

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

Location of Spill: MCA 2A Header Trunkline Date of Spill: 6/24/2024

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:

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	120.00 ft	X	50.00 ft	X	48.00 in	0.00%	Rectangle Area #1	20.00 ft	X	50.00 ft	X	4.00 in	0.00%
Rectangle Area #2	30.00 #	X	30.00 ft	X	24.00 in	0.00%	Rectangle Area #2	10.00 ft	X	12.00 ft	X	4.00 in	0.00%
Overspray Area	30.00 ft	X	45.00 ft	X	6.00 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	4.00 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%

production system leak - DAILY PRODUCTION DATA REQUIRED

Average Daily Production:

Oil

Water

BBL

BBL

Did leak occur before the separator?:

YES

X

N/A

(place an "X")

Amount of Free Liquid Recovered:

0 BBL

okay

Percentage of Oil in Free Liquid Recovered:

0.00%

(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.

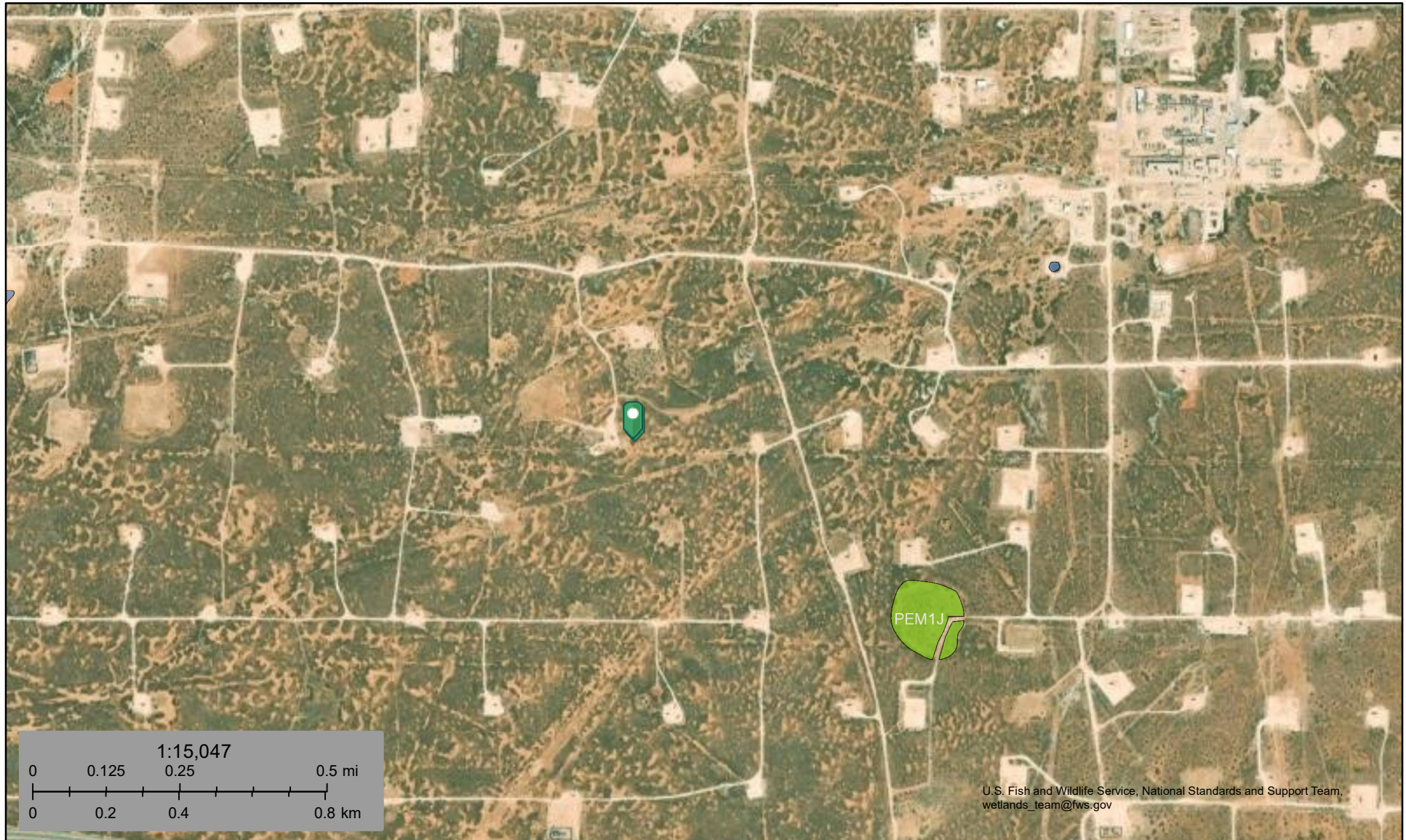
Saturated Soil Volume Calculations:			Free Liquid Volume Calculations:		
	H2O	OIL		H2O	OIL
Total Solid/Liquid Volume:	8,250 sq. ft.	26,475 cu. ft.	Total Free Liquid Volume:	1,120 sq. ft.	373 cu. ft.
Estimated Volumes Spilled			Estimated Production Volumes Lost		
Liquid in Soil:	377.2 BBL	0.0 BBL	Estimated Production Spilled:	0.0 BBL	0.0 BBL
Free Liquid:	66.5 BBL	0.0 BBL	Estimated Surface Damage		
Totals:	443.7 BBL	0.0 BBL	Surface Area:	8,250 sq. ft.	
			Surface Area:	.1894 acre	
Recovered Volumes			Estimated Weights, and Volumes		
Estimated oil recovered:	0.0 BBL	check - okay	Saturated Soil =	2,965,200 lbs	26,475 cu.ft.
Estimated water recovered:	0.0 BBL	check - okay	Total Liquid =	444 BBL	18,635 gallon
					981 cu.yds.
					155,045 lbs



U.S. Fish and Wildlife Service

National Wetlands Inventory

MCA Unit 2A Header Trunkline



June 24, 2024

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond

- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

WORLD WIDE ENVIRONMENTAL SPECIALISTS



PHONE (505) 397-6388 • FAX (505) 397-0397 • 1321 W. MARLAND • P.O. BOX 305 • HOBBBS, NM 88241-0805
E-MAIL: bbs@bbcinternational.com

Summary of Test Boring MCA Battery 1 Injection Line Leak

The test boring at the injection line leak site at MCA Battery No. 1 was advanced to a total of 138 feet below ground surface. The boring encountered about 4 feet of Quaternary age aeolian (windblown) sand at the surface resting on a thin layer of caliche. The remainder of the boring encountered sand of the upper part of the Triassic Dockum Group.

The upper 40 feet of the Dockum Group at this location is characterized by dark red, fine grain sand. Very thin poorly cemented sand layers were also encountered in the upper portion of the boring. A slightly moist zone was encountered from about 55 feet to about 75 feet below ground surface. This zone was not saturated and soils below this zone were dry. Grain size in the Dockum Group decreased with depth in the boring. Very thin silty clay layers are common in the lower portion of the boring. Several very thin gravel layers were also encountered from about 80 feet to 138 feet.

It is unlikely that a saturated zone (groundwater) will be encountered in the Dockum Group.



RECORD OF SUBSURFACE EXPLORATION

Project Name: ConocoPhillips - MCA Battery 1 4" TrunklineDate: August 3, 2005Borehole Number: Soil Boring 1Logged by: Steven BondDrilled by: White DrillingDrilling/Rig Method(s): Air Rotary

Date/Time Started: _____

Time Completed: _____

Depth (feet)	Sample Number	Sample Interval	Sample Type	Sample Description	PID Readings (ppm)	Comments
--0		0'-4'		Light red, fine grain wind-blown sand		
-		4'-5'		Buff-pink caliche		
-5						
-		5'-10'		Light red to pink, fine grain, poorly sorted sand		
-10						
-						
-15						
-		15'-26'		Dark red, fine grain, well sorted sand containing thin, poorly cemented layers, cement is likely CaCO ₃		
-20						
-						
-25		26'-30'		Pale brown-red fine sand with thin CaCO ₃ cemented zones		
-30						
-						
-35						
-		30'-45'		Dark red, fine silty sand containing thin CaCO ₃ cemented zones		
-40						
-						
-45						
-						
-50		45'-70'		Dark red, silty fine sand, slightly moist, grain size decreasing with depth		
-						



RECORD OF SUBSURFACE EXPLORATION

Depth (feet)	Sample Number	Sample Interval	Sample Type	Sample Description	PID Readings (ppm)	Comments
--55						
--60						
--65						
--70						
--75		70'-80'		Dark red, silty, very fine grain sand, no moisture, thin gravel layer at base of unit		
--80						
--85		80'-88'		Dark red, silty, clayey sand		
--90						
--95						
--100						
--105		88'-118'		Dark red to reddish-brown silty, clayey sand with very thin, blue-gray clay layers interbedded		
--110						



RECORD OF SUBSURFACE EXPLORATION

Depth (feet)	Sample Number	Sample Interval	Sample Type	Sample Description	PID Readings (ppm)	Comments
--110						
--115		118'-120'		Green, moderately well cemented, fine grain sandstone		
--120		120'-125		Pale green, very fine grain sand with thin layer of large gravel		
--125						
--130		125'-138'		Red, silt with very fine sand, thin clay layers thin gravel layers		
--135						
--140						
--145						
--150						
--155						
--160						
--165						

Comments: _____

Technician Signature: _____

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

1. OWNER OF WELL

Name: ConocoPhillips Work Phone: _____
Contact: _____ Home Phone: _____
Address: 1000 Conoco Rd.
City: Maljamar State: NM Zip: 88264

2. LOCATION OF WELL (A, B, C, or D required, E or F if known)

A. 1/4 1/4 1/4 Section: 29 Township: 17S Range: 32E N.M.P.M.
in Unit Letter E, Lea Co. County.

B. X = _____ feet, Y = _____ feet, N.M. Coordinate System
Zone in the _____ Grant.
U.S.G.S. Quad Map _____

C. Latitude: 32 d 48 m 40.2 s Longitude: 103 d 47 m 29.2 s

D. East _____ (m), North _____ (m), UTM Zone 13, NAD _____ (27 or 83)

E. Tract No. _____, Map No. _____ of the _____ Hydrographic Survey

F. Lot No. _____, Block No. _____ of Unit/Tract _____ of the
_____ Subdivision recorded in _____ County.

G. Other: _____

H. Give State Engineer File Number if existing well: _____

I. On land owned by (required): ConocoPhillips

3. DRILLING CONTRACTOR

License Number: WD-1456
Name: White Drilling Company, Inc. Work Phone: 325-893-2950
Agent: John W. White Home Phone: 325-893-2950
Mailing Address: P.O. Box 906
City: Clyde State: TX Zip: 79510

4. DRILLING RECORD: SB-2

Drilling began: 8/03/05; Completed: 8/03/05; Type tools: Air Rotary;
Size of hole: 4 3/4 in.; Total depth of well: 138.0 ft.;
Completed well is: shallow (shallow, artesian);
Depth to water upon completion of well: DRY ft.

File Number: _____ page 1 of 4
Form: wr-20

Trn Number: _____

File Number: _____

**NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD**

5. PRINCIPAL WATER-BEARING STRATA:SB-2

Depth in Feet		Thickness	Description of	Estimated Yield
From	To	in feet	water-bearing formation	(GPM)
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

6. RECORD OF CASING

Diameter (inches)	Pounds per ft.	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____

7. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole	Sacks	Cubic Feet	Method of Placement
From	To	Diameter	of mud	of Cement	
138.0	5.0	4 3/4	19		Pour/bentonite pellets
5.0	0.0	4 3/4	2	0.99	Hand mix/cement
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

8. PLUGGING RECORD

Plugging Contractor: _____
 Address: _____
 Plugging Method: _____
 Date Well Plugged: _____

Plugging approved by: _____
 State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1	_____	_____	_____
2	_____	_____	_____
3	_____	_____	_____
4	_____	_____	_____
5	_____	_____	_____

File Number: _____ Trn Number: _____

Form: wr-20 page 2 of 4

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD[illegible]

Trn Number:

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

This was an environmental soil boring.

Driver

(mm/dd/year)

FOR STATE ENGINEER USE ONLY

Quad _____ ; FWL _____ ; FSL _____ ; Use _____ ; Location No. _____

File Number: _____
Form: wr-20 _____ page 4 of 4

Trn Number:

Form provided by Forms On-A-Disk • 214-340-9429 • FormsOnADisk.com



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

No records found.

UTMNAD83 Radius Search (in meters):

Easting (X): 613763.76

Northing (Y): 3630623.79

Radius: 800

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

6/24/24 1:15 PM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER

District I
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
District IV
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 356999

QUESTIONS

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 356999
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2417646570
Incident Name	NAPP2417646570 MCA UNIT 2A HEADER TRUNKLINE RELEASE @ 30-025-24076
Incident Type	Produced Water Release
Incident Status	Initial C-141 Received
Incident Well	[30-025-24076] MCA UNIT #308

Location of Release Source	
Please answer all the questions in this group.	
Site Name	MCA Unit 2A Header Trunkline Release
Date Release Discovered	06/24/2024
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: Corrosion Coupling Produced Water Released: 444 BBL Recovered: 0 BBL Lost: 444 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)	Corrosion of the line and subsidence of material beneath the section of the line resulted in the release of approximately 444 bbls of produced water onto the pasture from the MCA Unit 2A Header Trunkline

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QUESTIONS, Page 2

Action 356999

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 356999
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

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: 06/24/2024
--	--

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QUESTIONS, Page 3

Action 356999

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 356999
	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	Attached Document
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 1000 (ft.) and ½ (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1000 (ft.) and ½ (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	Yes

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 356999

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	Action Number: 356999
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	None	6/24/2024