District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 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

Form C-144 Revised June 6, 2013

For temporary pits, below-grade tanks, and multi-well fluid management pits, submit to the appropriate NMOCD District Office. For permanent pits submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

Pit, Below-Grade Tank, or
Proposed Alternative Method Permit or Closure Plan Application
Type of action: US-32915 Below grade tank registration Permit of a pit or proposed alternative method Closure of a pit, below-grade tank, or proposed alternative method Modification to an existing permit/or registration OIL CONS. DIV DIST. 3
Closure plan only submitted for an existing permitted or non-permitted pit, below-grade tank, or proposed alternative method
• •
Instructions: Please submit one application (Form C-144) per individual pit, 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: 382 Road 3100, Aztec, New Mexico 87410
Facility or well name: _Gartner # 2S
API Number: <u>30-045-32915</u> OCD Permit Number:
U/L or Qtr/Qtr A Section 27 Township 26N Range 11W County: San Juan
Center of Proposed Design: Latitude36.4636111 Longitude107.9855556 NAD: ☐ 1927 ☒ 1983
Surface Owner: Federal State Private Tribal Trust or Indian Allotment
2.
Pit: Subsection F, G or J of 19.15.17.11 NMAC
Temporary: Drilling Workover
Permanent Emergency Cavitation P&A Multi-Well Fluid Management Low Chloride Drilling Fluid yes no
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
The search and a received and a rece
3.
Below-grade tank: Subsection I of 19.15.17.11 NMAC
Volume: 120bbl Type of fluid: Produced Water
Tank Construction material: Steel
Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☒ Other <u>Visable sidewalls, vaulted, automatic high-level shut off</u>
Liner type: Thicknessmil
4.
Alternative Method:
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.
5.
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)

Alternate. Please specify:

Four foot height, four strands of barbed wire evenly spaced between one and four feet

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)	
7	
Signs: 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 19.15.16.8 NMAC	
Variances and Exceptions:	
Justifications 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: Variance(s): Requests must be submitted to the appropriate division district for consideration of approval.	
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	
9. 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 accept	otable source
material are provided below. Siting criteria does not apply to drying pads or above-grade tanks.	
General siting	
General string	
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank.	☐ Yes ☐ No
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	□ NA
Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	☐ Yes ☐ No
adopted pursuant to NMSA 1978, Section 3-27-3, as amended. (Does not apply to below grade tanks) - Written confirmation or verification from the municipality; Written approval obtained from the municipality	
Within the area overlying a subsurface mine. (Does not apply to below grade tanks) - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	Yes No
Within an unstable area. (Does not apply to below grade tanks) - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological	☐ Yes ☐ No
Society; Topographic map	
Within a 100-year floodplain. (Does not apply to below grade tanks)	☐ Yes ☐ No
- FEMA map	
Below Grade Tanks	
Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured	☐ Yes ☐ No
from the ordinary high-water mark).	L les L No
- Topographic map; Visual inspection (certification) of the proposed site	
Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter)	
Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.) - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial application.	Yes No
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	
Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock	
watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No

Within 100 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No								
Temporary Pit Non-low chloride drilling fluid									
Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site									
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									
Within 500 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application; - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	Yes No								
Within 300 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No								
Permanent Pit or Multi-Well Fluid Management Pit									
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 1000 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								
Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of nitial application. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site									
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site									
Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 N Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the doc 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 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 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. and 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number:	NMAC 15.17.9 NMAC								
Multi-Well Fluid Management Pit 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 doc attached. 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 A List of wells with approved application for permit to drill associated with the pit. Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19 and 19.15.17.13 NMAC Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number: or Permit Number:	.15,17.9 NMAC								

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
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 Dike Protection and Structural Integrity Design - 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 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 Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Nuisance or Hazardous Odors, including H₂S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control 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 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 Multi-well Find 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	luid Management Pit
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be a 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 C 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 H of 19.15.17.13 NMAC	attached to the
Siting Criteria (regarding on-site closure methods only): 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 require justifications and/or demonstrations of equivalency. F 19.15.17.10 NMAC for guidance.	
Ground water is less than 25 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 ☐ NA
Ground water is between 25-50 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 ☐ NA
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	☐ Yes ☐ No ☐ NA
Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, 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
Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, 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
Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No
Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	Yes No
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
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	Yes No
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological	
Society; Topographic map Within a 100-year floodplain.	☐ Yes ☐ No
- FEMA map	Yes No
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan 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 Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection E of 19.15.17.13 NMAC Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17. 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 Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC Waste Material Sampling Plan - based upon the appropriate requirements 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 cannows Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	11 NMAC 15.17.11 NMAC
17. Operator Application Certification:	
I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and beli	ef.
Name (Print): Title:	
Signature: Date:	
e-mail address:Telephone:	
OCD Approval: Permit Application (including closure plan) Closure Plan (enty) OCD Conditions (see attachment) OCD Representative Signature: Approval Date: /2/	1/14
Title: <u>Evisionental Spec.</u> OCD Permit Number:	
19. Closure Report (required within 60 days of closure completion): 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 is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not section of the form until an approved closure plan has been obtained and the closure activities have been completed. Closure Completion Date: 9-17-2008	
20. Closure Method: ☐ Waste Excavation and Removal ☐ On-Site Closure Method ☐ Alternative Closure Method ☐ Waste Removal (Closed-lo ☐ If different from approved plan, please explain.	op systems only)
Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please in 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 for private land only) Plot Plan (for on-site closures and temporary pits)	dicate, by a check

22. Operator Closure Certification:	
	ith this closure report is true, accurate and complete to the best of my knowledge and closure requirements and conditions specified in the approved closure plan.
Name (Print): Kurt Hoekstra	Title: EHS Coordinator
Signature: _ Kut Warkelin	Date: 11-4-2014
e-mail address: Kurt_Hoekstra@xtoenergy.com	Telephone: 505-333-3100

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV

State of New Mexico Energy Minerals and Natural Resources

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Attached

Form C-141

Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr.

1220 S. St. Fran	cis Dr., Santa	a Fe, NM 87505		Sa	ınta Fe	, NM 875	05				
	<u> </u>		Rel	ease Notific	eation	and Co	rrective A	ction			
						OPERAT	OR		l Report		Final Report
Name of Co	mpany: X	TO Energy,	Inc.			Contact: Ku	rt Hoekstra				
		00, Aztec, N		ico 87410	-	Telephone N	No.: (505) 333-3	100		 -	
Facility Nar								sin Fruitland Co	al)		
Surface Ow	ner: Feder	<u></u>		Mineral C	lwner			A PI No	.: 30-045-3	2015	
Surface Ow	ner. reder	<u>ai</u>	,	, I.,				ATTNO	50-045-1	12913	
** ** *	<u> </u>	T. 1:	-		·	OF REI					
Unit Letter	Section	Township	Range	Feet from the	North/	South Line	Feet from the	East/West Line	County		
A	27	26N	11W	2420	F	SL	1995	FEL	San Juan		
			I	Latitude 3 <u>6.4</u> 63	6111	Longit	ude -107.98555	56			
			-			OF RELI		<u> </u>			
Type of Rele	ase: Produc	ed Water				Volume of	Release: Unknow	vn Volume F	lecovered: 1	Vone	
Source of Re	lease: Belo	w Grade Tank					lour of Occurrence	e: Date and	Hour of Dis	covery	: 7-18-2008
Was Immedi	ate Notice (Given?				Unknown If YES, To	Whom?				
			Yes [] No 🛛 Not R	equired						
By Whom?						Date and I-	lour				
Was a Water	course Read			7		If YES, Vo	olume Impacting t	he Watercourse.			
			Yes 🛭	☑ No		li .					
If a Watercou	urse was Im	pacted, Descr	ibe Fully.	*							
								tner # 2S well site			
								od 8021, and for to			
								thod 418.1 but above site was then ranke			
								ted depth to ground			
distance to a	water well	greater than 1						the closure standar			
benzene, and	50 ppm to	al BTEX.									
Describe Are	a Affected	and Cleanup	Action Ta	ken.* Based on C	hloride r	esults of 760	o ppm a release h	as been confirmed	at this locati	on.	
								inderstand that purs			
nublic health	or the envi	ronment. The	e acceptan	ce of a C-141 rep	ort by the	NMOCD m	arked as "Final R	ctive actions for rele eport" does not rele	eases willen	may er	f liability
should their	operations l	nave failed to	adequatel	y investigate and	remediate	contaminat	on that pose a thr	eat to ground water	, surface wa	ater, hu	man health
				ptance of a C-141	report de	oes not reliev	e the operator of	responsibility for c	ompliance v	vith any	y other
federal, state	, or local la	ws and/or reg	ulations.				OH CON	CEDA/A TION	DIMIGIO) N I	
							OIL CON	<u>SERVATION</u>	DIVISIO	<u>JN</u>	
	1///11	111									
Signature:	Kuit Ho	ekeller				Approved by	Environmental S	pecialist:			
Printed Nam	e: Kurt Hoe	eketra			ľ						
i imou ivani	c. Ixuit 1100	Angulu					·····				
Title: EHS C	Coordinator					Approval Da	te:	Expiration	Date:		
E-mail Addr	E-mail Address: Kurt_Hoekstra@xtoenergy.com Conditions of Approval:										

Phone: 505-333-3100

Date: 11-4-14

^{*} Attach Additional Sheets If Necessary



COVER LETTER

Friday, July 18, 2008

Martin Nee XTO Energy 382 County Road 3100 Aztec, NM 87410

TEL: (505) 333-3100 FAX (505) 333-3280

RE: P/T Cellar Samples

Dear Martin Nee:

Order No.: 0807141

Hall Environmental Analysis Laboratory, Inc. received 2 sample(s) on 7/11/2008 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent.

Reporting limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Business Manager Nancy McDuffie, Laboratory Manager

NM Lab # NM9425 AZ license # AZ0682 ORELAP Lab # NM100001



Hall Environmental Analysis Laboratory, Inc.

Date: 18-Jul-08

CLIENT:

XTO Energy

Client Sample 1D: Gartner #2S P/T Cellar

Lab Order:

0807141

Collection Date: 7/9/2008 3:05:00 PM

Project:

P/T Cellar Samples

Date Received: 7/11/2008

Lab 1D:

0807141-01

Matrix: SOIL

Analyses	Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES	······································				Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	0.10	mg/Kg	1	7/16/2008 7:38:51 PM
Benzene	ND	0.050	mg/Kg	1	7/16/2008 7:38:51 PM
Toluene	ND	0.050	mg/Kg	1	7/16/2008 7:38:51 PM
Ethylbenzene	ND	0.050	mg/Kg	1	7/16/2008 7:38:51 PM
Xylenes, Total	ND	0.10	mg/Kg	1	7/16/2008 7:38:51 PM
Surr: 4-Bromofluorobenzene	96.8	81.4-117	%REC	1	7/16/2008 7:38:51 PM
EPA METHOD 300.0: ANIONS					Analyst: SLB
Chloride	7600	30	mg/Kg	100	7/15/2008 7:01:24 PM
EPA METHOD 418.1: TPH					Analyst: JAT
Petroleum Hydrocarbons, TR	ND	20	mg/Kg	1	7/15/2008

- Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- Spike recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank В
- Н Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
 - RL Reporting Limit

Page 1 of 2

Date: 18-Jul-08

QA/QC SUMMARY RÉPORT

Client:

XTO Energy

Project:

P/T Cellar Samples

Work Order:

0807141

110jun 111 conta c							Y	YUIK	Oruer:	080/141
Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPC	OLImit	Qual
Method: EPA Method 300.0: A	nions									
Sample ID: MB-16464		MBLK		•	Batch	ID: 16464	Analysis D	ate:	7/14/2	008 2:37:54 PN
Chloride	ND	mg/Kg	0.30							
Sample ID: LCS-16464		LCS			Batch	ID: 16464	Analysis D	ate:	7/14/2	008 2:55:18 PN
Chloride	15.75	mg/Kg	0.30	105	90	110				
Method: EPA Method 418.1: TF	РН		•							
Sample ID: MB-16479		MBLK			Batch	ID: 16479	Analysis D	ate:		7/15/2008
Petroleum Hydrocarbons, TR	ND	mg/Kg	20							
Sample ID: LCS-16479		LCS			Batch	ID: 16479	Analysis D	ate:		7/15/2008
Petroleum Hydrocarbons, TR	88.56	mg/Kg	20	88.6	82	114				
Sample ID: LCSD-16479		LCSD			Batch i	ID: 16479	Analysis D	ate:		7/15/2008
Petroleum Hydrocarbons, TR	93.94	mg/Kg	20	93.9	82	114	5.90	20)	;
Method: EPA Method 8021B: V	olatiles						. 49			
Sample ID: 0807141-02A MSD		MSD			Batch	ID: 16465	Analysis D	ate:	7/16/2	008 6:08:35 PN
Methyl tert-butyl ether (MTBE)	0.3688	mg/Kg	0.10	90.0	67.9	135	3.62	28	3	
Benzene	0.2362	mg/Kg	0.050	84.4	78.8	132	6.39	27	7	
Toluene	1.672	mg/Kg	0.050	79.9	78.9	112	4.30	19	•	
Ethylbenzene	0.3332	mg/Kg	0.050	83.3	69.3	126	6.67	10		
Xylenes, Total	1.958	mg/Kg	0.10	82.4	73	128	7.18	13	3	
Sample ID: MB-16465		MBLK			Batch I	D: 16465	Analysis D	ate:	7/16/200	08 10:09:00 PN
Methyl tert-butyl ether (MTBE)	ND	mg/Kg	0.10							
Benzene	ND	mg/Kg	0.050							
Toluene	ND	mg/Kg	0.050							
Ethylbenzene	ND	mg/Kg	0.050							
Xylenes, Total	ND	mg/Kg	0.10							
Sample ID: LCS-16465		LCS			Batch I	D: 16465	Analysis Da	at o :	7/16/20	008 6:38:37 PM
Methyl tert-butyl ether (MTBE)	0.4362	mg/Kg	0.10	106	67.9	135				
Benzene	0.2987	mg/Kg	0.050	107	78.8	132				
Toluene	2.070	mg/Kg	0.050	103	78.9	112				
Ethylbenzene	0.4114	mg/Kg	0.050	103	69.3	125				
Xylenes, Total	2.424	mg/Kg	0.10	105	73	128		•		
Sample ID: 0807141-02A MS		MS			Batch I	D: 16465	Analysis Da	ate:	7/16/20)08 5:38:27 PM
Vethyl tert-butyl ether (MTBE)	0.3824	mg/Kg	0.10	93.3	67.9	135				
Benzene	0.2518	mg/Kg	0.050	89.9	78.8	132				
l'oluene	1.746	mg/Kg	0.050	83.6	78.9	112				
Ethylbenzene	0.3562	mg/Kg	0.050	89.1	69.3	125				
Kylenes, Total	2.104	mg/Kg	0.10	88.7	73	128				

Qualifiers:

Page 1

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

S Spike recovery outside accepted recovery limits.

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name XTO ENERGY	•	Date Receiv	red:	7/11/2008	
Work Order Number 0807141		Received b	oy: TLS	1	
Checklist completed by: Hong Shong	-The	1/08	labels checked by:	Inillals	
Metrix: Carrier n	ame <u>FedEx</u>				
Shipping container/cooler in good condition?	Yes 🔽	No 🗆	Not Present].	
Custody seals intact on shipping container/cooler?	Yes 🗹	No 🗌	Not Present	Not Shipped	
Custody seals intact on sample bottles?	Yes 🗹	No 🗆	N/A)	
Chain of custody present?	Yes 🗹	No 🗆			
Chain of custody signed when relinquished and received?	Yes 🗹	No 🖂			
Chain of custody agrees with sample labels?	Yes 🗹	No 🗀			
Samples in proper container/bottle?	Yes 🗹	No 🗌			
Sample containers intact?	Yes 🗹	No 🗀			
Sufficient sample volume for indicated test?	Yes 🗹	No 🗆			
All samples received within holding time?	Yes 🗹	No 🗔			
Water - VOA vials have zero headspace? No VOA vials	submitted 🗹	Yes 🗌	No 🗀		
Water - Preservation labels on bottle and cap match?	Yes 🗌	Nó 🗀	N/A 🗹		
Water - pH acceptable upon receipt?	. Yes 🗌	No 🗀	N/A 🗹		
Container/Temp Blank temperature?	5°	<6° C Accepta			
COMMENTS:		If given sufficie	nt time to cool.		
		•			
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Onest control of		_			
Cilent contacted Date contacted	: 	Pe	rson contacted		
Contacted by: Regarding:					
Comments:			•		
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Corrective Action					
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486-9543

Ch	ain-of-	Custody Record	Turn-Around	Time:								,			_		.	.	- 24 1	
Client		secy	√ ⊠ Standard	□ Rush				<u>」</u> コ											'AL OR'	
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Phone #:	505 - 3	333-3207	7								2 A	nalv	sis	Real	uesi		_	٠.		4 . ,
email or l			Project Mana	ger:			(Şi	sel)					(*)							
QA/QC Pa	-	☐ Level 4 (Full Validation)	Ma	Rtin Ne	Q	TMB's (8021)	+ TPH (Gas only)	as/Die					PO4,S	PCB's						
□ Other		: 	Sampler:	KURT		<u> </u>	PH.	B (G	=	\Rightarrow	6	اء	Š	308			300.1			2
□ EDD (Type)		Sampler: On ice Sample Fern	y eyes	i=No. 3.5.5	4	+	015	418	504	826	₽	် ပို့	/ 5		₹	`1			ō
Date	Time	Sample Request ID	}	Preservative		BTEX + MTBE	BTEX + MTBE	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method	EDC (Method	8310 (PNA or	Anions (F,CI,N	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	CHLORIDES			Air Bubbles (Y
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XTO Energy Inc. San Juan Basin Below Grade Tank Closure Report

Lease Name: Gartner # 2S API No.: 30-045-32915

Description: Unit A, Section 27, Township 26N, Range 11W, San Juan County

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

1. 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.

Closure Date is September 17th, 2008

- 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.
 - Closure Date is September 17th, 2008
- 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.
 - Required C-144 Form is attached to this document.
- 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

All liquids and sludge were removed from the tank prior to closure activities.

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 approves.

XTO has removed the below grade tank, and will dispose of it at a division approved facility, or recycle, reclaim or reuse it in a manner that is approved by the division.

6. XTO will remove any on-site equipment associated with a below-grade tank unless the equipment is required for some other purpose.

All Equipment has been removed due to the plugging and abandoning of the Gartner # 2S well.

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 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 50 mg/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.

A five point composite sample was taken of the pit using sampling tools and all samples tested per Subsection B of 19.15.17.1 3(B)(1)(b). (Sample results attached).

Components	Test Method	Limit (mg/Kg)	Results
Benzene	EPA SW-846 8021B or 8260B	0.2	<0.050 mg/kg
BTEX	EPA SW-846 8021B or 8260B	50	< 0.25 mg/kg
TPH	EPA SW-846 418.1	100	< 20 mg/kg
Chlorides	EPA 300.1	250 or background	7600 mg/kg

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.

A release has been confirmed for this location due to a chloride result of 7,600 ppm. A C-141 Release Notification and Corrective Action report will be submitted outlining any remediation activities at this location.

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.

The pit cellar was backfilled using compacted, non-waste containing earthen material, with a division prescribed soil cover.

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

Due to misunderstanding regarding the 'pit rule' in 2008-2009, the proper notifications were not made prior to the beginning of closure activities. These misunderstandings have been corrected, and proper notifications are made currently.

The surface owner shall be notified of XTO's proposal to close the BGT as per the approved closure plan using certified mail, return receipt requested.

Due to misunderstanding regarding the 'pit rule' in 2008-2009, the proper notifications were not made prior to the beginning of closure activities. These misunderstandings have been corrected, and proper notifications are made currently.

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.

The location has been recontoured to match the above specifications.

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.

The site has been backfilled to match these specifications after P&A.

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.

The site has been reclaimed pursuant to the surface use agreement upon P&A.

- 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; Not made
 - ii. Details on capping and covering, where applicable; per OCD Specifications
 - iii. Inspection reports; attached
 - iv. Confirmation sampling analytical results; attached
 - v. Disposal facility name(s) and permit number(s); see above
 - vi. Soil backfilling and cover installation; per OCD Specifications
 - vii. Re-vegetation application rates and seeding techniques, (or approved alternative to re-vegetation requirements if applicable); **per BLM MOU**
 - viii. Photo documentation of the site reclamation, attached
- 15. This closure report is being submitted after the 60 day deadline required by the 'Pit Rule' due to a misunderstanding of the 'Pit Rule' in 2008-2009.

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DATE <u>08-24-02</u> JOB # 9803(1) PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401 COMPLETE DESCRIPTION OF SHIPMENT TRANSPORTING COMPANY LOAD NO. **DRIVER SIGNATURE** POINT OF ORIGIN **DESTINATION MATERIAL GRID YDS BBLS COMPANY** JOE LINS TAKE 691 1350 PM Cout Soil KZU CHRINER ME NOTES: **RESULTS** 1611-LANDFARM CHLORIDE TEST **EMPLOYEE:** PAINT FILTER TEST "I certify the material hauled from the above location has not been added to or mixed with, and is the same material received from the above mentioned Generator, and that no additional materials have been added." that no additional materials have been added."







