

MRO Spill Calculation Tool

Standing Liquid Inputs:

	Length (ft.)	Width (ft.) (Area for Displacement)	Avg. Liquid Depth (in.)	% Oil	Total Volume (bbls)	Water Volume (bbls)	Oil Volume (bbls)
Rectangle Area #1					300.00	300.00	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
Vessel Displacement					0.00	0.00	0.00
Vessel Displacement					0.00	0.00	0.00
Liquid Volume:					300.00	300.00	0.00

Saturated Soil Inputs:

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

	Total Volume (bbls)	Water Volume (bbls)	Oil Volume (bbls)
Total Spill Volume (bbls):	300.00	300.00	0.00
Total Spill Volume (gals):	12600.00	12600.00	0.00

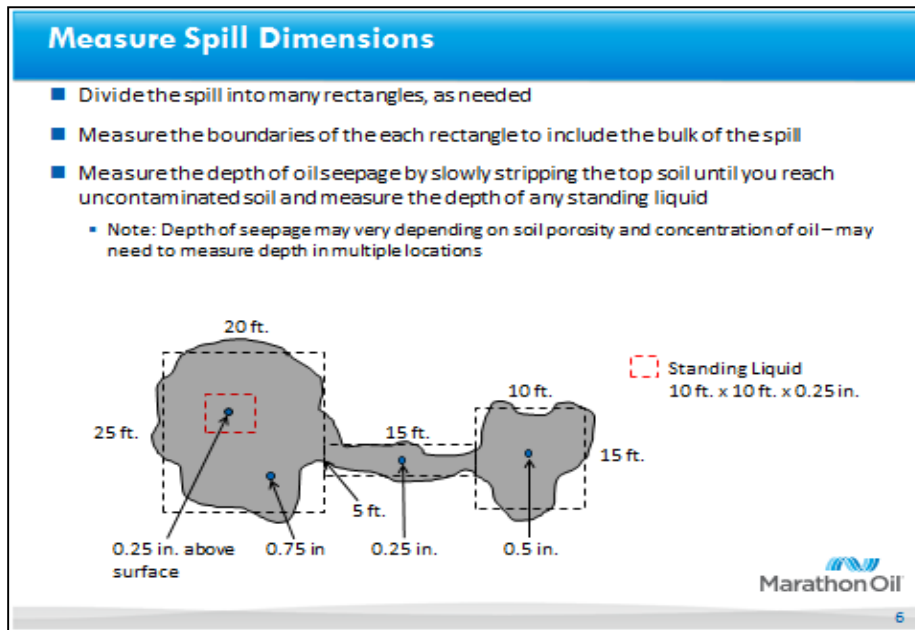
Comments:

Color Key:

Required Input Cells	Supplemental Input Cells	No Input (Calculations)	No Input
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Ground/Vegetation Overspray

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



1/8"	0.125
1/4"	0.25
1/2"	0.5
3/4"	0.75

Number of Tanks	Area of Displacement (Ft ²)
15	2820

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

Vacuum Truck Tickets

AAA TRUCKING TIME TICKET No. 33518

204 Kennel Ln.
Carlsbad, NM 88220
(575) 725-8802

DATE: 2-05-25
CUSTOMER: Marathon
RIG NAME / NUMBER:
WORK LOCATION (NAME): Grama Ridge Est 235

FROM	TO	HOURS	DESCRIPTION
4:00 AM			Work on location
			Clipping the battery
			connector
			* Hauled 40 bbl of
			p/w the location to
			SWD

WASHOUT ☐ QTY OF LOADS:

NAME	BARRELS/YDS	UNIT. NO.	HOURS	AMOUNT
Carlos Carrillo	40	425		

SERVICE PROVIDED

☐ END DUMP	☐ TRASH WATER
☐ VAC TRUCK	☐ FRESH WATER
☐ WINCH TRUCK	☐ BRINE WATER
☐ JET PUMP	☐ PRODUCED WATER
	☐ OIL BASE MUD
	☐ WATER BASE MUD
	☐ CITY WATER

TOTAL HOURS: 1.50
CUSTOMER SIGNATURE: [Signature]

AAA TRUCKING TIME TICKET No. 33517

204 Kennel Ln.
Carlsbad, NM 88220
(575) 725-8802

DATE: 2-04-25
CUSTOMER: Marathon
RIG NAME / NUMBER:
WORK LOCATION (NAME): Grama Ridge Est 235

FROM	TO	HOURS	DESCRIPTION
4:00 PM	4:00 AM		* Hauled 1 load 120 bbl
			of p/w the loc to SWD
			* Work on location
			BIG EDDY 26828
			26833

WASHOUT ☐ QTY OF LOADS: 1

NAME	BARRELS/YDS	UNIT. NO.	HOURS	AMOUNT
Carlos Carrillo	120	425	14	

SERVICE PROVIDED

☐ END DUMP	☐ TRASH WATER
☐ VAC TRUCK	☐ FRESH WATER
☐ WINCH TRUCK	☐ BRINE WATER
☐ JET PUMP	☐ PRODUCED WATER
	☐ OIL BASE MUD
	☐ WATER BASE MUD
	☐ CITY WATER

TOTAL HOURS: 14.00
CUSTOMER SIGNATURE: [Signature]
CONTRACTOR SIGNATURE: [Signature]

AAA TRUCKING
204 Kennel Ln.
Carlsbad, NM 88220
(575) 725-8802

TIME TICKET
No 36420

DATE: 02-04-25
CUSTOMER: Marathon
RIG NAME / NUMBER: Marathon 811
WORK LOCATION (NAME): Grading Edge 5

FROM	TO	HOURS	DESCRIPTION
		12	work location Container cleaning
			Big City 26,829

WASHOUT ☐ QTY OF LOADS:

NAME	BARRELS/YDS	UNIT. NO.	HOURS	AMOUNT
Van Chavet	120	143		

SERVICE PROVIDED

☐ END DUMP	☐ TRASH WATER
☐ VAC TRUCK	☐ FRESH WATER
☐ WINCH TRUCK	☐ BRINE WATER
☐ JET PUMP	☒ PRODUCED WATER
	☐ OIL BASE MUD
	☐ WATER BASE MUD
	☐ CITY WATER

TOTAL HOURS
Addato Jm
CUSTOMER SIGNATURE
CONTRACTOR SIGNATURE

AAA TRUCKING
204 Kennel Ln.
Carlsbad, NM 88220
(575) 725-8802

TIME TICKET
No 36421

DATE: 02-05-25
CUSTOMER: Marathon 811
RIG NAME / NUMBER: Marathon 811
WORK LOCATION (NAME): Grading Edge 5

FROM	TO	HOURS	DESCRIPTION
			work location Container cleaning

WASHOUT ☐ QTY OF LOADS:

NAME	BARRELS/YDS	UNIT. NO.	HOURS	AMOUNT
Van Chavet	20	142		

SERVICE PROVIDED

☐ END DUMP	☐ TRASH WATER
☐ VAC TRUCK	☐ FRESH WATER
☐ WINCH TRUCK	☐ BRINE WATER
☐ JET PUMP	☒ PRODUCED WATER
	☐ OIL BASE MUD
	☐ WATER BASE MUD
	☐ CITY WATER

TOTAL HOURS
Addato Jm
CUSTOMER SIGNATURE
CONTRACTOR SIGNATURE

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 428473

QUESTIONS

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 428473
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2503621987
Incident Name	NAPP2503621987 GRAMA RIDGE 8 STATE 235 TB @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Received
Incident Facility	[fAPP2126038584] GRAMA RIDGE 8 STATE 235 TB

Location of Release Source*Please answer all the questions in this group.*

Site Name	GRAMA RIDGE 8 STATE 235 TB
Date Release Discovered	02/04/2025
Surface Owner	State

Incident Details*Please answer all the questions in this group.*

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

Nature and Volume of Release*Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.*

Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure Tank (Any) Produced Water Released: 300 BBL Recovered: 300 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)	A leak was round near a connection of piping to a produced water tank. The tank was isolated and standing fluids have been recovered. Estimated volumes based on recovery tickets are 300 bbl of produced water. All fluid is contained within lined secondary containment.

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QUESTIONS, Page 2

Action 428473

QUESTIONS (continued)

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QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

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

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

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

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

I hereby agree and sign off to the above statement	Name: Cody Swanson Steege Title: Compliance Supervisor Email: swansonste@marathonoil.com Date: 02/05/2025
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QUESTIONS, Page 3

Action 428473

QUESTIONS (continued)

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	Action Number: 428473
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Site Characterization	
<i>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.</i>	
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	
<i>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.</i>	
Requesting a remediation plan approval with this submission	No
<i>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.</i>	

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CONDITIONS

Action 428473

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Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 428473
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	None	2/5/2025