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

Loca	ition of spill:	West Shuga	art 31	Federal 3		Date of Spill:	6/4/	2024				
	H					quipment, i.e wellhead, s		7				
		novimo, tarik ba	tto. y	, production reco	or, trainoroi	pamp, or storage tank place	Juli X Horo.	_				
					Inpu	t Data:						
					•		OIL:		WATER:			
If spill volu	mes from meas	urement, i.e. met	tering	g, tank volumes, e	tc.are kno	own enter the volumes here:	0.0000 BE	3L	0.0000 BE	3L		
If "known"	spill volumes a	are given, input	data	for the following	a "Area C	alculations" is optional. T	he above will ov	erride	the calculate	d vol	umes.	
	•	•			1	шения по ориения :						
	Total Area C	Calculations					Standing Li	quia	Calculation	5		
Total Surface Area	width	length		wet soil depth	oil (%)	Standing Liquid Area	width		length		liquid depth	oil (%)
Rectangle Area #1	0 ft X	. 0 ft	Χ	0 in	0%	Rectangle Area #1	8 ft	Χ	8 ft	Χ	2 in	46%
Rectangle Area #2	0 ft 0		Χ	0 in	0%	Rectangle Area #2	5 ft	Х	12 ft	Χ	1 in	46%
Rectangle Area #3	0 ft 0	0 ft	Х	0 in	0%	Rectangle Area #3	35 ft	X	17 ft	Χ	1 in	46%
Rectangle Area #4	0 ft 0	0 ft	Χ	0 in	0%	Rectangle Area #4	0 ft	X	0 ft	Χ	0 in	0%
Rectangle Area #5	0 ft 0	0 ft	Χ	0 in	0%	Rectangle Area #5	0 ft	X	0 ft	Χ	0 in	0%
Rectangle Area #6	0 ft 0	0 ft	Χ	0 in	0%	Rectangle Area #6	0 ft	X	0 ft	Χ	0 in	0%
Rectangle Area #7	0 ft 0	0 ft	Χ	0 in	0%	Rectangle Area #7	0 ft	X	0 ft	Χ	0 in	0%
Rectangle Area #8	0 ft 0	0 ft	Χ	0 in	0%	Rectangle Area #8	0 ft	X	0 ft	Χ	0 in	0%
Rectangle Area #9	0 ft 0	0 ft	Χ	0 in	0%	Rectangle Area #9	0 ft	Χ	0 ft	Χ	0 in	0%
Liquid holding factor *:	0.14 gal p	per gal Use	e the f	ollowing when the spil	I wets the ar	ains of the soil.	Use the following wh	en the	iquid completely fill	s the p	ore space of the soil:	
1 3	3 1			.08 gallon liquid per g							rriers, natural (or not)	
						per gallon volume of soil.	* gravelly (caliche) lo			•		
						r gallon volume of soil.	* sandy loam = .5 ga			_		
				m = .16 gallon liquid p		•	ours, rounto ga	o nqc	a por ganon volun	01 00		
		G	uy IOa	iii – . 10 galloit ilqulu p	or ganori voi	unic or son.						

Saturated Soil Volume	Calculations:	H2O	OII	Free Liquid Volum	e Calculations:	нао	OII
Total Solid/Liquid Volume:	sq. ft.	<u>н20</u> cu. ft.	OIL cu. ft.	Total Free Liquid Volume:	719 sq. ft.	<u>H2O</u> 35.235 cu. ft.	OIL 30.015 cu. ft.
Estimated Volumes Spi	lled			<b>Estimated Production Vo</b>	lumes Lost		
Liquid Free	in Soil: Liguid:	<u>H2O</u> 0.0 BBL 6.3 BBL	OIL 0.0 BBL 5.3 BBL	Estimated Production	n Spilled:	<u>H2O</u> 0.000000 BBL	OIL 0.000000 BBL
	Totals: overed:	6.275 BBL 0.0 BBL	5.346 BBL 0.000 BBL	Estimated Surface D Surface Area:	amage 719 sq. ft.		
Total Liquid Spill	Liquid:	6.275 BBL	5.346 BBL	Surface Area:	.0165 acre		
Recovered Volumes	:			Estimated Weights, and	Volumes		
Estimated oil recovered:	0.0 BBL	check - o	kay	Saturated Soil =	lbs	cu.ft.	cu.yds.
Estimated water recovered:	0.0 BBL	check - o	kay	Total Liquid =	12 BBL	488.07 gallon	4,061 lbs



# CIMAREX ENERGY WEST SHUGART 31 FED COM 3 EDDY, NM





# CIMAREX ENERGY WEST SHUGART 31 FED COM 3 EDDY, NM



<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 351061

### **QUESTIONS**

Operator:	OGRID:
CIMAREX ENERGY CO. OF COLORADO	162683
6001 Deauville Blvd	Action Number:
Midland, TX 79706	351061
	Action Type:
	[C-141] Initial C-141 (C-141-v-Initial)

### QUESTIONS

Prerequisites				
Incident ID (n#)	nAPP2415731979			
Incident Name	NAPP2415731979 WEST SHUGART 31 FEDERAL COM 3 @ 0			
Incident Type	Oil Release			
Incident Status	Initial C-141 Received			
Incident Facility	[fAPP2202649749] SHUGART WEST 31 FEDERAL 3H,4H			

Location of Release Source				
Please answer all the questions in this group.				
Site Name	West Shugart 31 Federal Com 3			
Date Release Discovered	06/04/2024			
Surface Owner	Federal			

Incident Details	
Please answer all the questions in this group.	
Incident Type	Oil 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

ature and Volume of Release aterial(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: Equipment Failure   Flow Line - Production   Crude Oil   Released: 5 BBL   Recovered: 1 BBL   Lost: 4 BBL.
Produced Water Released (bbls) Details	Cause: Equipment Failure   Flow Line - Production   Produced Water   Released: 6 BBL   Recovered: 0 BBL   Lost: 6 BBL.
s 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)	. A hole in the buried flowline running from the wellhead to the separator developed a hole and released a total of 11 barrels fluid onto the well pad. A vac truck was able to recover 1 barrel of fluid from the pad. The well was shut-in until the flowline can be replaced. An environmental consultant will be contacted to remediate the impacted area on the well pa Released: 11 barrels fluid (5 barrels oil + 6 barrels water) Recovered: 1 barrel fluid

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1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170 **District IV** 

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

QUESTIONS, Page 2

Action 351061

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462	110,1411101000
QUESTI	ONS (continued)
Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID:  162683  Action Number:  351061  Action Type:  [C-141] Initial C-141 (C-141-v-Initial)
QUESTIONS	[5]
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	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.	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 s	afety 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.
	ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative o ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for releate the OCD does not relieve the operator of liability should their operations have failed to a	knowledge and understand that pursuant to OCD rules and regulations all operators are required ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or
	Name: Laci Luig

Title: ES&H Specialist

Date: 06/05/2024

Email: DL\_PermianEnvironmental@coterra.com

I hereby agree and sign off to the above statement

District I

QUESTIONS

storage site

1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 **District II** 

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

QUESTIONS, Page 3

Action 351061

**QUESTIONS** (continued)

Operator:	OGRID:
CIMAREX ENERGY CO. OF COLORADO	162683
6001 Deauville Blvd	Action Number:
Midland, TX 79706	351061
	Action Type:
	[C-141] Initial C-141 (C-141-v-Initial)

# 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) What method was used to determine the depth to ground water Not answered. Did this release impact groundwater or surface 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 Not answered for domestic or stock watering purposes 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.

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 de-	etermine if another remediation plan submission is required.			

Not answered.

Did the release impact areas not on an exploration, development, production, or

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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**

CONDITIONS

Action 351061

### **CONDITIONS**

Operator:	OGRID:
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6001 Deauville Blvd	Action Number:
Midland, TX 79706	351061
	Action Type:
	[C-141] Initial C-141 (C-141-v-Initial)

### CONDITIONS

Created By	y Condition	Condition Date
scwells	None	6/5/2024