

For temporary pits, closed-loop systems, and below-grade tanks, submit to the appropriate NMOCD District Office.
For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

<u>F</u>	Pit, Closed-L	oop Syst	em, Belo	w-Grade	Tank	c, or	
Proposed	Alternative	Method	Permit or	Closure	Plan	Application	n

BGT1	 □ Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method □ Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method ☑ Modification to an existing permit □ Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system,
	, or proposed alternative method

Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request

Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances

Operator: XTO Energy, Inc.	OGRID #:_	5380
Address: #382 County Road 3100, Aztec, NM 8		
Facility or well name: _P AND R #1		
API Number: 30-045-11102		
U/L or Qtr/Qtr D Section 01 To		
Center of Proposed Design: Latitude 36.936810		
Surface Owner: Federal State Private Tr		
2.		
Pit: Subsection F or G of 19.15.17.11 NMAC		
Temporary: Drilling Workover		
☐ Permanent ☐ Emergency ☐ Cavitation ☐ P&A	4	
Lined Unlined Liner type: Thickness		Other
☐ String-Reinforced		
Liner Seams: Welded Factory Other	Volume: b	bl Dimensions: L x W x D
3.		
Closed-loop System: Subsection H of 19.15.17.	II NMAC	
Type of Operation: P&A Drilling a new well		high require prior approval of a permit or notice of
intent)		rodano kose akkos m se a komun za mezer za
☐ Drying Pad ☐ Above Ground Steel Tanks ☐	Haul-off Bins Dother	
Lined Unlined Liner type: Thickness	mil	Other
Liner Seams: Welded Factory Other		
4.		
Below-grade tank: Subsection I of 19.15.17.11	NMAC	
Volume: 120 bbl Type of fluid	: Produced Water	
Tank Construction material: Steel		<u> </u>
Secondary containment with leak detection	Visible sidewalls, liner, 6-inch lift and automatic o	overflow shut-off
☐ Visible sidewalls and liner ☐ Visible sidewalls	only Other _Visible sidewalls, vaulted, auto	overflow shut-off omatic high-level shut off, no liner
Liner type: Thickness mil		36
5.		
		8/13/
Submittal of an exception request is required. Except Form C-144	tions must be submitted to the Santa Fe Environm	nental Bureau office for consideration of approval.
Form C-144	Oil Conservation Division	Page 1 of 5
Form C-144		19
		Pas

Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks)	
cheme? Bubsection b of 19.19.19.11 Painte (applies to permanent plus, temporary plus, and below grade tames)	
Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school,	hospital,
nstitution or church) ☐ Four foot height, four strands of barbed wire evenly spaced between one and four feet	
☐ Four foot height, four straines of barbed wire evenly spaced between one and four feet ☐ Alternate. Please specify Four foot height, steel mesh field fence (hogwire) with pipe top railing	
A Arteriate. Freuer specify I can rest neight, steet mean neight terree (neg wher with page top ranning	
Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)	
☐ Screen ☐ Netting ☒ Other Expanded metal or solid vaulted top	
Monthly inspections (If netting or screening is not physically feasible)	
igns: Subsection C of 19.15.17.11 NMAC	
12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers	
Signed in compliance with 19.15.3.103 NMAC	
Administrative Approvals and Exceptions: ustifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance. Please check a box if one or more of the following is requested, if not leave blank: Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureau onsideration of approval. Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	office for
olding Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of accessive activities are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the approssive approval from the approssive acceptance of the secondary of the secondary of the secondary and the secondary of th	ppriate district
iround water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes 🖾 1
Vithin 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa ake (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ⊠ 1
Vithin 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. Applies to temporary, emergency, or cavitation pits and below-grade tanks) - Visual inspection (certification) of the proposed site; Acrial photo; Satellite image	☐ Yes ⊠ N☐ NA
Vithin 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. Applies to permanent pits) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	Yes NA
Vithin 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock ratering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ⊠ N
Vithin incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance dopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ⊠ 1
Vithin 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes 🖾 1
Vithin the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes 🛛 1
 Vithin an unstable area. Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	☐ Yes ☑ 1
Vithin a 100-year floodplain FEMA πap	
Form C-144 Oil Conservation Division Page 2 of 5	
Form C-144 Oil Conservation Division Page 2 of 5	

Tampuran Files, Emerciance Piles, and Below-cruek Tanks Pettinis Analisation Attochment Checklists: Subsection B of 19.15.17.9 NMAC instructions: Seek th the following latent must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Bydrogeologic Report (Below-grade Tanks) - bessed upon the requirements of Panagraph (2) of Subsection B of 19.15.17.19 NMAC Bydrogeologic Data (Temporary and Emergency File) - based upon the requirements of Panagraph (2) of Subsection B of 19.15.17.19 NMAC Bydrogeologic Data (Temporary and Emergency File) - based upon the appropriate requirements of Panagraph (2) of Subsection B of 19.15.17.19 NMAC Operating and Multitenance Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Multitenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complies Descent 4 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NM and 19.15.17.13 NMAC Previously Approved Design (attach copy of dosign) API Number:	4 .			
Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Pangraph (4) of Subsection B of 19.15.17.9 NMAC	Instructions: Each of the following items must be			
Colosure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NM and 19.15.17.3 NMAC Previously Approved Design (attach copy of design)	 ✓ Hydrogeologic Report (Below-grade Tanks) - ✓ Hydrogeologic Data (Temporary and Emergent ✓ Siting Criteria Compliance Demonstrations - b ✓ Design Plan - based upon the appropriate requ 	ncy Pits) - based upon the requirements pased upon the appropriate requirement irements of 19.15.17.11 NMAC	of Paragraph (2) of Subsection B s of 19.15,17.10 NMAC	
It. Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19,15,17,9 NMAC Instructions: Each of the following items must be attached to the application. Please Indicate, by a check mark in the box, that the documents are attached. Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19,15,17,19 NMAC Geologic and Hydrogeologic Data (only for on-site closure) - based upon the appropriate requirements of 19,15,17,11 NMAC Design Plan - based upon the appropriate requirements of 19,15,17,11 NMAC Design Plan Pelase complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of 19,15,17,13 NMAC Previously Approved Design (attach copy of design) API Number: (Applies only to closed-loop system that use above ground steel tanks or haul-off bins and propose to implement waste removal for closure)				tion C of 19.15.17.9 NMAC
Closed-loos Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following times must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Goologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.10 NMAC	Previously Approved Design (attach copy of des	ilgn) API Number:	or Permit Number: _	
Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Pangraph (3) of Subsection B of 19.15.17.9 Siting Criteria Compliance Plan - based upon the appropriate requirements of 19.15.17.1 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.13 NMAC Previously Approved Design (attach copy of design)	Closed-loop Systems Permit Application Attachm Instructions: Each of the following items must be			that the documents are
Previously Approved Operating and Maintenance Plan	☐ Geologic and Hydrogeologic Data (only for or Siting Criteria Compliance Demonstrations (or Design Plan - based upon the appropriate required ☐ Operating and Maintenance Plan - based upon ☐ Closure Plan (Please complete Boxes 14 through	only for on-site closure) - based upon the irements of 19.15.17.11 NMAC in the appropriate requirements of 19.15	ne appropriate requirements of 19.1	5.17.10 NMAC
13. Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following ideas must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.19 NMAC Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.10 NMAC Hydrogeological Factors Assessment Hydrogeological Factors Hydro	Previously Approved Design (attach copy of des	ign) API Number:		
Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.10 NMAC Climatological Factors Assessment Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.11 NMAC Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Climatological Factors Assumance Construction and Installation Plan Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Precedent of Pactor of Plan Plans Closure Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Nuisance or Hazardous Odors, including HyS, Prevention Plan Emergency Response Plan Oli Field Waste Stream Characterization Monitoring and Inspection Plan Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC Proposed Closure: 19.15.17.13 NMAC Proposed Closure: 19.15.17.13 NMAC Proposed Closure: 19.15.17.13 NMAC On-site Closure Method (Only for temporary pits and closed-loop systems) Closure Plan - based upon the appropriate requirements of Subsection For 19.15.17.13 NMAC On-site Closure Method (Only for temporary pits and closed-loop systems) Closure Method (Only for temporary pits and closed-loop systems) Cla	Previously Approved Operating and Maintenance	e Plan API Number:	(Applies only to clo	osed-loop system that use
Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.19 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC Quality Control/Quality Assurance Construction and Installation Plan Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Prebad and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Mustance or Hazardous Odors, including H ₂ S, Prevention Plan Closure Plan - based upon the appropriate requirements of 19.15.17.13 NMAC Harting and Inspection Plan Closure Plan - based upon the appropriate requirements of 19.15.17.9 NMAC and 19.15.17.13 NMAC Proposed Closure: 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan. Type: Optiling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Closed-loop System Alternative On-site Closure Method (Only for temporary pits and closed-loop systems) Closure Plan Delace Burial On-site Trench Burial On-site Trench Burial Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration) Maste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) On-site Closure Method (Exceptio	above ground steel tanks or haul-off bins and propos	se to implement waste removal for clos	ure)	
Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19,15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.11 NMAC Critified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC Quality Control/Quality Assurance Construction and Installation Plan Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Precboard and Overtoping Prevention Plan - based upon the appropriate requirements of 19.15.17.13 NMAC Nuisance or Hazardous Odors, including H ₂ S, Prevention Plan Energy Response Plan Energy Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Erosion Control Plan Closure Plan - based upon the appropriate requirements of 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan. Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Closed-loop System In-place Burial On-site Closure Method: Waste Removal (Closed-loop systems only) On-site Closure Method: Waste Stream Health On-site Closure Method (Dny for temporary pits and closed-loop systems) In-place Burial On-site Trench Burial On-site Trench Burial Alternative Closure Method (Dny for temporary pits and closed-loop systems) In-place Burial On-site Trench Burial On-site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions:	Permanent Pits Permit Application Checklist: So Instructions: Each of the following items must be a		licate, by a check mark in the box	, that the documents are
Proposed Closure: 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.	Dike Protection and Structural Integrity Desig Leak Detection Design - based upon the appro Liner Specifications and Compatibility Assess Quality Control/Quality Assurance Constructi Operating and Maintenance Plan - based upon Freeboard and Overtopping Prevention Plan - Nuisance or Hazardous Odors, including H ₂ S, Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Closure Plan - based upon the appropriate requ	n - based upon the appropriate requirer opriate requirements of 19.15.17.11 NM sment - based upon the appropriate requirement on and Installation Plan the appropriate requirements of 19.15. based upon the appropriate requirement Prevention Plan	ments of 19.15.17.11 NMAC MAC uirements of 19.15.17.11 NMAC .17.12 NMAC nts of 19.15.17.11 NMAC	
Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Closed-loop System Alternative Proposed Closure Method: Waste Excavation and Removal Waste Removal (Closed-loop systems only) On-site Closure Method (Only for temporary pits and closed-loop systems) In-place Burial On-site Trench Burial Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration) 18. Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached. Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC	Proposed Closure: 19.15.17.13 NMAC	Rayes 1.1 through 18 in regards to t	ha proposad olosuva plan	
Alternative Proposed Closure Method: Waste Excavation and Removal Waste Removal (Closed-loop systems only) On-site Closure Method (Only for temporary pits and closed-loop systems) In-place Burial On-site Trench Burial Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration) Is. Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached. Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC		107		osed-loop System
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached. ☐ Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC ☐ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC ☐ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) ☐ Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC ☐ Re-vegetation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC	Proposed Closure Method: Waste Excavation ar Waste Removal (Closure Method: On-site Closure Method: In-place	osed-loop systems only) hod (Only for temporary pits and close Burial On-site Trench Burial		reau for consideration)
Form C-144 Oil Conservation Division Page 3 of 5	Soil Backfill and Cover Design Specifications Re-vegetation Plan - Design Specifications Re-vegetation Plan - Dased upon the appropriate Re-vegetation Plan - based upon the appropriate Re-vegetation Plan - Dased upon the	ecklist: (19.15.17.13 NMAC) Instruct the box, that the documents are attached propriate requirements of 19.15.17.13 No pased upon the appropriate requirement for liquids, drilling fluids and drill cutting based upon the appropriate requirements of Subsection I of 19.1	tions: Each of the following items ed. NMAC ts of Subsection F of 19.15.17.13 N ngs) ents of Subsection H of 19.15.17.1	s must be attached to the
	Form C-144	Oil Conservation Division		Page 3 of 5

Disnosal Facility Name	Disposal Facility Permit Number:	
Disposal Facility Name: Disposal Facility Name:		
	ions and associated activities occur on or in areas that will not be used for future ser	
Re-vegetation Plan - based upon the appropri	for future service and operations: s based upon the appropriate requirements of Subsection H of 19.15.17.13 NMA ate requirements of Subsection I of 19.15.17.13 NMAC opriate requirements of Subsection G of 19.15.17.13 NMAC	c
rovided below. Requests regarding changes to ce	nstration of compliance in the closure plan. Recommendations of acceptable sou train siting criteria may require administrative approval from the appropriate dist to the Santa Fe Environmental Bureau office for consideration of approval. Just	rict office or may
iround water is less than 50 feet below the bottom - NM Office of the State Engineer - iWATER	of the buried waste. RS database search; USGS; Data obtained from nearby wells	Yes No
round water is between 50 and 100 feet below the NM Office of the State Engineer - iWATER	bottom of the buried waste RS database search; USGS; Data obtained from nearby wells	Yes No
round water is more than 100 feet below the botto - NM Office of the State Engineer - iWATER	m of the buried waste. S database search; USGS; Data obtained from nearby wells	Yes No
Vithin 300 feet of a continuously flowing watercou ke (measured from the ordinary high-water mark). Topographic map; Visual inspection (certifi		☐ Yes ☐ N
/ithin 300 feet from a permanent residence, school - Visual inspection (certification) of the prope	, hospital, institution, or church in existence at the time of initial application. osed site; Aerial photo; Satellite image	☐ Yes ☐ N
atering purposes, or within 1000 horizontal feet of	esh water well or spring that less than five households use for domestic or stock any other fresh water well or spring, in existence at the time of initial application. AS database; Visual inspection (certification) of the proposed site	☐ Yes ☐ N
dopted pursuant to NMSA 1978, Section 3-27-3, as	a defined municipal fresh water well field covered under a municipal ordinance s amended. le municipality; Written approval obtained from the municipality	☐ Yes ☐ No
/ithin 500 feet of a wetland US Fish and Wildlife Wetland Identification	n map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
/ithin the area overlying a subsurface mine Written confirmation or verification or map	from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No
/ithin an unstable area. - Engineering measures incorporated into the Society; Topographic map	design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological	Yes N
/ithin a 100-year floodplain FEMA map		Yes N
y a check mark in the box, that the documents are Siting Criteria Compliance Demonstrations -	AAC) Instructions: Each of the following items must be attached to the closure place attached. based upon the appropriate requirements of 19.15.17.10 NMAC the appropriate requirements of Subsection F of 19.15.17.13 NMAC if applicable) based upon the appropriate requirements of 19.15.17.11 NMAC for in-place burial of a drying pad) - based upon the appropriate requirements of 19. propriate requirements of 19.15.17.13 NMAC based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC the appropriate requirements of Subsection F of 19.15.17.13 NMAC for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannute requirements of Subsection H of 19.15.17.13 NMAC atter requirements of Subsection I of 19.15.17.13 NMAC opriate requirements of Subsection G of 19.15.17.13 NMAC Oil Conservation Division Page 4 o	
Form C-144	Oil Conservation Division Page 4 o	f5

- ·,, · ·	lication is true, accurate and complete to the	he best of my knowledge and belief.
Name (Print): Kim Champlin	Title:	Environmental Representative
Signature: Kim Champlin	Date:	01/05/2009
-mail address: kim_champlin@xtoenergy.com		(505) 333-3100
o. DCD Approval: X Permit Application (including closure	nlan) Closure Plan (only) OCD	Conditions (see attachment)
· · · · · · · · · · · · · · · · · · ·	• • • •	Approval Date:08/12/2022
OCD Representative Signature: <u>Jaclyn Burdin</u> Fitle: Environmental Specialist-A	OCD Permit Num	
inte:	OCD Fermit Numi	per:_DGTT
Closure Report (required within 60 days of closure comp instructions: Operators are required to obtain an approved The closure report is required to be submitted to the division ection of the form until an approved closure plan has been	d closure plan prior to implementing any on within 60 days of the completion of the	closure activities and submitting the closure repo closure activities. Please do not complete this been completed.
2.		
Closure Method: Waste Excavation and Removal On-Site Closure M If different from approved plan, please explain.	Method Alternative Closure Method	☐ Waste Removal (Closed-loop systems only)
s. Closure Report Regarding Waste Removal Closure For Constructions: Please indentify the facility or facilities for was facilities were utilized.	here the liquids, drilling fluids and drill c	uttings were disposed. Use attachment if more th
Disposal Facility Name:		
Disposal Facility Name:		be used for future service and operations?
Yes (If yes, please demonstrate compliance to the item	is below) No	or about the table of the and operations.
required for impacted areas which will not be used for future. Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Techniq	·	
Closure Report Attachment Checklist: Instructions: Each ark in the box, that the documents are attached. Proof of Closure Notice (surface owner and division) Proof of Deed Notice (required for on-site closure) Plot Plan (for on-site closures and temporary pits) Confirmation Sampling Analytical Results (if applicate waste Material Sampling Analytical Results (required Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Techniq Site Reclamation (Photo Documentation)	ole) i for on-site closure) ue	
On-site Closure Location: Latitude	Longitude	NAD: 1927 1983
perator Closure Certification: hereby certify that the information and attachments submitted information and attachments submitted information. I also certify that the closure complies with all applications (Print):	able closure requirements and conditions s	pecified in the approved closure plan,
		,
ignature:		
mail address:	Telephone:	
		Page 5 of 5
Form C-144	Oil Conservation Division	Page 5 of 5

Received by OCD: 5/20/2022 9:38:01 AM

A I adada. C	I	Pit Permit	D-1-1	ATO Ellergy
Lodestar Service			Project:	
70 Bez 4465, Duran	pa, CO 81302	Siting Criteria	Revised:	
V		Information	Prepared by:	Trevor Ycas
API#:	3	0-045-11102	USPLSS:	31N 14W 1 D
Name:	P AND R No	o. 001	Lat/Long:	36.936810°, -108.268020°
Depth to groundwater:	(depth > 100'	Geologic formation:	Menefee Formation (Kmf)
Distance to closest continuously flowing watercourse:	4.5 miles	E to 'La Plata River'	site elevation: 1858m/6096'	
Distance to closest significant watercourse, lakebed, playa lake, or sinkhole:		SW to 'Barker Arroyo' mittent stream)		
			Soil Type:	Entisol / Rockland
Permanent residence, school, hospital, institution or church within 300'		NO		
	Tu.		Annual Precipitation:	Shiprock: 6.90", Fruitland: 7.38", Farmington (FAA): 8.21"
Domestic fresh water well or spring within 500'		NO	Precipitation Notes:	Historical daily max. precip.: 2.9" (Shiprock)
Any other fresh water well or spring within 1000'		NO		
Within incorporated municipal boundaries		NO	Attached Documents:	31N13W_iWaters.pdf, 31N14W_iWaters.pdf, 31N15W_iWaters.pdf, 32N13W_iWaters.pdf, 32N14W_iwaters.pdf, 32N15W_lwaters.pdf, 33N13W_iWaters.pdf, 33N14W_iWaters.pdf, 33N15W_iWaters.pdf
Within defined municipal fresh water well field		NO		30-045-11102_gEarth- Waters. pg, 30-045-11102_gEart PLS.jpg ,30-045-11102_topo-PLS.jpg
Wetland within 500'		NO	Mining Activity:	None Near
Within unstable area		NO		NM_NRD-MMD_MinesMillQuarries_30-045-11102.jpg NM_NRD-MMD_UTE_COALBNDS_prox.jpg
Within 100 year flood plain	unmapped	area: see note below		
Additional Notes:				
Irains to 'La Plata River' via 'Craig Arroyo'				E above 'Barker Arroyo', W of 'Coalbank Canyon' & 'Craig Arroyo'

Client:

XTO Energy

Released to Imaging: 8/12/2022 9:56:06 AM

P & R No. 001, Below Grade Tank: Hydrogeologic Report for Siting Criteria

General Geology and Hydrology

The San Juan Basin is a typical Rocky Mountain basin with a gently dipping southern flank and a steeply dipping northern flank. Asymmetrically layered Tertiary sandstones and shales, along with Quaternary alluvial deposits dominate surficial geology (Dane and Bachman, 1965). The proposed below ground tank location will be located in the northwest corner of the San Juan Basin, where the Hogback monocline ends. Thicker sequences common throughout the central basin begin to pinch out and older units of Cretaceous Age are exposed, specifically the Menefee Formation and Cliff House Sandstone (Brister and Hoffman, 2002). The resistant Cliff House sandstones form prominent cliff bands, while shales and smaller sandstones of the Menefee Formation are exposed at lower elevations. The stratigraphic section reflects deposition in a coastal plain environment and consists of gray, brownish and tank sandstone interbedded with dark, carbonaceous shales and coal beds. Also, deposits of Quaternary alluvial and aeolian sands occur prominently near the surface, especially near streams and washes.

Cretaceous and Tertiary sandstones, as well as Quaternary alluvial deposits serve as the primary aquifers in the San Juan basin (Stone et al., 1983). Within the Menefee Formation, thinner confining units that consist of shale, as well as coal and thick sandstone beds, are present. In general, the water from Cretaceous aquifers is minimal (less than 5 gpm), although moderate quantities (5-25 gpm) may be supplied from aquifers within the Menefee Formation (Stone et al., 1983). Aquifer depths range from very shallow depths to over 6000 feet below ground surface. Groundwater within these aquifers flows toward the nearby La Plata River, which is a tributary of the San Juan River.

The prominent soil type at the proposed site is entisols, which are basically little to no soils that do not show any profile development. Soils that are present are unaltered from their parent rock. Miles of arroyos, washes and intermittent streams exist as part of the drainage network towards the La Plata River (www.emnrd.state.nm.us). These features often cut into soil and other unconsolidated materials, contributing to sedimentation downstream. The sudden influx of water from storm events easily erodes the soils that cover the area and prohibits effective recharge to the underlying aquifers.

Dry and arid weather further prohibit active recharge. The climate of the region is arid, averaging just over 8 inches of rainfall annually. As is typical of the southwestern United States monsoonal weather patterns, most precipitation falls from August through October. The heaviest rainfall occurs in the summer in isolated, intense cloudbursts. November through June is relatively dry. Snow generally falls from December to mid-February and averages less than one-half inch in depth. However, most recharge occurs during the winter months during snowmelt periods from the upper elevations (Western Regional Climate Center www.wrcc.dri.edu).

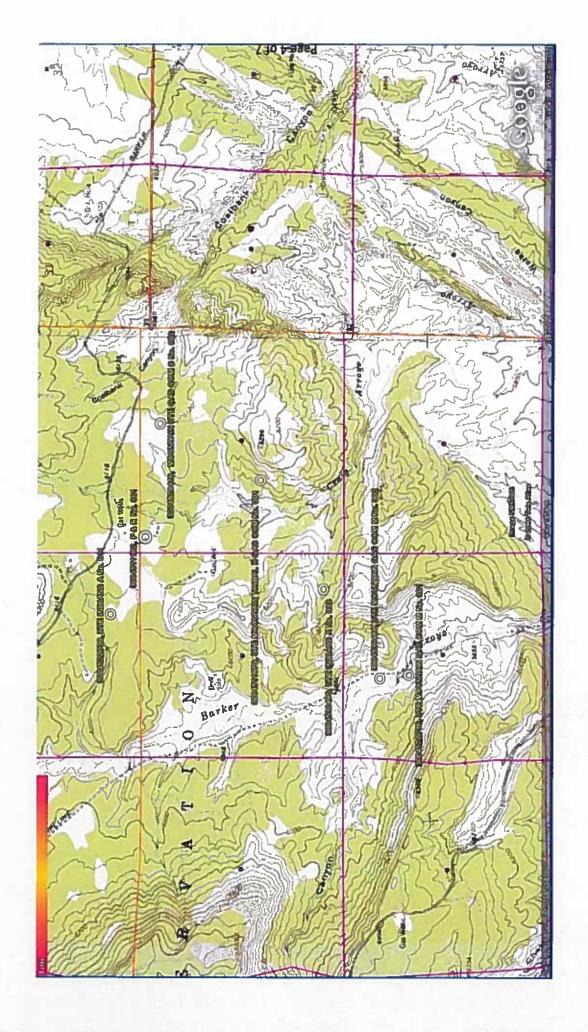
The predominant vegetation is sagebrush and grasses with a more restricted pinon-juniper association (Dick-Peddie, 1993).

Site Specific Hydrogeology

Depth to groundwater is estimated to be greater than 100 feet. This estimation is based on data from Stone and others, 1983 and depth to groundwater data published on the New Mexico State Engineer's iWaters Database website. Local topography and proximity to surface hydrologic features are also taken into consideration.

Local aquifers include sandstones within the Menefee Formation, which range from shallow depths to over 6000 feet deep in this area (Stone et al., 1983). The site in question is located on a gentle slope approximately 5000 feet away from outcropping sandstones that are over 350 feet higher in elevation. The slope is composed of shale and alluvium which, taken together, are expected to be at least 50 feet thick.

Groundwater data available from the NM State Engineer's iWaters Database for wells near the proposed site are attached. A map showing the location of wells in reference to the proposed pit location is attached. Pinpoints show locations of wells and the labels for each pinpoint indicate depth to groundwater in feet. Wells are clustered near populated areas along the La Plata River east of the proposed site. These sites contain shallow groundwater, but topographic and hydrographic conditions are not representative of the site in question. Rather, the surrounding geology and topography must be used to estimate depth to groundwater. The base of the adjacent Little Barker arroyo is over 250 feet lower in elevation than the proposed site. However, the adjacent Craig Arroyo channel is only 30 feet lower in elevation. Therefore, groundwater is estimated to be over 100' deep.





Received by OCREW PRESIDE Office of the State Engineer

New Mexico Office of the State Engineer POD Reports and Downloads

			@ A11		
tions:	Zone: Search Radius:	Number: Suffix:	O Non-Domestic O Domestic ® All	to Water Report Water Column Report	WATERS Menu Help
Township: 32N Range: 14W Sections:	NAD27 X: Y: Zc	County: Basin:	Owner Name: (First) (Last)	POD / Surface Data Report Avg Depth to Water Report Water Column Report	Clear Form IWAT

WATER COLUMN REPORT 08/11/2008

Depth Water Depth Well (quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are biggest to smallest) Zone Tws Rng Sec q q q POD Number

Water (in feet)

Column

No Records found, try again

	Search Radius:	er: Suffix:	O Non-Domestic O Domestic O All	Water Column Report	
V Sections:	Zone:	Number:	(Last)	Avg Depth to Water Report	n IWATERS Menu Help
Township: 32N Range: 13W	NAD27 X: Y:	Basin:		POD / Surface Data Report Avg Depth to Water Report Water Column Report	Clear Form
I	NAL	County:	Owner Name: (First)	Ind	

WATER COLUMN REPORT 08/11/2008

	(quarters	are	Z I	3	1	E E	quarters are 1=NW 2=NE 3=SW 4=SE)						
	(quarters are biggest to	are	bid	9			smallest)			Depth	Depth	Water	(in feet
POD Number	Twe	Rud			0		Zone	×	×	Well	Water	Column	
SJ 01187 CLW226675	175 32N	13W	10	(L)	4	-				24	თ	15	
SJ 01187	32N	13W	10	2	4	_				24	O	15	
SJ 01353	32N	13W	10	4	m						38		
8J 01439	32N	13W	10	4	m					45	25	20	
SJ 02068	32N	13W	15	0						45	16	29	
8J 01549	32N	13W	15	N	-					47	28	19	
SJ 02985	32N	13W	15	2	1 2	ΔI				47	25	22	
8J 02350	32N	13W	15	N	3	_				26			
SJ 02865	32N	13W	15	N	5	01				44	29	15	
SJ 02558	32N	13W	15	m	2	-				41	23	18	
SJ 02934	32N		15	4	-	_				34	18	16	
8J 02890	32N		15	4	-	01				52	30	25	
SJ 02705	32N		22	1	4	01				25	12	13	
SJ 02704	32N	138	22	П	4	01				25	12	13	
SJ 03111	32N	13W	22	2	1 4	_				6 E	9	13	
SJ 02848	32N	13%	22	N	7					608	50	558	
SJ 00922	32N	13W	22	m	1 4					27	12	15	
SJ 00906 X	32N	13W	22	3	4					86	26	09	
SJ 02918	32N	13W	22	m	7	01				51	30	21	
8J 00736	32N	13W	22	4	н					40	15	25	
8.7 00339	32N	13W	22	4	1					50	12	38	
	ĺ												

ייוח וויים מתחריווום

Received by OCD: 5/20/2022 9:38:01 AM New Mexico Office of the State Engineer

SJ 00340	SJ 02847	8J 03123	8J 03524	8J 03525	SJ 01285	sJ 03256	8J 03037	SJ 03066	SJ 01079	8J 01943	SJ 02901	8J 03635	8J 02577	SJ 03090	SJ 02589	00000
32N	MCC															
13W	1314	1314	13W	13W	13W	13W	13W	13W	T3W	1 253						
22	22	27	27	27	28	34	34	34	34	34	34	34	34	35	35	E
4	4	m	m	4	m	1	-	N	m	4	4	4	4	m	(C)	C
C .	4	4	4 1	3	1 4	4 2	4	2	m		2	2 4	4	1	3	2
					-	01	~	01			0.1				01	

-
33
44
E
5
Ü
T
H
0
8
æ.

Released to Imaging: 8/12/2022 9:56:06 AM

	1255			59		15		13	70	5		đ	15		25	
12			10			9		28	30	n			15			
	1255	30	м С	7.1	27	21	100	41	100	80	50	44	30	59	09	62

			estic All		
	adius:	Suffix:	ONon-Domestic ODomestic @ All	olumn Report	
	Search Radius:	Number:	ONon-Dom	port Water C	Heb
Sections:	Zone:			epth to Water Re	WATERS Menu
Range: 15W	Y:		(Last)	Report Avg D	Clear Form
Township: 31N Range: 15W	D27 X:	Basin:	(First)	POD / Surface Data Report Avg Depth to Water Report Water Column Report	
To	NAD2	County:	Owner Name: (F	Ä	

WATER COLUMN REPORT 08/11/2008

Water (in feet) Column Depth Water Depth Well (quarters are biggest to smallest) (quarters are 1=NW 2=NE 3=SW 4=SE) Zone Tws Rng Sec q q q POD Number

No Records found, try again

			ic All		
		Suffix:	ONon-Domestic ODomestic OAll	Report	
	Search Radius:		Domestic	er Column	
	Sear	Number:	O Non-	oort Wat	Help
Sections:	Zone:			Avg Depth to Water Report Water Column Report	WATERS Menu Help
	Zo		st)	vg Depth to	
Township: 31N Range: 14W	¥:		(Last)	Report /	Clear Form
31N R		Basin:		POD / Surface Data Report	
Fownship:	AD27 X:		(First)	POD / Sur	
	NAL	County:	Owner Name:		
		Con	Own		

WATER COLUMN REPORT 08/11/2008

Cquarters are biggest to smallest) Depth Depth Water (in feet) POD Number Tws Rng Sec q q g Zone X Y Well Water Column RG 37716 31N 14W 05 C 727700 2164700 47 27 27 RG 37737 31N 14W 35 C 736990 2151000 54 27 27		(dnarter	B are	TENM ZE	NE 3	T NO	I SE					6	
Tws Rng Sec q q g Zone X Y Well Water 31N 14W 05 C 727700 2164700 47 31N 14W 35 C 736990 2151000 54 27		(quarter)	B are	a biggest	ដ	Small	.est)		Depth	Depth	Water	(in	feet
31N 14W 05 C 727700 2164700 47	POD Number	TWB	Rng	Sec q q	טי	Zone	×	×	Well	Water	Column		
31N 14W 35 C 736990 2151000 54	RG 37716	31N	14W	0.5		U	00	2164700	47				
	RG 37737	31N	14W	35		U	90	2151000	54	27	27		

Record Count: 2

		c © All		
	Suffix:	ODomest	Report	
earch Radius		n-Domestic	Vater Column	_
Š	Number	% 	r Report V	Help
Zone:			Septh to Wate	WATERS Menu
		(Last)	ort Avg [Clear Form
;; 	Basin:		ce Data Repo	පී
727 X: [(First)	POD / Surface	
NAL	ounty:	ner Name:		
	NAD27 X: Zone: Zone: Search Radius:	NAD27 X: Y: Zone: Numb	NAD27 X: Y: Zone: Search Radius Annual Search Radius Number: N	Basin:

WATER COLUMN REPORT 08/11/2008

	(quarters	are	11	TW 2	H	(quarters are 1=NW 2=NE 3=SW 4=SE)							
	(quarters		big 1	1968	t to	are biggest to smallest)			Depth	Depth	Water	(in i	(in feet)
POD Number	Twa		Sec	9		Zone	×	>1	Well	Water	Column	,	
SJ 02590	31N	13W	02	12	m				114	70	44		
SJ 00835	31N	13W	02	2 2					34	19	15		
8J 03386	31N	13W	03	2					80	11	69		
SJ 02879	31N	13W	03	2 3	2				30				
SJ 03137	31N	13W	03	2 3	ריו				50				
8J 02990	31N	13W	03	2 3	4				100	22	78		
8J 01295	31N	13W	60	2 1	1				230	180	50		
SJ 02977	31N	13W	60	2 1	3				325	124	201		
SJ 02920	31N	13W	60	2 3	m				85				
8J 02755	31N	13W	60	2 3	4				09	40	20		
SJ 02987	31N	13W	60	4 1	ന				250	87	163		
SJ 03382	31N	13W	60	4 3	7				50				
SJ 02717	31N	13W	10	1 3					42	22	20		
SJ 01094	31N	13W	10	2					130	09	7.0		
SJ 00798	31N	13W	10	7					125	65	09		
SJ 00089	31N	13W	10	2 1	1				80	18	62		
SJ 01952	31N	13W	10	2 4					16	9	10		
SJ 01944	31N	13W	10	2 4					20	4	16		
SJ 02276	31N	13W	10	m					24	19	5		
SJ 01945	31N	13W	10	3					31	16	15		
SJ 00729	31N	13W	10	4 1					43	10	33		

Engineer
ine State
0.0
2022 9.3 Geo Office
: 5/20/
, ocp
ived by
Rece

21	20	40	5.4	104	115	11	50	78	100	220	24	100	74	80	100	42	80	42	40	190	50	50	160	42	70	500	25	18
4 1	4 2 2	1 4 3	3 2 4		1	1 1 3	3 1	3 3	3 3 1	3 3 3	1 3 1	1 1	1 1 1	1 1 1	1 3 1	1 4 2	E E	4 2 3	4 2 3	4 3 1	4 4 1	4 4 4	1 3 1	1 4	311	3 2 1	3 2 2	3 2 3
13W 10	13W 10	13W 15	13W 15	13W 21	13W 22	13W 22	13W 22	13W 22	13W 22	13W 22	13W 23	13W 27	13W 27	13W 27	13W 27	13W 27	13W 27	13W 28	13W 28	13W 28	13W 28	13W 28	13W 33	13W 33				
31N	31N	31N	31N	31N	SIN	31N	31N	NIE	31N	31N	31N	31N	31N	31N	31%	31N	31N	31N	31N	31N	318	31N	31N	318	31N	31N	31N	31N
SJ 01950	SJ 02637	SJ 03734 POD1	SJ 02048			SJ 03197	SJ 01820	SJ 02737	SJ 02836	SJ 03797 POD1	SJ 03611	8J 02729		SJ 02832	SJ 03191	SJ 03351		SJ 02294	SJ 02724		8J 02811	SJ 02766	SJ 03284	SJ 02072	SJ 01591	SJ 02618	SJ 03083	

 Record Count: 50

9/11/7/000 6:20 DAJ

	Search Radius:	er. Suffix:	Non-Domestic O Domestic O All	Water Column Report	d _k
Township: 30N Range: 15W Sections:	Y: Zone:	Number	(Last)	POD / Surface Data Report Avg Depth to Water Report	Clear Form IWATERS Menu Help
Township: 30N Ra	NAD27 X:	County: Basin:	Owner Name: (First)	POD / Surface Data Re	

WATER COLUMN REPORT 08/12/2008

ab)	larters	are	11年	1 2	N	3=SW 4	=SE)					
5)	arters	are	bigg	105	t	small	(quarters are biggest to smallest)		Depth	Depth	Water	(in feet)
POD Number	TWB	Rng !	Sec	5	O.	Zone	×	×	Well	Water	Column	Column
SJ 00815 EXPLOR-2	30N	15W	22	5	4				240			
SJ 00815 O-EXPLORE	30N	15W ;	27 4	2	Н				231			
SJ 00815 EXPLORE-1	30N	15W ;	27 4	5	٦				234			
87 00815 0	30N	15W ;	27 4	3	m				231			
SJ 03798 POD1	30N	15W 2	29 4	. 2	2		254738	2105417	35	12	23	
XPLO	30N	15W	36 3	4	ന	3	342253	2100399	524	131	393	
SJ 00971 EXPLORE-1	30N	15W :	36 3	4	m	3	342253	2100399	532	102	430	

Record Count: 7

114 FL.0 0000/11/0

NAD27 X:	X:	K:	Zone:	Search Radius:	us:
County:	Basin:	in:		Number:	Suffix:
Owner Name: (First)		7	(Last)	Non-Domesti	ONon-Domestic O Domestic (6) All
POD	/ Surface Da	ita Report	POD / Surface Data Report	Poort Water Colum	nn Report
		Clear Form	n WATERS Menu Help	Help	

WATER COLUMN REPORT 08/12/2008

	(quarters are 1=NM 2=NE 3=SW 4=SE) (quarters are biggest to smallest)	s are	bic	100	ST T	300	SW 4=	SE)			Depth	Depth	Water	(in fe	et)
POD Number	Tws	Rng Sec q q q	Sec	ס	5	N	Zone		×	×	Well	Water	Column		
SJ 00944	30N	14W	03	\leftrightarrow	m						19	'n	26		

Record Count: 1

Township:	Township: 30N Range: 13W	3W Sections:	
NAD27 X:	K:	Zone:	Search Radius:
County:	Basin:	Z	Number: Suffix:
Owner Name: (First)		[Last)	ONon-Domestic ODomestic @All
POD / Surf	ace Data Report	Avg Depth to Water Repo	POD / Surface Data Report Avg Depth to Water Report Water Column Report
	Clear Fe	Clear Form IWATERS Menu Help	Help

WATER COLUMN REPORT 08/11/2008

	(quarters	s are		TA S	1=NW 2=NE	3=SW 4=SE	(i)					
	(quarters		pid .	1968	are biggest to	smallest			Depth	Depth	Water	(in feet)
POD Number	Tws	Rng	Sec	9	5	Zone	×	×	Well	Water	Column	
RG 22431	30N	13W	30						100	45	55	
SJ 01344	30N	13W	0.1	4]	2				42	27	15	
8J 03283	30N	13W	90	2 4	2				20	œ	12	
8J 00132	30N	13W	0.5	3 4	4				100	46	54	
8J 01101	30N	13W	08	1					41	26	15	
SJ 03326	30N	13W	08		m				55	30	25	
87 00328	30N	13W	80	2					33	21	12	
SJ 02268	30N	13W	08	2					30	21	on.	
8J 01463	30N	13W	80	2					52	30	22	
83 00877	30N	13W	80	2					09	30	30	
8J 00293	30N	13W	80	7					50	30	20	
SJ 00855	30N	13W	90	2 1	_,				20	25	25	
SJ 01068	30N	13W	80	2 1					53	28	25	
8J 02326	30N	13W	80	2 1	m				42	35	7	
8J 02735	30N	13W	80	2	4				43	23	20	
SJ 00587	30N	13W	80	3	2				72	48	24	
8J 03195	30N	13W	08	4 1	r=1				09	35	25	
87 03328	30N	13W	80	4]	-4				09			
SJ 03196	30N	13W	80	4 1	7				41	20	21	
SJ 03160	30N	13W	80	4 1	₹.				09	00	52	
SJ 00374	30N	13W	90	4	0.1					99		

140 32 100 58 Record Count: 60

15 21 22 26 30 30 15 60 ייות טעיט פטטטוווים

			All		
	Search Radius	Number Suffix:	o Non-Domestic o Domestic * All	POD / Surface Data Report Avg Depth to Water Report Water Column Report	Heb
15W Sections:	2оме:	Nu	(Last)	Avg Depth to Water Rep	Clear Form WATERS Menu Help
Township: 32N Range 15W Sections:	NAD27 X. Y.	Basin:	(First)	POD / Surface Data Report	Clear
	_	County:	Owner Name:		

POD / SUMFACE DATA REPORT 12/07/2508

(acre ft per annum) Use Diversion Owner DB File Mbr

POD Number

(quarters are 1-NW 2-NE 3-SW 4-6E) (quarters are biggest to smallest X Y are in Fest Source Twe RNg Sec q q q 2 cone X

UTM arm in Meters) Start UTM_Zone Easting Morthing Date

Depth

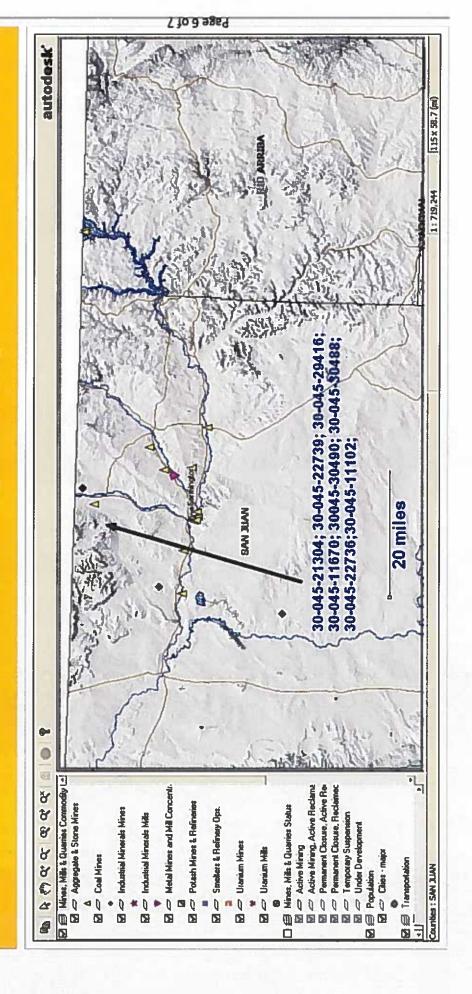
Finish Date

No Records found, try again

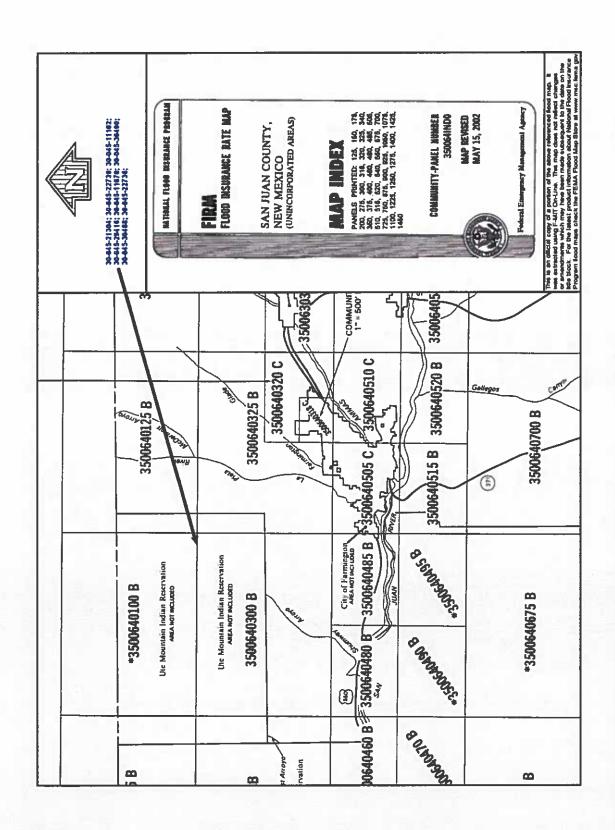




Mines, Mills and Quarries Web Map



Received by OCD: 5/20/2022 9:38:01 AM



XTO Energy Inc. San Juan Basin (Northwest New Mexico) General Design and Construction Plan For Below-Grade Tanks

In accordance with Rule 19.15.17.11 NMAC the following information describes the design and construction of below-grade tanks on XTO Energy Inc. (XTO) locations. This is XTO's standard procedure for all below-grade tanks. A separate plan will be submitted for any below-grade tank which does not conform to this plan.

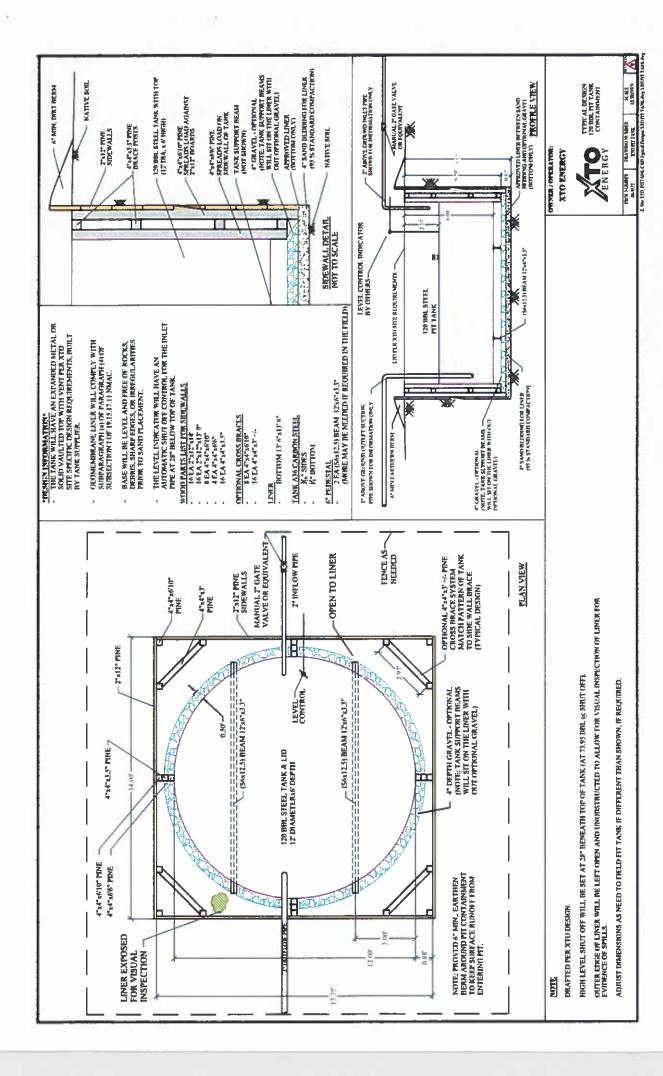
General Plan

- XTO will design and construct below-grade tanks to contain liquids and solids and prevent contamination of fresh water and protect public health and environment.
- 2. XTO will post a well sign, in compliance with 19.15.3.103 NMAC, on the existing well site operated by XTO where the existing below-grade tank is located. The sign will list the Operator on record as the operator, the location of the well site by unit letter, section, township, range, and emergency telephone numbers.
- 3. XTO is requesting approval of an alternative fencing to be used on below-grade tank locations. Below-grade tank locations will be fenced utilizing 48" steel mesh field-fence (hogwire) with pipe railing along the top. A 6' chain link fence will be utilized around the well pad if the well site is within a city limits or ¼ mile of a permanent residence, school, hospital, institution or church. Below-grade tanks located within 1000' of a permanent residence, school, hospital, institution or church will be fenced by 6' chain link fence with at least two strands of barbed wire at the top. All gates associated with below-grade tanks will remain closed and locked when responsible individuals are not on site.
- 4. XTO shall construct below-grade tanks with an expanded metal covering or solid vaulted top on the top of the below-grade tank.
- 5. XTO will ensure that below-grade tanks are constructed of materials resistant to the below-grade tank's particular contents and resistant to damage from sunlight. Tanks will be constructed of A36 carbon steel with 3/16" sides and \(\frac{1}{2} \) bottom. (See attached drawing).
- 6. The below-grade tank system will have a properly constructed foundation consisting of a level base free of rocks, debris, sharp edges or irregularities to prevent punctures, cracks or indentations of the liner or tank bottom. Sand bedding (4") will be placed on top of a level foundation to ensure prevention of punctures, cracks or indentations of the liner or tank bottom.
- 7. XTO will construct a berm and/or diversion ditch in a manner that prevents the collection of surface water run-on. Below-grade tanks will be equipped with automatic high level shut-off devices as well as manually operated shut-off valves. (See attached drawing).
- 8. XTO will construct and use below-grade tanks that do not have double walls. The below-grade tank sidewalls will be open for visual inspection for leaks. The sidewalls of the cellar will be constructed with 2" X 12" pine sidewalls and 4" X 4" pine brace posts. The below-grade tank

XTO Energy Inc.
San Juan Basin (Northwest New Mexico)
General Design and Construction Plan
For Below-Grade Tanks
Page 2

bottom will be elevated a minimum of 6" above the underlying ground surface and the belowgrade tank will be underlain with a geomembrane liner to divert leaked liquid to a location that can be visually inspected. (See attached drawing).

- XTO will equip below-grade tanks designed in this manner with a properly functioning automatic high-level shut-off control device and manual controls to prevent overflows. (See attached drawing).
- 10. XTO will demonstrate to the OCD that the geomembrane liner complies with the specifications of Subparagraph (a) of Paragraph (4) of Subsection I of 19.15.17.11 NMAC and obtain approval from OCD prior to the installation of the design. The geomembrane liner shall have a hydraulic conductivity no greater than 1 x 10-9 cm/sec. The geomembrane liner shall be composed of an impervious, synthetic material that is resistant to petroleum hydrocarbons, salts and acidics and alkaline solutions. The liner material shall be resistant to ultraviolet light. Liner compatibility shall comply with EPA SW-846 method 9090A. (See attached drawing).
- 11. The general specifications for design and construction are attached.



Received by OCD: 5/20/2022 9:38:01 AM

XTO Energy Inc. San Juan Basin (Northwest New Mexico) General Maintenance and Operating Plan For Below-Grade Tanks

In accordance with Rule 19.15.17.12 NMAC the following information describes the operation and maintenance of below-grade tanks on XTO Energy Inc. (XTO) locations. This is XTO's standard procedure for all below-grade tanks. A separate plan will be submitted for any below-grade tank which does not conform to this plan.

General Plan

- 1. XTO will operate and maintain below-grade tanks to contain liquids and solids, maintain the integrity of the liner and secondary containment system, prevent contamination of fresh water and protect public health and the environment. Fluid levels will be monitored weekly and high levels will be removed as necessary. Monthly inspections will be conducted to monitor integrity of below-grade tank systems and below-grade tanks will be equipped with automatic high-level shut-off devices.
- XTO will not allow below-grade tanks to overflow and will use berms and/or diversion ditch to 2. prevent surface run on to enter the below-grade tank. Below-grade tanks will be equipped with automatic high-level shut-off control devices as well as manually operated shut-off valves. See attached drawing for vault design and placement of diversion berms and shut-off devices.
- 3. XTO will continuously remove any visible or measurable layer of oil from the fluid surface of below-grade tanks in order to prevent significant accumulation of oil.
 - 4. XTO will inspect the below-grade tank monthly and maintain written records for five years. Monthly inspections will consist of documenting the following: (see attached template),

Well Name API# Sec., Twn., Rng. XTO Inspector's name Inspection date and time Visible tears in liner Visible signs of tank overflow Collection of surface run on Visible layer of oil Visible signs of tank leak Estimated freeboard

- 5. XTO will maintain adequate freeboard to prevent over topping of the below-grade tank. High level shut-off devices control the freeboard at an average of 28" beneath the top of the tank.
- XTO will not discharge into or store any hazardous waste in any below-grade tank. 6.
- 7. If a below-grade tank develops a leak, or if any penetration of a below-grade tank occurs below the liquids surface, XTO will remove all liquids above the damage or leak line within 48 hours,

Released to Imaging: 8/12/2022 9:56:06 AM

Received by OCD: 5/20/2022 9:38:01 AM

XTO Energy Inc. San Juan Basin (Northwest New Mexico) General Maintenance and Operating Plan For Below-Grade Tanks Page 2

> notify the appropriate division district office within 48 hours of the discovery and repair the damage or replace the below-grade tank. If an existing below-grade tank does not meet current requirements of Paragraphs 1-4 of Subsection I of 19.15.17.11 NMAC the tank will be modified or retrofitted to comply. If compliance can not be achieved XTO will implement the approved closure plan.

> > Released to Imaging: 8/12/2022 9:56:06 AM

		MONTE	1LY BELO	MONTHLY BELOW GRADE TANK INSPECTION FORM	INSPECTIC	N FORM		
Well Name:			:		API No.:			···-
Legals	Sec:		Township:		Range:			
XTO	Inspection	Inspection	Any visible liner	Any visible signs of	Collection of surface	Visible laver	Anv visible signs	Freehoard
Name	Date	<u> </u>	tears (Y/N)	tank overflows (Y/N)	run on (Y/N)	of oil (Y/N)	of a tank leak (Y/N)	Est. (ft)
					1:			
					1			
					1			
		_						
Notes:	Provide De	Provide Detailed Description:	otion:	;				
			:					
Misc:								

XTO Energy Inc. San Juan Basin (Northwest New Mexico) General Closure Plan For Below-Grade Tanks

In accordance with Rule 19.15.17.13 NMAC the following information describes the closure requirements of below-grade tanks on XTO Energy Inc. (XTO) locations. This is XTO's standard procedure for all below-grade tanks. A separate plan will be submitted for any below-grade tank which does not conform to this plan.

General Plan

- XTO will close below-grade tanks within the time periods provided in 19.15.17.13 NMAC, or by an earlier date that the division requires because of imminent danger to fresh water, public health or the environment.
- 2. XTO will close a below-grade tank that does not meet the requirements of Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC or is not included in Paragraph (5) of Subsection I of 19.15.17.11 NMAC within five years after June 16, 2008, if not retrofitted to comply with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC.
- 3. XTO will close a permitted below-grade tank within 60 days of cessation of the below-grade tank's operation or as required by the transitional provisions of Subsection B of 19.15.17.17 NMAC in accordance with a closure plan that the appropriate division district office approves. The closure report will be filed on form C-144.
- 4. XTO will remove liquids and sludge from below-grade tanks prior to implementing a closure method and will dispose of the liquids and sludge in a division-approved facility. Approved facilities and waste streams include:

Envirotech Permit No. NM01-0011 and IEI Permit No. NM 01-0010B

Soil contaminated by exempt petroleum hydrocarbons

Produced sand, pit sludge and contaminated bottoms from storage of exempt wastes

Basin Disposal Permit No. NM01-005 Produced water

- 5. XTO will remove the below-grade tank and dispose of it in a division approved facility or recycle, reuse, or reclaim it in a manner that the appropriate division district office has approved prior to removal. Any associated liners will be removed, properly cleaned and disposed of per 19.15.9.712 NMAC at San Juan County Landfill. Documentation of the final disposition will be included in the closure report.
- 6. XTO will remove any on-site equipment associated with a below-grade tank unless the equipment is required for some other purpose.
- 7. XTO will test the soils beneath the below-grade tank to determine whether a release has occurred. At a minimum 5 point composite sample will be collected along with individual grab samples from any area that is wet, discolored or showing other evidence of a release. Samples will be

XTO Energy Inc.
San Juan Basin (Northwest New Mexico)
General Closure Plan
For Below-Grade Tanks
Page 2

analyzed for BTEX, TPH and chlorides to demonstrate that the benzene concentration, as determined by EPA SW-846 methods 8021B or 8260B or EPA method that the division approves, does not exceed 0.2 mg/kg; total BTEX concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 50 mg/kg; the TPH concentration, as determined by EPA method 418.1 or other EPA method that the division approves, does not exceed 100mg/kg; and the chloride concentration, as determined by EPA method 300.1 or other EPA method that the division approves, does not exceed 250 mg/kg, or the background concentration, whichever is greater. XTO will notify the division of its results on form C-141.

- 8. If XTO or the division determines that a release has occurred, XTO will comply with 19.15.3.116 NMAC and 19.15.1.19NMAC as appropriate.
- 9. If the sampling program demonstrates that a release has not occurred or that any release does not exceed the concentrations specified in Paragraph (4) of Subsection E of 19.15.17.13 NMAC, XTO will backfill the excavation with compacted, non-waste containing, earthen material; construct a division prescribed soil cover; recontour and re-vegetate the site.
- 10. Notice of Closure operations will be given to the Aztec Division District III office between 72 hours and one week prior to the start of closure activities via email or verbally. The notification will include the following:
 - i. Operator's name
 - ii. Well Name and API Number
 - iii. Location by Unit Letter, Section, Township, and Range

The surface owner shall also be notified prior to the implementation of any closure operations of below-grade tanks as per the approved closure plan using certified mail, return receipt requested.

- 11. Re-contouring of location will match fit, shape, line, form and texture of the surrounding area.

 Re-shaping will include drainage control, prevent ponding, and prevent erosion. Natural drainages will be unimpeded and water bars and/or silt traps will be placed in areas where needed to prevent erosion on a large scale. Final re-contour shall have a uniform appearance with smooth surface, fitting the natural landscape.
- 12. A minimum of 4 feet of cover shall be achieved and the cover shall include 1 foot of suitable material to establish vegetation at the site, or the background thickness of topsoil, whichever is greater. Soil cover will be constructed to the site's existing grade and ponding of water and erosion of the cover material will be prevented with drainage control, natural drainages and silt traps where needed.
- 13. XTO will seed the disturbed areas the first growing season after the operator closes the pit.

 Seeding will be accomplished via drilling on the contour whenever practical or by other division-approved methods. BLM or Forest Service stipulated seed mixes will be used on federal lands.

 Vegetative cover will equal 70% of the native perennial vegetative cover (un-impacted) consisting of at least three native plant species, including at least one grass, but not including noxious weeds, and maintain that cover through two successive growing seasons. Repeat seeding or planting will be continued until successful vegetative growth occurs.

XTO Energy Inc.
San Juan Basin (Northwest New Mexico)
General Closure Plan
For Below-Grade Tanks
Page 3

- 14. All closure activities will include proper documentation and be available for review upon request and will be submitted in closure report form to OCD within 60 days of closure of the below-grade tank. Closure report will be filed on form C-144 and incorporate the following:
 - i. Proof of closure notice to division and surface owner;
 - ii. Details on capping and covering, where applicable;
 - iii. Inspection reports;
 - iv. Confirmation sampling analytical results;
 - v. Disposal facility name(s) and permit number(s);
 - vi. Soil backfilling and cover installation;
 - vii. Re-vegetation application rates and seeding techniques, (or approved alternative to re-vegetation requirements if applicable);

Released to Imaging: 8/12/2022 9:56:06 AM

viii. Photo documentation of the site reclamation.

<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 109001

QUESTIONS

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	109001
	Action Type:
	[C-144] Legacy Below Grade Tank Plan (C-144LB)

QUESTIONS

Facility and Ground Water	
Please answer as many of these questions as possible in this group. More infor	rmation will help us identify the appropriate associations in the system.
Facility or Site Name	P and R 1
Facility ID (f#), if known	Not answered.
Facility Type	Below Grade Tank - (BGT)
Well Name, include well number	P and R 1
Well API, if associated with a well	30-045-11102
Pit / Tank Type	Not answered.
Pit / Tank Name or Identifier	Not answered.
Pit / Tank Opened Date, if known	Not answered.
Pit / Tank Dimensions, Length (ft)	Not answered.
Pit / Tank Dimensions, Width or Diameter (ft)	Not answered.
Pit / Tank Dimensions, Depth (ft)	Not answered.
Ground Water Depth (ft)	Not answered.
Ground Water Impact	Not answered.
Ground Water Quality (TDS)	Not answered.

Below-Grade Tank	
Subsection I of 19.15.17.11 NMAC	
Volume / Capacity (bbls)	120
Type of Fluid	Produced Water
Pit / Tank Construction Material	Steel
Secondary containment with leak detection	Not answered.
Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off	Not answered.
Visible sidewalls and liner	Not answered.
Visible sidewalls only	True
Tank installed prior to June 18. 2008	True
Other, Visible Notation. Please specify	Not answered.
Liner Thickness (mil)	Not answered.
HDPE (Liner Type)	Not answered.
PVC (Liner Type)	Not answered.
Other, Liner Type. Please specify (Variance Required)	Not answered.

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

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, Page 2

Action 109001

T NOTE: (000) 410 0410 1 dx.(000) 410 0402	7010 (- 1) - 1
	IONS (continued)
Operator:	OGRID:
HILCORP ENERGY COMPANY 1111 Travis Street	372171
Houston, TX 77002	Action Number: 109001
110401011, 17(11002	Action Type:
	[C-144] Legacy Below Grade Tank Plan (C-144LB)
QUESTIONS	•
Fencing	
Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tank	ks)
Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, institution or church)	Not answered.
Four foot height, four strands of barbed wire evenly spaced between one and four feet	Not answered.
Alternate, Fencing. Please specify (Variance Required)	4 hogwire
	ı
Netting	
Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)	
Screen	Not answered.
Netting	Not answered.
Other, Netting. Please specify (Variance May Be Needed)	avpanded motel
Other, Netting. I lease speeiny (Variance May Be Needed)	expanded metal
Signs	
Subsection C of 19.15.17.11 NMAC (If there are multiple operators at a site, each operator must have	ve their own sign in compliance with Subsection C of 10 15 17 11 NMAC)
	e dien own sign in compliance with Subsection C of 19.13.11.11 NWAC.)
12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers	Not answered.
Signed in compliance with 19.15.16.8 NMAC	True
Variances and Exceptions	
Justifications and/or demonstrations ofequivalency are required. Please refer to 19.15.17 NMAC for Please check a box if one or more of the following is requested, if not leave blank:	guidance.
Variance(s):	
Requests must be submitted to the appropriate division district for consideration of approval.	Not answered.
Evention(a)	

Not answered.

consideration of approval

Requests must be submitted to the Santa Fe Environmental Bureau office for

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

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, Page 3

Action 109001

QUE	ESTIONS (continued)
Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	109001
	Action Type:
	[0.444]

[C-144] Legacy Below Grade Tank Plan (C-144LB) QUESTIONS Siting Criteria (regarding permitting) 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Siting criteria does not apply to drying pads or above-grade tanks. Siting Criteria, General Siting Ground water is less than 25 feet below the bottom of a low chloride temporary pit No NM Office of the State Engineer - iWATERS database search Not answered. Data obtained from nearby wells Not answered. Siting Criteria, Below Grade Tanks Within 100 feet of a continuously flowing watercourse, significant watercourse, lakebed, sinkhole, wetland or playa lake (measured from the ordinary high-water No Within 200 horizontal feet of a spring or a fresh water well used for public or No livestock consumption **Proposed Closure Method** Below-grade Tank Below Grade Tank - (BGT) Waste Excavation and Removal True

Alternate Closure Method. Please specify (Variance Required)	Not answered.
Operator Application Cartification	

Operator Application Certification	
Registered / Signature Date	01/05/2009

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

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**

ACKNOWLEDGMENTS

Action 109001

ACKNOWLEDGMENTS

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	109001
	Action Type:
	[C-144] Legacy Below Grade Tank Plan (C-144LB)

ACKNOWLEDGMENTS

140	I acknowledge that I have received prior approval from the OCD to submit documentation of a legacy below-grade tank on behalf of my operator.
V	I hereby certify that the information submitted with this documentation is true, accurate and complete to the best of my knowledge and belief.

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

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**

CONDITIONS

Action 109001

CONDITIONS

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	109001
	Action Type:
	[C-144] Legacy Below Grade Tank Plan (C-144LB)

CONDITIONS

Created By		Condition Date
jburdine	None	8/12/2022