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Jones, Brad A., EMNRD

From: Sent:	John Fergerson [john@laenvironmental.com] Friday, July 17, 2009 10:22 AM
То:	Jones, Brad A., EMNRD
Cc:	Mark Larson
Subject:	Request for Approval: XTO-EMSU Below Grade Tank Closure Plans

Dear Mr. Jones,

LAI, on behalf of XTO Energy, requests approval of the following Below Grade Tank Closure Plans for the following Eunice Monument South Unit (EMSU) Facilities:

EMSU-Satellite 8/EMSU Well No. 293 (Nearest Well) API No.: 30-025-04539 (EMSU Well No. 293) Unit I, Sec 7, T-21-S, R-36-E Lea County, New Mexico

EMSU-Satellite 9/EMSU Well No. 376 (Nearest Well) API No.: 30-025-04680 (EMSU Well No. 376) Unit I, Sec 18, T-21-S, R-36-E Lea County, New Mexico

EMSU-Central Battery Tank 1/EMSU Well No. 626 (Nearest Well) API No.: 30-025-31465 (EMSU Well No. 626) Unit E, Sec 4, T-21-S, R-36-E Lea County, New Mexico

EMSU-Central Battery Tank 2/EMSU Well No. 626 (Nearest Well) API No.: 30-025-31465 (EMSU Well No. 626) Unit E, Sec 4, T-21-S, R-36-E Lea County, New Mexico

EMSU-Satellite 3/EMSU-Well No. 182 (Nearest Well) API No.: 30-025-29868 (EMSU-Well No. 182) Unit D, Sec 4, T-21-S, R-36-E Lea County, New Mexico

EMSU-Satellite 5/EMSU-Well No. 258 (Nearest Well) API No.: 30-025-21251 (EMSU-Well No. 258) Unit M, Sec 4, T-21-S, R-36-E Lea County, New Mexico

EMSU-Satellite 10/EMSU-Well No. 382 (Nearest Well) API No.: 30-025-04663 (EMSU-Well No. 382) Unit F, Sec 16, T-21-S, R-36-E Lea County, New Mexico

EMSU-Satellite 12/EMSU-Well No. 442 (Nearest Well) API No.: 30-025-29584 (EMSU-Well No. 442) Unit G, Sec 21, T-21-S, R-36-E Lea County, New Mexico

EMSU-Satellite 6/EMSU-Well No. 263 (Nearest Well)

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BELOW GRADE TANK CLOSURE PLAN EMSU-SATELLITE #10 UNIT F, SEC 16, T-21-S, R-36-E LEA COUNTY, NEW MEXICO

PREPARED FOR: XTO ENERGY, INC. PERMIAN DIVISION-SE NEW MEXICO 200 N. LORAINE SUITE 800 MIDLAND, TEXAS 79701

> PREPARED BY: LARSON & ASSOCIATES, INC. 507 N. MARIENFELD STREET, SUITE 200 MIDLAND, TEXAS 79701

SUBMITTED FOR APPROVAL: MR. WAYNE PRICE NEW MEXICO OIL CONSERVATION DIVISION 1220 SOUTH ST FRANCIS DRIVE SANTA FE, NEW MEXICO 87505

DECEMBER 11, 2008



December 11, 2008

Mr. Wayne Price, Chief Environmental Bureau New Mexico Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Re: Below Grade Closure Plan XTO Energy, Inc., EMSU-Satellite #10 Unit F (SE/4, NW/4), Section 16, Township 21 South, Range 36 East Lea County, New Mexico

Dear Mr. Price:

Form C-144 and corresponding closure plan is submitted to the New Mexico Oil Conservation Division (NMOCD) Santa Fe office on behalf of XTO Energy, Inc. (XTO) by Larson & Associates, Inc. (LAI), it's consultant, for closure of a below-grade tank at its Eunice Monument South Unit (EMSU) Satellite #10 (Facility) located in Unit F (SE/4, NW/4), Section 16, Township 21 South and Range 36 East in Lea County, New Mexico. This closure plan has been prepared in conformance with 19.15.17 NMAC and template approved by the OCD on November 5, 2008.

If you have any questions or concerns, please call me at 432.687.0901 to discuss. Sincerely,

LARSON & ASSOCIATES, INC.

John M Fergerson, PG No. 3231 Texas Professional Geologist john@laenvironmental.com

Cc: File

Mr. Guy Haykus, XTO, Midland Mr. Dudley McMinn, XTO, Midland Mr. Rick Wilson, XTO, SE New Mexico District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

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

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.

Pit, Closed-Loop System, Below-Grade Tank, or									
Proposed Alternative Method Permit or Closure Plan Application									
Type of action: 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,									
below-grade tank, 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.									
1. Operator: XTO ENERGY, INC. OGRID #: 5380									
Address: PERMIAN DIVISION-SE NEW MEXICO, P.O. BOX 700, EUNICE, NEW MEXICO 88231									
Facility or well name: EMSU-SATELLITE NO. 10/EMSU-WELL NO. 382 (Nearest Well)									
API Number: 30-025-04663 (EMSU Well No. 382) OCD Permit Number:									
U/L or Qtr/Qtr <u>Unit F</u> Section <u>16</u> Township <u>21S</u> Range <u>36E</u> County <u>LEA</u>									
Center of Proposed Design: Latitude 32° 28' 52.32" N Longitude 103° 16' 26.16" W NAD: 1927 🗵 1983									
Surface Owner: 🔲 Federal 🖾 State 🗌 Private 🗌 Tribal Trust or Indian Allotment									
Pit: Subsection F or G of 19.15.17.11 NMAC									
Temporary: Drilling Workover Permanent Emergency Cavitation P&A									
Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other									
String-Reinforced									
Liner Seams: Welded Factory Other Volume: bbl Dimensions: L x W x D									
3									
Closed-loop System: Subsection H of 19.15.17.11 NMAC									
Type of Operation: P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent)									
Drying Pad 🔲 Above Ground Steel Tanks 🗌 Haul-off Bins 🗌 Other									
Lined Unlined Liner type: Thicknessmil LLDPE HDPE PVC Other									
Liner Seams: Welded Factory Other									
4.									
Below-grade tank: Subsection I of 19.15.17.11 NMAC									
Volume:bbl Type of fluid:OIL & PRODUCED WATER									
Tank Construction material: FIBERGLASS									
Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off									
Visible sidewalls and liner Visible sidewalls only Visible contraction Visible sidewalls only Visible sidewalls and liner Visible sidewalls only Visible contraction Visible sidewalls only									
Liner type: Thicknessmil									
5. Alternative Method:									
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.									
Submittar of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.									

Ch institu	6. Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks) 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) Four foot height, four strands of barbed wire evenly spaced between one and four feet Alternate. Please specify								
Sc	g: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks) reen Netting Other onthly inspections (If netting or screening is not physically feasible)								
□ 12 ¹ □ Sig	Subsection C of 19.15.17.11 NMAC "x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers gned in compliance with 19.15.3.103 NMAC								
Justifi Please	nistrative Approvals and Exceptions: cations and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance. 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 eration of approval. Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	office for							
Instru materi office Applic	Criteria (regarding permitting): 19.15.17.10 NMAC ctions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptial are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the approption may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of a cart must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to dryi- grade tanks associated with a closed-loop system.	priate district pproval.							
Groun	d 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 🗌 No							
	a 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa neasured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site	🗌 Yes 🗌 No							
	300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. es to temporary, emergency, or cavitation pits and below-grade tanks) Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No ☐ NA							
	a 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. es to permanent pits) Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	□ Yes □ No □ NA							
	a 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock ng 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 🗌 No							
	n incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance of pursuant to NMSA 1978, Section 3-27-3, as amended. Written confirmation or verification from the municipality; Written approval obtained from the municipality	🗌 Yes 🗌 No							
Withir	1 500 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	🗌 Yes 🗌 No							
Withir	the area overlying a subsurface mine. Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	🗋 Yes 🗌 No							
Withir	an unstable area. Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	🗌 Yes 🗌 No							
Withir	a 100-year floodplain. FEMA map	🗌 Yes 🗌 No							

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	11. <u>Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist</u> : 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 (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
	 Design Than 2 dused 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 Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
	Previously Approved Design (attach copy of design) API Number: or Permit Number:
	 12. <u>Closed-loop Systems Permit Application Attachment Checklist</u>: Subsection B of 19.15.17.9 NMAC <i>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.</i> Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9 Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
	 Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number:
	Previously Approved Operating and Maintenance Plan API Number:
1	above ground steel tanks or haul-off bins and propose to implement waste removal for closure)
	13. 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 19.15.17.9 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 Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC Lak Detection Design - 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 19.15.17.11 NMAC Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Closure Plan - based upon the appropriate requirements of 19.15.17.13 NMAC
Same S	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: 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)
10 11 N	 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)
	 ^{15.} 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

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	^{16.} Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13.1 Instructions: Please indentify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if n	
	facilities are required.	
£	Disposal Facility Name: Disposal Facility Permit Number: Disposal Facility Name: Disposal Facility Permit Number:	
630		· · · ·
	Will any of the proposed closed-loop system operations and associated activities occur on or in areas that <i>will not</i> be used for future server Yes (If yes, please provide the information below) No	vice and operations?
N. JUR	Required for impacted areas which will not be used for future service and operations: 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 I of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC	С
	17. <u>Siting Criteria (regarding on-site closure methods only)</u> : 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable sour provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate dista considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Justi demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.	rict office or may be
	Ground water is less than 50 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No
1.1.1.4.	Ground water is between 50 and 100 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	□ NA □ Yes ⊠ No □ NA
18 (Barley	Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Xes ☐ No ☐ NA
1. N. 1894	 Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🗵 No
	 Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	🗋 Yes 🗵 No
and a second	 Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering 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; Visual inspection (certification) of the proposed site 	🗌 Yes 🖾 No
教教を	 Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. Written confirmation or verification from the municipality; Written approval obtained from the municipality 	🗌 Yes 🗵 No
1	 Within 500 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🗵 No
5 e 1 f	 Within the area overlying a subsurface mine. Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division 	🗌 Yes 🗵 No
a states a	 Within an unstable area. Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	🗋 Yes 🗵 No
" A State	Within a 100-year floodplain. - FEMA map	📋 Yes 🛛 No
	 18. On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure pl by a check mark in the box, that the documents are attached. ☑ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC 	an. Please indicate,
	 Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.11 NMAC Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19. Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC 	15.17.11 NMAC
	 Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Waste Material Sampling Plan - 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 or in case on-site closure standards cann 	4/14/09
NE STA	 Disposal racing Name and Permit Number (for inquids, drining funds and drin cuttings of in case of-site closure standards cannot solve the solution of the soluti	or of activity

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	19.
48	Operator Application Certification:
M	I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief.
ALC: NO	Name (Print): U. G. HAYteys Title: PROduction Superintendent
1.2.2.	Signature: 12/12/08
٢	e-mail address: William_haykus @ XTO ENERgy. Com Telephone: 432-620-6705
	20. OCD Approval: Permit Application (including closure plan) A Closure Plan (only) OCD Conditions (see attachment)
6 70	OCD Representative Signature: 7/17/09
	Title: <u>Francestal Frighter</u> OCD Permit Number:
	21. Closure Report (required within 60 days of closure completion): Subsection K of 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed.
	22.
	Closure Method: Waste Excavation and Removal On-Site Closure Method Alternative Closure Method Waste Removal (Closed-loop systems only) If different from approved plan, please explain.
P-SM	23. <u>Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only:</u> Instructions: Please indentify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities were utilized.
1. 1.	Disposal Facility Name: Disposal Facility Permit Number:
A Cardense	Disposal Facility Name: Disposal Facility Permit Number:
	Were the closed-loop system operations and associated activities performed on or in areas that <i>will not</i> be used for future service and operations? Yes (If yes, please demonstrate compliance to the items below) No
	Required for impacted areas which will not be used for future service and operations:
	 Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation
	Re-vegetation Application Rates and Seeding Technique
120	24. Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check
13 8	mark 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)
¥Y.	 Confirmation Sampling Analytical Results (if applicable) Waste Material Sampling Analytical Results (required for on-site closure)
×.	Disposal Facility Name and Permit Number
æ	 Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique
interes.	Site Reclamation (Photo Documentation) On-site Closure Location: Latitude Longitude NAD: []1927 [] 1983
17 20	25.
	Operator Closure Certification: I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.
11000	Name (Print): Title:
Ø	Signature: Date:
	e-mail address: Telephone:

12 R. C.

EMSU-SATELLITE #10 BELOW GRADE TANK CLOSURE PLAN DOCUMENT

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INTRODUCTION

Larson & Associates, Inc (LAI), on behalf of XTO Energy, Inc. (XTO), submits this plan to the New Mexico Oil Conservation Division (NMOCD) Santa Fe office for closure of a belowgrade tank (BGT) at its Eunice Monument South Unit (EMSU) Satellite #10 (Facility) located in Unit F (SE/4, NW/4), Section 16, Township 21 South and Range 36 East in Lea County, New Mexico. Figure 1 is a topographic map depicting the Facility's location. This closure plan has been prepared in conformance with 19.15.17 NMAC, and template approved by the New Mexico Oil Conservation Division (OCD) on November 5, 2008 (Appendix A).

Operator

XTO Energy Inc. Permian Division-SE New Mexico P.O. Box 700 Eunice, New Mexico 88231

Contact Person:Rick WilsonPhone Number:(575) 394-2089

XTO Energy Inc. Midland Office 200 N. Loraine Street, Suite 800 Midland, Texas 79701

Contact Person:Guy HaykusPhone Number:(432) 682-8873

Proposed Application

The proposed application is for closure of a BGT which 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) Subsection I of 19.15.17.11 NMAC. The BGT is located outside the Facility's eastern fence line. Figure 2 is a recent aerial image depicting Facility and location of the buried tank. Figure 3 is a scaled site map depicting Facility and location of the buried tank.

Facility Description, Location, and Siting Criteria

The Facility encompasses a tract of land approximately 0.6 acres in size that is covered with crushed caliche rock and is flat to very gently sloping (Figure 2). The GPS coordinates (NAD 1983) near the center of the facility are 32° 28' 52.32" North and 103° 16' 26.16" West. EMSU-Well #382, API #30-025-04663 is an oil well closest to the facility.

The Facility is located in south-central Lea County, New Mexico, an area referred to as the Pecos Valley, a part of the Great Plains physiographic province. The land surface is an irregular erosional surface that generally slopes to the west and south towards the Pecos River. This area includes large areas of stabilized and drifting sand dunes and drainage

areas created by solution deep-seated collapse. Monument Draw, located approximately four and half (4.5) miles northeast, is a prominent stream valley which almost trends due south and parallels the New Mexico and Texas border. Surface water accumulating in Monument Draw generally flows for only a short distance before being lost to seepage or evapotranspiration, and only during rare periods of heavy rainfall does water flow out of Lea County.

The Facility's siting criteria includes the following:

- 1) Groundwater is more than 100 feet below the bottom of below-grade Tank 1. Figure 1 is a topographic map presenting the average depth-to-groundwater data used to determine the vertical distance from bottom of the BGT to nearest groundwater.
- 2) No continuously flowing watercourse is within 300 horizontal feet of the Facility (Figure 1).
- 3) No other significant watercourse, lakebed, sinkhole, or playa lake is within 200 horizontal feet of Facility (Figure 1).
- 4) No permanent residence, school, hospital, institution, or church is within 300 horizontal feet of Facility (Figure 1).
- 5) No private, domestic fresh water well or spring that less than five households use for domestic or stock water purposes are within 500 horizontal feet of Facility (Figure 1).
- 6) No other fresh water wells or springs are within 1000 horizontal feet of Facility (Figure 1).
- 7) The Facility is not located within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance.
- 8) The Facility is not within 500 feet an area designated as wetlands as defined by EPA Regulation listed at 40 CFR 230.3(t) of the Clean Water Act of 1977 (Figure 4).
- 9) The Facility is not within an area overlying a subsurface mine (Figure 5).
- 10) The Facility is not within an unstable area.
- 11) The Facility is not within a 100-year flood plain (Figure 6).

BELOW-GRADE TANK CLOSURE PLAN XTO ENERGY, INC. EMSU-SATELLITE #10 EMSU-Well #382, API No. 30-025-04663 LEA COUNTY, NEW MEXICO December 11, 2008 Page 3

Identification of Soil and Subsoils

The Maljamar fine-loamy series mixed with the Pyote loamy series comprise the majority of soil in the Facility area. The Maljamar series is well drained, moderately permeable, with very slow runoff. Maljamar soils are formed on nearly level to undulating sandy plains and in moderately sandy to sandy mixed sediments that have been somewhat reworked by wind. The Pyote series is well drained, moderately rapidly permeable, with negligible to low surface run-off on very gentle slopes. Pyote soils are formed on nearly level to undulating uplands and in sandy and loamy sediments that have been modified by wind.

The Cenozoic Pecos Alluvium is the uppermost geologic unit and is composed of Tertiary and Quaternary age alluvium. The alluvium is mostly composed of unconsolidated or poorly cemented clay, sand, gravel, and caliche which unconformably overlie older Permian, Triassic, and Cretaceous age rocks. In places, the alluvium is overlain by windblown sand deposited in dunes. The Cenozoic Pecos Alluvium Aquifer is composed of alluvial sediments deposited in two main north-south oriented basins or troughs. During the Cenozoic Era the Pecos Trough and Monument Draw Trough formed due to subsidence that resulted from dissolution of underlying evaporates.

Land Ownership

The Facility is located on New Mexico State Trust Lands (Figure 7). 2008 Deed and tax records from the Lea County Appraisers Office verify the land surface does not have private ownership (Appendix B-Lea County Deed & Tax Records).

Below Grade Tank Description and Burial Construction

The BGT is a 90-barrel (bbl) fiberglass tank that is used for oil and produced water (Appendix C-Facility Photo Log). Leak detection consists of a four (4) inch PVC pipe that is incorporated into the burial construction. Secondary containment, liners, visible sidewalls, and automatic shut-off are not associated with the construction. A steel pipe barricade is installed around the tank location for protection.

Below Grade Tank Closure Protocols and Procedures

- 1. In accordance with Agreed Scheduling Order dated October 15, 2008, a Closure Plan application shall be submitted to NMOCD Santa Fe office environmental staff prior to December 31, 2008. Upon Closure Plan approval, the existing BGT shall be closed as soon as technically feasible, but no later than five (5) years after June 16, 2008. However, an earlier date may be required because of imminent danger to fresh water, public health, or the environment.
- 2. Written notification shall be provided to the NMOCD Sante Fe and District 1-Hobbs office environmental staffs no less than 72 hours and no greater than one (1) week prior to BGT removal, as required by 19.15.17.13 Subsection J Paragraph (2) NMAC. Written notification will include the following:

BELOW-GRADE TANK CLOSURE PLAN XTO ENERGY, INC. EMSU-SATELLITE #10 EMSU-Well #382, API No. 30-025-04663 LEA COUNTY, NEW MEXICO December 11, 2008 Page 4

Operator Name: Facility Name: Legal Description: Nearest Well & API Number: County Name: Date & Time:

- 3. The surface owner shall be notified, via Return Receipt Requested Certified Mail, of closure plan submission to the NMOCD Santa Fe office and no later than 24 hours prior to BGT removal. Copies of the notification letters and evidence of the notification mailings shall be submitted as closure report attachments.
- 4. Liquids and sludge shall be removed from BGT prior to implementing closure. Liquids shall be disposed at Coopers SWD Facility, API number 30-025-29962, a NMOCD approved Class II commercial salt-water disposal (SWD) well. Sludge and contaminated soil shall be disposed at Sundance Services, Inc. an NMOCD permitted (NM-01-0003) facility, as required in 19.15.17.13 Subsection E Paragraph (1) NMAC.
- 5. Upon removal the BGT shall be integrity tested for re-use as an above-grade storage tank (AST). Approval by the NMOCD Santa Fe office environmental staff shall be requested prior to re-use as an AST. A new AST shall be installed should the BGT fail the integrity test.
- 6. Leak detection piping and associated sub-surface material shall be removed, recycle or disposed at Sundance Services, Inc.
- 7. Soils beneath the below-grade tank will be tested to determine whether a release has occurred upon removal of the BGT. Five (5) point composite samples will be collected directly below the BGT or below the leak detection system if present. Discrete samples will be collected from any wet or discolored areas or areas beneath the BGT showing other evidence of a release. All samples will be analyzed for benzene, toluene, ethylbenzene, xylene (BTEX) using EPA Method 8021B, total petroleum hydrocarbons (TPH) using EPA Method 418.1, and chloride using EPA Method 300.1, as required by 19.15.17.13 Subsection E Paragraph (4) NMAC.
- 8. A form C-141 and an attached copy of laboratory results for collected samples shall be submitted to the NMOCD Santa Fe office environmental staff for review. Additional delineation shall be conducted if requested by the NMOCD. Compliance with 19.15.3.116 NMAC and 19.15.1.19 NMAC, as appropriate, if determined that a release has occurred.
- 9. Backfill excavation with non-waste containing, earthen material, in accordance with 19.15.17.13 Subsection E Paragraph (6) NMAC, should laboratory results verify that constituents do not exceed the concentrations specified in Paragraph 4 of Subsection E of 19.15.17.13 NMAC.

10. Site re-vegetation is not proposed. River gravel is proposed as an alternative and will cover the excavation and provide an elevated pad for either re-positioning the removed BGT above ground or installation of a new AST. A written document stating the proposed alternative shall be submitted to surface owner requesting signature approval. A copy of the signed document shall be submitted to the NMOCD Santa Fe office environmental staff as a closure report attachment.

Reporting

LAI, on behalf of XTO, shall prepare and submit a final closure report to the NMOCD Santa Fe office environmental staff within 60 days following the BGT closure, which will include the following: Form C-144 with all supporting data; form C-141; proof of surface owner and division closure notices; confirmation sampling analytical data; disposal facility names(s) and permit number(s); soil backfilling and cover installation; proposed alternative revegetation installation & surface owner signed written agreement; photo documentation of the site reclamation; and other pertinent information related to onsite activities.



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John Fergerson

From: Sent: To: Subject: Jones, Brad A., EMNRD [brad.a.jones@state.nm.us] Wednesday, November 05, 2008 5:00 PM John Fergerson RE: BGT Closure Plan Template (Revised 11-5-08)

John,

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S. Carlo

Thanks for making the revision to the below-grade tank closure plan template. The information provided in the template complies with the requirements of 19.15.17 NMAC. Please submit the below-grade tank closure plan packets to Wayne Price at the OCD Santa Fe office. If you have any questions, please contact me.

Brad

Brad A. Jones

Environmental Engineer Environmental Bureau NM Oil Conservation Division 1220 S. St. Francis Drive Santa Fe, New Mexico 87505 E-mail: <u>brad.a.jones@state.nm.us</u> Office: (505) 476-3487 Fax: (505) 476-3462

From: John Fergerson [mailto:john@laenvironmental.com] Sent: Wednesday, November 05, 2008 3:24 PM To: Jones, Brad A., EMNRD Subject: BGT Closure Plan Template (Revised 11-5-08)

Brad,

I have made the requested revision and submitting for approval.

Thanks,

John M. Fergerson, PG Larson & Associates, Inc 507 North Marienfield Street Suite 202 Midland, TX 79701

432-687-0901 (Main) 432-557-9703 (Cell) John@laenvironmental.com

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11:34:31 0050076 Dist 080 DECK, MILLARD EST #4193 HARDING & CARBONE INC %

3903 BELLAIRE BLVD HOUSTON TX 77025

Property Description 4 000 500 760 004 FILE 436 PG 425 000009808 06/25/87 SECTION-04 TOWNSHIP-21S RANGE-36E 714.88 AC LOC E2SW4, SE4 1-2-3-14-15-16 & 6-11 INC LESS 4.54 AC TO STATE HWY DEPT

Year 2008 0 Centrl 7608 Full 6447 Land 2536 Txbl 1161 Impr 0 Exmpt 0 P.P. 0 M.H. 2536 Net 0 Livstk Print=Y _

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11:34:57 0050076 Dist 080 DECK, MILLARD EST #4193 HARDING & CARBONE INC %	FinCo		6447 1161	Year Centrl Land Impr	2008	7608 2536 0	
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4 000 500 760 003 FILE 436 PG 425 000009808 06/25/87 SECTION-03 TOWNSHIP-21S RANGE-36E 320.00 AC LOC S2 LESS 22.69 AT TO STATE HWY DEPT 1/25/08-LIVESTOCK ON #79657 LEASED TO LARRY STRAIN	120 240	GRAZING FENCE	204	¥6.75			2149 387

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11:35:01 Year 2008 0000595 Dist 080 0 Centrl 14970 Full BLOUNT, E KEITH FinCo 1146 Land 4990 Txbl 13824 Impr 0 Exmpt 0 P.P. 1682 CR 390 100 4990 Net 0 M.H. DENVER CITY TX 79323 0 Livstk Print=Y _ Property Description 4 000 005 950 001 170 MISC R 3.60 382 FILE 508 PG 738 000068652 02/09/95 210 SINGLE FA 4608 SECTION-03 TOWNSHIP-21S RANGE-36E 3.60 AC LOC SW COR LOT 13 TR BEG NOD02'W 2645.65' & N89D58'E 93.70' FROM SW4 SEC 3; TH N03D35'39"W 256.07' TO BEG CURVE TO RIGHT RA 1845.82' & CA 09D40'35" NE 311.73', \$83D21'03"E 80.08', \$86D56'53"E 194.87', \$02D26'28"W 550.47', N89D07'58"W 263' TO BEG *1994-STATE LAND PURCHASED FROM the second More...

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	BOOK 055 PG 746				170	MISC	R		1.00		106
1	SECTION-11 TOWNSHIP-	-218	S RANG	GE-36 E	210	SINGLE	FA				3875
Ľ	320.00 AC BEING E2				240	FENCE					523
	1987-MCCASLAND, INC,	W	LL								
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11:35:54 0050144 Dist 080 HOOPER, A C EST SARTIN, BILLIE LOIS %	FinCo		975	Year Centrl Land Impr	2008		Full Txbl Exmpt
223 N MOORE ST SULPHUR SPRINGS, TX 75482			0	P.P. M.H. Livstk		392	
Property Description 4 000 501 440 001 SECTION-07 TOWNSHIP-21S RANGE-36E 310.01 AC LOC LOTS 3-4,E2SW4,SE4	120 240	GRAZING FENCE	33	10.01		Prir	325 67

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11:35:58 0050147 Dist 080 SARTIN, BILLIE LOIS ET AL	FinCo		1986	Year Centrl Land Impr			Full Txbl Exmpt
223 N MOORE ST SULPHUR SPRINGS, TX 75482			0 0	P.P. M.H. Livstk		705	Net nt=Y
Property Description 4 000 501 470 001 FILE 427 PG 488 000071517 05/26/86 SECTION-07 TOWNSHIP-21S RANGE-36E 310.27 AC LOC LOTS 1-2,E2NW4,NE4 *1985-HOUSTON, H L*	120 240	GRAZING FENCE	63	30.27	1.05		662 43

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EMSU-Sat #10: View Facing NNW of Buried Tank w/Barricade