

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

Location of Spill: Vacuum ABO Battery 2 Release

Date of Spill: 3/16/2025

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: BBL WATER: 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		oil (%)	Standing Liquid Area	width	length	liquid depth	oil (%)	
			depth								
Rectangle Area #1	30.00 ft	X 100.00 ft	X 3.00 in		25.00%	Rectangle Area #1	30.00 ft	X 100.00 ft	X 0.20 in	25.00%	
Rectangle Area #2	0.00 ft	X 0.00 ft	X 0.00 in		0.00%	Rectangle Area #2	0.00 ft	X 0.00 ft	X 0.10 in	25.00%	
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 0.00 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%	

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: 8 BBL okay

Percentage of Oil in Free Liquid Recovered: 25.00% (percentage)

Liquid holding factor *: 0.08 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:

Total Solid/Liquid Volume: 3,000 sq. ft. H2O 563 cu. ft. OIL 188 cu. ft.

Estimated Volumes Spilled

Liquid in Soil: H2O 8.0 BBL OIL 2.7 BBL
Free Liquid: 6.7 BBL 2.2 BBL
Totals: 14.7 BBL 4.9 BBL

Total Spill Liquid: 14.7 BBL 4.9 BBL

Recovered Volumes

Estimated oil recovered: 2.0 BBL check - okay
Estimated water recovered: 6.0 BBL Oil recovered as released as operator was on site as leak

Free Liquid Volume Calculations:

Total Free Liquid Volume: 3,000 sq. ft. H2O 38 cu. ft. OIL 13 cu. ft.

Estimated Production Volumes Lost

Estimated Production Spilled: H2O 0.0 BBL OIL 0.0 BBL

Estimated Surface Damage

Surface Area: 3,000 sq. ft.
Surface Area: .0689 acre

Estimated Weights, and Volumes

Saturated Soil = 84,000 lbs 750 cu.ft. 28 cu.yds.
Total Liquid = 20 BBL 823 gallon 6,846 lbs

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 444401

QUESTIONS

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 444401
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2507953016
Incident Name	NAPP2507953016 VACUUM ABO BATTERY #2 RELEASE @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Received
Incident Facility	[fPAC0628649265] VACUUM ABO BATTERY #2

Location of Release Source

Please answer all the questions in this group.

Site Name	Vacuum Abo Battery #2 Release
Date Release Discovered	03/16/2025
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	Cause: Equipment Failure Other (Specify) Crude Oil Released: 5 BBL Recovered: 2 BBL Lost: 3 BBL.
Produced Water Released (bbls) Details	Cause: Equipment Failure Other (Specify) Produced Water Released: 15 BBL Recovered: 6 BBL Lost: 9 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)	on March 16, 2025, a high wind weather event caused tank battery communication equipment to fail resulting in the release of 15 bbls of produced water and 5 bbls of oil onto the facility pad between the flowline header and the edge of the facility pad.

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QUESTIONS, Page 2

Action 444401

QUESTIONS (continued)

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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: Chuck Terhune Title: Program Manager Email: chuck.terhune@tetrattech.com Date: 03/20/2025
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QUESTIONS, Page 3

Action 444401

QUESTIONS (continued)

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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

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CONDITIONS

Created By	Condition	Condition Date
scwells	None	3/21/2025