

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

Location of Spill: EAST VACUUM (GSA) UNIT #001

Date of Spill: 1/27/2018

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:

X

## Input Data:

If spill volumes from measurement, i.e. metering, tank volumes, etc. are known enter the volumes here: OIL: 5.0000 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       | 0.00 ft | X     | 0.00 ft | X              | 0.00 in | 0.00%                        | Rectangle Area #1 | 0.00 ft | X      | 0.00 ft      | X       | 0.00 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: 1 BBL ERROR - Recovered volume greater than spilled volume

Percentage of Oil in Free Liquid Recovered: ##### (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: sq. ft. H2O cu. ft. OIL cu. ft.

## Estimated Volumes Spilled

Liquid in Soil: 0.0 BBL 0.0 BBL  
Free Liquid: 0.0 BBL 0.0 BBL  
Totals: 0.0 BBL 0.0 BBL

Total Spill Liquid: 0.0 BBL 5.0 BBL

## Recovered Volumes

Estimated oil recovered: 1.0 BBL check - okay  
Estimated water recovered: 0.0 BBL check - okay

## Free Liquid Volume Calculations:

Total Free Liquid Volume: sq. ft. H2O cu. ft. OIL cu. ft.

## Estimated Production Volumes Lost

Estimated Production Spilled: 0.0 BBL 5.0 BBL

## Estimated Surface Damage

Surface Area: sq. ft.  
Surface Area: .0000 acre

## Estimated Weights, and Volumes

Saturated Soil = lbs cu.ft. cu.yds.  
Total Liquid = 5 BBL 210 gallon 1,747 lbs

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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 364847

QUESTIONS

|                                                                                        |                                                         |
|----------------------------------------------------------------------------------------|---------------------------------------------------------|
| Operator:<br>Maverick Permian LLC<br>1000 Main Street, Suite 2900<br>Houston, TX 77002 | OGRID:<br>331199                                        |
|                                                                                        | Action Number:<br>364847                                |
|                                                                                        | Action Type:<br>[C-141] Initial C-141 (C-141-v-Initial) |

QUESTIONS

|                      |                                                          |
|----------------------|----------------------------------------------------------|
| <b>Prerequisites</b> |                                                          |
| Incident ID (n#)     | nOY1803031043                                            |
| Incident Name        | NOY1803031043 EAST VACUUM (GSA) UNIT #001 @ 30-025-26658 |
| Incident Type        | Oil Release                                              |
| Incident Status      | Initial C-141 Approved                                   |
| Incident Well        | [30-025-26658] EAST VACUUM (GSA) UNIT #001               |

|                                                       |                             |
|-------------------------------------------------------|-----------------------------|
| <b>Location of Release Source</b>                     |                             |
| <i>Please answer all the questions in this group.</i> |                             |
| Site Name                                             | EAST VACUUM (GSA) UNIT #001 |
| Date Release Discovered                               | 01/27/2018                  |
| Surface Owner                                         | State                       |

|                                                                                                      |             |
|------------------------------------------------------------------------------------------------------|-------------|
| <b>Incident Details</b>                                                                              |             |
| <i>Please answer all the questions in this group.</i>                                                |             |
| 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>                                                                                                                                                         |                                                                                                            |
| <i>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.</i> |                                                                                                            |
| Crude Oil Released (bbls) Details                                                                                                                                                           | Cause: Equipment Failure   Other (Specify)   Crude Oil   Released: 5 BBL   Recovered: 1 BBL   Lost: 4 BBL. |
| Produced Water Released (bbls) Details                                                                                                                                                      | Not answered.                                                                                              |
| Is the concentration of chloride in the produced water >10,000 mg/l                                                                                                                         | Not answered.                                                                                              |
| 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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QUESTIONS, Page 2

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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)                                                                                      | <b>More info needed to determine if this will be treated as 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>                                                                  |
| <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.</i> |                                                                                      |

**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<br>Title: Program Manager<br>Email: <a href="mailto:chuck.terhune@tetrattech.com">chuck.terhune@tetrattech.com</a><br>Date: 07/17/2024 |
|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|

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QUESTIONS, Page 3

Action 364847

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                                                                                                                                                                                          | 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 ½ and 1 (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 1 and 5 (mi.)   |
| Any other fresh water well or spring                                                                                                                                                                                                                 | Between 1 and 5 (mi.)   |
| Incorporated municipal boundaries or a defined municipal fresh water well field                                                                                                                                                                      | Greater than 5 (mi.)    |
| A wetland                                                                                                                                                                                                                                            | Between ½ and 1 (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>                                                                                                                                                                                                                                                                                                                                                               |    |
| <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 364847

CONDITIONS

|                                                                                        |                                                         |
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CONDITIONS

| Created By | Condition                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Condition Date |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| bhall      | Accepted for record only. Initial C-141 was received January 30, 2018. On March 3, 2023, a remediation closure report was denied due to final confirmation samples were not collected from the remediated area and a closure report was due June 28, 2023.This release is currently out of compliance. A report is due by September 20, 2024. Failure to submit a complete report by September 20, 2024 may result in compliance and enforcement penalties pursuant to 19.15.5 NMAC. | 7/18/2024      |
| bhall      | Be advised that the Site Characterization data will not be accepted until the required attachments are included when a remediation plan/closure report are submitted.                                                                                                                                                                                                                                                                                                                | 7/18/2024      |