -104.204353°)

**Eddy County, New Mexico** 

#### Mr. Bratcher:

On behalf of Marathon Oil Corporation, Carmona Resources, LLC has prepared this letter to document the Cass 16 State 234 TB site activities. The site is located at 32.307082°, -104.204353° within Unit E, S16, T23S, R27E, in Eddy County, New Mexico (Figures 1 and 2).

### 1.0 Site Information and Background

Based on the Notice of Release obtained from the New Mexico Oil Conservation Division (NMOCD), the incident was discovered on February 2, 2025, due to equipment failure from a loose packing. This equipment failure resulted in produced water being released inside the secondary containment. The incident released approximately five (5) barrels of produced water, with five (5) barrels of produced water recovered. All fluids were contained within the lined facility. See Figure 3. The Notice of Release form is attached in Appendix B.

### 2.0 Site Characterization and Groundwater

The site is located within a high 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 nearest well is located approximately 0.80 miles North of the site in S09, T23S, R37E and was drilled in 2017. The well has a reported groundwater depth of 150' 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

Prior to the liner inspection, the NMOCD division office was notified via web portal on February 5, 2025, per Subsection D of 19.15.29.12 NMAC. The NMSLO was notified via email. The correspondence with



both state agencies can be found in Appendix B. After thoroughly cleaning the plastic liner, Carmona Resources personnel inspected it to assess its structural integrity. On February 7, 2025, Carmona Resources, LLC conducted the liner inspection activities and confirmed that the liner was intact with no integrity issues. Refer to the Photolog for details.

### **5.0 Conclusions**

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

Sincerely,

Carmona Resources, LLC

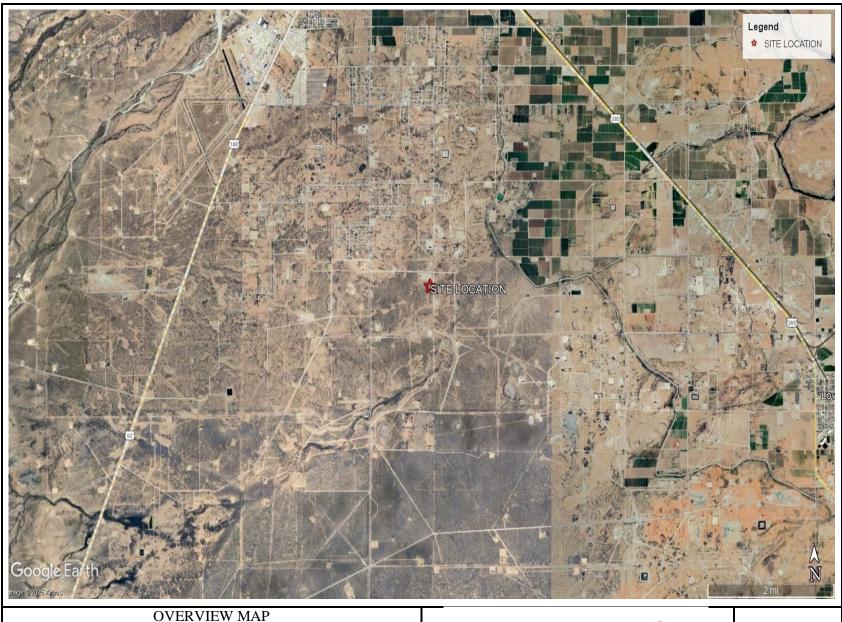
Conner Moehring

**Environmental Manager** 

Ashton Thielke Sr. Project Manager

### **FIGURES**

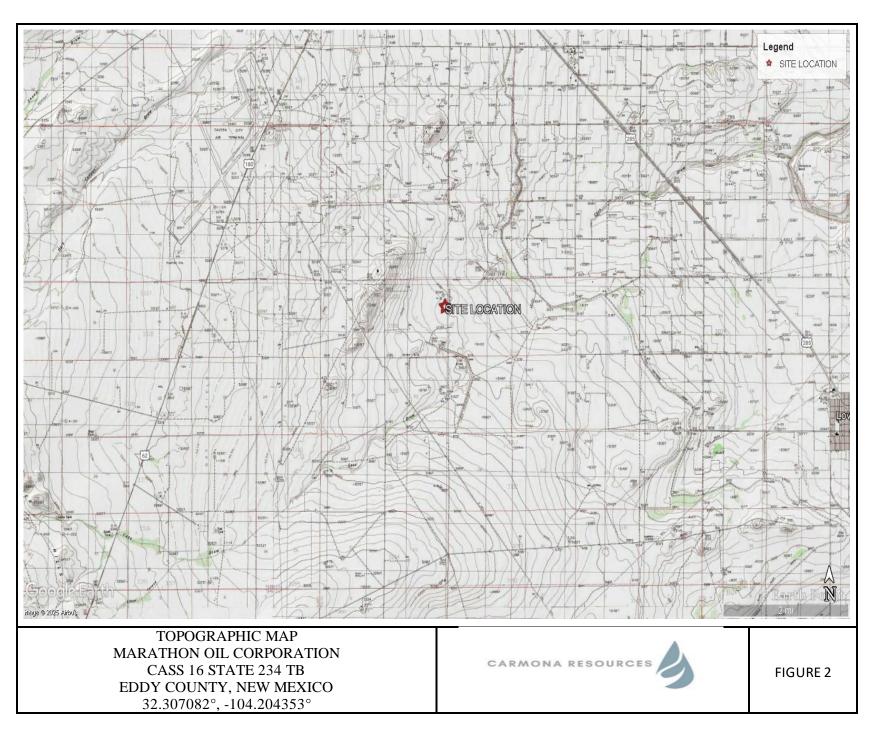
# CARMONA RESOURCES



MARATHON OIL CORPORATION CASS 16 STATE 234 TB EDDY COUNTY, NEW MEXICO 32.307082°, -104.204353°



FIGURE 1





MARATHON OIL CORPORATION CASS 16 STATE 234 TB EDDY COUNTY, NEW MEXICO 32.307082°, -104.204353°



FIGURE 3

### **APPENDIX A**

# CARMONA RESOURCES

### PHOTOGRAPHIC LOG

### **Marathon Oil Corporation**

### Photograph No. 1

Facility: Cass 16 State 234 TB

County: Eddy County, New Mexico

### **Description:**

View Southwest of the intact liner. Red outline is the area of the liner inspection.



### Photograph No. 2

Facility: Cass 16 State 234 TB

County: Eddy County, New Mexico

### **Description:**

View Southwest of the intact liner. Red outline is the area of the liner inspection.



### Photograph No. 3

Facility: Cass 16 State 234 TB

County: Eddy County, New Mexico

### **Description:**

View Southwest of the intact liner. Red outline is the area of the liner inspection.



### **APPENDIX B**

# CARMONA RESOURCES

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS

Action 427371

### **QUESTIONS**

ı	Operator:	OGRID:
ı	MARATHON OIL PERMIAN LLC	372098
ı	990 Town & Country Blvd.	Action Number:
ı	Houston, TX 77024	427371
ı		Action Type:
ı		[NOTIFY] Notification Of Release (NOR)

#### QUESTIONS

Location of Release Source	
Please answer all the questions in this group.	
Site Name	CASS 16 STATE 234 TB
Date Release Discovered	02/02/2025
Surface Owner	State

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

Nature and Volume of Release		
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.		
Crude Oil Released (bbls) Details	Not answered.	
Produced Water Released (bbls) Details	Cause: Equipment Failure   Pump   Produced Water   Released: 5 BBL   Recovered: 5 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)	The recycle pump packing became loose resulting in a produced water release. All fluids were contained in lined secondary containment.	

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

QUESTIONS, Page 2

Action 427371

QUESTIONS	(continued)
WOLU I O I O	(COHUH IUCU)

Operator.	OGNID.
MARATHON OIL PERMIAN LLC	372098
990 Town & Country Blvd.	Action Number:
Houston, TX 77024	427371
	Action Type:
	[NOTIFY] Notification Of Release (NOR)

#### QUESTIONS

ation must be supplied to determine if this will be treated as a "gas
itted on the C-129 form.
-

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

ACKNOWLEDGMENTS

Action 427371

### **ACKNOWLEDGMENTS**

Operator:	OGRID:
MARATHON OIL PERMIAN LLC	372098
990 Town & Country Blvd.	Action Number:
Houston, TX 77024	427371
	Action Type:
	[NOTIFY] Notification Of Release (NOR)

#### **ACKNOWLEDGMENTS**

$\overline{\lor}$	I acknowledge that I am authorized to submit notification of a release on behalf of my operator.
<b>V</b>	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.
V	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.
V	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.
V	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.
V	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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# State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

CONDITIONS

Action 427371

#### **CONDITIONS**

Operator:	OGRID:
MARATHON OIL PERMIAN LLC	372098
990 Town & Country Blvd.	Action Number:
Houston, TX 77024	427371
	Action Type:
	[NOTIFY] Notification Of Release (NOR)

#### CONDITIONS

Created By		Condition Date
cswansonsteege	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.	

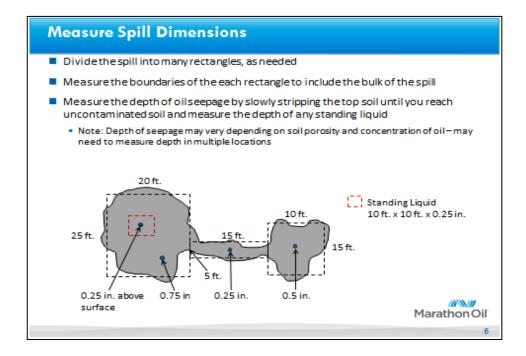
### **MRO Spill Calculation Tool**

Standing Liquid Inputs:							
Standing Liquid inputs.		Width (ft.) (Area					
		for	Avg. Liquid		Total Volume	Water Volume	Oil Volume
	Length (ft.)	Displacement)	Depth (in.)	% Oil	(bbls)	(bbls)	(bbls)
Rectangle Area #1	30	45	0.25		5.01	5.01	0.00
Rectangle Area #2					0.00	0.00	0.00
Rectangle Area #3					0.00	0.00	0.00
Rectangle Area #4					0.00	0.00	0.00
Rectangle Area #5					0.00	0.00	0.00
Rectangle Area #6					0.00	0.00	0.00
Vessel Displacement					0.00	0.00	0.00
Vessel Displacement					0.00	0.00	0.00
_				Liquid Volume:	5.01	5.01	0.00
				•			
				_			
Saturated Soil Inputs:		Soil Type:	Gravel Loam				
		Width (ft.) /	Avg. Saturated	-	<b>Total Volume</b>	Water Volume	Oil Volume
	Length (ft.)	(SQ Ft)	Depth (in.)	% Oil	(bbls)	(bbls)	(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	Water Volume	Oil Volume
				_	(bbls)	(bbls)	(bbls)
				oill Volume (bbls):	5.01	5.01	0.00
			Total Sp	oill Volume (gals):	210.39	210.39	0.00
Comments:							
			Color Key:	Required Input	Supplemental	No Input	No Input
				Cells	Input Cells	(Calculations)	no input
		Gro	und/Vegetatio	on Overspray			
Cover Type		Microns	Approximate De	epth (in)			
Ground							
Dull Color		10	0.00003281				
Dark Color		50	0.00016404				
		1					

1/8"

1/4" 1/2"

3/4"



Number of Tanks Area of Displacement (Ft2)

12 2256

0.125

0.25

0.5

0.75

Clay Loam Gravel or Sand Gravel Loam Sandy Clay Loam 0.16

0.08

0.14

0.14

Released to Imaging: 2/28/2025/21321564PM

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS

Action 428535

### **QUESTIONS**

ı	Operator:	OGRID:
ı	MARATHON OIL PERMIAN LLC	372098
ı	990 Town & Country Blvd.	Action Number:
ı	Houston, TX 77024	428535
ı		Action Type:
ı		[NOTIFY] Notification Of Liner Inspection (C-141L)

#### QUESTIONS

Prerequisites					
Incident ID (n#)	nAPP2503421375				
Incident Name	NAPP2503421375 CASS 16 STATE 234 TB @ 0				
Incident Type	Produced Water Release				
Incident Status	Initial C-141 Approved				
Incident Facility	[fAPP2125249869] CASS 16 STATE 234 TB				

Location of Release Source					
Site Name	CASS 16 STATE 234 TB				
Date Release Discovered	02/02/2025				
Surface Owner	State				

Liner Inspection Event Information							
Please answer all the questions in this group.							
What is the liner inspection surface area in square feet	1,350						
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	02/07/2025						
Time liner inspection will commence	03:30 PM						
Please provide any information necessary for observers to liner inspection	Conner Moehring - 432.813.6823						
Please provide any information necessary for navigation to liner inspection site	32.3065857 -104.2022462						

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

CONDITIONS

Action 428535

#### **CONDITIONS**

Operator:	OGRID:
MARATHON OIL PERMIAN LLC	372098
990 Town & Country Blvd.	Action Number:
Houston, TX 77024	428535
	Action Type:
	[NOTIFY] Notification Of Liner Inspection (C-141L)

### CONDITIONS

С	Created By		Condition Date
	cmoehring	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.	2/5/2025

### **Conner Moehring**

From: Conner Moehring

**Sent:** Wednesday, February 5, 2025 11:20 AM

To: eco@nmslo.gov

**Cc:** swansonste@marathonoil.com; Mike Carmona; Stephen Reyes; Ivan Ramos; PaulB **Subject:** Liner Inspection Notification - Marathon - Cass 16 State 234 TB - nAPP2503421375 -

02/02/2025

### Good Morning,

We wanted to inform the NMSLO that we will be conducting a liner inspection at the Cass 16 State 234 TB. The liner inspection will be cleaned, and all impacted material has been removed from the falcon-lined facility prior to the inspection. The inspection will occur on Friday, February 7. 2025, at approximately 3:30 pm (MT). The site location GPS is 32.3065857 -104.2022462, and the approximate area of concern is 1,350 square feet.

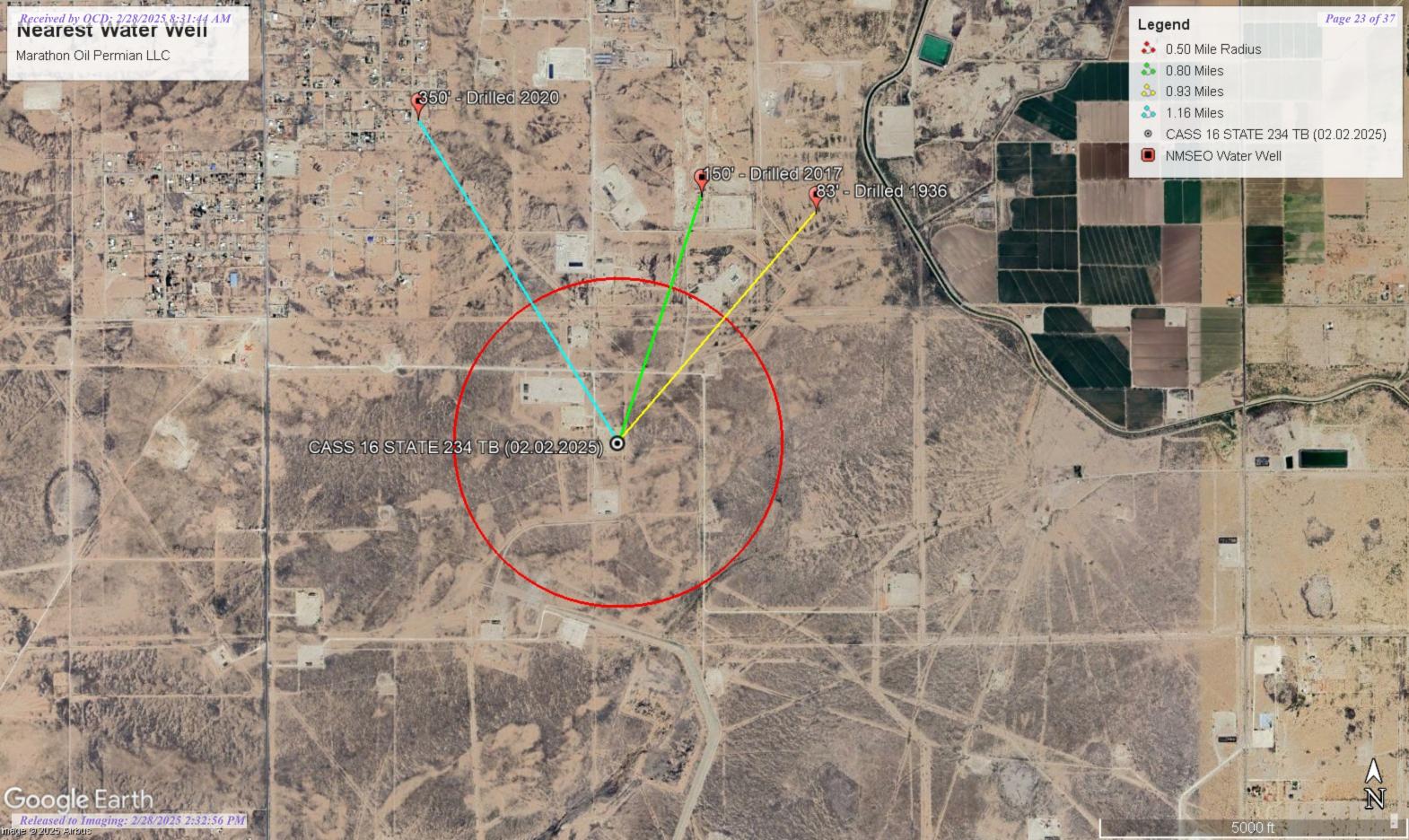
Please call me if you have any questions or need any additional information.

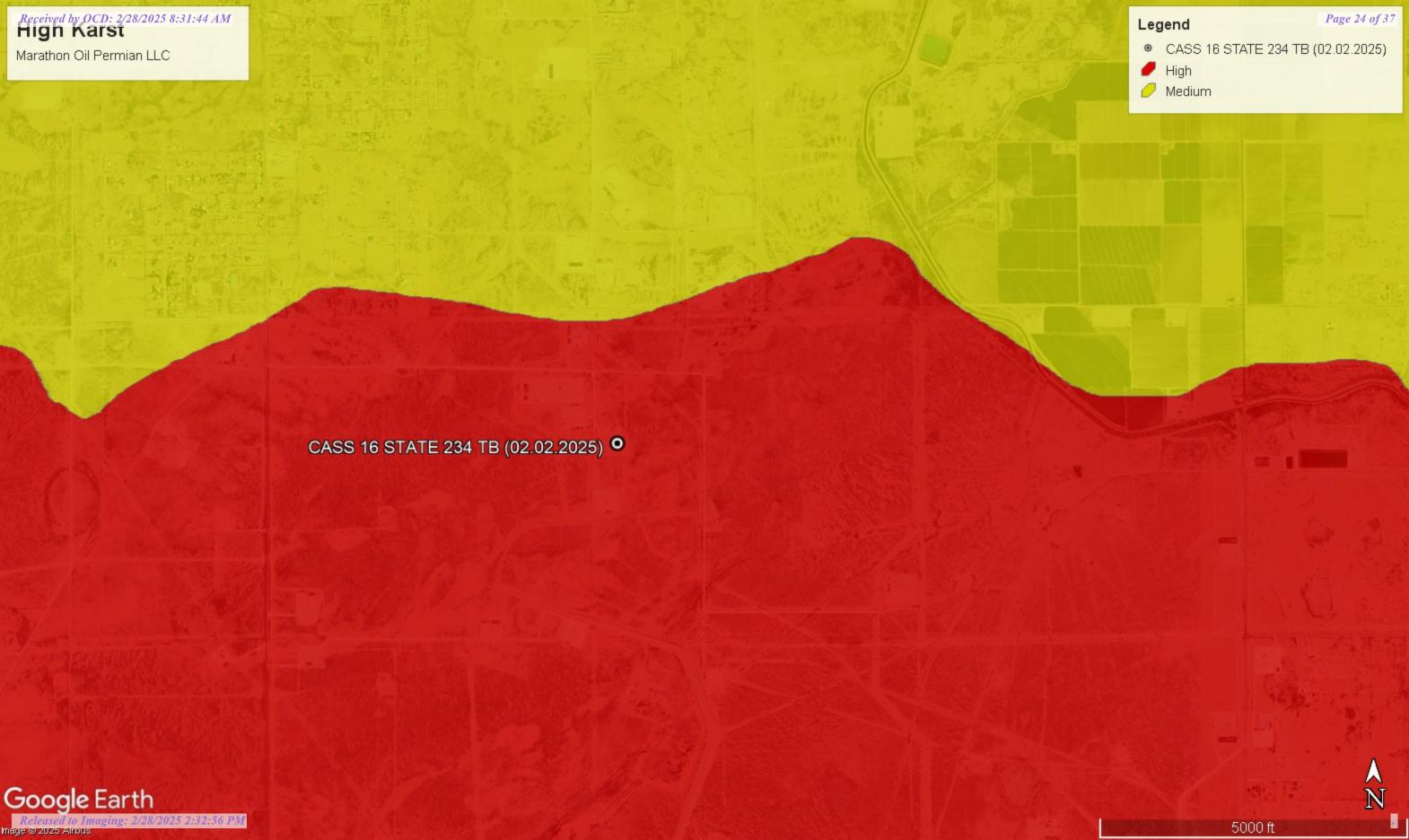
Conner R. Moehring 310 West Wall Street, Suite 500 Midland TX, 79701 M: 432-813-6823

cmoehring@carmonaresources.com

### **APPENDIX C**

# CARMONA RESOURCES







## 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

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

(quarters are smallest to largest) (NAD83 UTM in meters)

(In fact)

water right file.)	close	d)	(	qua	rter	s a	re sr	malles	st to lar	gest) (	NAD83 UTM i	n meters)		(	In feet)	
		POD Sub-		Q	Q	Q								Depth	Depth	Water
POD Number	Code	basin	County		-	-	Sec	Tws	Rng	)	( Y	Dista	nce	_	_	Column
C 04044 POD1		CUB	ED	3	2	3	09	23S	27E	57550	4 3575907	<b>)</b>	274	290	150	140
C 00195		CUB	ED	4	1	4	09	23S	27E	57606	9 3575827*	<b>)</b>	487	128	83	45
C 04429 POD1		С	ED	4	4	1	80	23S	27E	57410	2 3576270	<b>)</b>	863	400	350	50
C 04581 POD1		С	ED	3	1	1	09	23S	27E	57516	7 3576589	<b>)</b>	892	165	109	56
C 01261		CUB	ED				21	23S	27E	57578	3572889*	<b>)</b>	932	250		
C 01618		С	ED	4	4	4	07	23S	27E	57325	2 3575384*	<b>)</b>	972	250		
C 00420	С	CUB	ED		4	2	09	23S	27E	57637	3576337*	<b>)</b> 2	2072	2151		
C 00508 CLW225089	Ο	CUB	ED	4	1	3	10	23S	27E	57687	7 3575839*	<b>)</b> 2	2110	234	28	206
C 00623		С	ED		2	1	15	23S	27E	57718	9 3575142*	<b>)</b> 2	2134	200		
C 03005		С	ED	3	4	4	07	23S	27E	57305	2 3575384*	<b>)</b> 2	2160	140	100	40
C 00068 CLW193190	0	CUB	ED	3	3	1	10	23S	27E	57667	3 3576241*	2	2202	175		
C 00508 S		CUB	ED	2	1	3	10	23S	27E	57687	7 3576039*	2	2225	234	28	206
C 01071		С	ED			1	80	23S	27E	57375	1 3576499*	2	2250	279	95	184
C 02191		С	ED			1	80	23S	27E	57375	1 3576499*	<b>🌓</b> 2	2250	252	75	177
C 00187		С	ED	1	1	4	15	23S	27E	57738	3574509	<b>🌓</b> 2	2287	210	125	85
C 01632		С	ED	3	2	4	07	23S	27E	57305	3575789*	<b>🌼</b> 2	2323	162	100	62
C 01632 CLW197648	0	С	ED	3	2	4	07	23S	27E	57305	3575789*	<b>🌼</b> 2	2323	162	100	62
C 01632 POD2		С	ED	3	2	4	07	23S	27E	57305	3575789*	<b>🌓</b> 2	2323	173	100	73
C 00068		CUB	ED	1	3	1	10	23S	27E	57667	3 3576441*	<b>🌓</b> 2	2347	175		
C 03892 POD1		С	ED	1	2	1	80	23S	27E	57384	3576764	<b>🌓</b> 2	2417	148	54	94
C 00323		С	ED		4	4	05	23S	27E	57475	3577122*	<b>🌓</b> 2	2449	200		
<u>C 02711</u>		С	ED		4	4	05	23S	27E	57475	3577122*	2	2449	170	75	95
<u>C 03020</u>		С	ED		4	4	05	23S	27E	57475	3577122*	<b>🌼</b> 2	2449	176	135	41
<u>C 02510</u>		С	ED	1	2	1	80	23S	27E	57384	3576806*	2	2452	350	350	0
C 03799 POD1		С	ED	1	3	3	04	23S	27E	57498	1 3577170	2	2475	200	51	149

\*UTM location was derived from PLSS - see Help

(A CLW#### in the POD suffix indicates the POD has been replaced & no longer serves a

water right file.)

**POD Number** 

(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)

X

(In feet)

Depth Depth Water

**POD** 

Sub-QQQ

Code basin County 64 16 4 Sec Tws Rng

**Distance Well Water Column** Average Depth to Water:

117 feet

Minimum Depth: 28 feet

Maximum Depth: 350 feet

Record Count: 25

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

Easting (X): 575101 Northing (Y): 3574698 Radius: 2500



### 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

C 04044 POD1

23S 27E

575504 3575907

**Driller License: 331** 

**Driller Company:** 

SBQ2, LLC DBA STEWART BROTHERS DRILLING

CO.

**Driller Name:** 

04/21/2017

**Drill Finish Date:** 

04/22/2017

**Plug Date:** 

**Estimated Yield:** 

**Drill Start Date:** Log File Date:

05/16/2017

**PCW Rcv Date:** 

**Depth Well:** 

Source:

Shallow

**Pump Type:** 

**Casing Size:** 

Pipe Discharge Size:

290 feet

**Depth Water:** 

150 feet

Water Bearing Stratifications:

8.60

Top **Bottom** 

100

Description

Sandstone/Gravel/Conglomerate

**Casing Perforations:** 

**Bottom** Top

150

290

18408

Gallons

Meter Make:

**OCTAVE** 

Meter Serial Number: 16-3-026520

Meter Multiplier:

**Reading Frequency:** 

100.0000 Diversion

**Number of Dials:** 

**Meter Type:** 

Unit of Measure: **Usage Multiplier:** 

**Meter Number:** 

**Return Flow Percent:** 

Monthly

**Meter Readings (in Acre-Feet)** 

Read Date Year Mtr Reading Flag

**Rdr Comment** 

Mtr Amount Online

11/29/2019

2019

3057884

**RPT** 

2019

\*\*YTD Meter Amounts: Year

Amount

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.

0

11/20/23 7:02 AM

POINT OF DIVERSION SUMMARY



### New Mexico Office of the State Engineer

### **Point of Diversion Summary**

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag POD Number

**Q64 Q16 Q4 Sec Tws Rng** 4 1 4 09 23S 27E X Y

C 00195

576069 3575827\*

4

**Driller License:** 

**Driller Company:** 

**Driller Name:** 

FRANK GENTRY

**Drill Start Date:** 

**Drill Finish Date:** 

12/31/1936

Plug Date:

Shallow

**Log File Date:** 

**PCW Rcv Date:** 

10/16/1950

Source: Sha

Pump Type:

Pipe Discharge Size:

T. 4

Estimated Yield: 1500 GPM

**Casing Size:** 

10.00

Depth Well:

128 feet

Depth Water:

83 feet

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

11/20/23 7:04 AM

POINT OF DIVERSION SUMMARY

<sup>\*</sup>UTM location was derived from PLSS - see Help



## 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

 $\mathbf{X}$ Y

2242D C 04429 POD1 23S 27E

574102 3576270

**Driller License:** VANGUARD WELL RESOURCES, LLC 1753 **Driller Company:** 

**Driller Name:** FRIESSEN, JACOBONTEE.NER

**Drill Start Date:** 04/27/2020 **Drill Finish Date:** 

05/04/2020

Plug Date:

Shallow

Log File Date:

08/24/2020

**PCW Rcv Date:** 

Source:

**Pump Type:** 

Pipe Discharge Size:

**Estimated Yield:** 

**Casing Size:** 

5.00 Depth Well:

400 feet

**Depth Water:** 

350 feet

**Casing Perforations:** 

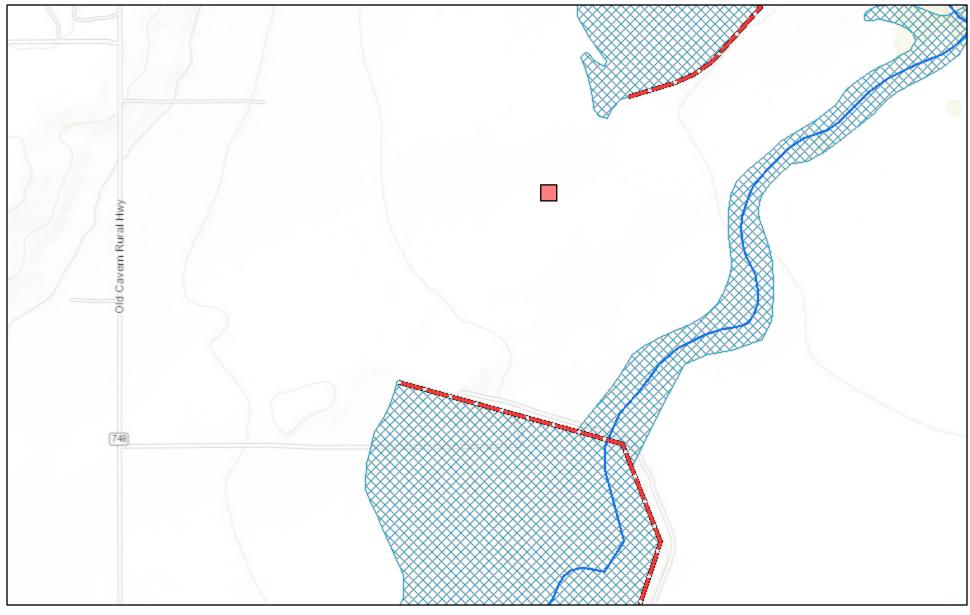
**Bottom** Top 320 400

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

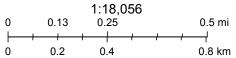
11/20/23 7:05 AM

POINT OF DIVERSION SUMMARY

### New Mexico NFHL Data

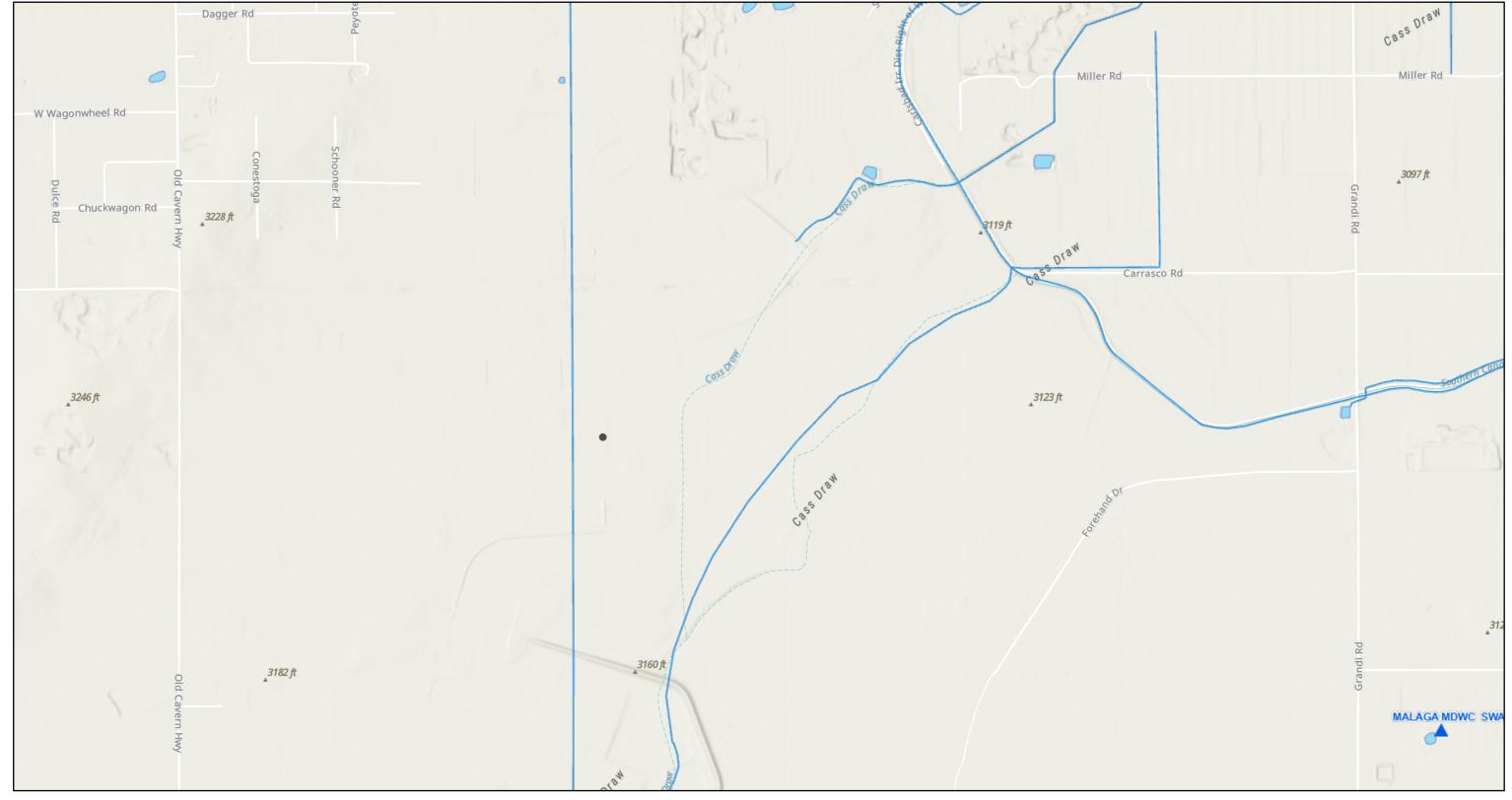


November 20, 2023



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

## CASS 16 STATE 234 TB (07.30.2024)

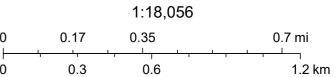


8/5/2024, 8:50:04 AM

OSW Water Bodys

OSE Streams

NMED Drinking Water Systems



Esri, NASA, NGA, USGS, FEMA, Esri Community Maps Contributors, New Mexico State University, Texas Parks & Wildlife, CONANP, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, USFWS, NM OSE

Sante Fe Main Office Phone: (505) 476-3441 General Information

Phone: (505) 629-6116
Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS

Action 436982

### **QUESTIONS**

	Operator:	OGRID:
	MARATHON OIL PERMIAN LLC	372098
990 Town & Country Blvd.		Action Number:
	Houston, TX 77024	436982
		Action Type:
		[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

### QUESTIONS

Prerequisites						
Incident ID (n#)	nAPP2503421375					
Incident Name	NAPP2503421375 CASS 16 STATE 234 TB @ 0					
Incident Type	Produced Water Release					
Incident Status	Remediation Closure Report Received					
Incident Facility	[fAPP2125249869] CASS 16 STATE 234 TB					

Location of Release Source					
Please answer all the questions in this group.					
Site Name	CASS 16 STATE 234 TB				
Date Release Discovered	02/02/2025				
Surface Owner	State				

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

Nature and Volume of Release		
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.		
Crude Oil Released (bbls) Details  Not answered.		
Produced Water Released (bbls) Details	Cause: Equipment Failure   Pump   Produced Water   Released: 5 BBL   Recovered: 5 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)	The recycle pump packing became loose resulting in a produced water release. All fluids were contained in lined secondary containment.	

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

QUESTIONS, Page 2

Action 436982

QUESTIONS	(continued)
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QUESTI	ONS (continued)
Operator:  MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098  Action Number: 436982  Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)
QUESTIONS	
Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	More info needed to determine if this will be treated as a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e.	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 s	afety 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.
	ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for releathe OCD does not relieve the operator of liability should their operations have failed to a	knowledge and understand that pursuant to OCD rules and regulations all operators are required asses which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Cody Swanson Steege Title: Compliance Supervisor Email: swansonste@marathonoil.com

Date: 02/03/2025

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

QUESTIONS, Page 3

Action 436982

**QUESTIONS** (continued)

Operator:	OGRID:
MARATHON OIL PERMIAN LLC	372098
990 Town & Country Blvd.	Action Number:
Houston, TX 77024	436982
	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 approva release discovery date.	l and beyond). This information must be provided to the appropriate district office no later than 90 days after the
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (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
What is the minimum distance, between the closest lateral extents of the release ar	nd the following surface areas:
A continuously flowing watercourse or any other significant watercourse	Between 1000 (ft.) and ½ (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1000 (ft.) and ½ (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1000 (ft.) and ½ (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1000 (ft.) and ½ (mi.)
Any other fresh water well or spring	Between 1000 (ft.) and ½ (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1000 (ft.) and ½ (mi.)
A wetland	Between 1000 (ft.) and ½ (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Zero feet, overlying, or within area
Categorize the risk of this well / site being in a karst geology	High
A 100-year floodplain	Between 1000 (ft.) and ½ (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 t	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 complet which includes the anticipated timelines for beginning and completing the remediation.	ed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,	
On what estimated date will the remediation commence	02/07/2025	
On what date will (or did) the final sampling or liner inspection occur	02/07/2025	
On what date will (or was) the remediation complete(d)	02/07/2025	
What is the estimated surface area (in square feet) that will be remediated	1350	
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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# State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

QUESTIONS, Page 4

Action 436982

QUESTIONS (continued)

Operator:	OGRID:
MARATHON OIL PERMIAN LLC	372098
990 Town & Country Blvd.	Action Number:
Houston, TX 77024	436982
	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)	No
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,	

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: 02/28/2025

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

QUESTIONS, Page 6

Action 436982

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QUESTI	ONS (continued)
Operator:  MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098 Action Number: 436982 Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)
QUESTIONS	
Liner Inspection Information	
Last liner inspection notification (C-141L) recorded	428535
Liner inspection date pursuant to Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC	02/07/2025
Was all the impacted materials removed from the liner	Yes
What was the liner inspection surface area in square feet	1350
Remediation Closure Request  Only answer the questions in this group if seeking remediation closure for this release because all re  Requesting a remediation closure approval with this submission	emediation steps have been completed.  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	1350
What was the total volume (cubic yards) remediated	0
Summarize any additional remediation activities not included by answers (above)	none
	Liclosure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents
to report and/or file certain release notifications and perform corrective actions for release the OCD does not relieve the operator of liability should their operations have failed to a water, human health or the environment. In addition, OCD acceptance of a C-141 report	knowledge and understand that pursuant to OCD rules and regulations all operators are required isses which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or fally restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed no 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: 02/28/2025

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

CONDITIONS

Action 436982

#### **CONDITIONS**

Operator:	OGRID:
MARATHON OIL PERMIAN LLC	372098
990 Town & Country Blvd.	Action Number:
Houston, TX 77024	436982
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

### CONDITIONS

Creat By	d Condition	Condition Date
nvel	Liner inspection approved, release resolved.	2/28/2025