

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



Location of spill: SAND DUNES WTR TRTMT FAC

Date of Spill: 4/24/2026

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	33,700 ft X	1 ft X	4.00 in	0%	Rectangle Area #1	30,550 ft X	1 ft X	0.75 in	0%
Rectangle Area #2	0 ft X	0 ft X	0.00 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 #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 #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: 340 BBL

Liquid holding factor \*: 0.08 gal per gal

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

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:  
 Occurs 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:			Free Liquid Volume Calculations:		
Total Solid/Liquid Volume:	H2O	OIL	Total Free Liquid Volume:	H2O	OIL
33,700 sq. ft.	11,233 cu. ft.	cu. ft.	30,550 sq. ft.	1,909 cu. ft.	cu. ft.
Estimated Volumes Spilled			Estimated Production Volumes Lost		
Liquid in Soil:	160.0 BBL	0.0 BBL	Estimated Production Spilled:	0.0 BBL	0.0 BBL
Free Liquid:	340.1 BBL	0.0 BBL			
Totals:	500.1 BBL	0.0 BBL			
Total Spill Liquid:	500.1 BBL	0.0 BBL			
Recovered Volumes			Estimated Surface Damage		
Estimated oil recovered:	0.0 BBL	check - okay	Surface Area:	33,700 sq. ft.	
Estimated water recovered:	340.0 BBL		Surface Area:	.7736 acre	
			Estimated Weights, and Volumes		
			Saturated Soil =	1,258,133 lbs	11,233 cu.ft.
			Total Liquid =	500 BBL	21,004 gallon
					416 cu.yds.
					174,755 lbs

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
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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 589504

**QUESTIONS**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 589504
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2611452043
Incident Name	NAPP2611452043 SAND DUNES WTR TRTMT FAC @ FAB1917255442
Incident Type	Produced Water Release
Incident Status	Initial C-141 Received
Incident Facility	[fAB1917255442] SAND DUNES WATER TANK FACILITY

<b>Location of Release Source</b>	
<i>Please answer all the questions in this group.</i>	
Site Name	SAND DUNES WTR TRTMT FAC
Date Release Discovered	04/21/2026
Surface Owner	Federal

<b>Incident Details</b>	
<i>Please answer all the questions in this group.</i>	
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

<b>Nature and Volume of Release</b>	
<i>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.</i>	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure   Flow Line - Injection   Produced Water   Released: 500 BBL   Recovered: 340 BBL   Lost: 160 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)	Not answered.

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QUESTIONS, Page 2

Action 589504

**QUESTIONS (continued)**

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**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	<b>No, according to supplied volumes this does not appear to be a "gas only" report.</b>
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	<b>Yes</b>
Reasons why this would be considered a submission for a notification of a major release	<b>From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.</b>
<i>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.</i>	

**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	<b>True</b>
The impacted area has been secured to protect human health and the environment	<b>True</b>
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	<b>True</b>
All free liquids and recoverable materials have been removed and managed appropriately	<b>True</b>
If all the actions described above have not been undertaken, explain why	<i>Not answered.</i>

*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: Daniel Sparks Title: Environmental Analyst III Email: daniel_sparks@oxy.com Date: 05/28/2026
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QUESTIONS, Page 3

Action 589504

**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.
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
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
<i>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.</i>	

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CONDITIONS

Action 589504

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**CONDITIONS**

Created By	Condition	Condition Date
scott.rodgers	The initial C-141 is approved. Please note that the due date was 05/06/2026.	5/29/2026