



SITE INFORMATION

Closure Report
Nighthawk State Com #001H
Incident ID: nAPP2414369183
Unit D Sec 29 T18S R35E
32.725471°, -103.486557°
Lea County, New Mexico

Produced Water Release

Point of Release: Equipment failure inside the secondary containment on the flow line

Release Date: 05.22.24

Volume Released: 9 Barrels of Produced Water

Volume Recovered: 9 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



TABLE OF CONTENTS

1.0 SITE INFORMATION AND BACKGROUND

2.0 SITE CHARACTERIZATION AND GROUNDWATER

3.0 NMAC REGULATORY CRITERIA

4.0 LINER INSPECTION ACTIVITIES

5.0 CONCLUSIONS

FIGURES

FIGURE 1 OVERVIEW FIGURE 2 TOPOGRAPHIC

FIGURE 3 SECONDARY CONTAINMENT MAP

APPENDICES

APPENDIX A PHOTOS

APPENDIX B N.O.R AND FINAL C-141/NMOCD CORRESPONDENCE

APPENDIX C SITE CHARACTERIZATION AND GROUNDWATER



July 1, 2024

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

Re: Closure Report
Nighthawk State Com 1H
Marathon Oil Corporation
Incident ID: nAPP2414369183
Site Location: Unit D, S29, T18S, R35E
(Lat 32.725471°, Long -103.486557°)
Lea County, New Mexico

To whom it may concern:

On behalf of Marathon Oil Corporation, Carmona Resources, LLC has prepared this letter to document the Nighthawk State Com #0011H site activities. The site is located at 32.725471°, -103.486557° within Unit D, S29, T18S, R35E, in Lea 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 May 22, 2024, due to equipment failure inside the secondary containment. The incident released approximately nine (9) barrels of produced water, with nine (9) 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 low karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, there is one known water sources within a 0.50-mile radius of the location. The nearest well is located approximately 0.35 miles south of the site in S29, T18S, R35E and was drilled in 1961. The well has a reported groundwater depth of 95' feet below the ground surface (ft bgs). A copy of the associated point of diversion is attached in Appendix C.

On August 15, 2023, Carmona Resources personnel were onsite to drill a groundwater determination bore to 55' bgs, which is approximately 0.44 miles East of the release point. The bore was left open for 72 hours and tagged with a water level meter. No water was detected at 55' below the surface. The coordinates for the groundwater determination bore are 32.726286°, -103.479090°. See Appendix C for the driller's log.

3.0 NMAC Regulatory Criteria

Per the NMOCD regulatory criteria established in 19.15.29.12 NMAC, the following criteria were utilized in assessing the site.

- Benzene: 10 milligrams per kilogram (mg/kg).
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg.
- TPH: 100 mg/kg (GRO + DRO + MRO).
- Chloride: 600 mg/kg.



4.0 Liner Inspection Activities

On June 5, 2024, Carmona Resources, LLC conducted liner inspection activities to assess the liner's integrity within the facility. Prior to the liner inspection, the NMOCD division office was notified via web portal on June 2, 2024, per Subsection D of 19.15.29.12 NMAC. See Appendix B. Carmona Resources, LLC personnel inspected the liner visually and found it to be intact with no integrity issues. Refer to the Photolog listed 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 432-813-1992.

Sincerely,

Carmona Resources, LLC

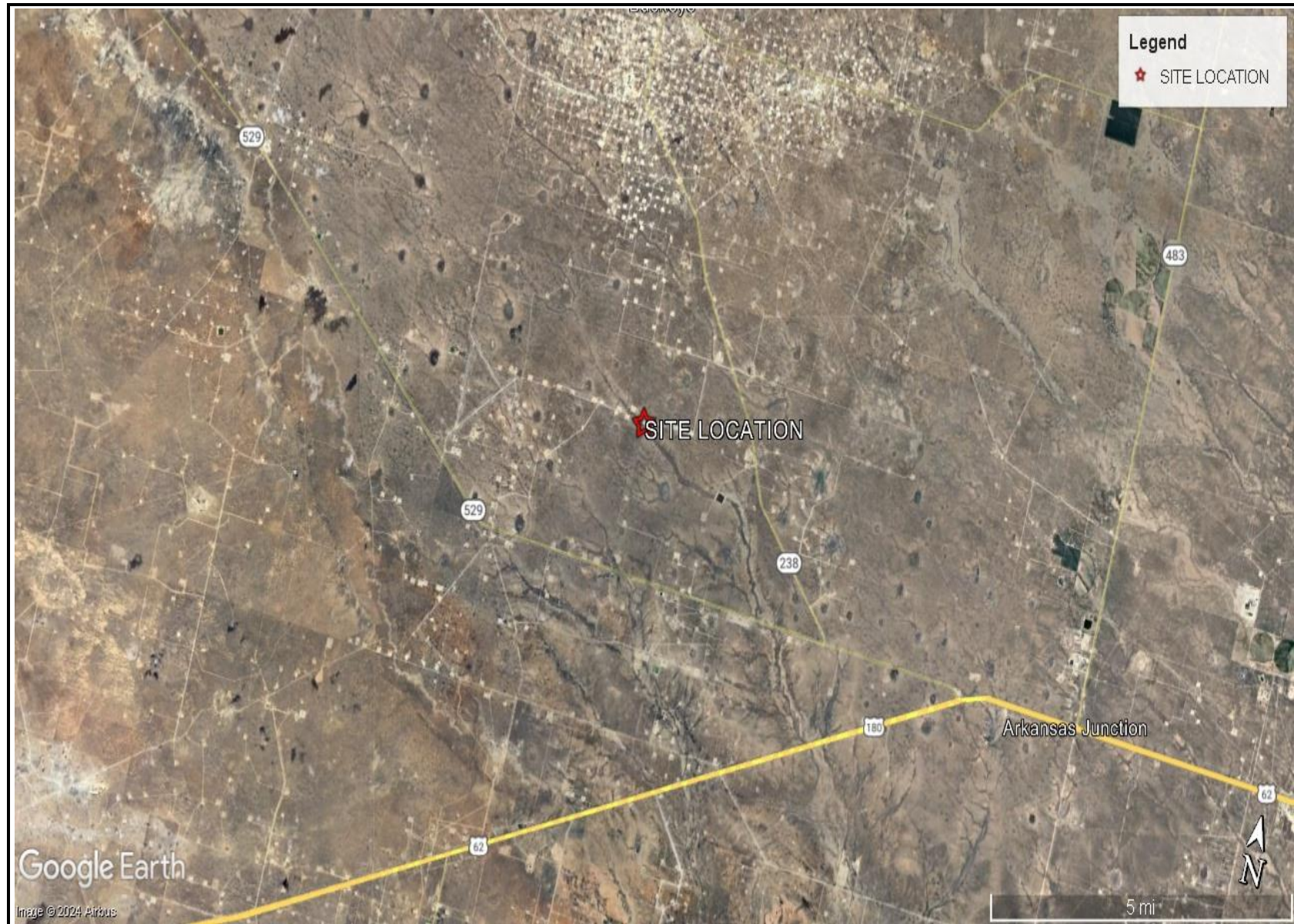
Clinton Merritt
Sr. Project Manager

Ashton Thielke
Sr. Project Manager

FIGURES

CARMONA RESOURCES

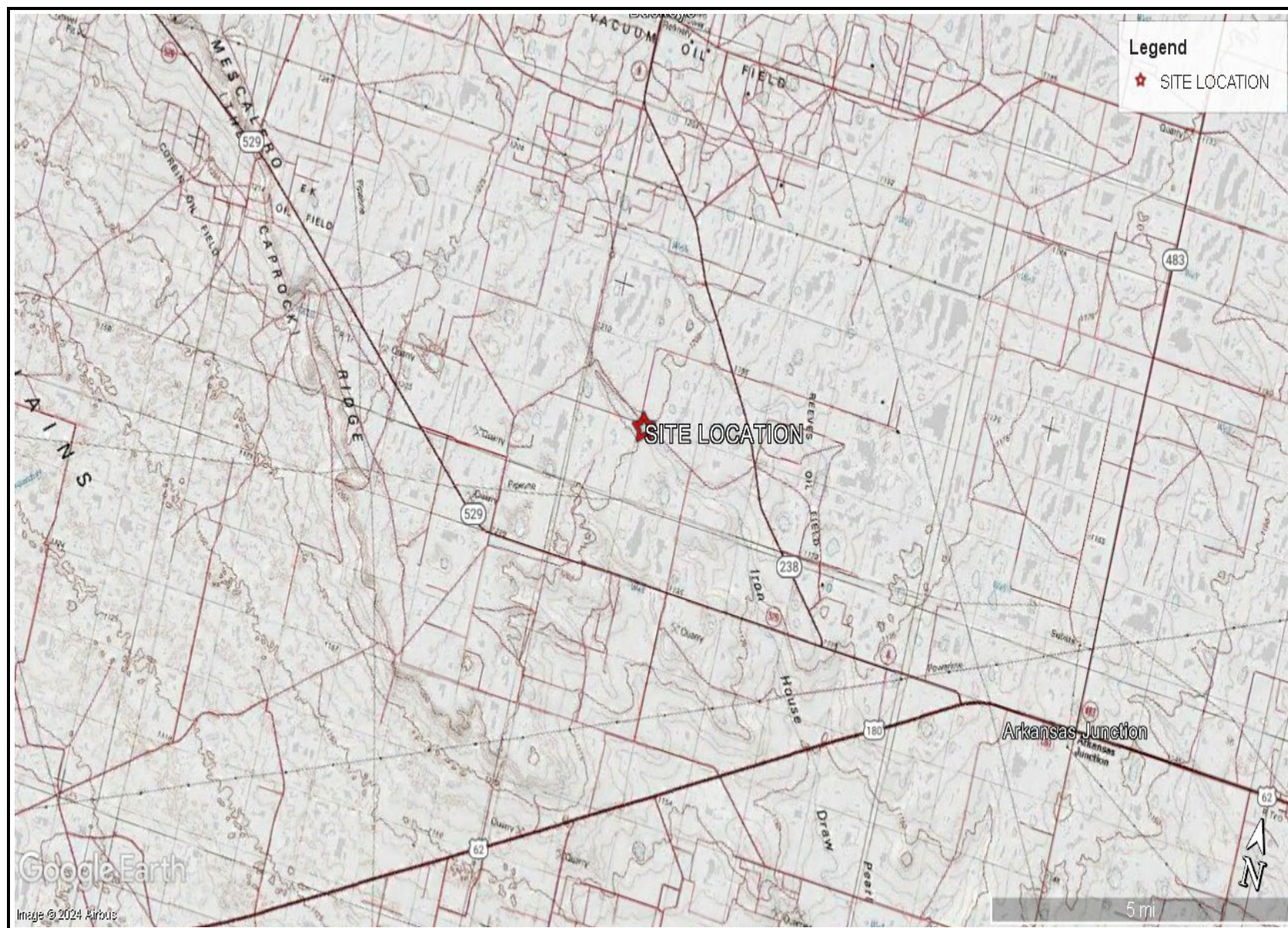




OVERVIEW MAP
MARATHON OIL CORPORATION
NIGHTHAWK STATE COM 1H
LEA COUNTY, NEW MEXICO
32.725471°, -103.486557°



FIGURE 1



TOPOGRAPHIC MAP
MARATHON OIL CORPORATION
NIGHTHAWK STATE COM #001H
LEA COUNTY, NEW MEXICO
32.725471°, -103.486557°



FIGURE 2



APPENDIX A

CARMONA RESOURCES



PHOTOGRAPHIC LOG

Marathon Oil Corporation

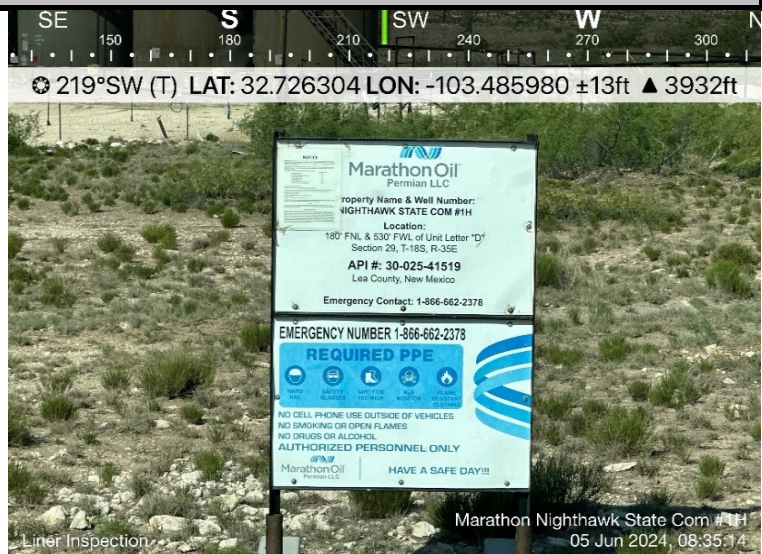
Photograph No. 1

Facility: Nighthawk State Com #001H

County: Lea County, New Mexico

Description:

View Southwest of facility sign.



Photograph No. 2

Facility: Nighthawk State Com #001H

County: Lea County, New Mexico

Description:

View South of lined facility.



Photograph No. 3

Facility: Nighthawk State Com #001H

County: Lea County, New Mexico

Description:

View Southeast of lined facility.



PHOTOGRAPHIC LOG

Marathon Oil Corporation

Photograph No. 4

Facility: Nighthawk State Com #001H

County: Lea County, New Mexico

Description:

View North of lined facility.



Photograph No. 5

Facility: Nighthawk State Com #001H

County: Lea County, New Mexico

Description:

View South of lined facility.



Photograph No. 6

Facility: Nighthawk State Com #001H

County: Lea County, New Mexico

Description:

View Northwest of lined facility.



PHOTOGRAPHIC LOG**Marathon Oil Corporation****Photograph No. 7****Facility:** Nighthawk State Com #001H**County:** Lea County, New Mexico**Description:**

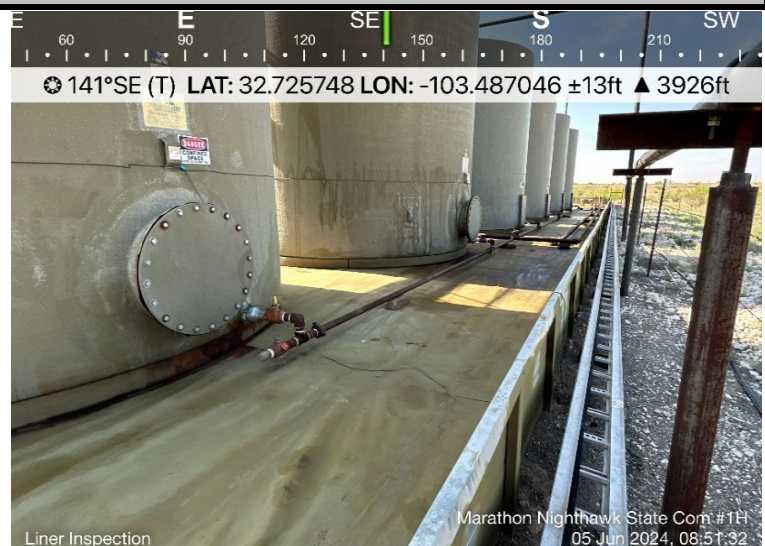
View Northeast of lined facility.

**Photograph No. 8****Facility:** Nighthawk State Com #001H**County:** Lea County, New Mexico**Description:**

View Northeast of lined facility.

**Photograph No. 9****Facility:** Nighthawk State Com #001H**County:** Lea County, New Mexico**Description:**

View Southeast of lined facility.



PHOTOGRAPHIC LOG

Marathon Oil Corporation

Photograph No. 10

Facility: Nighthawk State Com #001H

County: Lea County, New Mexico

Description:

View Southwest of lined facility.



Photograph No. 11

Facility: Nighthawk State Com #001H

County: Lea County, New Mexico

Description:

View Northwest of lined facility.



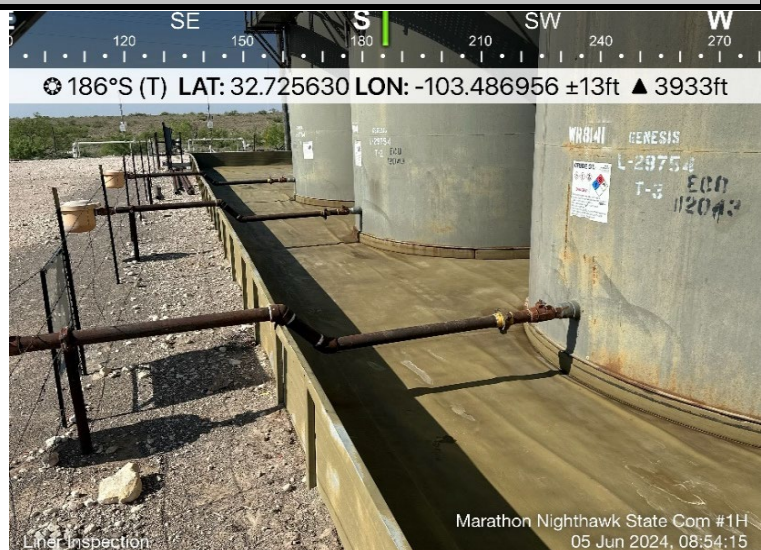
Photograph No. 12

Facility: Nighthawk State Com #001H

County: Lea County, New Mexico

Description:

View South 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 347010

QUESTIONS

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 347010
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

Location of Release Source	
Please answer all the questions in this group.	
Site Name	NIGHTHAWK STATE COM #001H
Date Release Discovered	05/22/2024
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 Flow Line - Production Produced Water Released: 9 BBL Recovered: 9 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)	Not answered.

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QUESTIONS, Page 2

Action 347010

QUESTIONS (continued)

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 347010
	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	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. 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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ACKNOWLEDGMENTS

Action 347010

ACKNOWLEDGMENTS

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 347010
	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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CONDITIONS

Action 347010

CONDITIONS

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 347010
	Action Type: [NOTIFY] Notification Of Release (NOR)

CONDITIONS

Created By	Condition	Condition Date
icastro	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.	5/22/2024

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:	348658	Districts:	Hobbs
Operator:	[372098] MARATHON OIL PERMIAN LLC	Counties:	Lea
Description:	MARATHON OIL PERMIAN LLC [372098] , NIGHTHAWK STATE COM #001H , nAPP2414369183		
Status:	APPROVED		
Status Date:	06/12/2024		
References (2):	30-025-41519, nAPP2414369183		

Forms

Attachments: [Volume Calculation](#)

Questions

Prerequisites

Incident ID (n#)	nAPP2414369183
Incident Name	NAPP2414369183 NIGHTHAWK STATE COM #001H @ 30-025-41519
Incident Type	Produced Water Release
Incident Status	Initial C-141 Received
Incident Well	[30-025-41519] NIGHTHAWK STATE COM #001H

Location of Release Source

Please answer all the questions in this group.

Site Name	NIGHTHAWK STATE COM #001H
Date Release Discovered	05/22/2024
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.
-----------------------------------	---------------

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)	Leak caused by a pinhole developed on the water line leading up to the water tanks.

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	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. gas only) are to be submitted on the C-129 form.	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.
Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Isaac Castro Email: icastro@marathonoil.com Date: 06/12/2024

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

Comments

No comments found for this submission.

Conditions

Summary: scott.rodgers (6/12/2024), None

Reasons

No reasons found for this submission.

Fees

Summary:

		Created	Type	Amount	Status	Saved
NGQH9-240529-C-1410	Fee	5/29/2024	SB553 A.(2) [ADMIN]	\$150.00	Paid [PAID]	5/29/2024
	Payment	6/12/2024	Credit Card [CC]	\$150.00	Paid [PAID]	6/12/2024

Go Back

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QUESTIONS

Action 350024

QUESTIONS

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 350024
	Action Type: [NOTIFY] Notification Of Liner Inspection (C-141L)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2414369183
Incident Name	NAPP2414369183 NIGHTHAWK STATE COM #001H @ 30-025-41519
Incident Type	Produced Water Release
Incident Status	Notification Accepted
Incident Well	[30-025-41519] NIGHTHAWK STATE COM #001H

Location of Release Source	
Site Name	NIGHTHAWK STATE COM #001H
Date Release Discovered	05/22/2024
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	5,204
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	06/05/2024
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 529 and NM 238, turn north onto NM 238 and travel 3.82 miles. Turn west onto unmarked lease road and travel 0.42 miles. Turn south onto unmarked lease road and travel 1.01 miles. turn west onto unmarked lease road and travel 0.78 miles. Battery is on the immediate south side of the lease road.

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CONDITIONS

Action 350024

CONDITIONS

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 350024
	Action Type: [NOTIFY] Notification Of Liner Inspection (C-141L)

CONDITIONS

Created By	Condition	Condition Date
icastro	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.	6/3/2024

APPENDIX C

CARMONA RESOURCES

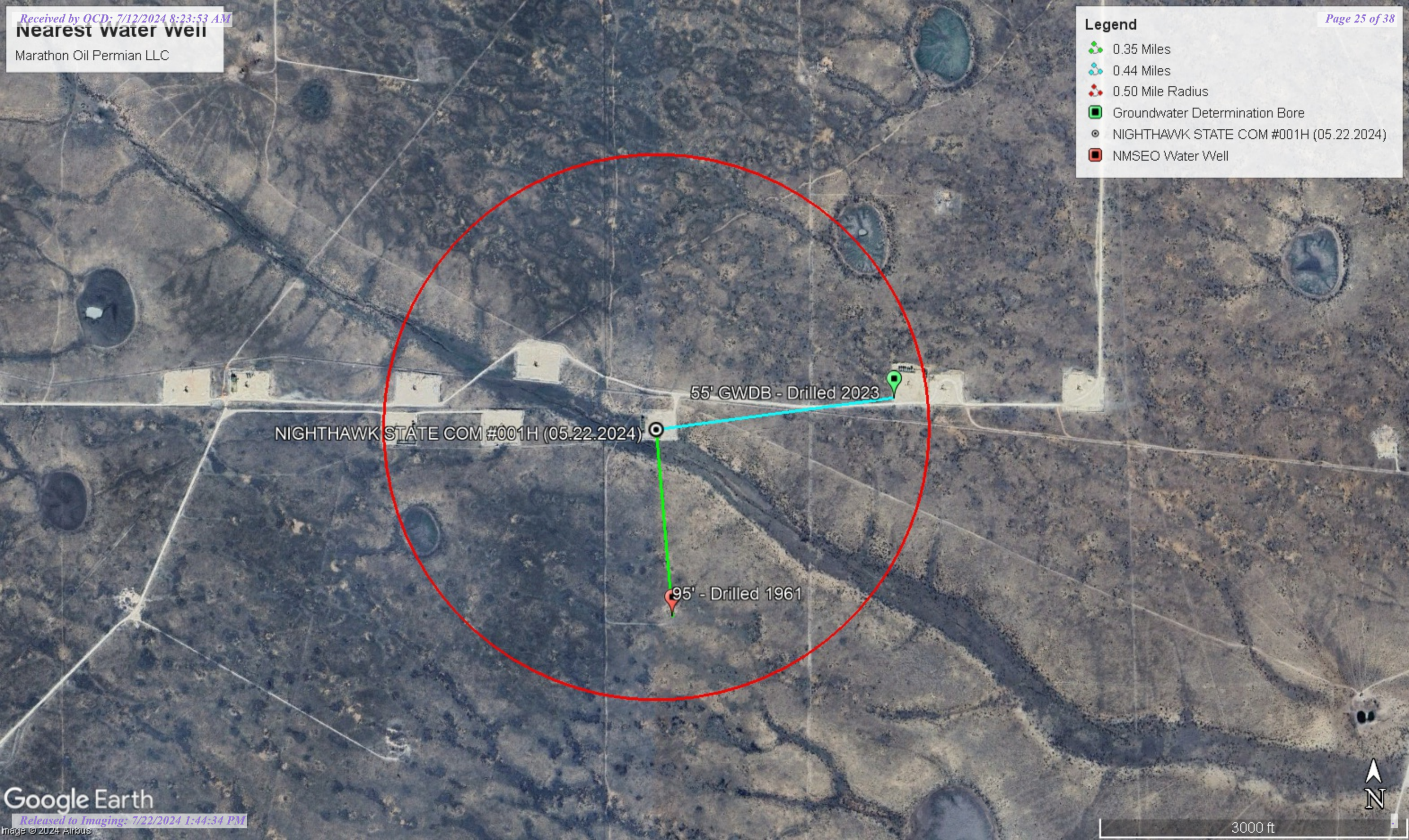


Nearest water well

Marathon Oil Permian LLC

Legend

- 0.35 Miles
- 0.44 Miles
- 0.50 Mile Radius
- Groundwater Determination Bore
- NIGHTHAWK STATE COM #001H (05.22.2024)
- NMSEO Water Well



NIGHTHAWK STATE COM #001H (05.22.2024)

55' GWDB - Drilled 2023

95' - Drilled 1961

Low Karst

Marathon Oil Permian LLC

Legend

- Low
- NIGHTHAWK STATE COM #001H (05.22.2024)

NIGHTHAWK STATE COM #001H (05.22.2024)





New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
L 04562	L	LE		3	1	29	18S	35E		641874	3621315*	553	156	95	61
L 02053	L	LE				20	18S	35E		642464	3622723*	1070	175	78	97
L 07928	L	LE		4	4	1	19	18S	35E	640639	3622915	1581	175		
L 02357	L	LE			2	20	18S	35E		642855	3623137*	1637	170	77	93
L 03171	L	LE		3	3	17	18S	35E		641835	3623734*	1868	170	150	20
L 03888	L	LE		3	1	19	18S	35E		640253	3622912*	1885	107	70	37
L 12926 POD1	L	LE		2	2	3	25	18S	34E	639839	3621631	1996	182	117	65
L 15235 POD1	L	LE		2	4	1	31	18S	35E	640696	3619795	2356	162	75	87
L 03721	L	LE		3	3	18	18S	35E		640241	3623717*	2434	161	90	71
L 09742	L	LE		1	4	17	18S	35E		642474	3624312	2531	200		
L 02052	L	LE				17	18S	35E		642438	3624337*	2546	190	72	118
L 05156	L	LE		4	1	17	18S	35E		642224	3624545*	2708	150	90	60
L 02680	L	LE		1	2	21	18S	35E		644257	3623357*	2855	190	59	131
L 02679	L	LE		4	4	21	18S	35E		644680	3622151*	2872	200	68	132
L 02679	R	L	LE	4	4	21	18S	35E		644680	3622151*	2872	200	68	132
L 05444	L	LE		4	3	32	18S	35E		642319	3618899*	3008	80	58	22
L 09588	L	LE		4	3	4	16	18S	35E	644349	3623659*	3098	155	84	71
L 03772	L	LE		2	2	21	18S	35E		644659	3623361*	3206	130	60	70
L 00493	L	LE		1	2	1	05	19S	35E	642290	3618663	3236	100		
L 03866	L	LE		3	3	22	18S	35E		645082	3622155*	3272	127	65	62
L 04399	L	LE		3	3	22	18S	35E		645082	3622155*	3272	90	75	15
L 14371 POD1	L	LE		1	1	2	05	19S	35E	642616	3618661	3301	172	60	112
L 14200 POD1	L	LE		2	2	2	05	19S	35E	642952	3618657	3402	180	60	120
L 09762	L	LE		3	3	33	18S	35E		643526	3618913*	3409	160	80	80
L 14200 POD2	L	LE		2	2	2	05	19S	35E	643291	3618631	3552	180	60	120
L 09767	L	LE		3	3	13	18S	34E		638636	3623688*	3670	182	96	86

*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.)

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
L 05810	L	LE		2	3	22	18S	35E		645479	3622564*	3723	145	95	50
L 04794	L	LE			4	07	18S	35E		641200	3625540*	3726	150	95	55
L 02349 POD3	L	LE		4	1	4	07	18S	35E	641225	3625573	3755	220	142	78
L 02350	L	LE		4	1	3	08	18S	35E	641897	3625650*	3784	216	105	111
L 05172	L	LE			3	3	07	18S	35E	640214	3625331*	3819	161	85	76
L 06047	L	LE		2	2	1	16	18S	35E	643927	3625066*	3830	122	65	57
L 02349 POD2	L	LE		4	1	4	07	18S	35E	641091	3625641*	3845	214	85	129
L 02349	R	L	LE	3	1	4	07	18S	35E	640891	3625641*	3888	207	85	122
L 09428	L	LE		3	4	1	05	19S	35E	642231	3617997*	3890	130		
L 04906	L	LE			3	07	18S	35E		640415	3625532*	3926	155	87	68
L 02676	L	LE		1	2	16	18S	35E		644231	3624972*	3930	175	60	115
L 03783	L	LE				27	18S	35E		645710	3621138*	3955	115	65	50

Average Depth to Water: **81 feet**

Minimum Depth: **58 feet**

Maximum Depth: **150 feet**

Record Count: 38

UTMNAD83 Radius Search (in meters):

Easting (X): 641822

Northing (Y): 3621866

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.

9/17/23 2:26 PM


Page 2 of 2

WATER COLUMN/ AVERAGE
DEPTH TO WATER



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)				(quarters are smallest to largest)				(NAD83 UTM in meters)			
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y				
L	04562	3	1	29	18S	35E	641874	3621315*					
x													
Driller License:		111		Driller Company:			BURKE, EDWARD B.						
Driller Name:													
Drill Start Date:		12/20/1960			Drill Finish Date:			12/21/1960		Plug Date:		01/17/1961	
Log File Date:		12/29/1960			PCW Rcv Date:					Source:		Shallow	
Pump Type:					Pipe Discharge Size:					Estimated Yield:			
Casing Size:		7.00			Depth Well:			156 feet		Depth Water:		95 feet	
x													
Water Bearing Stratifications:				Top	Bottom	Description							
				98	156	Sandstone/Gravel/Conglomerate							
x													
Casing Perforations:				Top	Bottom								
				110	154								
x													

*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/TSC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

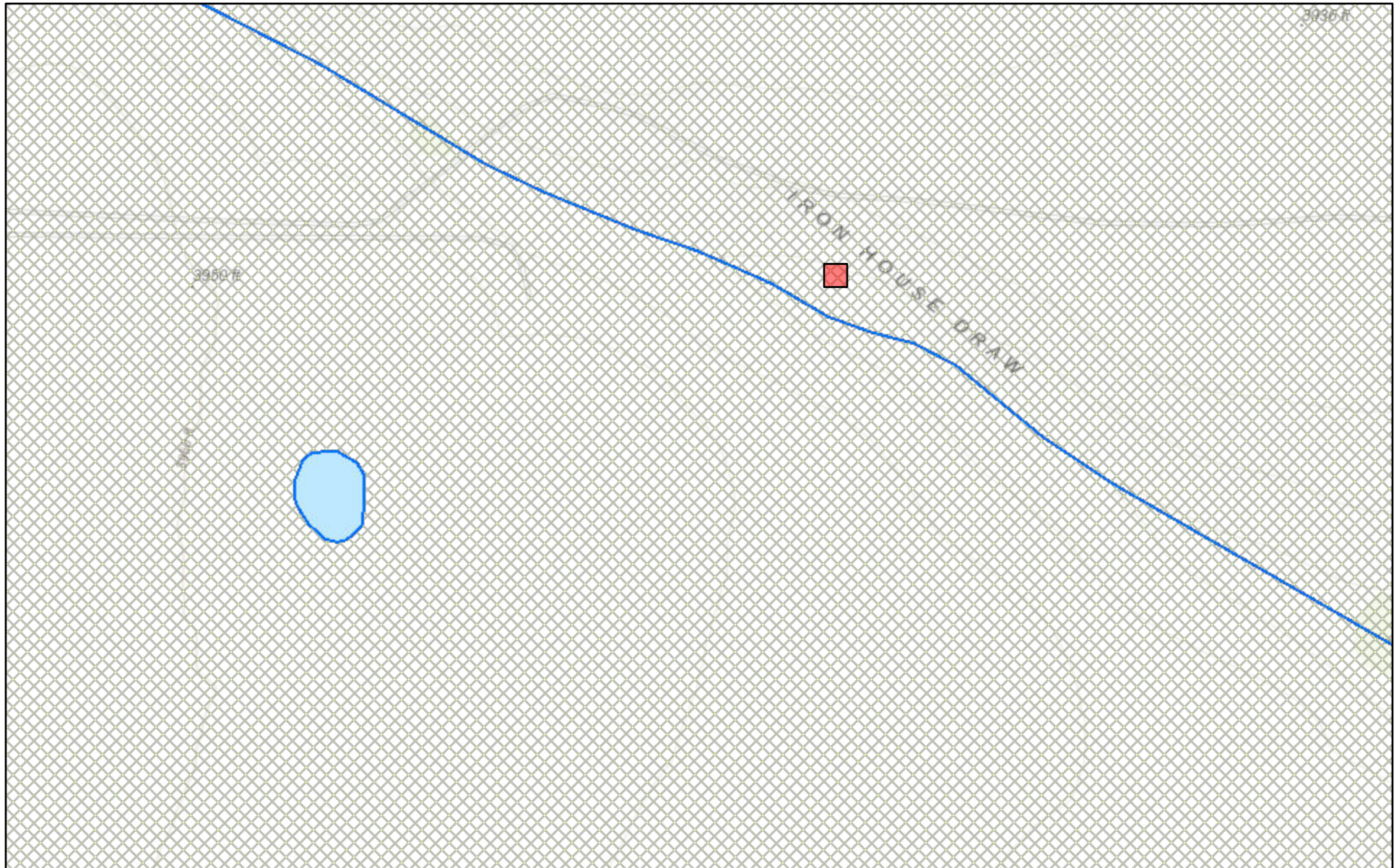


Project Name :	<u>Nighthawk State Com 3H</u>	Date :	<u>Tuesday, August 15, 2023</u>
Project No. :	<u>2090</u>	Sampler :	<u>Jim Hawley</u>
Location :	<u>Lea County, New Mexico</u>	Driller :	<u>H&R Enterprises, LLC</u>
Coordinates :	<u>32.726286°, -103.479090°</u>	Method :	<u>Air Rotary</u>
Elevation (ft) :	<u>3,946</u>		

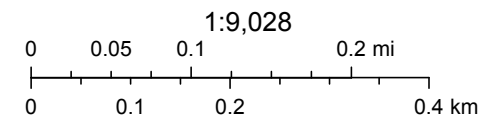
Depth (ft.)	WL	Soil Description	Lithology	Depth (ft.)	WL	Soil Description	Lithology
0		(0') - White medium to small well cemented angular gravel, with 50% fine, silty, soft loose sand. Dry, no odor, no organics (GM).		50		(50') - White medium to small well cemented angular gravel, with 75% fine, silty, loose, soft sand. Dry, no odor, no organics (GM).	
5		(5') - White fine silty soft loose sand. Dry, no odor, no organics (SM).		55			
10		(10') - White fine silty soft loose sand. Dry, no odor, no organics (SM).		60			
15		(15') - White small to medium well cemented angular gravel, with 50% fine, silty, soft loose sand. Dry, no odor, no organics (GM).		65			
20		(20') - White to light brown fine, silty, soft, loose sand. Dry, no odor, no organics (SM).		70			
25		(25') - White to light brown fine, silty, soft, loose sand. Dry, no odor, no organics (SM).		75			
30		(30') - White to light brown fine, silty, soft, loose sand. Dry, no odor, no organics (SM).		80			
35		(35') - White to light brown fine, silty, soft, loose sand. Dry, no odor, no organics (SM).		85			
40		(40') - White to light brown fine, silty, soft, loose sand. Dry, no odor, no organics (SM).		90			
45		(45') - White to light brown fine, silty, soft, loose sand. Dry, no odor, no organics (SM).		95			
50				105			

Comments : (8/15/23) Boring terminated at 55.0' with no presence of groundwater or moisture. (8/21/23) Bore measured at 55.0' using Heron Groundwater Meter, no detection of moisture inside bore.

New Mexico NFHL Data



September 17, 2023



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

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

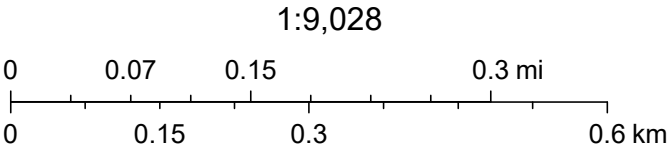
This is a non-regulatory product for informational use only. Please consult your local floodplain administrator for further information.

NIGHTHAWK STATE COM #001H (05.22.2024)



6/2/2024, 6:35:40 PM

- OSW Water Bodys
- OSE Streams



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Oil Conservation Division
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Santa Fe, NM 87505

QUESTIONS

Action 360234

QUESTIONS

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID:
	372098
	Action Number:
	360234
Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2414369183
Incident Name	NAPP2414369183 NIGHTHAWK STATE COM #001H @ 30-025-41519
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-025-41519] NIGHTHAWK STATE COM #001H

Location of Release Source	
Please answer all the questions in this group.	
Site Name	NIGHTHAWK STATE COM #001H
Date Release Discovered	05/22/2024
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 Flow Line - Production Produced Water Released: 9 BBL Recovered: 9 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)	Leak caused by a pinhole developed on the water line leading up to the water tanks. Spill was contained inside lined secondary containment; liner was pressure washed and fluids recovered.

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QUESTIONS, Page 2

Action 360234

QUESTIONS (continued)

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID:
	372098
	Action Number:
	360234
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)	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	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. gas only) are to be submitted on the C-129 form.	

Initial Response

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

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

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

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

I hereby agree and sign off to the above statement	Name: Isaac Castro Email: icastro@marathonoil.com Date: 07/12/2024
--	--

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QUESTIONS, Page 3

Action 360234

QUESTIONS (continued)

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID:	372098
	Action Number:	360234
	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	Direct Measurement
Did this release impact groundwater or surface water	No
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	Between 100 and 200 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between ½ and 1 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Greater than 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	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	06/05/2024
On what date will (or did) the final sampling or liner inspection occur	06/05/2024
On what date will (or was) the remediation complete(d)	06/05/2024
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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QUESTIONS, Page 4

Action 360234

QUESTIONS (continued)

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID:	372098
	Action Number:	360234
	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, which includes the anticipated timelines for beginning and completing the remediation.

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

I hereby agree and sign off to the above statement	Name: Isaac Castro Email: icastro@marathonoil.com Date: 07/12/2024
--	---

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

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QUESTIONS, Page 6

Action 360234

QUESTIONS (continued)

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID:
	372098
	Action Number:
	360234
Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Liner Inspection Information	
Last liner inspection notification (C-141L) recorded	350024
Liner inspection date pursuant to Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC	06/05/2024
Was all the impacted materials removed from the liner	Yes
What was the liner inspection surface area in square feet	5204

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)	On June 5, 2024, Carmona Resources, LLC conducted liner inspection activities to assess the liner's integrity within the facility. Prior to the liner inspection, the NMOC division office was notified via web portal on June 2, 2024, per Subsection D of 19.15.29.12 NMAC. See Appendix B. Carmona Resources, LLC personnel inspected the liner visually and found it to be intact with no integrity issues

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

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

I hereby agree and sign off to the above statement	Name: Isaac Castro Email: icastro@marathonoil.com Date: 07/12/2024
--	--

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CONDITIONS

Action 360234

CONDITIONS

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 360234
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	App ID 360234 Liner Inspection approved	7/22/2024