

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

Location of spill: Scoter 6-31 Fed Com 44H Flowline Date of Spill: 2/29/2024

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	3 ft	X	3 ft	X	72.00 in	10%		Rectangle Area #1	16 ft	X	10 ft	X	1.50 in	10%	
	Rectangle Area #2	16 ft	X	10 ft	X	3.00 in	10%		Rectangle Area #2	15 ft	X	10 ft	X	3.00 in	10%	
	Rectangle Area #3	15 ft	X	10 ft	X	3.00 in	10%		Rectangle Area #3	3 ft	X	3 ft	X	3.00 in	10%	
	Rectangle Area #4	164 ft	X	2 ft	X	3.00 in	10%		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 #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 #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 #7	0 ft	X	0 ft	X	0.00 in	0%
	Rectangle Area #8	0 ft	X	0 ft	X	0.00 in	0%		Rectangle Area #8	0 ft	X	0 ft	X	0.00 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: 8 BBL okay Percentage of Oil in Free Liquid Recovered: 10% (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.

Saturated Soil Volume Calculations:				Free Liquid Volume Calculations:			
Total Solid/Liquid Volume:	647 sq. ft.	H2O 192 cu. ft.	OIL 21 cu. ft.	Total Free Liquid Volume:	319 sq. ft.	H2O 53.775 cu. ft.	OIL 5.975 cu. ft.
<u>Estimated Volumes Spilled</u>				<u>Estimated Production Volumes Lost</u>			
Liquid in Soil:	4.8 BBL	H2O	OIL	Estimated Production Spilled:	0.000000 BBL	H2O	OIL
Free Liquid:	9.6 BBL						
Totals:	14.368 BBL	1.596 BBL		<u>Estimated Surface Damage</u>			
Total Liquid Spill Liquid:	14.368 BBL	1.596 BBL		Surface Area:	647 sq. ft.		
				Surface Area:	.0149 acre		
<u>Recovered Volumes</u>				<u>Estimated Weights and Volumes</u>			
Estimated oil recovered:	0.8 BBL	check - okay		Saturated Soil =	23,912 lbs	214 cu.ft.	8 cu.yds.
Estimated water recovered:	7.2 BBL	check - okay		Total Liquid =	16 BBL	670.51 gallon	5,579 lbs



CIMAREX ENERGY
SCOTER 6-31 FED COM 44H
EDDY, NM





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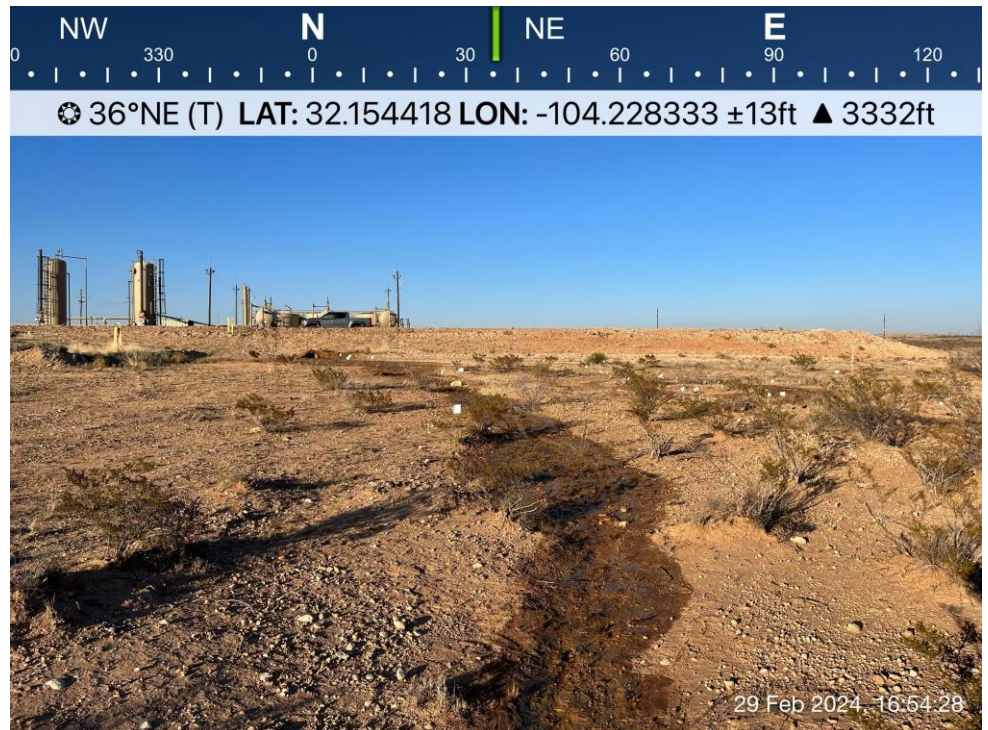
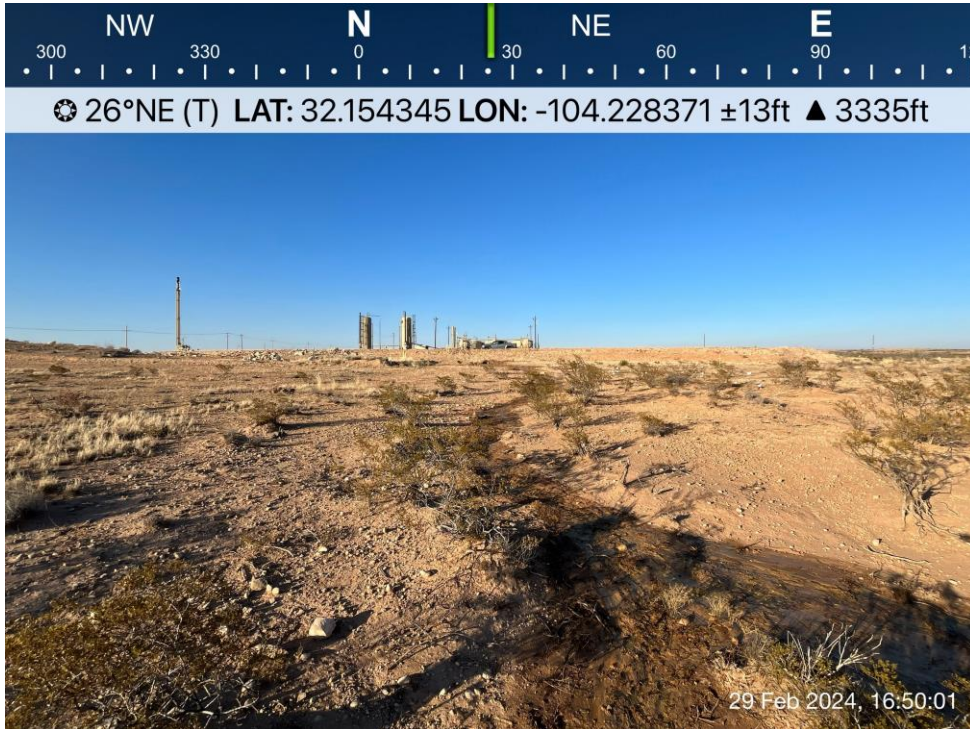


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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Action 319441

QUESTIONS

Operator: CIMAREX ENERGY CO. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 319441
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2406128105
Incident Name	NAPP2406128105 SCOTER 6-41 FEDERAL COM 44H FLOWLINE @ 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	Scoter 6-41 Federal Com 44H Flowline
Date Release Discovered	02/29/2024
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	Cause: Equipment Failure Pipeline (Any) Crude Oil Released: 2 BBL Recovered: 1 BBL Lost: 1 BBL.
Produced Water Released (bbls) Details	Cause: Equipment Failure Pipeline (Any) Produced Water Released: 13 BBL Recovered: 7 BBL Lost: 6 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)	The buried flowline was found releasing fluid along the ROW and into the pasture. The well was immediately shut in and a vac truck dispatched to recover standing fluids. A total of 15 barrels of fluid was released with 8 barrels of fluid recovered along the spill path. The cause of the release is still under investigation. The site is currently being assessed and remediation will take place in the coming weeks. Released: 15 barrels of fluid (2 barrels oil + 13 barrels water) Recovered: 8 barrels of fluid Cause of Spill: Hole in the 90 of carbon steel flowline.

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Action 319441

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	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: 03/01/2024
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QUESTIONS, Page 3

Action 319441

QUESTIONS (continued)

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	Action Number: 319441
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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	Direct Measurement
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	Between 1 and 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	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	Between 1 and 5 (mi.)
A wetland	Between ½ and 1 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Zero feet, overlying, or within area
Categorize the risk of this well / site being in a karst geology	High
A 100-year floodplain	Between ½ and 1 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

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	3/1/2024