

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
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

OIL CONS. DIV DIST. 3

JUN 13 2016

Form C-141
Revised August 8, 2011

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company: XTO Energy, Inc.	Contact: Logan Hixon	
Address: 382 Road 3100, Aztec, New Mexico 87410	Telephone No.: (505) 333-3683	
Facility Name: Fullerton Federal 6E	Facility Type: Gas Well	
Surface Owner: Federal Land	Mineral Owner	API No. 30-045-24639

LOCATION OF RELEASE

Unit Letter B	Section 11	Township 27 N	Range 11W	Feet from the 790	North/South Line FNL	Feet from the 1850	East/West Line FEL	County San Juan
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Latitude: N36*.59485 Longitude: W-107*.96994

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: Unknown	Volume Recovered: Unknown
Source of Release: BGT	Date and Hour of Occurrence: Unknown	Date and Hour of Discovery: May 18, 2016
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom? N/A	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

The below grade tank was taken out of service at the Fullerton Federal 6E well site due to the P&A'ing of this well site. A composite sample was collected beneath the location of the on-site BGT, and submitted for laboratory analysis for TPH via USEPA Method 8015 (C6-C40), Benzene and BTEX via USEPA Method 8021, and for total chlorides. The sample returned results below the 'Pit Rule' spill confirmation standards for Benzene, Total BTEX and the total chlorides, but above the 'pit rule' standards for TPH, confirming that a release has occurred at this location. The site was then ranked according to the NMOCD Guidelines for the Remediation of Leaks, Spills and Releases. The site was ranked a 10 due to an estimated distance to surface water less than 1000 feet. This set the closure standard to 1,000 ppm TPH, 10 ppm benzene, and 50 ppm total BTEX.

Describe Area Affected and Cleanup Action Taken.*

The below grade tank closure sample was analyzed for TPH via USEPA Method 8015 (C6-C40), returning results of 183.4 ppm TPH. This is below the 1,000 ppm TPH closure standard determined for this site. No further action is required regarding this incident.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: <i>Logan Hixon</i>	OIL CONSERVATION DIVISION	
Printed Name: Logan Hixon	Approved by Environmental Specialist: <i>[Signature]</i>	
Title: EHS Coordinator	Approval Date: 9/21/2016	Expiration Date:
E-mail Address: Logan_Hixon@xtoenergy.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 6/8/2016	Phone: 505-333-3683	NUF1626538178

* Attach Additional Sheets If Necessary

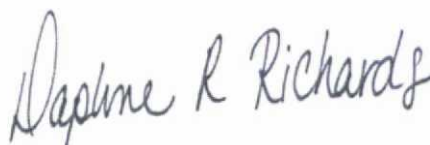
May 18, 2016

XTO Energy - San Juan Division

Sample Delivery Group: L834994
Samples Received: 05/09/2016
Project Number:
Description: Fullerton Federal 6E

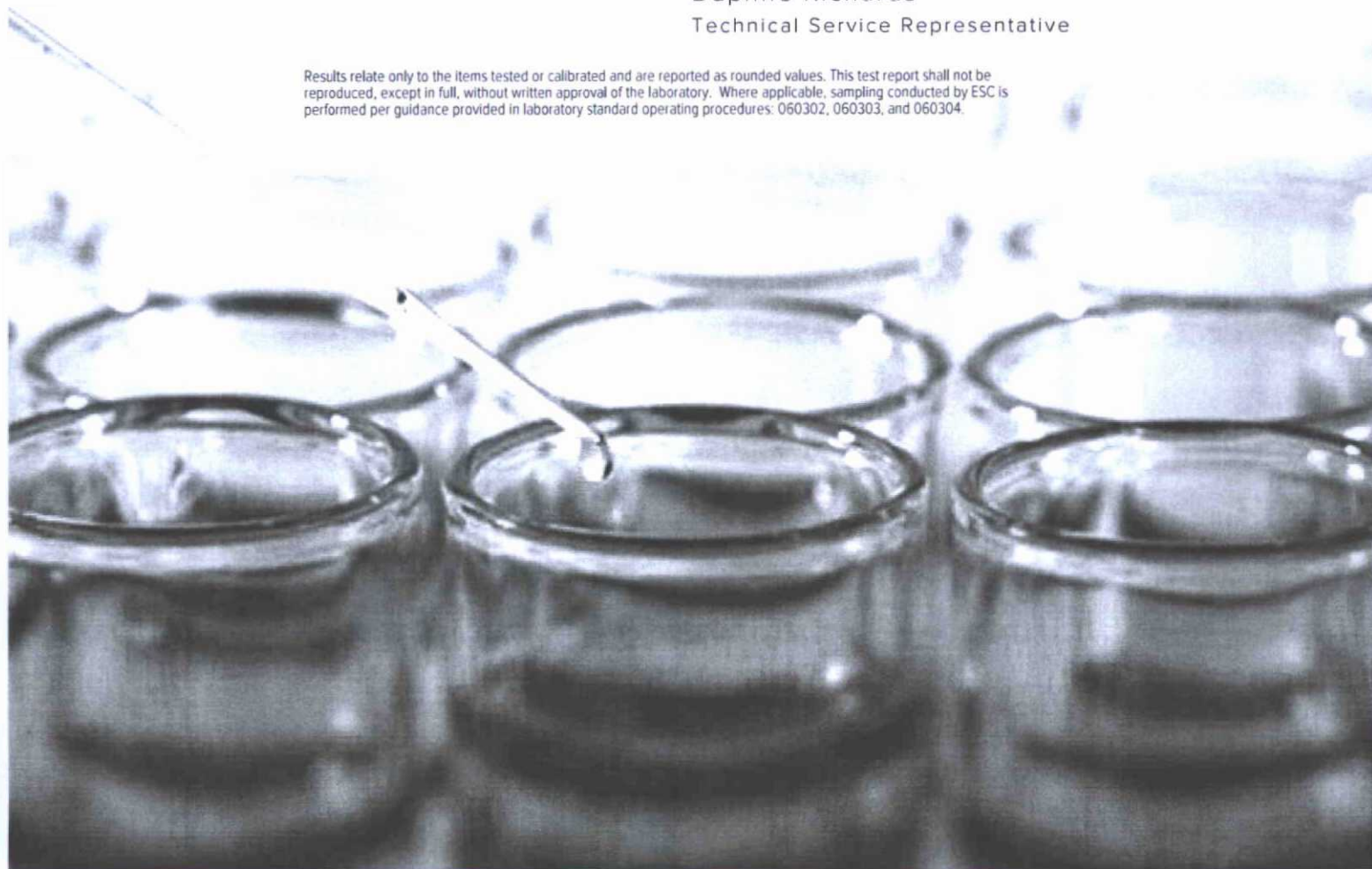
Report To: James McDaniel
382 County Road 3100
Aztec, NM 87410

Entire Report Reviewed By:



Daphne Richards
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.





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¹ Cp
² Tc
³ Ss
⁴ Cn
⁵ Sr
⁶ Qc
⁷ Gl
⁸ Al
⁹ Sc

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.

FARLH-5615-0834 L834994-01 Solid

Collected by
Logan Hixon

Collected date/time
05/06/16 08:34

Received date/time
05/09/16 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi-Volatile Organic Compounds (GC) by Method 8015	WG872373	1	05/13/16 10:58	05/13/16 17:13	KLM
Total Solids by Method 2540 G-2011	WG872142	1	05/12/16 19:45	05/13/16 10:48	MEL
Volatile Organic Compounds (GC) by Method 8015/8021	WG873012	5	05/17/16 09:01	05/17/16 16:10	JHH
Wet Chemistry by Method 9056A	WG872631	1	05/16/16 17:00	05/17/16 03:18	CM

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cr
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Daphne Richards
Technical Service Representative

1 Cp

2 Tc

3 Ss

4 Cr

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	89.4		1	05/13/2016 10:48	WG872142

Wet Chemistry by Method 9056A

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	13.1		11.2	1	05/17/2016 03:18	WG872631

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.00280	5	05/17/2016 16:10	WG873012
Toluene	ND		0.0280	5	05/17/2016 16:10	WG873012
Ethylbenzene	ND		0.00280	5	05/17/2016 16:10	WG873012
Total Xylene	ND		0.00839	5	05/17/2016 16:10	WG873012
TPH (GC/FID) Low Fraction	ND		0.559	5	05/17/2016 16:10	WG873012
(S) <i>o,o,o</i> -Trifluorotoluene(FID)	101		59.0-128		05/17/2016 16:10	WG873012
(S) <i>o,o,o</i> -Trifluorotoluene(PID)	103		54.0-144		05/17/2016 16:10	WG873012

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	91.8		4.47	1	05/13/2016 17:13	WG872373
C28-C40 Oil Range	91.6		4.47	1	05/13/2016 17:13	WG872373
(S) <i>o</i> -Terphenyl	63.2		50.0-150		05/13/2016 17:13	WG872373

WG872142

Total Solids by Method 2540 G-2011

QUALITY CONTROL SUMMARY

L834994-01

ONE LAB. NATIONWIDE



Method Blank (MB)

(MB) R3136448-1 05/13/16 10:46

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000700			

L834660-01 Original Sample (OS) • Duplicate (DUP)

(OS) L834660-01 05/13/16 10:47 • (DUP) R3136448-3 05/13/16 10:47

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits
Total Solids	84.8	84.9	1	0.125		5

Laboratory Control Sample (LCS)

(LCS) R3136448-2 05/13/16 10:47

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

1 G

2 T

3 S

4 C

5 S

6 Q

7 G

8 A

9 S

WG872631

Wet Chemistry by Method 9056A

QUALITY CONTROL SUMMARY

L834994-01

ONE LAB. NATIONWIDE.

Method Blank (MB)

(MB) R3137464-1 05/16/16 20:07

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chloride	U		0.795	10.0

L835458-01 Original Sample (OS) • Duplicate (DUP)

(OS) L835458-01 05/16/16 22:07 • (DUP) R3137464-4 05/16/16 22:30

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	15.8	17.1	1	8		15

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3137464-2 05/16/16 20:31 • (LCSD) R3137464-3 05/16/16 20:55

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chloride	200	192	192	96	96	80-120			0	15

L834994-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L834994-01 05/17/16 03:18 • (MS) R3137464-5 05/17/16 03:42 • (MSD) R3137464-6 05/17/16 04:06

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	559	13.1	595	564	104	99	1	80-120			5	15

WG873012

Volatile Organic Compounds (GC) by Method 8015/8021

QUALITY CONTROL SUMMARY

L834994-01

ONE LAB. NATIONWIDE. 

Method Blank (MB)

(MB) R3137451-5 05/17/16 12:30

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000120	0.000500
Toluene	U		0.000150	0.00500
Ethylbenzene	U		0.000110	0.000500
Total Xylene	U		0.000460	0.00150
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) o,a,a-Trifluorotoluene(FID) 101				59.0-128
(S) o,a,a-Trifluorotoluene(PID) 102				54.0-144

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3137451-1 05/17/16 10:45 • (LCSD) R3137451-2 05/17/16 11:06

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.0500	0.0490	0.0496	98.1	99.3	70.0-130			1.25	20
Toluene	0.0500	0.0526	0.0532	105	106	70.0-130			1.00	20
Ethylbenzene	0.0500	0.0537	0.0542	107	108	70.0-130			0.900	20
Total Xylene	0.150	0.164	0.166	110	110	70.0-130			0.820	20
(S) o,a,a-Trifluorotoluene(FID)				101	101	59.0-128				
(S) o,a,a-Trifluorotoluene(PID)				103	103	54.0-144				

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3137451-3 05/17/16 11:27 • (LCSD) R3137451-4 05/17/16 11:48

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	6.52	6.59	119	120	63.5-137			1.12	20
(S) o,a,a-Trifluorotoluene(FID)				102	101	59.0-128				
(S) o,a,a-Trifluorotoluene(PID)				107	106	54.0-144				

WG872373

Semi-Volatile Organic Compounds (GC) by Method 8015

QUALITY CONTROL SUMMARY

L834994-01

ONE LAB. NATIONWIDE.

Method Blank (MB)

(MB) R3136698-1 05/13/16 16:22

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(S) o-Terphenyl	96.0			50.0-150

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3136698-2 05/13/16 16:35 • (LCSD) R3136698-3 05/13/16 16:48

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	60.0	51.2	43.2	85.4	71.9	50.0-100			17.1	20
(S) o-Terphenyl				95.4	78.1	50.0-150				

L834994-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L834994-01 05/13/16 17:13 • (MS) R3136698-4 05/13/16 17:25 • (MSD) R3136698-5 05/13/16 17:37

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	67.1	91.8	141	148	72.8	83.2	1	50.0-100			4.81	20
(S) o-Terphenyl					59.0	64.4		50.0-150				



Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
ND,U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Rec.	Recovery.
SDL	Sample Detection Limit.
MQL	Method Quantitation Limit.
Unadj. MQL	Unadjusted Method Quantitation Limit.

Qualifier	Description
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The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

Cp

Tc

Ss

Cr

Sr

Qc

Gl

Al

Sc

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ^{na} Accreditation not applicable

ES&C Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ES&C Lab Sciences performs all testing at our central laboratory.**



* Sample ID will be the office and sampler-date-military time FARJM-MMDDYY-1200

NCF ~~AN~~ N

Andy Vann

ESC Lab Sciences
Non-Conformance Form

Login #:L834994	Client:XTORNM	Date:05/09/16	Evaluated by:Andy Vann
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Non-Conformance (check applicable items)

	Sample Integrity	Chain of Custody Clarification	
	Parameter(s) past holding time	Login Clarification Needed	If Broken Container:
x	Improper temperature	Chain of custody is incomplete	Insufficient packing material around container
	Improper container type	Please specify Metals requested.	Insufficient packing material inside cooler
	Improper preservation	Please specify TCLP requested.	Improper handling by carrier (FedEx / UPS / Couri
	Insufficient sample volume.	Received additional samples not listed on coc.	Sample was frozen
	Sample is biphasic.	Sample ids on containers do not match ids on coc	Container lid not intact
	Vials received with headspace.	Trip Blank not received.	If no Chain of Custody:
	Broken container	Client did not "X" analysis.	Received by:
	Broken container:	Chain of Custody is missing	Date/Time:
	Sufficient sample remains		Temp./Cont. Rec./pH:
			Carrier:
			Tracking#

Login Comments:Received at 20.3°C. Fedex Error.

Client informed by:	Call	Email	X	Voice Mail	Date: 5/9	Time: 15:00
TSR Initials: DR	Client Contact: LH					

Login Instructions:

Proceed with analysis