



New Mexico Site Characterization

REFERENCE

C-141
C-141
C-141
C-141
NMOCD O&G Map

SITE INFORMATION

Site Name:	PLU 20 Brushy Draw 124
Coordinates:	32.11170, -103.90534
Incident Number:	nAPP2401636864
Land Owner:	Federal
Site Elevation (ft):	3,177

COMMENTS

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DTW INFORMATION

Cross reference USGS Map, NMOCD Map, and NMOSE Database

Closest Water Well/Soil Boring		2nd Closest Water Well/Soil Boring	
FALSE		CLOSER	
Name:	USGS 320628103533001	Name:	C-04394
Distance from Site (ft):	4,217	Distance from Site (ft):	3,143
Direction from Site:	East	Direction from Site:	West
Elevation:	3,207	Elevation:	3,181
DTW (ft):	264.6	DTW (ft):	110
Total Depth (ft):	288	Total Depth (ft):	110
Date of most recent water level measurement:	1/28/1998	Date of most recent water level measurement:	2/4/2020
Coordinates:	32.1079, -103.8921	Coordinates:	32.11280, -103.91552
30 feet higher in elevation than the Site		4 feet higher in elevation than the Site	
ESTIMATED DTW @ SITE: >100'			

COMMENTS

Disturbed by pads and lease roads.

CLOSEST SIGNIFICANT WATER SOURCE

NMOCD O&G Map

Type:	Riverine
Distance (ft):	72
Direction:	Southeast

SITE RECEPTORS

C-141
NMOCD O&G Map
NMOCD O&G Map
OpenEnviroMap
NMOCD O&G Map
NMOCD O&G Map
OpenEnviroMap
National Wetlands Inventory
NMED Registered Mines Map
NMOCD O&G Map
NMOCD O&G Map
FEMA map
C-141

NO	Did this release impact groundwater or surface water?
YES	≤ 300 ft of a continuously flowing watercourse or any other significant watercourse?
NO	≤ 200 ft of any lakebed, sinkhole, or playa lake?
NO	≤ 300 ft of an occupied permanent residence, school, hospital, institution, or church?
NO	≤ 500 ft of a spring or a private water well used by < 5 houses for domestic or stock watering?
NO	≤ 1000 ft of any other fresh water well or spring?
NO	≤ Municipal boundaries or a defined municipal fresh water well field
NO	≤ 300 ft of a wetland?
NO	overlying a subsurface mine
NO	overlying unstable geology (HIGH KARST)?
Low	karst potential
NO	in a 100-year floodplain?
NO	Did the release impact areas not on an exploration, development, production or storage site?






Distance from Site (ft) / Comments

72	Goes through pad/roads
23,758	
46,926	Residence, West
6,056	STK Well, East
13,690	
57,894	Northwest
23,494	West
89,448	North
31,601	
529	South




NMOCD TABLE 1 CLOSURE CRITERIA

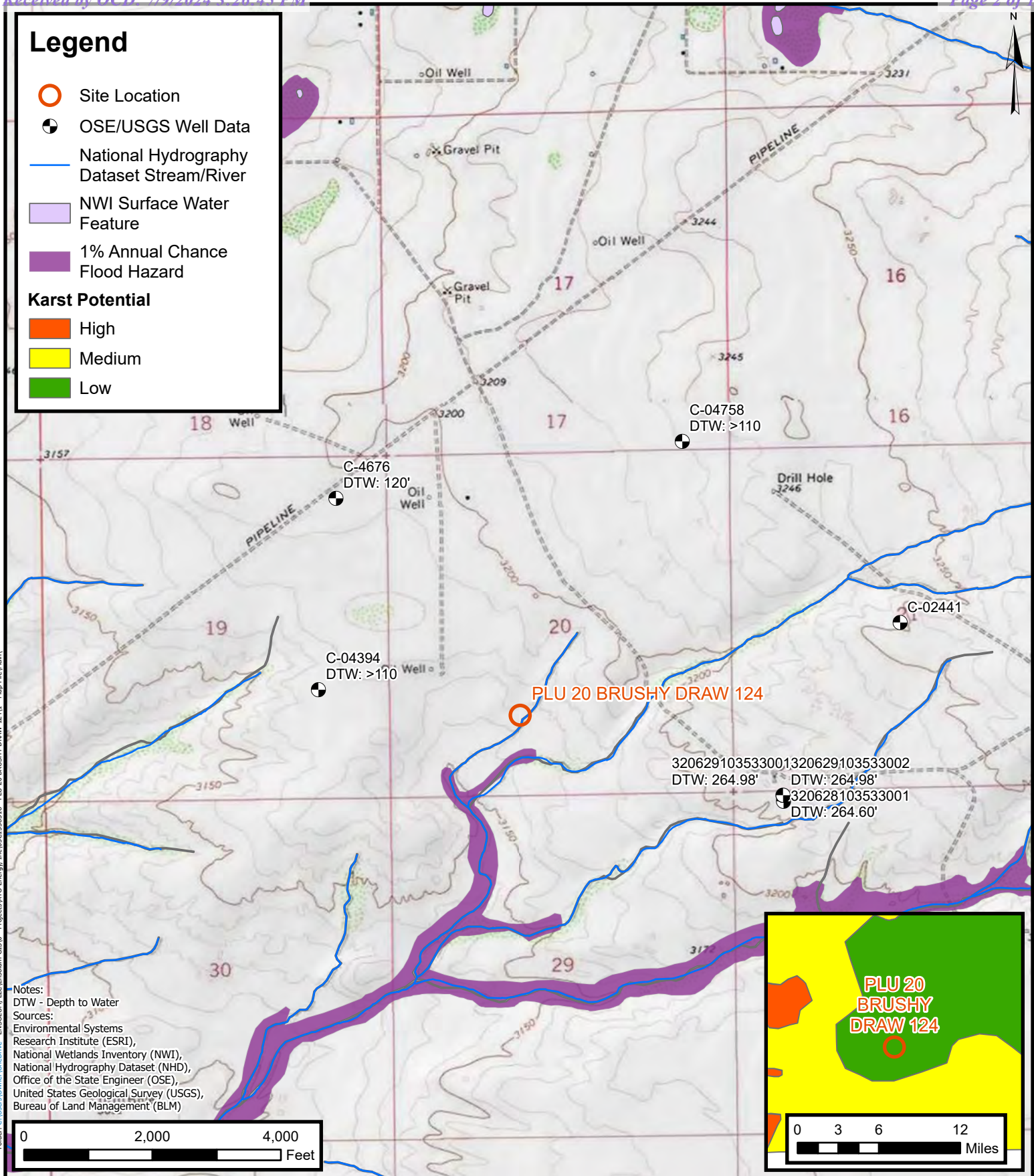
TPH: 100 mg/kg Chlorides: 600 mg/kg
FALSE

Legend

-  Site Location
-  OSE/USGS Well Data
-  National Hydrography Dataset Stream/River
-  NWI Surface Water Feature
-  1% Annual Chance Flood Hazard

Karst Potential

-  High
-  Medium
-  Low




Site Receptor Map

XTO Energy, Inc
PLU 20 BRUSHY DRAW 124
Incident Number: nAPP2401636864
Unit N, Sec 20, T25S, R30E
Eddy County, New Mexico

FIGURE

1

		LT Environmental, Inc. 508 West Stevens Street Carlsbad, New Mexico 88220 Compliance · Engineering · Remediation		Identifier: MW01 C 4394		Date: 2/4/2020		
				Project Name: PLU 423		RP Number: ZRP-3790		
LITHOLOGIC / SOIL SAMPLING LOG				Logged By: FS		Method: SONIC		
Lat/Long:		Field Screening: CHLORIDES, PID		Hole Diameter: 4" / 6"		Total Depth: 110'		
Comments: No sampling. Lithology remarks only								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
					1			hydrovac excavated (refusal @ 1')
					2			2.5' SAND, dry, well graded,
					3		SW-S	coarse-fine graind,
					4			light brwn - tan, no stain,
					5			no odor
					6			5' few silty sand pockets,
					7		SP	reddish brwn, no plas,
					8			non cohesive
					9			6' SAND, dry, poorly
					10		SW-S	graded, light brwn -
					11			brwn, fine - very fine
					12			7.5' some mod consol ss
					13		SW-S	light brwn - brwn, sub
					14			rounded
					15			10' abundant ss 10-11' color change
					16		SP	12' ss gravel? absent tan-off white
					17			16' abundant ss gravel 13' back t/
					18			(mod consol) light brwn -
					19			19' abundant - some brwn
					20			21.5' sandstone, light, abundant
					21		SW-S	brwn - tan, dry, mod well
					22			consolidated
					23			23' sandstone chunks
					24			absent
					25			



LT Environmental, Inc.
508 West Stevens Street
Carlsbad, New Mexico 88220

Compliance · Engineering · Remediation

Identifier:
MW01 C 4394

Date:
2/4/2020

Project Name:
PLU 423

RP Number:
~~2RP-2674~~
2RP-3790

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: **FS**

Method: **SONIC**

Lat/Long:

Field Screening: ~~CHLORIDES, PID~~


Hole Diameter: **4 1/8"**


Total Depth: **110'**


Comments:

rig adding
water

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
D			Z		26			27.5' SAND, dry, light brown-tan, poorly graded, fine-very fine
D			Z		27			grey - grey
D			Z		28		SP	30' trace light brown-tan caliche pebbles (gravel), rounded
D			Z		29			
D			Z		30			
D			Z		31			31' caliche pebbles absent
D			Z		32			31.5' color change
M			Z		33			light brown - reddish brown
M			Z		34			33-34' abundant ss chunks, mod consol
M			Z		35			35' ss chunks absent
M			Z		36		SW-S	36' some clay pockets, reddish brown, few pebbles, rounded - subrounded, grey - light grey, few laminations w/ clay, caliche, dolomite
M			Z		37			
M			Z		38			
M			Z		39			
M			Z		40			
M			Z		41			42.5' clay laminations, trace, reddish brown
M			Z		42			
M			Z		43			
M			Z		44			44' color change, light brown-tan, SILTY sand
D			Z		45		SP-SM	44.5' some SILTY sand, light brown - tan, no plasticity, non cohesive, trace high plas clay nodules, reddish brown
D			Z		46			
D			Z		47			48.5' low plas clay band, orange (35-40 mm)
D			Z		48			49.5' faint yellow band, (15-20 mm)
D			Z		49			
D			Z		50			

 LT Environmental, Inc. 508 West Stevens Street Carlsbad, New Mexico 88220 Compliance · Engineering · Remediation		Identifier: MW01 C 4394	Date: 2/4/2020					
		Project Name: PLU 423	RP Number: ZRP-3790					
LITHOLOGIC / SOIL SAMPLING LOG		Logged By: FS	Method: sonic					
Lat/Long:	Field Screening: CHLORIDES, PH	Hole Diameter: 4" / 6"	Total Depth: 110'					
Comments:								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
U			Z		51		SP	51.5' trace, high plas clay nodules
U			Z		52			
U			Z		53			53-54' some silty ss, poorly consolidated
M			Z		54			
M			Z		55			55.5' color change tan-grey band (30mm)
M			Z		56			
M			Z		57			59.5' SILTY sand, light
M			Z		58			brwn-brwn, moist,
M			Z		59			no plas, non cohesive,
M			Z		60		SM	no stain
U			Z		61			62' more consolidated
M			Z		62			64' dark brwn color
U			Z		63		sm-s	change, silty
M			Z		64			clay nodules
M			Z		65			66' pockets of silty
U			Z		66			clay brwn-green
M			Z		67			68' low plas clay pockets
M			Z		68			some, few low plas
U			Z		69			clay laminations
M			Z		70			
U			Z		71			71' SILTY sand, dry,
M			Z		72			no plas, non cohesive,
			Z		73			light brwn-tan
			Z		74		SM	74' trace caliche pebbles,
			Z		75			light grey-grey

 <p>LT Environmental, Inc. 508 West Stevens Street Carlsbad, New Mexico 88220 Compliance · Engineering · Remediation</p>		Identifier: MWDI C 4394	Date: 2/4/2020					
Project Name: PLU 423		RP Number: 2RP-3790						
LITHOLOGIC / SOIL SAMPLING LOG		Logged By: FS, BB	Method: sonic					
Lat/Long:		Field Screening: CHLORIDES, PID	Hole Diameter: 6 1/4"					
Total Depth: 110'		Comments:						
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
D			N		76		SM	76.5' trace low plas clay nodules, reddish brown
D			N		77			
D			N		78			82' CLAYSTONE, moist, brown-greenish grey, low plasticity, cohesive, no stain, no odor, mod consolidated
D			N		79			
D			N		80			
D			N		81			85' SILTY sand, dry, light brown-brown, no plas, non cohesive, no stain, no odor
D			N		82		CL-S	
D			N		83			
D			N		84			
D			N		85		SM	87' color change tan-off white
D			N		86			88' light brown-brown
D			N		87		SM-S	
D			N		88			87' SILTSTONE, dry, w/ clay pockets, low plas
D			N		89			
D			N		90			
D			N		91			91' abundant clay pockets
D			N		92			94.5' band yellow low plas clay
D			N		93			
D			N		94		SM	
D			N		95		CH	end @ 95' 2/4/2020
M			N		96			2/5/20
M			N		97			95'-101' CLAY, moist, brown-dark brown, high plasticity, cohesive, some tan clay laminations, no stain, no odor.
D			N		98			
M			N		99			98'-99' tan fine grain sandstone stringers.
M			N		100			

 LT Environmental, Inc. 508 West Stevens Street Carlsbad, New Mexico 88220 Compliance · Engineering · Remediation		Identifier: MWO F 4394	Date: 2/5/2020					
		Project Name: PLU 423	RP Number: 2RP-3790					
LITHOLOGIC / SOIL SAMPLING LOG		Logged By: BP	Method: Sonic					
Lat/Long:		Field Screening: CHLORIDES, PID.	Hole Diameter: 6" / 4"					
			Total Depth: 110'					
Comments:								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
D			N		101		CH SP-S	101' - 105' SANDSTONE, tan-light brown, dry, moderately consolidated, calcareous cemented, poorly graded, no stain, no odor.
D			N		102			
D			N		103			
D			N		104			
M			N		105			
D			N		106		CH	105' - 110' CLAY, moist, dark brown - brown, high plasticity, cohesive, tan sand laminations, no stain, no odor.
D			N		107			107' - 109' tan - light brown well consolidated fine green sandstone stringers.
D			N		108			
M			N		109			
					110			
					111		TD @ 110'	
					112			TD @ 110'
					113			
					114			
					115			
					116			
					117			
					118			
					119			
					120			
					121			
					122			
					123			
					124			
					125			

District I
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District II
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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 362388

QUESTIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 362388
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2401636864
Incident Name	NAPP2401636864 PLU 20 BRUSHY DRAW 124 @ 0
Incident Type	Release Other
Incident Status	Initial C-141 Approved

Location of Release Source	
Please answer all the questions in this group.	
Site Name	PLU 20 Brushy Draw 124
Date Release Discovered	01/06/2024
Surface Owner	Federal

Incident Details	
Please answer all the questions in this group.	
Incident Type	Release Other
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	Not answered.
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	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Cause: Human Error Tank (Any) Other (Specify) Released: 543 BBL Recovered: 540 BBL Lost: 3 BBL.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	produced water with FR added

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QUESTIONS, Page 2

Action 362388

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 362388
	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: Melanie Collins Title: Regulatory Analyst Email: Melanie.Collins@exxonmobil.com Date: 01/16/2024
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QUESTIONS, Page 3

Action 362388

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 362388
	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	Between 1 and 100 (ft.)
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 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (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	Between 500 and 1000 (ft.)
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 362388

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 362388
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	Extension Approved	7/10/2024