

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

Location of spill: Marquardt Federal 11H,12H,17H,18H CTB Date of Spill: 1/13/2024

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:

OIL:0.0000 BBL

WATER:0.0000 BBL

If spill volumes from measurement, i.e. metering, tank volumes, etc. are known enter the volumes here:

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	20 ft	X	69 ft	X	1 in	0%	Rectangle Area #1	8 ft	X	50 ft	X	0.25 in	0%
Rectangle Area #2	15 0 0		30 ft	X	1 in	0%	Rectangle Area #2	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #3	2 0 0		40 ft	X	1 in	0%	Rectangle Area #3	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #4	0 0 0		0 ft	X	0 in	0%	Rectangle Area #4	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #5	0 0 0		0 ft	X	0 in	0%	Rectangle Area #5	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #6	0 0 0		0 ft	X	0 in	0%	Rectangle Area #6	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #7	0 0 0		0 ft	X	0 in	0%	Rectangle Area #7	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #8	0 0 0		0 ft	X	0 in	0%	Rectangle Area #8	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #9	0 0 0		0 ft	X	0 in	0%	Rectangle Area #9	0 ft	X	0 ft	X	0 in	0%

Saturated Soil Volume Calculations:

Total Solid/Liquid Volume:1,910 sq. ft.

Estimated Volumes Spilled

Liquid in Soil:4.0 BBL

Free Liquid:1.5 BBL

Totals:5.453 BBL

Recovered:0.0 BBL

Total Liquid Spill Liquid:5.453 BBL

Recovered Volumes

Estimated oil recovered:0.0 BBL

Estimated water recovered:0.0 BBL

H2O

159 cu. ft.

OIL

0.0 BBL

0.0 BBL

0.000 BBL

0.000 BBL

0.000 BBL

check - okay

check - okay

Free Liquid Volume Calculations:

Total Free Liquid Volume:400 sq. ft.

Estimated Production Volumes Lost

Estimated Production Spilled:0.000000 BBL

Estimated Surface Damage

Surface Area:1,910 sq. ft.

Surface Area:.0438 acre

Estimated Weights, and Volumes

Saturated Soil =17,827 lbs

Total Liquid =5 BBL

H2O

8.333 cu. ft.

OIL

0.000000 BBL

0.000000 BBL

159 cu.ft.

229.01 gallon

6 cu.yds.

1,905 lbs

Released to Imaging: 1/26/2024 11:43:34 AM

Spill Calculation Spreadsheet - bdj -1/26/2024



CIMAREX ENERGY
MARQUARDT FEDERAL 11H CTB
EDDY, NM





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MARQUARDT FEDERAL 11H CTB
EDDY, NM



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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 308348

QUESTIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd, Ste 300N Midland, TX 79706	OGRID: 162683
	Action Number: 308348
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2402475049
Incident Name	NAPP2402475049 MARQUARDT FEDERAL 11H,12H,17H,18H CTB @ 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	Marquardt Federal 11H,12H,17H,18H CTB
Date Release Discovered	01/13/2024
Surface Owner	Federal

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	Not answered.
Produced Water Released (bbls) Details	Cause: Human Error Valve Produced Water Released: 6 BBL Recovered: 2 BBL Lost: 4 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 January 11, 2024, the Lease Operator arrived on location and found the water tank load line hose was left hooked up and the valve cracked allowing 5.5 barrels produced water to release inside and outside lined containment. The valve was immediately closed and a vac truck dispatched to recover standing fluid. An environmental consultant will be contacted and impacted soils remediated in the coming weeks. Released: 5.5 barrels water (1.5 barrels inside containment + 4 barrels outside containment) Recovered: 1.5 barrels from containment

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QUESTIONS, Page 2

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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: Laci Luig Title: ES&H Specialist Email: DL_PermianEnvironmental@coterra.com Date: 01/26/2024
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QUESTIONS, Page 3

Action 308348

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)	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

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

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CONDITIONS

Created By	Condition	Condition Date
scwells	None	1/26/2024