

\*\*\*\*\* LIQUID SPILLS - VOLUME CALCULATIONS \*\*\*\*\*

Location of Spill: Vacuum ABO Battery 3 Release Date of Spill: 5/13/2024

If the leak/spill is associated with production equipment, i.e. - wellhead, stuffing box, flowline, tank battery, production vessel, transfer pump, or storage tank place an "X" here: ☒

Input Data:

If spill volumes from measurement, i.e. metering, tank volumes, etc.are known enter the volumes here: OIL: 45.0000 BBL WATER: 0.0000 BBL

If "known" spill volumes are given, input data for the following "Area Calculations" is optional. The above will override the calculated volumes.

Total Area Calculations					Standing Liquid Calculations				
Total Surface Area	width	length	wet soil depth	oil (%)	Standing Liquid Area	width	length	liquid depth	oil (%)
Rectangle Area #1	3.00 ft	X 25.00 ft	X 3.00 in	100.00%	Rectangle Area #1	5.00 ft	X 60.00 ft	X 6.00 in	100.00%
Rectangle Area #2	0.00 ft	X 0.00 ft	X 0.00 in	0.00%	Rectangle Area #2	8.00 ft	X 25.00 ft	X 6.00 in	100.00%
Rectangle Area #3	0.00 ft	X 0.00 ft	X 0.00 in	0.00%	Rectangle Area #3	0.00 ft	X 0.00 ft	X 0.00 in	0.00%
Rectangle Area #4	0.00 ft	X 0.00 ft	X 0.00 in	0.00%	Rectangle Area #4	0.00 ft	X 0.00 ft	X 0.25 in	0.00%
Rectangle Area #5	0.00 ft	X 0.00 ft	X 0.00 in	0.00%	Rectangle Area #5	0.00 ft	X 0.00 ft	X 0.00 in	0.00%
Rectangle Area #6	0.00 ft	X 0.00 ft	X 0.00 in	0.00%	Rectangle Area #6	0.00 ft	X 0.00 ft	X 0.00 in	0.00%
Rectangle Area #7	0.00 ft	X 0.00 ft	X 0.00 in	0.00%	Rectangle Area #7	0.00 ft	X 0.00 ft	X 0.00 in	0.00%
Rectangle Area #8	0.00 ft	X 0.00 ft	X 0.00 in	0.00%	Rectangle Area #8	0.00 ft	X 0.00 ft	X 0.00 in	0.00%

ERROR - Standing Liquid Area larger than Total Area, Review Data Input

production system leak - DAILY PRODUCTION DATA REQUIRED

Average Daily Production: Oil BBL Water BBL

Did leak occur before the separator?: ☐ YES ☒ N/A (place an "X")

Amount of Free Liquid Recovered: 40 BBL okay

Percentage of Oil in Free Liquid Recovered: 100.00% (percentage)

Liquid holding factor \*: 0.14 gal per gal

Use the following when the spill wets the grains of the soil.  
\* sand = .08 gallon liquid per gallon volume of soil.  
\* gravelly (caliche) loam = .14 gallon liquid per gallon volume of soil.  
\* sandy clay loam soil = .14 gallon liquid per gallon volume of soil.  
\* clay loam = .16 gallon liquid per gallon volume of soil.

Use the following when the liquid completely fills the pore space of the soil:  
Occurs when the spill soaked soil is contained by barriers, natural (or not).  
\* gravelly (caliche) loam = .25 gallon liquid per gallon volume of soil.  
\* sandy loam = .5 gallon liquid per gallon volume of soil.

Saturated Soil Volume Calculations:			Free Liquid Volume Calculations:		
Total Solid/Liquid Volume:	H2O cu. ft.	OIL cu. ft.	Total Free Liquid Volume:	H2O cu. ft.	OIL cu. ft.
75 sq. ft.		19 cu. ft.	500 sq. ft.		250 cu. ft.
Estimated Volumes Spilled			Estimated Production Volumes Lost		
Liquid in Soil:	H2O 0.0 BBL	OIL 0.5 BBL	Estimated Production Spilled:	H2O 0.0 BBL	OIL 45.0 BBL
Free Liquid:	0.0 BBL	44.5 BBL	Estimated Surface Damage		
Totals:	0.0 BBL	45.0 BBL	Surface Area: 500 sq. ft.		
Total Spill Liquid:	0.0 BBL	45.0 BBL	Surface Area: .0115 acre		
Recovered Volumes			Estimated Weights, and Volumes		
Estimated oil recovered:	40.0 BBL	check - okay	Saturated Soil =	2,100 lbs	19 cu.ft.
Estimated water recovered:	0.0 BBL	check - okay	Total Liquid =	45 BBL	1,890 gallon
					15,725 lbs

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**District IV**  
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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 344588

QUESTIONS

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 344588
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2413560044
Incident Name	NAPP2413560044 VACUUM ABO BATTERY #3 RELEASE @ 0
Incident Type	Oil Release
Incident Status	Initial C-141 Received
Incident Facility	[fPAC0603854647] VACUUM ABO BATTERY #3

<b>Location of Release Source</b>	
Please answer all the questions in this group.	
Site Name	Vacuum ABO Battery #3 Release
Date Release Discovered	05/13/2024
Surface Owner	State

<b>Incident Details</b>	
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

<b>Nature and Volume of Release</b>	
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: Separation Flowback   Valve   Crude Oil   Released: 45 BBL   Recovered: 40 BBL   Lost: 5 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)	On May 13, 2024, A release was discovered at the Vacuum ABO Battery #3 tank battery which was mostly contained within the unlined battery secondary containment. A small amount of oil overtopped a low portion of the containment and ran off pad into the adjacent pasture. Initial response recovered approximately 40 bbls of oil.

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**QUESTIONS (continued)**

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**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
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: Chuck Terhune Email: <a href="mailto:chuck.terhune@tetrattech.com">chuck.terhune@tetrattech.com</a> Date: 05/15/2024
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Action 344588

QUESTIONS (continued)

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QUESTIONS

<b>Site Characterization</b>	
<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)	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
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 500 and 1000 (ft.)
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	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1000 (ft.) and ½ (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 500 and 1000 (ft.)
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	Yes

<b>Remediation Plan</b>	
<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

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CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	None	5/15/2024