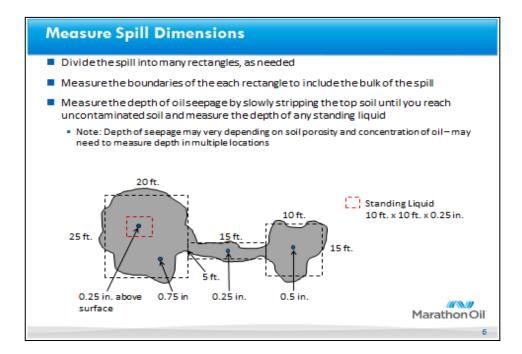
MRO Spill Calculation Tool

Standing Liquid Inputs:							
Standing Liquid Inputs:		Width (ft.) (Area					
		for	Avg. Liquid		Total Volume	Water Volume	Oil Volume
	Length (ft.)	Displacement)	Depth (in.)	% Oil	(bbls)	(bbls)	(bbls)
Rectangle Area #1	30	25	0.5		5.57	5.57	0.00
Rectangle Area #2					0.00	0.00	0.00
Rectangle Area #3					0.00	0.00	0.00
Rectangle Area #4					0.00	0.00	0.00
Rectangle Area #5					0.00	0.00	0.00
Rectangle Area #6					0.00	0.00	0.00
Vessel Displacement					0.00	0.00	0.00
Vessel Displacement					0.00	0.00	0.00
-		•		Liquid Volume:	5.57	5.57	0.00
				•		•	
Saturated Soil Inputs:		Soil Type:	Gravel Loam				
		Width (ft.) /	Avg. Saturated	•	Total Volume	Water Volume	Oil Volume
	Length (ft.)	(SQ Ft)	Depth (in.)	% Oil	(bbls)	(bbls)	(bbls)
Rectangle Area #1					0.00	0.00	0.00
Rectangle Area #2					0.00	0.00	0.00
Rectangle Area #3					0.00	0.00	0.00
Rectangle Area #4					0.00	0.00	0.00
Rectangle Area #5					0.00	0.00	0.00
Rectangle Area #6					0.00	0.00	0.00
SQ FT Calc					0.00	0.00	0.00
Rectangle Area #8					0.00	0.00	0.00
			:	Saturated Volume	0.00	0.00	0.00
					Total Volume	Water Volume	Oil Volume
				-	(bbls)	(bbls)	(bbls)
				oill Volume (bbls):	5.57	5.57	0.00
			Total Sp	oill Volume (gals):	233.77	233.77	0.00
Comments:							
			Color Key:		Supplemental	No Input	No Input
				Cells	Input Cells	(Calculations)	.to ilipat
		Gro	und/Vegetatio	on Overspray			
Cover Type		Microns	Approximate De	epth (in)			
Ground							
Dull Color		10	0.00003281				
Dark Color		50	0.00016404				
		1					

1/8"

1/4" 1/2"

3/4"



Number of Tanks Area of Displacement (Ft2)

12 2256

0.125

0.25

0.5

0.75

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

0.14

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 420232

QUESTIONS

Operator:	OGRID:
MARATHON OIL PERMIAN LLC	372098
990 Town & Country Blvd.	Action Number:
Houston, TX 77024	420232
	Action Type:
	[C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Prerequisites		
Incident ID (n#)	nAPP2501423530	
Incident Name	NAPP2501423530 THUNDERBIRD 1 FED COM TB @ 0	
Incident Type	Oil Release	
Incident Status	Initial C-141 Received	
Incident Facility	[fAPP2228624549] THUNDERBIRD 1 FED COM TB	

Location of Release Source	
Please answer all the questions in this group.	
Site Name	THUNDERBIRD 1 FED COM TB
Date Release Discovered	01/13/2025
Surface Owner	Federal

Incident Details			
Please answer all the questions in this group.			
Incident Type	Oil 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	Cause: Other Pump Crude Oil Released: 6 BBL Recovered: 6 BBL Lost: 0 BBL.		
Produced Water Released (bbls) Details	Not answered.		
Is the concentration of chloride in the produced water >10,000 mg/l	No		
Condensate Released (bbls) Details	Not answered.		
Natural Gas Vented (Mcf) Details	Not answered.		
Natural Gas Flared (Mcf) Details	Not answered.		
Other Released Details	Not answered.		
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	The KO Pump for the flare had a weep hole that was leaking resulting in the release to lined secondary containment. No soil was impacted.		

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QUESTIONS, Page 2

Action 420232

QUESTIONS (continued)

Operator: MARATHON OIL PERMIAN LLC		OGRID: 372098		
990 Town & Country Blvd.		Action Number:		
Houston, TX 77024		420232 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	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 th	ne C-129 form.		
Initial Response				
The responsible party must undertake the following actions immediately unless they could create a s	safety 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	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 remed actions to date in the follow-up C-141 submission. If remedial efforts have been successfully comple 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 to report and/or file certain release notifications and perform corrective actions for relet the OCD does not relieve the operator of liability should their operations have failed to 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 remo	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: Cody Swanson Steeg Title: Compliance Supervisor Email: swansonste@marath Date: 01/14/2025			

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storage site

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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 420232

QUESTIONS (continued)

Operator:	OGRID:
MARATHON OIL PERMIAN LLC	372098
990 Town & Country Blvd.	Action Number:
Houston, TX 77024	420232
	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 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.

Remediation Plan		
lease 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 acco	rdance with the physical realities encountered during remediation. If the responsible party has any need to	

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CONDITIONS

Action 420232

CONDITIONS

Operator:	OGRID:
MARATHON OIL PERMIAN LLC	372098
990 Town & Country Blvd.	Action Number:
Houston, TX 77024	420232
	Action Type:
	[C-141] Initial C-141 (C-141-v-Initial)

CONDITIONS

Cre	ated By	Condition	Condition Date
so	wells	None	1/14/2025