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

**Location of spill:** MLMU #204 **Date of Spill:** 11/21/2023

**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:

| | OIL: | WATER: |
|---|---|---|
| If spill volumes from measurement, i.e. metering, tank volumes, etc.are known enter the volumes here: | 0.0000 BBL | 100.0000 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

| Total Surface Area | width | | length | | wet soil depth | oil (%) |
|---|---|---|---|---|---|---|
| Rectangle Area #1 | 72 ft | X | 225 ft | X | 2.71 in | 0% |
| Rectangle Area #2 | 0 ft | X | 0 ft | X | 0.00 in | 0% |
| Rectangle Area #3 | 0 ft | X | 0 ft | X | 0.00 in | 0% |
| Rectangle Area #4 | 0 ft | X | 0 ft | X | 0.00 in | 0% |
| Rectangle Area #5 | 0 ft | X | 0 ft | X | 0.00 in | 0% |
| Rectangle Area #6 | 0 ft | X | 0 ft | X | 0.00 in | 0% |
| Rectangle Area #7 | 0 ft | X | 0 ft | X | 0.00 in | 0% |
| Rectangle Area #8 | 0 ft | X | 0 ft | X | 0.00 in | 0% |

### Standing Liquid Calculations

| Standing Liquid Area | width | | length | | liquid depth | oil (%) |
|---|---|---|---|---|---|---|
| Rectangle Area #1 | 10 ft | X | 10 ft | X | 1 in | 0% |
| Rectangle Area #2 | 0 ft | X | 0 ft | X | 0 in | 0% |
| Rectangle Area #3 | 0 ft | X | 0 ft | X | 0 in | 0% |
| Rectangle Area #4 | 0 ft | X | 0 ft | X | 0 in | 0% |
| Rectangle Area #5 | 0 ft | X | 0 ft | X | 0 in | 0% |
| Rectangle Area #6 | 0 ft | X | 0 ft | X | 0 in | 0% |
| Rectangle Area #7 | 0 ft | X | 0 ft | X | 0 in | 0% |
| Rectangle Area #8 | 0 ft | X | 0 ft | X | 0 in | 0% |

okay

**production system leak - DAILY PRODUCTION DATA REQUIRED**

Average Daily Production: Oil BBL Water 0 BBL

Did leak occur before the separator?: [ ] YES [X] N/A *(place an "X")*

Amount of Free Liquid Recovered: 2 BBL okay

Percentage of Oil in Free Liquid Recovered: 0% (percentage)

Liquid holding factor *: 0.15 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:
Occures 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:

| | | H2O | OIL |
|---|---|---|---|
| Total Solid/Liquid Volume: | 16,200 sq. ft. | 3,659 cu. ft. | cu. ft. |

### Free Liquid Volume Calculations:

| | | H2O | OIL |
|---|---|---|---|
| Total Free Liquid Volume: | 100 sq. ft. | 11.667 cu. ft. | .000 cu. ft. |

### Estimated Volumes Spilled

| | H2O | OIL |
|---|---|---|
| Liquid in Soil: | 97.7 BBL | 0.0 BBL |
| Free Liquid: | 2.1 BBL | 0.0 BBL |
| Totals: | 99.812 BBL | 0.000 BBL |
| Total Liquid Spill Liquid: | 100.000 BBL | 0.000 BBL |

### Estimated Production Volumes Lost

| | H2O | OIL |
|---|---|---|
| Estimated Production Spilled: | ######### BBL | 0.000000 BBL |

### Estimated Surface Damage

Surface Area: 16,200 sq. ft.
Surface Area: .3719 acre

### Recovered Volumes

Estimated oil recovered: 0.0 BBL check - okay
Estimated water recovered: 2.0 BBL check - okay

### Estimated Weights, and Volumes

| | | | |
|---|---|---|---|
| Saturated Soil = | 409,752 lbs | 3,659 cu.ft. | 136 cu.yds. |
| Total Liquid = | 100 BBL | 4,200.00 gallon | 34,944 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 302030

## QUESTIONS

| | |
|---|---|
| Operator:<br>J R OIL, LTD. CO.<br>P.O. Box 53657<br>Lubbock, TX 79453 | OGRID:<br>256073 |
| | Action Number:<br>302030 |
| | Action Type:<br>[C-141] Initial C-141 (C-141-v-Initial) |

**QUESTIONS**

| **Prerequisites** | |
|---|---|
| Incident ID (n#) | **nAPP2332543477** |
| Incident Name | **NAPP2332543477 MYERS LANGLIE MATTIX UNIT INJECTION SYSTEM @ 0** |
| Incident Type | **Produced Water Release** |
| Incident Status | **Initial C-141 Received** |

| **Location of Release Source** | |
|---|---|
| *Please answer all the questions in this group.* | |
| Site Name | Myers Langlie Mattix Unit Injection System |
| Date Release Discovered | 11/20/2023 |
| Surface Owner | Private |

| **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: Corrosion \| Coupling \| Crude Oil \| Released: 0 BBL \| Recovered: 0 BBL \| Lost: 0 BBL. |
| Produced Water Released (bbls) Details | Cause: Corrosion \| Flow Line - Injection \| Produced Water \| Released: 100 BBL \| Recovered: 2 BBL \| Lost: 98 BBL. |
| Is the concentration of chloride in the produced water >10,000 mg/l | No |
| Condensate Released (bbls) Details | Cause: Corrosion \| Coupling \| Condensate \| Released: 0 BBL \| Recovered: 0 BBL \| Lost: 0 BBL. |
| Natural Gas Vented (Mcf) Details | *Not answered.* |
| Natural Gas Flared (Mcf) Details | *Not answered.* |
| Other Released Details | Cause: Corrosion \| Coupling \| Unknown \| Released: 0 BBL \| Recovered: 0 BBL \| Lost: 0 BBL. |
| Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts) | NA |

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## 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:**<br>**(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 | Leak has been isolated and contained. |
| *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: Joe Tippy<br>Title: Manager<br>Email: rtippy@ravenop.com<br>Date: 01/12/2024 |

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## QUESTIONS (continued)

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|---|---|
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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) | *Not answered.* |
| What method was used to determine the depth to ground water | *Not answered.* |
| Did this release impact groundwater or surface water | No |
| **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 | Greater than 5 (mi.) |
| Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark) | Greater than 5 (mi.) |
| An occupied permanent residence, school, hospital, institution, or church | Between 1 and 5 (mi.) |
| 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** | |
|---|---|
| *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 302030

## CONDITIONS

| | |
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**CONDITIONS**

| Created By | Condition | Condition Date |
|---|---|---|
| scwells | None | 1/12/2024 |