

***** LIQUID SPILLS - VOLUME CALCULATIONS *****							
Location of spill:		CENTRAL VACUUM UNIT 25 (32.80094, -103.5164)				Date of Spill: 07/11/2024	
Estimated Daily Production Loss:		0 BBL Oil		500 BBL Water		Site Soil Type: KU — Kimbrough-Lea complex	
Total Area Calculations							
Total Surface Area	width		length		wet soil depth	oil (%)	
Rectangle Area #1	91.0 ft	X	512.0 ft	X	0.3 in	0%	
Rectangle Area #2	ft	X	ft	X	in	0%	
Rectangle Area #3	ft	X	ft	X	in	0%	
Rectangle Area #4	ft	X	ft	X	in	0%	
Rectangle Area #5	ft	X	ft	X	in	0%	
Rectangle Area #6	ft	X	ft	X	in	0%	
Rectangle Area #7	ft	X	ft	X	in	0%	
Rectangle Area #8	ft	X	ft	X	in	0%	
Porosity <u>0.250</u> gal per gal							
Saturated Soil Volume Calculations:							
			H2O		OIL		
Area #1	46,592 sq. ft.		1,126 cu. ft.		cu. ft.		
Area #2	0 sq. ft.		cu. ft.		cu. ft.		
Area #3	0 sq. ft.		cu. ft.		cu. ft.		
Area #4	0 sq. ft.		cu. ft.		cu. ft.		
Area #5	0 sq. ft.		cu. ft.		cu. ft.		
Area #6	0 sq. ft.		cu. ft.		cu. ft.		
Area #7	0 sq. ft.		cu. ft.		cu. ft.		
Area #8	0 sq. ft.		cu. ft.		cu. ft.		
Total Solid/Liquid Volume:	46,592 sq. ft.		1,126 cu. ft.		cu. ft.		
Estimated Volumes Spilled							
			H2O		OIL		
Liquid in Soil:			50.1 BBL		0.0 BBL		
Liquid Recovered :			450.0 BBL		0.0 BBL		
Spill Liquid			500.1 BBL		0.0 BBL		
Total Spill Liquid:			500.1				
Recovered Volumes							
Estimated oil recovered:	0.0 BBL						
Estimated water recovered:	450.0 BBL						

Soil Type	Porosity
Clay	0.15
Peat	0.40
Glacial Sediments	0.13
Sandy Clay	0.12
Silt	0.16
Loess	0.25
Fine Sand	0.16
Medium Sand	0.25
Coarse Sand	0.26
Gravelly Sand	0.26
Fine Gravel	0.26
Medium Gravel	0.25
Coarse Gravel	0.18
Sandstone	0.25
Siltstone	0.18
Shale	0.05
Limestone	0.13
Basalt	0.19
Volcanic Tuff	0.20
Standing Liquids	

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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 365602

QUESTIONS

Operator: MorningStar Operating LLC 400 W 7th St Fort Worth, TX 76102	OGRID: 330132
	Action Number: 365602
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2419431964
Incident Name	NAPP2419431964 CENTRAL VACUUM UNIT 25 @ 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	CENTRAL VACUUM UNIT 25
Date Release Discovered	07/11/2024
Surface Owner	State

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: Corrosion Flow Line - Injection Produced Water Released: 500 BBL Recovered: 450 BBL Lost: 50 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
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

Action 365602

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: (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	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: Samanntha Avarello Title: EHS Coordinator Email: savarello@txoenergy.com Date: 07/25/2024
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QUESTIONS, Page 3

Action 365602

QUESTIONS (continued)

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	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

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 100 and 500 (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)	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 ½ and 1 (mi.)
Any other fresh water well or spring	Between 1000 (ft.) and ½ (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between 1000 (ft.) and ½ (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	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

Action 365602

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	Action Number: 365602
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CONDITIONS

Created By	Condition	Condition Date
scwells	None	7/25/2024