

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

Location of spill: Riverbend 12-13 Federal Com 20H Date of Spill: 9/14/2024

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:

If spill volumes from measurement, i.e. metering, tank volumes, etc. are known enter the volumes here: OIL: 0.0000 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	68 ft X	35 ft X	1 in	0%		Rectangle Area #1	68 ft X	35 ft X	0.10 in	0%	
Rectangle Area #2	46 ft X	10 ft X	1 in	0%		Rectangle Area #2	46 ft X	10 ft X	0.10 in	0%	
Rectangle Area #3	32 ft X	4 ft X	1 in	0%		Rectangle Area #3	32 ft X	4 ft X	0.10 in	0%	
Rectangle Area #4	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 #5	0 ft X	0 ft X	0 in	0%	
Rectangle Area #6	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 #7	0 ft X	0 ft X	0 in	0%	
Rectangle Area #8	0 ft X	0 ft X	0 in	0%		Rectangle Area #8	0 ft X	0 ft X	0 in	0%	

okay

Production Data NOT Required

Average Daily Production: Oil 0 BBL Water 0 BBL

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

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

Liquid holding factor *: 0.14 gal per gal Use the following when the spill wets the grains of the soil. Use the following when the liquid completely fills the pore space of the soil.
* sand = .08 gallon liquid per gallon volume of soil. Occurs when the spill soaked soil is contained by barriers, natural (or not).
* gravelly (caliche) loam = .14 gallon liquid per gallon volume of soil. * gravelly (caliche) loam = .25 gallon liquid per gallon volume of soil.
* sandy clay loam soil = .14 gallon liquid per gallon volume of soil. * sandy loam = .5 gallon liquid per gallon volume of soil.
* clay loam = .16 gallon liquid per gallon volume of soil.

<u>Saturated Soil Volume Calculations:</u>				<u>Free Liquid Volume Calculations:</u>			
Total Solid/Liquid Volume:	2,968 sq. ft.	H2O 247 cu. ft.	OIL cu. ft.	Total Free Liquid Volume:	2,968 sq. ft.	H2O 24.733 cu. ft.	OIL .000 cu. ft.
<u>Estimated Volumes Spilled</u>				<u>Estimated Production Volumes Lost</u>			
Liquid in Soil:	6.2 BBL	H2O 0.0 BBL	OIL 0.0 BBL	Estimated Production Spilled:	0.000000 BBL	H2O 0.000000 BBL	OIL 0.000000 BBL
Free Liquid:	4.4 BBL	H2O 0.0 BBL	OIL 0.0 BBL	<u>Estimated Surface Damage</u>			
Totals:	10.572 BBL	H2O 10.572 BBL	OIL 0.000 BBL	Surface Area:	2,968 sq. ft.		
Total Liquid Spill Liquid:	10.572 BBL	H2O 10.572 BBL	OIL 0.000 BBL	Surface Area:	.0681 acre		
<u>Recovered Volumes</u>				<u>Estimated Weights, and Volumes</u>			
Estimated oil recovered:	0.0 BBL	check - okay		Saturated Soil =	27,701 lbs	247 cu.ft.	9 cu.yds.
Estimated water recovered:	0.0 BBL	check - okay		Total Liquid =	11 BBL	444.01 gallon	3,694 lbs



CIMAREX ENERGY
RIVERBEND 12-13 FED COM 20H
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 384206

QUESTIONS

Operator: CIMAREX ENERGY CO. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 384206
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2425876097
Incident Name	NAPP2425876097 RIVERBEND 12-13 FEDERAL COM 20H @ 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	Riverbend 12-13 Federal Com 20H
Date Release Discovered	09/14/2024
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	Not answered.
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	Cause: Human Error Tank (Any) Brine Water Released: 11 BBL Recovered: 4 BBL Lost: 7 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)	After filling a brine water tank for well work operations, the hose fell out of the tank and onto the well pad. This allowed some of the brine water to syphon out of the tank and onto the pad. An estimated 11 barrels was released onto the well pad and a total of 4 barrels were recovered by a vac truck. An environmental consultant will be contacted to remediate the impacted area in the coming weeks. Released: 11 barrels brine water Recovered: 4 barrels

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QUESTIONS, Page 2

Action 384206

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: 09/17/2024
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QUESTIONS, Page 3

Action 384206

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
scott.rodgers	None	9/17/2024