



CIMAREX ENERGY
MADURO NORTH FED 4H
LEA, NM

IN CONTAINMENT CALCULATION

9:26   100

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Square/Rectangle Contained Spill with Vessel Displacement

Maduro North Fed 4H			
L(Ft)	W(Ft)	D(In)	Oil %
88	30	30	0
Tank Size (Ft)		Tank Count	
15.6		4	

 

H2O Spill Before Disp:	1,175.43
Tank Displacement Vol:	340.43
Oil Spill Total:	0.00
H2O Spill Total:	835.00
Total Bbls Spilled:	835.00
Total Gals Spilled:	35,069.95

Screenshot for future reference!

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

Location of spill: **Maduro North Fed 4H - Well Pad & ROW**Date of Spill: 4/29/2025

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	6,875	ft X	1 ft X	1 in	32%	Rectangle Area #1	0 ft X	0 ft X	0 in	0%	
Rectangle Area #2	8,979	ft X	1 ft X	4 in	32%	Rectangle Area #2	0 ft X	0 ft X	0 in	0%	
Rectangle Area #3	15,210	ft X	1 ft X	4 in	32%	Rectangle Area #3	0 ft X	0 ft X	0 in	0%	
Rectangle Area #4	0	ft X	0 ft X	0 in	0%	Rectangle Area #4	0 ft X	0 ft X	0 in	0%	
Rectangle Area #5	0	ft X	0 ft X	0 in	0%	Rectangle Area #5	0 ft X	0 ft X	0 in	0%	
Rectangle Area #6	0	ft X	0 ft X	0 in	0%	Rectangle Area #6	0 ft X	0 ft X	0 in	0%	
Rectangle Area #7	0	ft X	0 ft X	0 in	0%	Rectangle Area #7	0 ft X	0 ft X	0 in	0%	
Rectangle Area #8	0	ft X	0 ft X	0 in	0%	Rectangle Area #8	0 ft X	0 ft X	0 in	0%	

okay

Production Data NOT Required

Average Daily Production: Oil Water

0 BBL 0 BBL

Did leak occur before the separator?: ☐ YES ☐ N/A (place an "X")

Amount of Free Liquid Recovered: 0 BBL okay

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

Liquid holding factor *: 0.08 gal per gal

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:

Total Solid/Liquid Volume: 31,064 sq. ft. H2O 6,000 cu. ft. OIL 2,824 cu. ft.

Estimated Volumes Spilled

	H2O	OIL
Liquid in Soil:	85.5 BBL	40.2 BBL
Free Liquid:	0.0 BBL	0.0 BBL
Totals:	85.487 BBL	40.229 BBL

Total Liquid Spill Liquid: 85.487 BBL 40.229 BBL

Recovered Volumes

Estimated oil recovered:	0.0 BBL	check - okay
Estimated water recovered:	0.0 BBL	check - okay

Free Liquid Volume Calculations:

Total Free Liquid Volume: sq. ft. H2O .000 cu. ft. OIL .000 cu. ft.

Estimated Production Volumes Lost

Estimated Production Spilled: H2O 0.000000 BBL OIL 0.000000 BBL

Estimated Surface Damage

Surface Area: 31,064 sq. ft.

Surface Area: .7131 acre

Estimated Weights, and Volumes

Saturated Soil =	988,254 lbs	8,824 cu.ft.	327 cu.yds.
Total Liquid =	126 BBL	5,280.10 gallon	43,930 lbs



CIMAREX ENERGY
TAOS FEDERAL 5H
EDDY, NM





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

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS

Action 457381

QUESTIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 457381
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2512052637
Incident Name	NAPP2512052637 MADURO NORTH FEDERAL 4H @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Received
Incident Facility	[fAPP2202546495] MADURO NORTH FED 4H

Location of Release Source	
Please answer all the questions in this group.	
Site Name	Maduro North Federal 4H
Date Release Discovered	04/29/2025
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	Cause: Human Error Tank (Any) Crude Oil Released: 40 BBL Recovered: 40 BBL Lost: 0 BBL.
Produced Water Released (bbls) Details	Cause: Human Error Tank (Any) Produced Water Released: 920 BBL Recovered: 835 BBL Lost: 85 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)	We had a reportable release at the North Maduro Federal 4H due to an offset frac communicating with the well. Fluid flowed to the facility, resulting in production tanks overrunning into the lined containment. Once the containment filled, the fluid over-ran the walls and flowed onto the well pad, pasture and along a pipeline ROW. This incident resulted in an estimated release of 960 barrels fluid into the containment, well pad and pasture. Vac trucks were able to recover all fluids from the containment with an additional 40 barrels oil recovered from the pasture and ROW. The impacted soils will be assessed and remediated in the coming weeks.

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QUESTIONS (continued)

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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: Laci Luig Title: ES&H Specialist Email: DL_PermianEnvironmental@coterra.com Date: 04/30/2025
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Action 457381

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

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CONDITIONS

Created By	Condition	Condition Date
scwells	None	5/1/2025