

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

Release Location Name: Maxus West Battery Release Date of Release: 8/5/2024

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: X

Input Data:

If spill volumes from measurement, i.e. metering, tank volumes, etc.are known enter the volumes here: OIL: BBL WATER: 43.0000 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	60.00 ft	X	96.00 ft	X	0.00 in	0.00%	Rectangle Area #1	60.00 ft	X	97.00 ft	X	0.50 in	0.00%
Rectangle Area #2	0.00 ft	X	0.00 ft	X	0.00 in	0.00%	Rectangle Area #2	0.00 ft	X	0.00 ft	X	0.00 in	0.00%
Rectangle Area #3	0.00 ft	X	0.00 ft	X	0.00 in	0.00%	Rectangle Area #3	0.00 ft	X	0.00 ft	X	0.00 in	0.00%
Rectangle Area #4	0.00 ft	X	0.00 ft	X	0.00 in	0.00%	Rectangle Area #4	0.00 ft	X	0.00 ft	X	0.00 in	0.00%
Rectangle Area #5	0.00 ft	X	0.00 ft	X	0.00 in	0.00%	Rectangle Area #5	0.00 ft	X	0.00 ft	X	0.00 in	0.00%
Rectangle Area #6	0.00 ft	X	0.00 ft	X	0.00 in	0.00%	Rectangle Area #6	0.00 ft	X	0.00 ft	X	0.00 in	0.00%
Rectangle Area #7	0.00 ft	X	0.00 ft	X	0.00 in	0.00%	Rectangle Area #7	0.00 ft	X	0.00 ft	X	0.00 in	0.00%
Rectangle Area #8	0.00 ft	X	0.00 ft	X	0.00 in	0.00%	Rectangle Area #8	0.00 ft	X	0.00 ft	X	0.00 in	0.00%

ERROR - Standing Liquid Area larger than Total Area, Review Data Input

production system leak - DAILY PRODUCTION DATA REQUIRED

Average Daily Production: Oil BBL Water BBL

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

Amount of Free Liquid Recovered: 43 BBL okay

Percentage of Oil in Free Liquid Recovered: 0.00% (percentage)

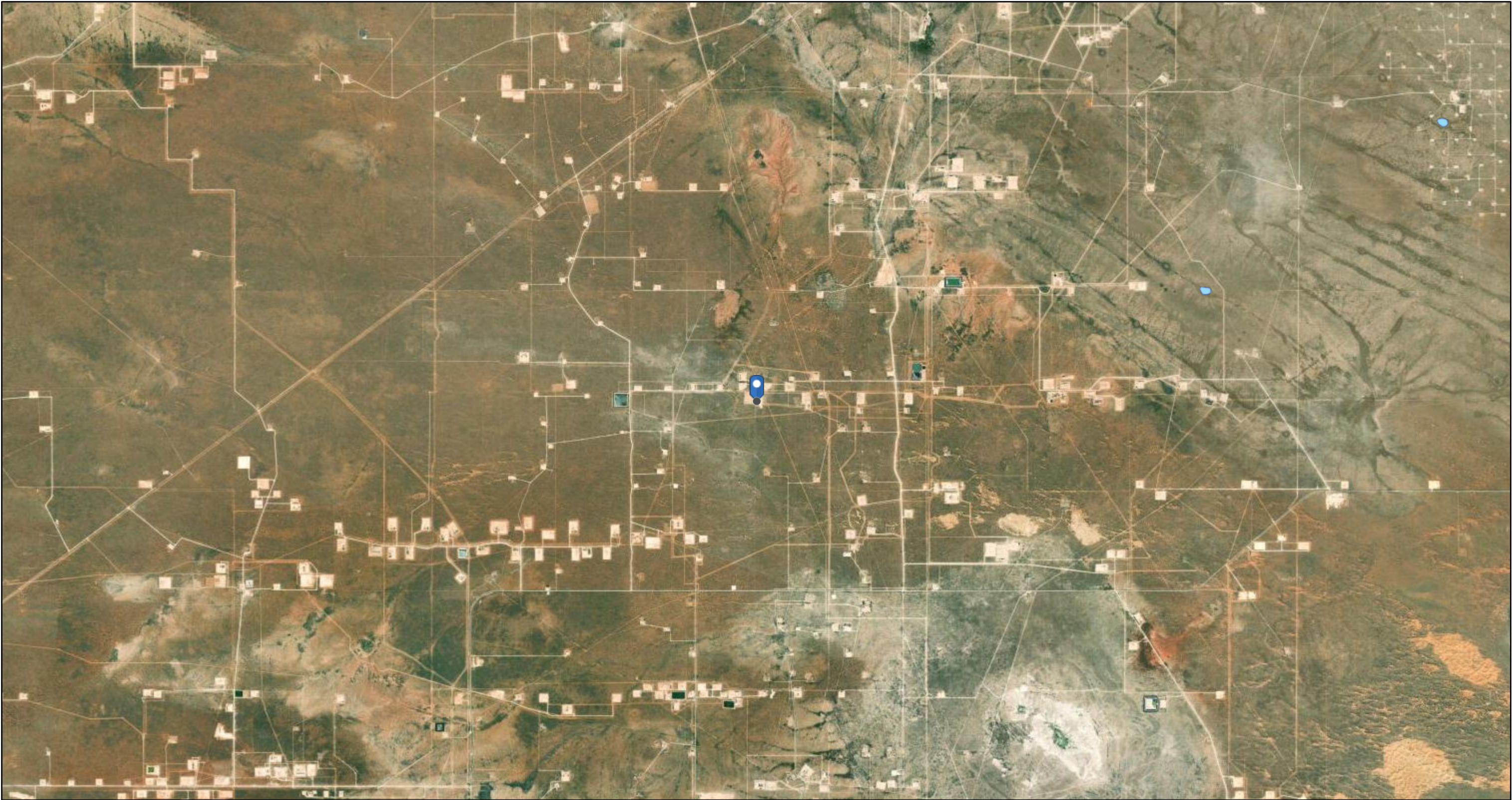
Liquid holding factor *: 0.00 gal per gal

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.

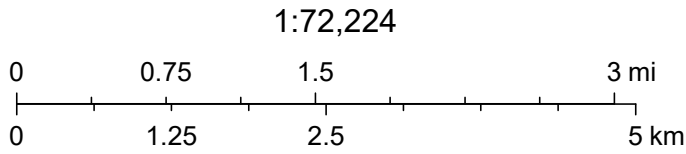
Saturated Soil Volume Calculations:			Free Liquid Volume Calculations:		
Total Solid/Liquid Volume:	5,760 sq. ft.	H2O cu. ft. OIL cu. ft.	Total Free Liquid Volume:	5,820 sq. ft.	H2O cu. ft. OIL cu. ft.
Estimated Volumes Spilled			Estimated Production Volumes Lost		
Liquid in Soil:	0.0 BBL	0.0 BBL	Estimated Production Spilled:	43.0 BBL	0.0 BBL
Free Liquid:	43.2 BBL	0.0 BBL	Estimated Surface Damage		
Totals:	43.2 BBL	0.0 BBL	Surface Area:	5,820 sq. ft.	
			Surface Area:	.1336 acre	
Total Spill Liquid:	43.0 BBL	0.0 BBL	Estimated Weights, and Volumes		
Recovered Volumes			Saturated Soil =	lbs	cu.ft. cu.yds.
Estimated oil recovered:	0.0 BBL	check - okay	Total Liquid =	43 BBL	1,806 gallon 15,026 lbs
Estimated water recovered:	43.0 BBL	check - okay			

NM OCD - Hydrology



8/6/2024, 7:54:49 AM


OSW Water Bodys



Esri, HERE, Garmin, Earthstar Geographics, NM OSE

Point of Diversion Summary

quarters are 1=NW 2=NE 3=SW 4=SE
quarters are smallest to largest
NAD83 UTM in meters

Well Tag	POD Nbr	Q64	Q16	Q4	Sec	Tw	Rng	X	Y	Map
NA	CP 01740 POD1	NW	NW	NW	34	22S	34E	644401.8	3580765.5	

* UTM location was derived from PLSS - see Help

Driller License:	1706	Driller Company:	ELITE DRILLERS CORPORATION		
Driller Name:	BRYCE WALLCE				
Drill Start Date:	2019-03-15	Drill Finish Date:	2019-09-26	Plug Date:	
Log File Date:	2019-10-17	PCW Rcv Date:		Source:	Artesian
Pump Type:		Pipe Discharge Size:		Estimated Yield:	60
Casing Size:	7.60	Depth Well:	600	Depth Water:	560

Water Bearing Stratifications:

Top	Bottom	Description
520	580	Sandstone/Gravel/Conglomerate


Casing Perforations:

Top	Bottom
300	600

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Point of Diversion Summary

quarters are 1=NW 2=NE 3=SW 4=SE
quarters are smallest to largest
NAD83 UTM in meters

Well Tag	POD Nbr	Q64	Q16	Q4	Sec	TwS	Rng	X	Y	Map
22473	CP 01803 POD1	NW	NW	NW	34	22S	34E	644356.8	3580786.1	

* UTM location was derived from PLSS - see Help

Driller License:	1706	Driller Company:	ELITE DRILLERS CORPORATION	
Driller Name:	WALLACE, BRYCE J.LEE.NER			
Drill Start Date:	2019-11-04	Drill Finish Date:	2019-11-06	Plug Date:
Log File Date:	2020-02-03	PCW Rcv Date:		Source: Shallow
Pump Type:		Pipe Discharge Size:		Estimated Yield: 2
Casing Size:	4.00	Depth Well:	240	Depth Water: 180

Water Bearing Stratifications:

Top	Bottom	Description
85	205	Sandstone/Gravel/Conglomerate

Casing Perforations:


Top	Bottom
160	240

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Point of Diversion Summary

quarters are 1=NW 2=NE 3=SW 4=SE
quarters are smallest to largest

NAD83 UTM in meters

Well Tag	POD Nbr	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map
NA	CP 01826 POD1	NW	NW	NW	34	22S	34E	644379.1	3580778.4	

* UTM location was derived from PLSS - see Help

Driller License:	1706	Driller Company:	ELITE DRILLERS CORPORATION		
Driller Name:	BRYCE WALLACE				
Drill Start Date:	2019-12-12	Drill Finish Date:	2020-05-20	Plug Date:	
Log File Date:	2020-06-22	PCW Rcv Date:		Source:	Artesian
Pump Type:		Pipe Discharge Size:		Estimated Yield:	121
Casing Size:	6.00	Depth Well:	698	Depth Water:	180

Water Bearing Stratifications:

Top	Bottom	Description
85	210	Sandstone/Gravel/Conglomerate
520	580	Sandstone/Gravel/Conglomerate
670	690	Sandstone/Gravel/Conglomerate

Casing Perforations:

Top	Bottom
498	698

Meter Information

Meter Number:	20195	Meter Make:	TURBINES INC
Meter Serial Number:	2006233	Meter Multiplier:	1.0000
Number of Dials:	7	Meter Type:	Diversion
Unit of Measure:	Barrels 42 gal.	Reading Frequency:	Monthly

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount	Online
2021-08-02	2021	647858.000	A	ad		0.000	
2021-09-01	2021	780461.000	A	ad		17.092	
2021-10-05	2021	918913.000	A	ad		17.846	
2021-11-04	2021	1048128.000	A	ad		16.655	
2021-12-13	2021	1202602.000	A	ad		19.911	
2022-01-01	2022	1271202.000	A	ad		8.842	
2022-02-08	2022	1402912.000	A	ad		16.977	
2022-03-02	2022	1402912.000	A	ad		0.000	
2022-04-01	2022	1402912.000	A	ad		0.000	
2022-05-06	2022	1788686.000	A	ad		49.724	
2022-06-07	2022	1858591.000	A	ad		9.010	
2022-07-10	2022	2010645.000	A	ad		19.599	
2022-09-05	2022	2215792.000	A	ad		26.442	
2022-10-10	2022	2215792.000	A	ad		0.000	
2022-11-10	2022	2215792.000	A	ad		0.000	
2023-06-07	2023	3016204.000	A	ad		103.168	
2023-07-03	2023	3217974.000	A	ad		26.007	
2023-08-09	2023	3358577.000	A	ad		18.123	
2023-10-09	2023	3516724.000	A	ad		20.384	

YTD Meter Amounts:

Year	Amount
2021	71.504
2022	130.594
2023	167.682

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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 370709

QUESTIONS

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 370709
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2421858718
Incident Name	NAPP2421858718 MAXUS WEST BATTERY PRODUCED WATER RELEASE @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Received
Incident Facility	[fAPP2129922182] Maxus West

Location of Release Source	
Please answer all the questions in this group.	
Site Name	Maxus West Battery Produced Water Release
Date Release Discovered	08/05/2024
Surface Owner	State

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: Corrosion Fitting Produced Water Released: 43 BBL Recovered: 43 BBL Lost: 0 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)	On August 5, 2024, corrosion caused a 3/4-inch plug to blow out releasing approximately 43 bbls of Produced Water into the lined battery secondary containment. The lined containment captured all of the released fluid and 43 bbls of fluid was recovered during the initial response.

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QUESTIONS, Page 2

Action 370709

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)	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: Chuck Terhune Title: Program Manager Email: chuck.terhune@tetrattech.com Date: 08/06/2024
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QUESTIONS, Page 3

Action 370709

QUESTIONS (continued)

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	Action Number: 370709
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

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)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
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	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1000 (ft.) and ½ (mi.)
Any other fresh water well or spring	Between 1000 (ft.) and ½ (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

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 determine if another remediation plan submission is required.	

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CONDITIONS

Action 370709

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	Action Number: 370709
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CONDITIONS

Created By	Condition	Condition Date
rhamlet	None	8/20/2024