

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

Location of Spill: EAST VACUUM (GSA) UNIT #007

Date of Spill: 2/27/2008

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: 6.000 BBL WATER: 16.000 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	0.00 ft X	0.00 ft X	0.00 in	0.00%	Rectangle Area #1	0.00 ft X	0.00 ft X	0.50 in	0.00%
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	0.00 in	0.00%
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: 10 BBL **ERROR - Recovered volume greater than spilled volume**

Percentage of Oil in Free Liquid Recovered: 20.00% (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.

<u>Saturated Soil Volume Calculations:</u>				<u>Free Liquid Volume Calculations:</u>			
Total Solid/Liquid Volume:	sq. ft.	H2O cu. ft.	OIL cu. ft.	Total Free Liquid Volume:	sq. ft.	H2O cu. ft.	OIL cu. ft.
<b>Estimated Volumes Spilled</b>				<b>Estimated Production Volumes Lost</b>			
Liquid in Soil:		<u>0.0</u> BBL	<u>0.0</u> BBL	Estimated Production Spilled:		<u>16.0</u> BBL	<u>6.0</u> BBL
Free Liquid:		<u>0.0</u> BBL	<u>0.0</u> BBL	<b>Estimated Surface Damage</b>			
Totals:		<u>0.0</u> BBL	<u>0.0</u> BBL	Surface Area:	sq. ft.		
				Surface Area:	.0000 acre		
Total Spill Liquid:		<u>16.0</u> BBL	<u>6.0</u> BBL	<b>Estimated Weights, and Volumes</b>			
<b>Recovered Volumes</b>				Saturated Soil =	lbs	cu. ft.	cu. yds.
Estimated oil recovered:	<u>2.0</u> BBL	check - okay		Total Liquid =	<u>22</u> BBL	<u>924</u> gallon	<u>7,688</u> lbs
Estimated water recovered:	<u>8.0</u> BBL	check - okay					

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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 366347

**QUESTIONS**

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199 Action Number: 366347 Action Type: [C-141] Initial C-141 (C-141-v-Initial)
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**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nCOH0805928200
Incident Name	NCOH0805928200 EAST VACUUM (GSA) UNIT #007 @ 30-025-32057
Incident Type	Oil Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-32057] EAST VACUUM (GSA) UNIT #007
Incident Facility	[fCOH0805927699] EVGSAU 3440-007

**Location of Release Source**

*Please answer all the questions in this group.*

Site Name	EAST VACUUM (GSA) UNIT #007
Date Release Discovered	02/27/2008
Surface Owner	State

**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   Other (Specify)   Crude Oil   Released: 6 BBL   Recovered: 2 BBL   Lost: 4 BBL.
Produced Water Released (bbls) Details	Cause: Other   Other (Specify)   Produced Water   Released: 16 BBL   Recovered: 8 BBL   Lost: 8 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)	Not answered.

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Action 366347

**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)	<b>No, according to supplied volumes this does not appear to be a "gas only" report.</b>
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	<b>No</b>
Reasons why this would be considered a submission for a notification of a major release	<i>Unavailable.</i>

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

*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: 07/23/2024
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Action 366347

**QUESTIONS (continued)**

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**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 release in feet below ground surface (ft bgs)	Between 51 and 75 (ft.)
What method was used to determine the depth to ground water	Estimate or Other
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 1000 (ft.) and ½ (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 for domestic or stock watering purposes	Between ½ and 1 (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1000 (ft.) and ½ (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	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

<b>Remediation Plan</b>	
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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CONDITIONS

Action 366347

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**CONDITIONS**

Created By	Condition	Condition Date
amaxwell	Accepted for record only. Initial C-141 was received 02/27/2008.	7/23/2024
amaxwell	On 4/17/2023 closure was denied "Closure for this incident is not approved. The OCD requires that this release be Remediated according to 19.15.29.12 NMAC and 19.15.29 13 NMAC as they apply to this release and resubmit a closure report by 07/12/2023."	7/23/2024
amaxwell	This release is currently out of compliance. A report is due November 25, 2024. Failure to submit a complete report by November 25, 2024 may result in compliance and enforcement penalties pursuant to 19.15.5 NMAC.	7/23/2024