

Creator: Bill Price

Date: June 4, 1993

Purpose: To reduce the variation in the process of calculating the amount of a spill in barrels.

Data Section: Press tab tab

Macro Section: Press F5, MACRO

Last update: June 13, 1993

*****PRESS TAB TO GO TO INPUT AREA*****

M1

RESIDUAL 1

1. Locate the approximate DEPTH OF SPILL and use arrow keys to move cursor there.
2. Use arrow key to move cursor to the right, stop below Length and enter LENGTH OF SPILL then cursor right to Width.
3. Now enter the WIDTH OF THE SPILL , then cursor right to Effective Porosity.
4. Now enter the EFFECTIVE POROSITY using the "Soil Type/Effective Porosity Table" (only enter if using the RESIDUAL METHOD), then cursor right to see Total Amount Spilled.
5. Equals the Total Amount Spilled in BARRELS.

DEPTH (inches)	LENGTH (feet)	WIDTH (feet)	e Porosity	BARRELS (bbls.)	Thicknes s (feet)
TEST METHOD					
Lt.Mist			NA	0.00000	0.000008
Med.Mist	14	6	NA	0.00120	0.00008
Hvy.Mist			NA	0.00000	0.00083
METHOD (Length X Width X Avg. Depth X Eff. Porosity divided by 5.6146)					
skim				0.00000	0.002604
1/16				0.00000	0.005208
1/8				0.00000	0.0104166
1/4				0.00000	0.0208033
1/2				0.00000	0.0416666
3/4				0.00000	0.062
1				0.00000	0.083333
2				0.00000	0.166666
3				0.00000	0.25
4				0.00000	0.333333
5				0.00000	0.416666
6				0.00000	0.5
7				0.00000	0.583333
8				0.00000	0.666666
9				0.00000	0.75
10				0.00000	0.833333
11				0.00000	0.916666
12	2	2	0.2	0.14249	1

MACRO SEC

Name

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Released to Imaging: 7/30/2025 1:16:16 PM

skim		0.0000
1/16		0.0000
1/8		0.0000
1/4		0.0000
1/2		0.0000
3/4		0.0000
1		0.0000
2		0.0000
3		0.0000
4		0.0000
5		0.0000
6		0.0000
7		0.0000
8		0.0000
9		0.0000
10		0.0000
11		0.0000
12		0.0000

Gravel - 25% Porosity
 Sand - 20% Porosity
 Clay/Silt/Sand Mix - 15%
 Clay - 5% Porosity
 Caliche - 3%
 Unknown - 25%

CHEMICAL SPILLS**INSTRUCTIONS**

For chemical spills enter the Specific Gravity of the chemical (obtain from the MSDS sheet) under the column named "Sp. Gravity of Chemical". Also, enter the total amount of spilled chemical in gallons under the column named "Spilled Chemical Vol. (gal)". (To convert BBLS to GAL, multiply Output converts the volume of spilled chemical into kilograms.

Sp. Gravity of Chemical	[Factor]	lb/g	Spilled Chemical Vol. (gal)	Spilled Chemical Vol. (kg)
<u>1.079</u>	8.34	8.999	<u>0.004</u>	<u>0.01636</u>

Example of Formula:

Sp. Gravity X Factor = ____ Lb/g X ____ Gals = ____ Lb/2.2 = ____ kg

<<<<<<

Soil Type / Effective Porosity	
0.25	Gravel - 25% Porosity
0.2	Sand - 20% Porosity
0.15	Clay/Silt/Sand Mix - 15%
0.05	Clay - 5% Porosity
0.03	Caliche - 3%
0.25	Unknown - 25%

CTION

Macro Instructions

/qyy	Description
	To end the program and not save the data entered.

Line Leak Calc

Orifice Diameter	0.125 inches
Pressure	110 psig
Time/date Discovered	7/14/2025 10:15
Time/date Isolated	7/14/2025 10:30
Total Hours Blown	0.25 hours
Area of Orifice	0.012 sq. inches

Lost Gas From Line Leak 0.43 Mcf

Blowdown Calc

Length	1,634 feet
Actual Pipe OD	4.500 inches
Wall Thickness	0.56 inches
Pressure	110 psig

Lost Gas From Blowdown 0.76 Mcf

Total Gas Loss	1.19 Mcf
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Notes:

Lost Gas=(Orifice Diameter)^2*Pressure*Time Blown

Lost Gas=(Inside Diameter)^2*Pressure*Length*0.372/1000000

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 489791

QUESTIONS

Operator: Harvest Four Corners, LLC 1755 Arroyo Dr Bloomfield, NM 87413	OGRID: 373888
	Action Number: 489791
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2519553711
Incident Name	NAPP2519553711 MCCLANAHAN 6 @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Received
Incident Facility	[fAPP2123053718] HARVEST FOUR CORNERS - KUTZ SYSTEM

Location of Release Source <i>Please answer all the questions in this group.</i>	
Site Name	McClanahan 6
Date Release Discovered	07/14/2025
Surface Owner	Federal

Incident Details <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	Yes
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 <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: Corrosion Pipeline (Any) Produced Water Released: 1 BBL Recovered: 0 BBL Lost: 1 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	Cause: Corrosion Pipeline (Any) Natural Gas Vented Released: 1 Mcf Recovered: 0 Mcf Lost: 1 Mcf.
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 489791

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)	Yes, according to supplied volumes this will be treated as 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: (2) an unauthorized release of a volume that: (b) may with reasonable probability reach a watercourse.
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: Chad Snell Title: Environmental Specialist Email: chad.snell@harvestmidstream.com Date: 07/29/2025
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QUESTIONS, Page 3

Action 489791

QUESTIONS (continued)

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QUESTIONS

Site Characterization	
<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.
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	
<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 489791

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CONDITIONS

Created By	Condition	Condition Date
rhamlet	None	7/30/2025