

# Spill Calculation

AutoSave On Spill calculator - Saved

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Clipboard Font Alignment Number Styles

C27 
$$=((C12*C13*C14/12*C23*0.1781)*(100-C22)/100+((C19*27*C23*0.1781)*(100-C22)/100+(C16*C17/12*C23*0.1781)*(100-C22)/100$$

Oil or Water Spill Volume Spreadsheet Calculator Updated 10/31/2007

INPUT FIELDS

OUTPUT

RESULT

Location:

GPS Coordinates:

Spill Date:

Spill Time:

Length of Spill= 90.00 feet

Width of Spill= 3.00 feet

Saturation (or depth) of Spill= 3.00 inches

OR

Area= ft<sup>2</sup>

Saturation (or depth) of Spill= inches

OR

Soil Volume= yd<sup>3</sup>

Oil Cut= % Oil

Porosity Factor= 0.20

Soil Volume= 2.50 yd<sup>3</sup>

Total Oil in Soil= barrels

Total Produced Water in Soil= 2.40 barrels

Types of Soil Porosity Factor

Gravel	0.25
Sand	0.20
Clay/silt/sand Mix	0.15
Clay	0.05
Caliche	0.03
Unknown	0.25

Use only one method

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C27 
$$=((C12*C13*C14/12*C23*0.1781)*(100-C22)/100+((C19*27*C23*0.1781)*(100-C22)/100+(C16*C17/12*C23*0.1781)*(100-C22)/100$$

Oil or Water Spill Volume Spreadsheet Calculator Updated 10/31/2007

INPUT FIELDS

OUTPUT

RESULT

Location:

GPS Coordinates:

Spill Date:

Spill Time:

Length of Spill= 274.00 feet

Width of Spill= 1.50 feet

Saturation (or depth) of Spill= 3.00 inches

OR

Area= ft<sup>2</sup>

Saturation (or depth) of Spill= inches

OR

Soil Volume= yd<sup>3</sup>

Oil Cut= % Oil

Porosity Factor= 0.20

Soil Volume= 3.81 yd<sup>3</sup>

Total Oil in Soil= barrels

Total Produced Water in Soil= 3.66 barrels

Types of Soil Porosity Factor

Gravel	0.25
Sand	0.20
Clay/silt/sand Mix	0.15
Clay	0.05
Caliche	0.03
Unknown	0.25

Use only one method

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Clipboard Font Alignment Number Styles Cells

Search

fx 
$$=(C15*C16*C17/12*C26*0.1781)*(100-C25)/100+(C22*27*C26*0.1781)*(100-C25)/100+(C19*C20/12*C26*0.1781)*(100-C25)/100$$

1	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															
13															
14															
15	Length of Spill=		30.00	feet											
16	Width of Spill=		2.00	feet											
17	Saturation (or depth) of Spill=		3.00	inches											
18			OR												
19	Area=			ft <sup>2</sup>											
20	Saturation (or depth) of Spill=			inches											
21			OR												
22	Soil Volume=			yd <sup>3</sup>											
23															
24															
25	Oil Cut=		-	% Oil											
26			1.00												
27															
28				yd <sup>3</sup>											
29	Oil		-	barrels											
30	Water		2.67	barrels											
31															
32															
33															
34															
35															
36															
37															
38															
39															
40															

Land Water Land Quick Reference Standing Fluid

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

General Information  
Phone: (505) 629-6116

Online Phone Directory  
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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 540835

**QUESTIONS**

Operator: SIMCOE LLC 1199 Main Ave., Suite 101 Durango, CO 81301	OGRID: 329736
	Action Number: 540835
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

**QUESTIONS**

Prerequisites	
Incident ID (n#)	nAPP2600240811
Incident Name	NAPP2600240811 MIDDLE MESA CDP WATER GATHERING LINE @ C-15-31N-07W 55N 1412E
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	Middle Mesa CDP Water Gathering Line
Date Release Discovered	12/31/2025
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: Equipment Failure   Pipeline (Any)   Produced Water   Released: 9 BBL   Recovered: 0 BBL   Lost: 9 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 540835

**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)	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	False
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	There was no berm or containment constructed.

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: Jerrid Brann Title: Environmental Coordinator Email: jerrid.brann@machnr.com Date: 01/07/2026
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QUESTIONS, Page 3

Action 540835

**QUESTIONS (continued)**

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	Action Number: 540835
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

**QUESTIONS**

<b>Site Characterization</b>	
<i>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.</i>	
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.

<b>Remediation Plan</b>	
<i>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.</i>	
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 540835

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CONDITIONS

Created By	Condition	Condition Date
rhamlet	None	1/8/2026