

July 17, 2025

New Mexico Oil Conservation Division

New Mexico Energy, Minerals, and Natural Resources Department 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Re: Closure Request
Cave Lion 5 Federal 2689 TB
Incident Number nAPP2512855150
Lea County, New Mexico

To Whom It May Concern:

Marathon Oil Permian, LLC, (MRO), has prepared this *Closure Request* to document the findings of a liner integrity inspection conducted at the Cave Lion 5 Federal 2689 TB (Site) following the release of produced water within a lined containment. Based on the liner integrity inspection activities, MRO is submitting this Closure Request, describing assessment activities that have occurred and requesting no further action and closure for Incident Number nAPP2512855150.

SITE DESCRIPTION AND RELEASE SUMMARY

The site is located in Unit N, Section 05, Township 26 South, Range 35 East, in Lea County, New Mexico (32.0657493, -103.3916158) and is associated with oil and gas exploration and production operations on state land managed by the Bureau of Land Management (BLM).

On May 7, 2025, field personnel discovered that a plug on the water transfer pump had failed causing a release of approximately sixty-six (66) barrels of produced water being released into a lined containment. A vacuum truck was dispatched to the site to recover free-standing fluids and approximately sixty-five (65) barrels of produced water was recovered. The transfer pump was isolated to prevent fluid being further released and the plug was replaced. MRO reported the release to the New Mexico Oil Conservation Division (NMOCD) and Bureau of Land Management (BLM) on a *Release Notification Form C-141* (Form C-141) on May 8, 2025. The release was assigned Incident Number nAPP2512855150.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The site is located within a low karst area. Based on a review of the New Mexico Office of State Engineers databases, there is one known water source within a 0.50-mile radius of the location. The closest well is located approximately 0.1 miles Northwest of the Site in Unit Letter N, S05, T26S, R35E and was drilled in 2022. The well has a reported depth to groundwater of 101' feet below ground surface. Per the NMOCD regulatory criteria established in 19.15.29.12 NMAC, the following criteria were utilized in assessing the site.

• Benzene: 10 milligrams per kilogram (mg/kg).

Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg.

TPH: 2,500 mg/kg (GRO + DRO + MRO).

• Chloride: 20,000 mg/kg.

LINER INTEGRITY INSPECTION ACTIVITIES

A 48-hour advance notice of the liner inspection was submitted to the NMOCD on July 14, 2025. Prior to conducting the liner integrity inspection, MRO operations power washed the liner to remove dirt and debris and recover any residual produced water. A liner integrity inspection was conducted by Jacob Laird on July 16, 2025. Upon inspection, no rips, tears, holes, or damage was observed. The liner was determined to be sufficient, and all released fluids have been removed. Refer to photolog for details.

CLOSURE REQUEST

Based on the liner inspection throughout the facility, the liner was determined to be sufficient. The release was contained laterally by the lined containment and the liner was performing as designed. No further actions are required at the site. MRO, LLC respectfully requests that the New Mexico Oil Conservation Division and the Bureau of Land Management grant closure approval for Incident Number nAPP2512855150.

Should you have any questions or concerns please do not hesitate to contact me.

Sincerely,

Jacob Laird

Jacob Laird

Environmental Engineer

jacob.laird@conocophillips.com

Appendices:

Figures- Site Map Overview, Topography Map, Secondary Containment Map

Appendix A: NMOCD Correspondence

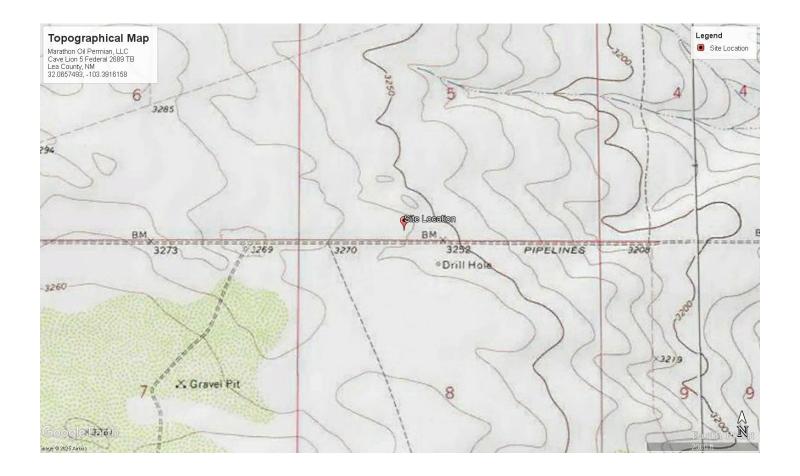
Appendix B: Photolog

Appendix C: Site Characterization and Ground Water

Figures: Site Maps



Overview Map

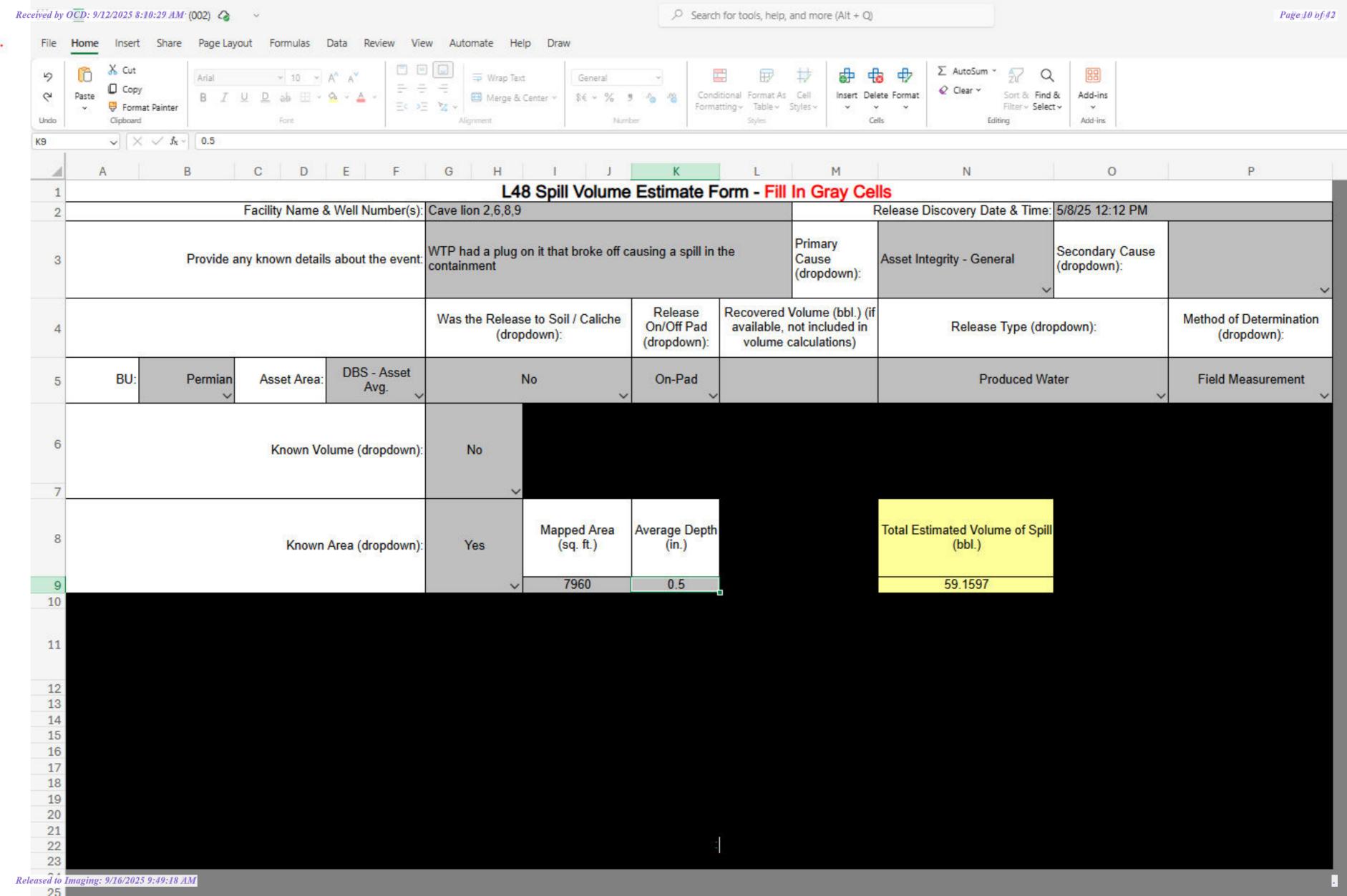


Topographical Map



Secondary Containment Map

Appendix A: NMOCD Correspondence



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 466467

QUESTIONS

Operator:	OGRID:
MARATHON OIL PERMIAN LLC	372098
600 W Illinois Ave	Action Number:
Midland, TX 79701	466467
	Action Type:
	[C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Prerequisites		
Incident ID (n#)	nAPP2512855150	
Incident Name	NAPP2512855150 CAVE LION 5 FEDERAL 2689 TB @ 0	
Incident Type	Produced Water Release	
Incident Status	Initial C-141 Received	
Incident Facility	[fAPP2126037448] CAVE LION 5 FED 2689 TB	

Location of Release Source	
Please answer all the questions in this group.	
Site Name	Cave Lion 5 Federal 2689 TB
Date Release Discovered	05/07/2025
Surface Owner	Federal

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

Nature and Volume of Release	
faterial(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: 66 BBL Recovered: 0 BBL Lost: 66 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)	Release was the result of a failure on the water transfer pump, vacuum truck in route to remove all freestanding fluids from the falcon lined 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 466467

QUESTIONS (continued)

Operator: MARATHON OIL PERMIAN LLC		OGRID: 372098
600 W Illinois Ave		Action Number:
Midland, TX 79701		466467 Action Type:
		[C-141] Initial C-141 (C-141-v-Initial)
QUESTIONS		
Nature and Volume of Release (continued)		
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied vo	olumes 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	.,	ease 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.	e. gas only) are to be submitted on th	ne 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 inju	ry.
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	False	
If all the actions described above have not been undertaken, explain why	A vacuum truck is in route to recover the fluid	
Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediactions to date in the follow-up C-141 submission. If remedial efforts have been successfully complet Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure e	ted or if the release occurred within a	lined containment area (see Subparagraph (a) of Paragraph (5) of
I hereby certify that the information given above is true and complete to the best of my keep 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 local laws and/or regulations.	ases which may endanger public adequately investigate and reme	c health or the environment. The acceptance of a C-141 report by ediate contamination that pose a threat to groundwater, surface
I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technici: Email: brittany.Esparza@Cor Date: 05/22/2025	

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, Page 3

Action 466467

QUESTIONS (continued)

Operator:	OGRID:
MARATHON OIL PERMIAN LLC	372098
600 W Illinois Ave	Action Number:
Midland, TX 79701	466467
	Action Type:
	[C-141] Initial C-141 (C-141-v-Initial)
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 Not answered. release in feet below ground surface (ft bgs) 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 Not answered. for domestic or stock watering purposes Any other fresh water well or spring Not answered. Incorporated municipal boundaries or a defined municipal fresh water well field Not answered. 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 A 100-year floodplain Not answered. Did the release impact areas not on an exploration, development, production, or Not answered. storage site

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.		

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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 466467

CONDITIONS

Operator:	OGRID:
MARATHON OIL PERMIAN LLC	372098
600 W Illinois Ave	Action Number:
Midland, TX 79701	466467
	Action Type:
	[C-141] Initial C-141 (C-141-v-Initial)
	[[[[]]]]]

CONDITIONS

Create	Condition	Condition Date
scw	None	5/22/2025

From: <u>Hall, Brittany, EMNRD</u>

To: <u>Laird, Jacob; Fejervary Morena, Gustavo A;</u>
Cc: <u>Wells, Shelly, EMNRD; Bratcher, Michael, EMNRD;</u>

Subject: RE: [EXTERNAL] Cave Lion 5 Federal 2689 TB Liner Inspection

Sent: 7/14/2025 8:10:40 AM

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Mr. Laird,

As the OCD Permitting website is down for everybody, this email notification will be accepted in lieu of the C-141L. Please proceed with the inspection on Wednesday, July 16th, 2025, at 7:30AM as stated in your email.

Be advised that a C-141L must be submitted in order to submit a closure report. Please submit a C-141L as soon as possible. In one of the free text boxes (either the sampler's information or the directions to the site box) please indicate that the OCD permitting website was down when attempting to submit the 48-hour notification and email notification was submitted instead.

Please include a copy of this email approval in the next submittal for this incident. The copy of the email approval will inform the reviewer of the incident that the emailed notification was approved and will document that your C-141L can be accepted without being submitted within the require 48-hours.

Please do not hesitate to reach out if you have any questions or require additional information.

Thank you,

Brittany Hall • Environmental Field Compliance Supervisor Environmental Field Compliance Group EMNRD - Oil Conservation Division 1000 Rio Brazos Road | Aztec, NM 87410 505.517.5333 | Brittany.Hall@emnrd.nm.gov http://www.emnrd.nm.gov/ocd/

Effective 12/1/2024: OCD has updated guidance on karst potential occurrence zones. This notice can be found at: https://www.emnrd.nm.gov/ocd/ocd-announcements-and-notifications/ under "2024 OCD ANNOUNCEMENTS AND NOTIFICATIONS".

The Digital C-141 guidance documents can be found at https://www.emnrd.nm.gov/ocd/ocd-announcements-and-notifications/ or https://www.emnrd.nm.gov/ocd/ocd-announcements-and-notifications/ or https://www.emnrd.nm.gov/ocd/ocd-announcements-and-notifications/ or https://www.emnrd.nm.gov/ocd/ocd-forms/.

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>

Sent: Monday, July 14, 2025 7:39 AM

To: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>

Subject: FW: [EXTERNAL] Cave Lion 5 Federal 2689 TB Liner Inspection

From: Laird, Jacob < <u>Jacob.Laird@conocophillips.com</u>>

Sent: Monday, July 14, 2025 7:27 AM

To: Enviro, OCD, EMNRD < OCD.Enviro@emnrd.nm.gov>

Cc: Fejervary Morena, Gustavo A <<u>G.Fejervary@conocophillips.com</u>>
Subject: [EXTERNAL] Cave Lion 5 Federal 2689 TB Liner Inspection

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

To Whom It May Concern,

Below is an email notification for liner inspection at Marathon Oil Permian, LLC (MRO) Cave Lion 5 Federal 2689 TB, Spill Date 05-7-2025 (Incident Number NAPP2512855150). A C-141L was unable to be submitted due to the NMOCD portal being down.

This is a notification that the lined secondary containment will be inspected on Wednesday, July 16th 2025 at 7:30AM. Please call with any questions or concerns 575-703-5482.

Site: Cave Lion 5 Federal 2689 TB Incident Number: NAPP2512855150

- · What is the liner inspection surface area in square feet? 12,263
- · Have all impacted materials been removed from the liner? YES
- Liner inspection date? 7/16/2025
- Time liner inspection will commence? 7:30 AM
- Please provide any information necessary for observers? jacob.laird@conocophillips.com

• Please provide any information necessary for navigation to inspection site? Cave Lion 5 Federal 2689 TB (32.0657493, -103.3916158)

I appreciate you,

Jacob Laird | Environmental Engineer, DBE | ConocoPhillips C: 575-703-5482

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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

Action 484385

QUESTIONS

Operator:	OGRID:
MARATHON OIL PERMIAN LLC	372098
600 W Illinois Ave	Action Number:
Midland, TX 79701	484385
	Action Type:
	[NOTIFY] Notification Of Liner Inspection (C-141L)

QUESTIONS

Prerequisites		
Incident ID (n#)	nAPP2512855150	
Incident Name	NAPP2512855150 CAVE LION 5 FEDERAL 2689 TB @ 0	
Incident Type	Produced Water Release	
Incident Status	Initial C-141 Approved	
Incident Facility	[fAPP2126037448] CAVE LION 5 FED 2689 TB	

Location of Release Source	
Site Name	Cave Lion 5 Federal 2689 TB
Date Release Discovered	05/07/2025
Surface Owner	Federal

Liner Inspection Event Information					
Please answer all the questions in this group.					
What is the liner inspection surface area in square feet	12,236				
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	07/16/2025				
Time liner inspection will commence	07:30 AM				
Please provide any information necessary for observers to liner inspection	jacob.laird@conophillips.com An email notification was submitted to ocd.enviro@emnrd.nm.gov due to the submittal portal being down. Per Brittany Hall, the email notification was accepted as notification. "this email notification will be accepted in lieu of the C-141L. Please proceed with the inspection on Wednesday, July 16th, 2025, at 7:30AM as stated in your email. Be advised that a C-141L must be submitted in order to submit a closure report. Please submit a C-141L as soon as possible. In one of the free text boxes (either the sampler's information or the directions to the site box) please indicate that the OCD permitting website was down when attempting to submit the 48-hour notification and email notification was submitted instead."				
Please provide any information necessary for navigation to liner inspection site	32.0657493, -103.3916158				

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 484385

CONDITIONS

Operator:	OGRID:
MARATHON OIL PERMIAN LLC	372098
600 W Illinois Ave	Action Number:
Midland, TX 79701	484385
	Action Type:
	[NOTIFY] Notification Of Liner Inspection (C-141L)

CONDITIONS

Crea By	d Condition	Condition Date
jlair	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.	7/14/2025

Appendix B: Photolog

Photographic Log

Facility: Cave Lion 5 Federal 2689 TB

County: Lea County, New Mexico

Description: Facility Sign



Facility: Cave Lion 5 Federal 2689 TB

County: Lea County, New Mexico

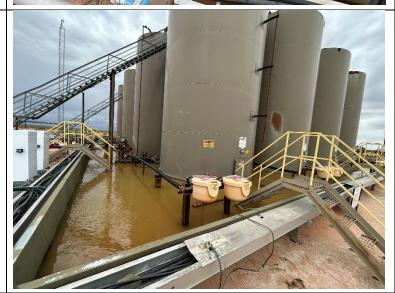
Description: Original release photo



Facility: Cave Lion 5 Federal 2689 TB

County: Lea County, New Mexico

Description: Original release photo



County: Lea County, New Mexico

Description: View facing South/Southwest. Lined area near release point (transfer pump)



Facility: Cave Lion 5 Federal 2689 TB

County: Lea County, New Mexico

Description: View facing North Lined area near

release point (transfer pump)



Facility: Cave Lion 5 Federal 2689 TB

County: Lea County, New Mexico

Description: View facing South/Southwest. Lined area to the East of production tanks.



County: Lea County, New Mexico

Description: View facing South/Southwest. Lined area to the East of production tanks.



Facility: Cave Lion 5 Federal 2689 TB

County: Lea County, New Mexico

Description: View facing West. Lined area to the North of production tanks.



Facility: Cave Lion 5 Federal 2689 TB

County: Lea County, New Mexico

Description: View facing West. Lined area between production tanks.



County: Lea County, New Mexico

Description: View facing West. Lined area

between production tanks.

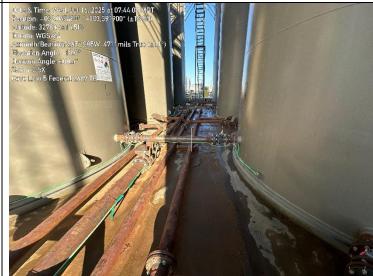


Facility: Cave Lion 5 Federal 2689 TB

County: Lea County, New Mexico

Description: View facing West. Lined area

between production tanks.



Facility: Cave Lion 5 Federal 2689 TB

County: Lea County, New Mexico

Description: View facing West. Lined area to the

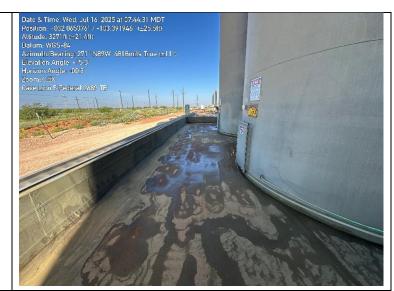
South of production tanks.



County: Lea County, New Mexico

Description: View facing West. Lined area to the

South of production tanks.



Facility: Cave Lion 5 Federal 2689 TB

County: Lea County, New Mexico

Description: View facing West. Lined area

between production tanks.



Facility: Cave Lion 5 Federal 2689 TB

County: Lea County, New Mexico

Description: View facing West. Lined area

between production tanks.



County: Lea County, New Mexico

Description: View facing West. Lined area

between production tanks.



Facility: Cave Lion 5 Federal 2689 TB

County: Lea County, New Mexico

Description: View facing West. Lined area to the

North of production tanks.



Facility: Cave Lion 5 Federal 2689 TB

County: Lea County, New Mexico

Description: View facing South/Southwest. Lined area between production tanks.



County: Lea County, New Mexico

Description: View facing West. Lined area

between production tanks.

Date 8. Time: Wed. Jul 16: 2025 at 197/64/05 MC Position: -032 08/5924 -103.9926/25 1-205.412 Attitude: 32781 (-2.23 5t); Datum: W65-94 Azimuth/Bearing 266 58/6W 47/297/16 150/67/17 Elevaton Angle -19 0 Horizon Angle: +02.4 Zom: 0.5X Cave Lion 5 Federal 2689 TE

Facility: Cave Lion 5 Federal 2689 TB

County: Lea County, New Mexico

Description: View facing West. Lined area

between production tanks.



Facility: Cave Lion 5 Federal 2689 TB

County: Lea County, New Mexico

Description: View facing West. Lined area to the

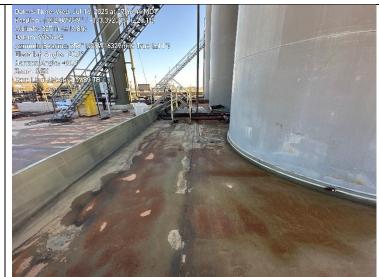
South of production tanks.



County: Lea County, New Mexico

Description: View facing North. Lined area to the

West of production tanks.



Facility: Cave Lion 5 Federal 2689 TB

County: Lea County, New Mexico

Description: View facing North. Lined area to the

West of production tanks.

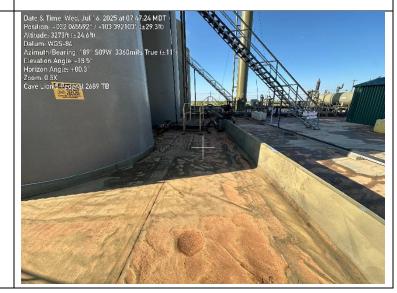


Facility: Cave Lion 5 Federal 2689 TB

County: Lea County, New Mexico

Description: View facing South. Lined area to the

West of production tanks.



Appendix C: Site Characterization and Ground Water



Neatest Water Well Map



New Mexico Office of the State Engineer

Wells With Well Log Information

CI.W##### in the POD suffix

(R=POD has indicates the POD has been been replaced & replaced, no longer O=orphaned, serves a water C=the file is right file.) closed)

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

smallest to largest)

(NAD83 UTM in meters) (meters)

(in feet)

POD Number Code	Sub basin County Source	ce Q64 Q16 Q4 Sec Tws Range	X Y	Star Distance Date			Borehole Depth	Depth Water First Encountered Driller	License Number
C 04601 POD1	CUB LE	SW SE SW 05 26S 35E	651709.8 3548919.7	128 2022	2-03-31 2022-03-31	2022-04-08		JACKIE ATKINS	1249

Record Count: 1

Basin/County Search:

County: LE

UTM Filters (in meters):

Easting: 651820.72 **Northing:** 3548854.99

Radius: 1000

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.

^{*} UTM location was derived from PLSS - see Help

OSE 011 APR 8 2022 MG116

_	OSE POD NO. (WELL NO.) POD1 (TW-1) WELL TAG ID NO.			OSE FILE NO(S).								
ION	,							C-4601				
CAT	WELL OWNER NAME(S) Marathon Oil					PHONE (OPTIONAL)						
07	WELL OWNER MAILING ADDRESS					CITY		STA	TE	ZIP		
ELI	4111 S Tidwell Rd.					Carlsbad		NM		ZIF		
D W			Di	EGREES	MINUTES	SECO	NIDE					
AN	WELL LOCATIO	NI		32	3	5	8	* ACCURACY	REQUIRED: ONE T	ENTH OF	A SECOND	
RAI	(FROM GF	PS)	TITUDE	103	23	3:	3 W		QUIRED: WGS 84			
GENERAL AND WELL LOCATION	DESCRIPTION		NGITUDE					C (SECTION TO	WAIGHIE BANGEY	WIEDE A	WAIT ADIE	
1. G	DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHJIP, RANGE) WHERE AVAILABLE SE SE Sw Sec. 05 T26S R35E											
	LICENSE NO),	NAME OF LICENSED	DRILLER					NAME OF WELL	DRILLIN	G COMPANY	
	124	49		J	Jackie D. Atkins				Atkins E	ngineer	ing Associates, I	nc.
-	DRILLING S 3/31/2		DRILLING ENDED 3/31/2022		MPLETED WELL (F mporary well	Τ)		LE DEPTH (FT) 100.8	DEPTH WATER F		COUNTERED (FT) n/a	
z	COMPLETED WELL IS: ARTESIAN V DRY HOLE SHALLOW					W (UNCO	ONFINED)	STATIC WATER LEVEL DATE STATIC			DATE STATIC 1 4/6/2	
TIO	DRILLING F	LUID:	AIR	MUD	ADDITIV	ES – SPE	CIFY:	()				
2. DRILLING & CASING INFORMATION	DRILLING METHOD: ROTARY HAMMER CABLE TOOL OTHER - SPECIFY:					CIFY: H	Iollow Stem	Auger CHE INST	CK HERE ALLED	E IF PITLESS ADAI	PTER IS	
INF	DEPTH (feet bgl) FROM TO BORE HOLE DIAM		CASING	CASING MATERIAL AND/OR CRADE CASI		ASING CASING		CASING WALL		SLOT		
ING			(include	GRADE each casing string,	and	CONN	NECTION	INSIDE DIAM	. 7	THICKNESS	SIZE	
CAS		100.0	(inches)		note sections of screen) (add c			YPE ling diameter)	(inches)		(inches)	(inches)
38.5	0	100.8	±6.5	Boring				+				
CIN										+		
RIL		-		-						+-	-	
2. D										+		
^ .												
										+-		
د	DEPTH	(feet bgl)	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL				METHOD OF PLACEMENT				
RIA	FROM	ТО	DIAW. (menes)	GRA	VEL PACK SIZE	-RANGI	EBYINIE	RVAL	(cubic fee	:)	PLACEN	IENI
ATE				-								
3 M				-								
ILA1				-								
ANNULAR MATERIAL				†								
3. A												
FOR	OSE INTER							WR-2	0 WELL RECOR	D & LO	G (Version 01/2	8/2022)
FILE	ENO. C.	-460	409-10		POD NO). <u> </u>		TRN	NO. 721	04	1	

WELL TAG ID NO.

PAGE 1 OF 2

LOCATION

26.35.05.343

	DEPTH (f	TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONE (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	0	4	4	Sand, medium/ fine grained poorly graded, Red	Y ✓N	
	4	19	15	Sand, medium/ fine grained poorly graded, Tan	Y ✓N	
	19	101	82	Sand, medium/ fine grained poorly graded, Reddish Brown	Y ✓N	
					Y N	
					Y N	
T					Y N	
4. HYDROGEOLOGIC LOG OF WELL					Y N	
OF					Y N	
507					Y N	
GIC					Y N	
OTO					Y N	
GEC					Y N	
DRO					Y N	
H					Y N	
4					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
	METHOD U	SED TO ES	TIMATE YIELD	OF WATER-BEARING STRATA:	TOTAL ESTIMATED	
	PUMI	•	IR LIFT	BAILER OTHER – SPECIFY:	WELL YIELD (gpm):	0.00
ION	WELL TEST	TEST STAR	RESULTS - ATT. I TIME, END TIN	ACH A COPY OF DATA COLLECTED DURING WELL TESTING, IN ME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OV	CLUDING DISCHARGE I ER THE TESTING PERIC	METHOD, DD.
TEST; RIG SUPERVISION	MISCELLA	NEOUS INF	ORMATION:			
SUP						
RIG				L.	ISE 011 APR 8 2022	PM3:1B
EST;	DD INIT NIAN	(E(S) OF DI	DILL DIC CLIDED	LVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CON	ICTRICTION OTHER TI	LANI LICENCEE.
5. T			elo Trevino, Can		NSTRUCTION OTHER TE	IAN LICENSEE:
TURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE A CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINE AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:					
CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE SAND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING: Jack Atkins 4/7/2022					4/7/2022	
		SIGNAT	URE OF DRILLE	R / PRINT SIGNEE NAME	DATE	

FOR OSE INTERNAL USE			WR-20 WEL	L RECORD & LOC	G (Vers	sion 01/28/2022)
FILE NO. C-4601- 701	POD NO.		TRN NO.	72104		
LOCATION 25.35.05.343		WEL	L TAG ID NO.		-	PAGE 2 OF 2

Mike A. Hamman, P.E. State Engineer



Roswell Office 1900 WEST SECOND STREET ROSWELL, NM 88201

STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER

Trn Nbr:

721041

File Nbr:

C 04601 Well File Nbr: C 04601 POD1

Apr. 08, 2022

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

Greetings:

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

The Well Record was received in this office on 04/08/2022, stating that it had been completed on 03/31/2022, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 03/10/2023.

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

Sincerely,

Maret Amaral (575) 622 - 6521

drywell



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

08/016/2021

DII-NMOSE 1900 W 2nd Street Roswell, NM 88201

Hand Delivered to the DII Office of the State Engineer

Re: Well Record C-4601 Pod1

Grown Modelin

To whom it may concern:

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

If you have any questions, please contact me at 575.499.9244 or lucas@atkinseng.com.

Sincerely,

Lucas Middleton

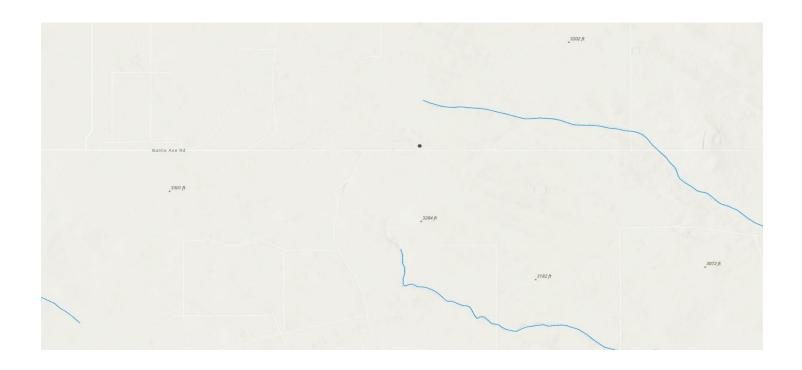
Enclosures:

as noted above

OSE DIT APR 8 2022 PM3:15



Karst Map



Hydrology Map

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 505574

QUESTIONS

ı	Operator:	OGRID:
ı	MARATHON OIL PERMIAN LLC	372098
ı	600 W Illinois Ave	Action Number:
ı	Midland, TX 79701	505574
ı		Action Type:
ı		[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites		
Incident ID (n#)	nAPP2512855150	
Incident Name	NAPP2512855150 CAVE LION 5 FEDERAL 2689 TB @ FAPP2126037448	
Incident Type	Produced Water Release	
Incident Status	Remediation Closure Report Received	
Incident Facility	[fAPP2126037448] CAVE LION 5 FED 2689 TB	

Location of Release Source		
Please answer all the questions in this group.		
Site Name	CAVE LION 5 FEDERAL 2689 TB	
Date Release Discovered	05/07/2025	
Surface Owner	Federal	

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

Nature and Volume of Release		
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.		
Crude Oil Released (bbls) Details	Not answered.	
Produced Water Released (bbls) Details	Cause: Equipment Failure Pump Produced Water Released: 66 BBL Recovered: 0 BBL Lost: 66 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)	Release was the result of a failure on the water transfer pump, vacuum truck in route to remove all freestanding fluids from the falcon lined 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 505574

Santa	re, ini	W 67505
QUESTI	ONS (cor	ntinued)
Operator: MARATHON OIL PERMIAN LLC 600 W Illinois Ave Midland, TX 79701	-	OGRID: 372098 Action Number: 505574 Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)
QUESTIONS	l	
Nature and Volume of Release (continued)		
Is this a gas only submission (i.e. only significant Mcf values reported)	No, acco	rding 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		ragraph A. "Major release" determine using: In 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.	e. gas only) a	re 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	False	
If all the actions described above have not been undertaken, explain why	A vacuun	n truck is in route to recover the fluid
Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remedia actions to date in the follow-up C-141 submission. If remedial efforts have been successfully complet Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure e	ed or if the re	lease occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of
I hereby certify that the information given above is true and complete to the best of my k 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 water, human health or the environment. In addition, OCD acceptance of a C-141 report local laws and/or regulations.	ses which adequately i	may endanger public health or the environment. The acceptance of a C-141 report b nvestigate and remediate contamination that pose a threat to groundwater, surface
I hereby agree and sign off to the above statement	Title: Env	rittany Esparza rironmental Technician ittany.Esparza@ConocoPhillips.com 12/2025

QUESTIONS

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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 505574

QUESTIONS (continued)

Operator:	OGRID:
MARATHON OIL PERMIAN LLC	372098
600 W Illinois Ave	Action Number:
Midland, TX 79701	505574
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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 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 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 1/2 and 1 (mi. Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark) Between 1 and 5 (mi.) An occupied permanent residence, school, hospital, institution, or church Greater than 5 (mi.) A spring or a private domestic fresh water well used by less than five households Greater than 5 (mi.) for domestic or stock watering purposes 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.) Between ½ and 1 (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 A 100-year floodplain Greater than 5 (mi.) Did the release impact areas not on an exploration, development, production, or No storage site

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	on 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 NMA which includes the anticipated timelines for beginning and completing the remediation.	
On what estimated date will the remediation commence	07/11/2025
On what date will (or did) the final sampling or liner inspection occur	07/16/2025
On what date will (or was) the remediation complete(d)	07/16/2025
What is the estimated surface area (in square feet) that will be remediated	12236
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	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 505574

QUESTIONS (continued)

Operator:	OGRID:
MARATHON OIL PERMIAN LLC	372098
600 W Illinois Ave	Action Number:
Midland, TX 79701	505574
	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: Brittany Esparza Title: Environmental Technician

 ${\bf Email: brittany. Esparza@ConocoPhillips.com}$

Date: 09/12/2025

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 505574

QUESTIONS (continued)

Operator:	OGRID:
MARATHON OIL PERMIAN LLC	372098
600 W Illinois Ave	Action Number:
Midland, TX 79701	505574
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Liner Inspection Information	
Last liner inspection notification (C-141L) recorded	484385
Liner inspection date pursuant to Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC	07/16/2025
Was all the impacted materials removed from the liner	Yes
What was the liner inspection surface area in square feet	12236

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	12236	
What was the total volume (cubic yards) remediated	0	
Summarize any additional remediation activities not included by answers (above)	Liner integrity inspection activities were conducted following a release of produced water within a lined containment at the Site. Upon inspection, no rips, tears, holes, or damage was observed, and the liner was determined to be sufficient. The release was contained laterally by the lined containment and the liner was performing as designed.	

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.

Name: Brittany Esparza
Title: Environmental Technician
Email: brittany.Esparza@ConocoPhillips.com

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CONDITIONS

Action 505574

CONDITIONS

Operator:	OGRID:
MARATHON OIL PERMIAN LLC	372098
600 W Illinois Ave	Action Number:
Midland, TX 79701	505574
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created B		Condition Date
scwells	None	9/16/2025