3R-1044

XTO
NV Navajo 35-1
Water Manifold

Final C-141

Date 2/24/17

24

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

Form C-141
Revised August 8, 2011

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

OIL CONS. DIV DIST. 3

APR 0 5 2017

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: NV Navajo 35-1 Wtr Manifold	Facility Type: Gas/Water Manifold

Surface Owner: Navajo Nation	Mineral Owner: Tribal	API No. Non Production Facility

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	35	29 N	14W					San Juan

Latitude: N36.6852 **Longitude:** W-108.2708

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: Approximately 10 bbl.	Volume Recovered: 0 bbl. Recovered
Source of Release: Water Manifold (Gas Eliminator)	Date and Hour of Occurrence: February 1, 2017 at Unknown Time	Date and Hour of Discovery: February 1, 2017 at 1145.
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom? N/A	
By Whom?	Date and Hour:	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* On February 1, 2017, a water leak was discovered in the produced water transport line near the NV Navajo 35-1 well site. An estimated 10 bbl. of produced water leaked from the pipeline. The waterline was evacuated, and the leak occurred at the above grade gas eliminator. The produced water traveled to the north east approximately 500 feet where it stopped. The site was ranked a 20 pursuant to the NMOCD Guidelines for the Remediation of Leaks, Spills, and Releases. The distance to a waterway is estimated to be less than 200 feet from the end of the release. This set the regulatory limits to 100 ppm TPH, 10 ppm benzene, and 50 ppm total BTEX.

Describe Area Affected and Cleanup Action Taken.* On February 1, 2017, a composite sample was collected at the source of the release, a composite sample was collected approximately 200' down the flow path, and another composite sample was collected at the end of the release. The samples were analyzed for DRO/GRO via USEPA Method 8015, BTEX via USEPA Method 8021, and for chlorides. All samples returned results below all regulatory standards determined for this location. The sample results are attached for your reference. On March 22, 2017, the top portion of the release area was scraped up, and then approximately (150) one hundred fifty pounds of gypsum at an approximate rate of (1) one pound per square foot was applied to the spill area as approved on March 15, 2017. No further action is required for this site.

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:	OIL CONSERVATION DIVISION
Printed Name: Logan Hixon	Approved by Environmental Specialist:
Title: EHS Coordinator	Approval Date: 4/28/2017 Expiration Date:
E-mail Address: Logan_Hixon@xtoenergy.com	Conditions of Approval: NVP1708631561 Attached ☐
Date: 4-3-17 Phone: 505-333-3683	

* Attach Additional Sheets If Necessary

ANALYTICAL REPORT

February 09, 2017

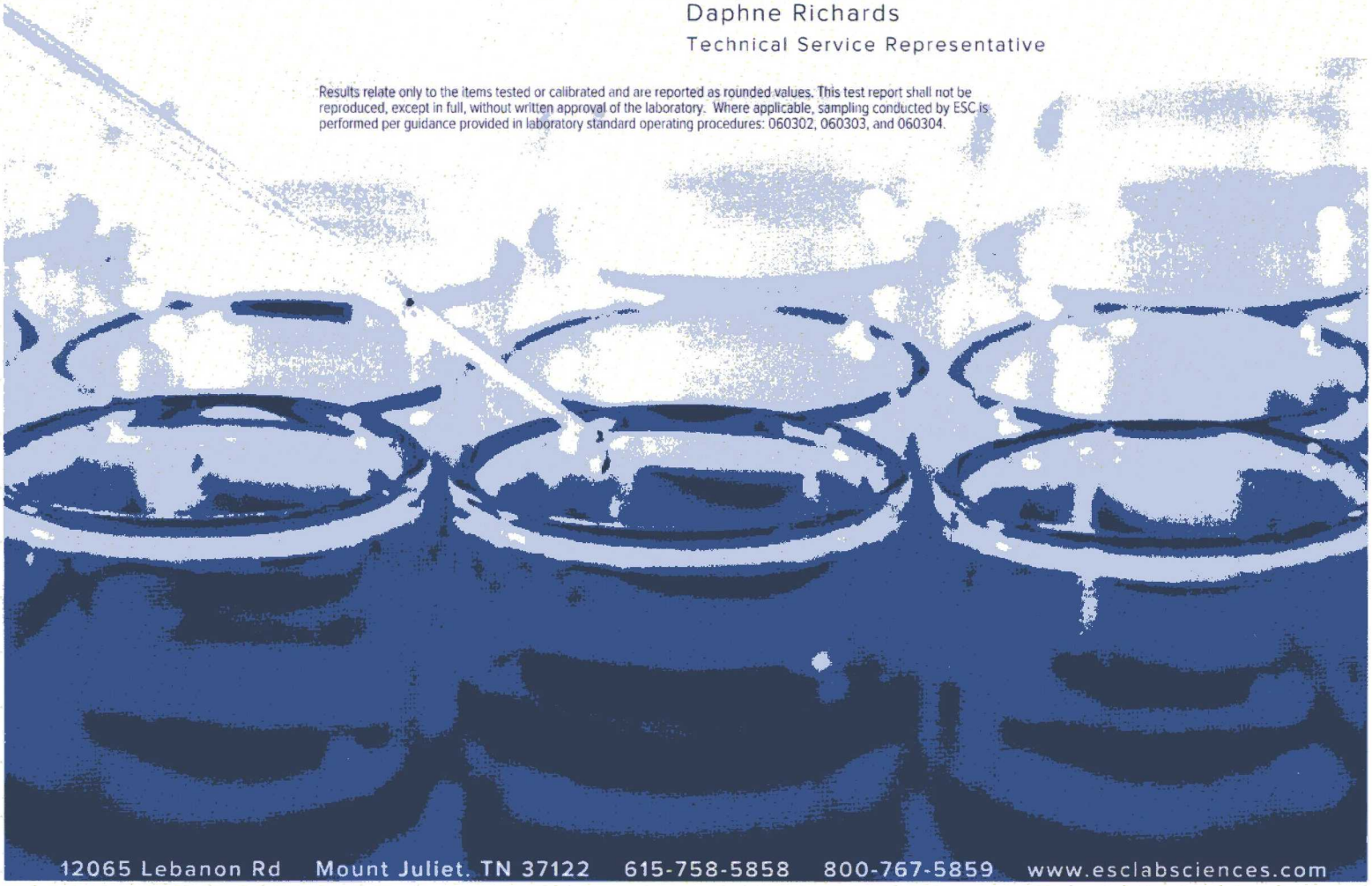
XTO Energy - San Juan Division

Sample Delivery Group:	L887468
Samples Received:	02/02/2017
Project Number:	
Description:	NV Navajo 35-1

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

Entire Report Reviewed By: Daphne R Richards

Daphne Richards
Technical Service Representative



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POINT OF RELEASE L887468-01 Solid

Collected by: Logan Hixon
Collected date/time: 02/01/17 13:25
Received date/time: 02/02/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi-Volatile Organic Compounds (GC) by Method 8015	WG949458	1	02/06/17 23:01	02/07/17 13:14	KLM
Total Solids by Method 2540 G-2011	WG949506	1	02/04/17 13:20	02/04/17 13:32	KDW
Volatile Organic Compounds (GC) by Method 8015/8021	WG949639	1	02/03/17 09:39	02/06/17 18:30	JHH
Wet Chemistry by Method 9056A	WG949592	20	02/06/17 12:30	02/07/17 05:59	KCF

BEFORE SANDSTONE L887468-02 Solid

Collected by: Logan Hixon
Collected date/time: 02/01/17 13:30
Received date/time: 02/02/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi-Volatile Organic Compounds (GC) by Method 8015	WG949458	1	02/06/17 23:01	02/07/17 13:25	KLM
Total Solids by Method 2540 G-2011	WG949506	1	02/04/17 13:20	02/04/17 13:32	KDW
Volatile Organic Compounds (GC) by Method 8015/8021	WG949639	1	02/03/17 09:39	02/06/17 18:54	JHH
Wet Chemistry by Method 9056A	WG949592	10	02/06/17 12:30	02/07/17 06:16	KCF

END OF RELEASE L887468-03 Solid

Collected by: Logan Hixon
Collected date/time: 02/01/17 13:35
Received date/time: 02/02/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi-Volatile Organic Compounds (GC) by Method 8015	WG949458	1	02/06/17 23:01	02/07/17 13:37	KLM
Total Solids by Method 2540 G-2011	WG949506	1	02/04/17 13:20	02/04/17 13:32	KDW
Volatile Organic Compounds (GC) by Method 8015/8021	WG949639	1	02/03/17 09:39	02/08/17 14:06	KMC
Wet Chemistry by Method 9056A	WG949592	5	02/06/17 12:30	02/07/17 06:32	KCF

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 R Richards

Daphne Richards
Technical Service Representative

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.5		1	02/04/2017 13:32	WG949506

Wet Chemistry by Method 9056A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chloride	6910		229	20	02/07/2017 05:59	WG949592

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Benzene	0.000777		0.000571	1	02/06/2017 18:30	WG949639
Toluene	ND		0.00571	1	02/06/2017 18:30	WG949639
Ethylbenzene	ND		0.000571	1	02/06/2017 18:30	WG949639
Total Xylene	0.00173		0.00171	1	02/06/2017 18:30	WG949639
TPH (GC/FID) Low Fraction	0.138		0.114	1	02/06/2017 18:30	WG949639
(S) a,a,a-Trifluorotoluene(FID)	*103*		*77.0-120*		*02/06/2017 18:30*	WG949639
(S) a,a,a-Trifluorotoluene(PID)	*107*		*75.0-128*		*02/06/2017 18:30*	WG949639

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
TPH (GC/FID) High Fraction	31.3		4.57	1	02/07/2017 13:14	WG949458
(S) o-Terphenyl	*20.7*		*18.0-148*		*02/07/2017 13:14*	WG949458

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

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	81.8		1	02/04/2017 13:32	WG949506

Wet Chemistry by Method 9056A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chloride	3580		122	10	02/07/2017 06:16	WG949592

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Benzene	0.00152		0.000612	1	02/06/2017 18:54	WG949639
Toluene	ND		0.00612	1	02/06/2017 18:54	WG949639
Ethylbenzene	ND		0.000612	1	02/06/2017 18:54	WG949639
Total Xylene	ND		0.00183	1	02/06/2017 18:54	WG949639
TPH (GC/FID) Low Fraction	0.303		0.122	1	02/06/2017 18:54	WG949639
(S) a,a,a-Trifluorotoluene(FID)	*104*		*77.0-120*		*02/06/2017 18:54*	WG949639
(S) a,a,a-Trifluorotoluene(PID)	*107*		*75.0-128*		*02/06/2017 18:54*	WG949639

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
TPH (GC/FID) High Fraction	ND		4.89	1	02/07/2017 13:25	WG949458
(S) o-Terphenyl	*70.1*		*18.0-148*		*02/07/2017 13:25*	WG949458

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	83.0		1	02/04/2017 13:32	WG949506

Wet Chemistry by Method 9056A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chloride	994		60.2	5	02/07/2017 06:32	WG949592

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Benzene	0.00117		0.000602	1	02/08/2017 14:06	WG949639
Toluene	ND		0.00602	1	02/08/2017 14:06	WG949639
Ethylbenzene	ND		0.000602	1	02/08/2017 14:06	WG949639
Total Xylene	ND		0.00181	1	02/08/2017 14:06	WG949639
TPH (GC/FID) Low Fraction	ND		0.120	1	02/08/2017 14:06	WG949639
(S) a,a,a-Trifluorotoluene(FID)	*105*		*77.0-120*		*02/08/2017 14:06*	WG949639
(S) a,a,a-Trifluorotoluene(PID)	*108*		*75.0-128*		*02/08/2017 14:06*	WG949639

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
TPH (GC/FID) High Fraction	ND		4.82	1	02/07/2017 13:37	WG949458
(S) o-Terphenyl	*45.2*		*18.0-148*		*02/07/2017 13:37*	WG949458

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

Method Blank (MB)

(MB) R3194915-1 02/04/17 13:32

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.00100			

L887502-04 Original Sample (OS) • Duplicate (DUP)

(OS) L887502-04 02/04/17 13:32 • (DUP) R3194915-3 02/04/17 13:32

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	68.4	68.2	1	0.314		5

Laboratory Control Sample (LCS)

(LCS) R3194915-2 02/04/17 13:32

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

Method Blank (MB)

(MB) R3195179-1 02/06/17 21:56

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	mg/kg
Chloride	2.18	J	0.795	10.0

L887220-17 Original Sample (OS) • Duplicate (DUP)

(OS) L887220-17 02/07/17 00:09 • (DUP) R3195179-4 02/07/17 00:26

Analyte	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/kg	mg/kg		%		%
Chloride	ND	5.21	1	0		15

L887220-19 Original Sample (OS) • Duplicate (DUP)

(OS) L887220-19 02/07/17 01:32 • (DUP) R3195179-5 02/07/17 01:49

Analyte	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/kg	mg/kg		%		%
Chloride	ND	6.68	1	0		15

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

(LCS) R3195179-2 02/06/17 22:12 • (LCSD) R3195179-3 02/06/17 22:29

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	%	%	%			%	%
Chloride	200	191	194	95	97	80-120			2	15

L887220-27 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L887220-27 02/07/17 04:36 • (MS) R3195179-6 02/07/17 04:52 • (MSD) R3195179-7 02/07/17 05:09

Analyte	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Chloride	607	ND	634	637	103	103	1	80-120			1	15

Method Blank (MB)

(MB) R3195344-5 02/06/17 13:19

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	mg/kg
Benzene	U		0.000120	0.000500
Toluene	0.000380	J	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) a,a,a-Trifluorotoluene(FID)	*105*			*77.0-120*
(S) a,a,a-Trifluorotoluene(PID)	*110*			*75.0-128*

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

(LCS) R3195344-1 02/06/17 11:19 • (LCSD) R3195344-2 02/06/17 11:43

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	%	%	%			%	%
Benzene	0.0500	0.0506	0.0515	101	103	71.0-121			1.79	20
Toluene	0.0500	0.0500	0.0503	100	101	72.0-120			0.550	20
Ethylbenzene	0.0500	0.0525	0.0530	105	106	76.0-121			1.07	20
Total Xylene	0.150	0.157	0.160	105	107	75.0-124			1.83	20
(S) a,a,a-Trifluorotoluene(FID)				*105*	*105*	*77.0-120*				
(S) a,a,a-Trifluorotoluene(PID)				*108*	*108*	*75.0-128*				

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

(LCS) R3195344-3 02/06/17 12:07 • (LCSD) R3195344-4 02/06/17 12:31

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	%	%	%			%	%
TPH (GC/FID) Low Fraction	5.50	5.07	5.02	92.1	91.2	70.0-136			0.970	20
(S) a,a,a-Trifluorotoluene(FID)				*106*	*105*	*77.0-120*				
(S) a,a,a-Trifluorotoluene(PID)				*120*	*120*	*75.0-128*				

L887539-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L887539-01 02/06/17 15:42 • (MS) R3195344-6 02/06/17 16:06 • (MSD) R3195344-7 02/06/17 16:30

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Benzene	0.0500	ND	0.428	0.445	90.0	93.7	9.5	10.0-146			3.99	29
Toluene	0.0500	ND	0.419	0.433	87.7	90.8	9.5	10.0-143			3.48	30
Ethylbenzene	0.0500	ND	0.444	0.463	93.5	97.6	9.5	10.0-147			4.27	31
Total Xylene	0.150	ND	1.35	1.41	95.0	99.0	9.5	10.0-149			4.12	30
(S) a,a,a-Trifluorotoluene(FID)					*105*	*105*		*77.0-120*				

L887539-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L887539-01 02/06/17 15:42 • (MS) R3195344-6 02/06/17 16:06 • (MSD) R3195344-7 02/06/17 16:30

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
(S) a,a,a-Trifluorotoluene(PID)					*108*	*109*		*75.0-128*				

L887539-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L887539-01 02/08/17 14:30 • (MS) R3195726-1 02/08/17 15:43 • (MSD) R3195726-2 02/08/17 16:07

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
TPH (GC/FID) Low Fraction	5.50	ND	8.46	8.40	16.2	16.1	9.5	10.0-147			0.710	30
(S) a,a,a-Trifluorotoluene(FID)					*108*	*108*		*77.0-120*				
(S) a,a,a-Trifluorotoluene(PID)					*111*	*111*		*75.0-128*				

Method Blank (MB)

(MB) R3195281-1 02/07/17 08:57

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) High Fraction	U		0.769	4.00
(S) o-Terphenyl	*77.0*			*18.0-148*

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

(LCS) R3195281-2 02/07/17 09:08 • (LCSD) R3195281-3 02/07/17 09:19

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) High Fraction	60.0	45.4	44.6	75.6	74.3	50.0-150			1.68	20
(S) o-Terphenyl				*85.5*	*84.9*	*18.0-148*				

L887539-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L887539-04 02/07/17 14:34 • (MS) R3195281-4 02/07/17 14:46 • (MSD) R3195281-5 02/07/17 14:58

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) High Fraction	60.0	ND	50.5	48.1	84.2	80.1	1	50.0-150			4.96	20
(S) o-Terphenyl					*88.0*	*83.7*		*18.0-148*				

Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
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.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.

ACCREDITATIONS & LOCATIONS

ONE LAB. NATIONWIDE.

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

Cp
Tc
Ss
Cn
Sr
Qc
Gl
Sc

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Conneticut	PH-0197	North Carolina [1]	DW21704
Florida	E87487	North Carolina [2]	41
Georgia	NELAP	North Dakota	R-140
Georgia [3]	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky [1]	90010	South Dakota	n/a
Kentucky [2]	16	Tennessee [1,4]	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

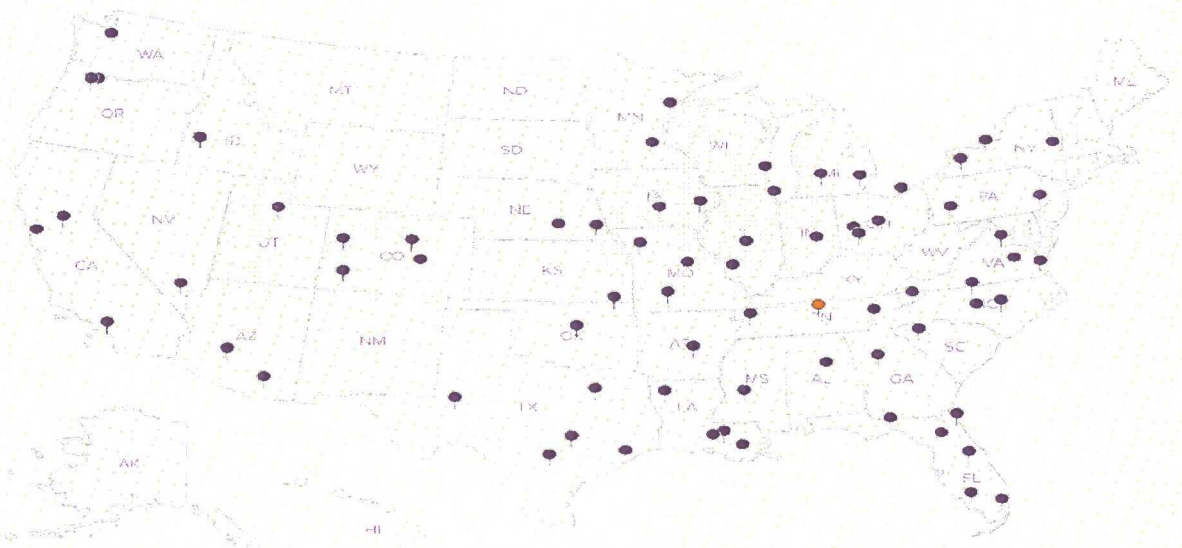
Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold — Accreditation not applicable

Our Locations

ESC 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. **ESC Lab Sciences performs all testing at our central laboratory.**



XTO ENERGY
Western Division

Quote Number	Page 1 of 1	
XTO Contact: Logan	XTO Contact Phone #: 333 3683	
Email Results to: Logan, James, Kurt		
Well Site/Location: 3594, NV Navajo SS-1 mainline	API Number	Saturday Delivery (Y / N)
Collected By: Logan Hixon	Samples on Ice (Y / N)	Turnaround: X Standard; ___ Next Day; ___ Two Day; ___ Three Day; ___ Same Day; Date Needed ___
Company: XTO	Test Reason: Release	
Signature	Gray Areas for Lab Use Only!	

Lab Information: 1887468

Office Abbreviations
Farmington = FAR
Durango = DUR
Bakken = BAK
Raton = RAT
Piceance = PC
Roosevelt = RSV
La Barge = LB
Orangeville = OV

1161

Sample ID	Sample Name	Media	Date	Time	Preservative	No. of Conts.	Analysis/Container: 8015 (DRO+GRO)	8021 (BTEX)	Chloride	Sample Number
Point of Release	POR	S	2-1	8:25	Cool	1-4oz	X	X	X	-01
Before Substone	BFR SS.	S	"	8:10	cool	1-4oz	1	1	1	-02
End of Release	EOR	1	2	8:55	1	1	1	1	1	-03

Media: Filter = F Soil = S Wastewater = WW Groundwater = GW Drinking Water = DW Sludge = SG Surface Water = SW Air = A Drill Mud = DM Other = OT

Relinquished By: (Signature)	Date: 2-1-17	Time: 1440	Received By: (Signature)	Number of Bottles: 3-4oz	Sample Condition: OK
Relinquished By: (Signature)	Date:	Time:		Temperature: 4.1	Other Information
Relinquished By: (Signature)	Date:	Time:	Received for Lab by: (Signature)	Date: 2/2/17 Time: 0900	

Comments

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

ESC LAB SCIENCES
Cooler Receipt Form

Client: XTO	SDG#:	183428
Cooler Received/Opened On: 02/2/2017	Temperature:	
Received By: Jeremy Watkins		
Signature:		

Receipt Check List	NP	Yes	No
COC Seal Present / Intact?			
COC Signed / Accurate?		✓	
Bottles arrive intact?		✓	
Correct bottles used?		✓	
Sufficient volume sent?		✓	
If Applicable			
VOA Zero headspace?			
Preservation Correct / Checked?			

Hixon, Logan

From: Hixon, Logan
Sent: Wednesday, March 15, 2017 10:12 AM
To: 'Fields, Vanessa, EMNRD'; Powell, Brandon, EMNRD; Smith, Cory, EMNRD; Bill Freeman (nnepauic@frontiernet.net)
Cc: McDaniel, James; Hoekstra, Kurt; Divine, Olan; Weber, Justin; Shelby, Ray; Percell, Bob; Weaver, John
Subject: RE: 2017-2-1 NV Navajo 35-1 Wtr Manifold Release

Good Morning All,
XTO plans to complete the following actions for this site. The release point area will be scraped up as requested and gypsum will be applied to the release area by raking and spreading of the gypsum. After the application of gypsum to the impacted area XTO will consider this site closed and an initial C-141 documentation will be submitted with actions taken.

Thank you for your time and have a great day!

If you have any questions do not hesitate to contact us.

Thank You!
EHS Coordinator
Logan Hixon | 382 CR 3100 | Aztec, NM 87410 | ph: 505-333-3100 |Cell: 505-386 8018 |
Home: 505-320-6133| Logan_Hixon@xtoenergy.com
XTO ENERGY INC., an ExxonMobil subsidiary

From: Fields, Vanessa, EMNRD [mailto:Vanessa.Fields@state.nm.us]
Sent: Wednesday, March 15, 2017 7:12 AM
To: Hixon, Logan <Logan_Hixon@xtoenergy.com>; Powell, Brandon, EMNRD <Brandon.Powell@state.nm.us>; Smith, Cory, EMNRD <Cory.Smith@state.nm.us>; Bill Freeman (nnepauic@frontiernet.net) <nnepauic@frontiernet.net>; Steve Austin <nnepawq@frontiernet.net>
Cc: McDaniel, James <James_McDaniel@xtoenergy.com>; Hoekstra, Kurt <Kurt_Hoekstra@xtoenergy.com>; Divine, Olan <Olan_Divine@xtoenergy.com>; Weber, Justin <Justin_Weber@xtoenergy.com>; Shelby, Ray <Ray_Shelby@xtoenergy.com>; Percell, Bob <Bob_Percell@xtoenergy.com>; Weaver, John <John_Weaver@xtoenergy.com>
Subject: RE: 2017-2-1 NV Navajo 35-1 Wtr Manifold Release

Good morning Logan,

After review, if XTO would like to propose to use the 19.15.17 standards to clear the release on this site it appears to be an acceptable alternative. However, please note 19.15.17.13.H(3) requires **"a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0."** This requirement appears to be more restrictive than what was previously approved.

Please also note you may want to copy Steve Austin with the NNEPA as I believe Mr. Freeman has retired.

Thank you,
Vanessa Fields
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 119
Cell: (505) 419-0463
vanessa.fields@state.nm.us

From: Hixon, Logan [mailto:Logan_Hixon@xtoenergy.com]
Sent: Friday, March 10, 2017 3:38 PM
To: Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us>; Powell, Brandon, EMNRD <Brandon.Powell@state.nm.us>; Smith, Cory, EMNRD <Cory.Smith@state.nm.us>; Bill Freeman (nnepauic@frontiernet.net) <nnepauic@frontiernet.net>
Cc: McDaniel, James <James_McDaniel@xtoenergy.com>; Hoekstra, Kurt <Kurt_Hoekstra@xtoenergy.com>; Divine, Olan <Olan_Divine@xtoenergy.com>; Weber, Justin <Justin_Weber@xtoenergy.com>; Shelby, Ray <Ray_Shelby@xtoenergy.com>; Percell, Bob <Bob_Percell@xtoenergy.com>; Weaver, John <John_Weaver@xtoenergy.com>
Subject: RE: 2017-2-1 NV Navajo 35-1 Wtr Manifold Release

Good Afternoon All,
We wanted to ask the question if referencing Table 1 standards, it would seem that 20,000 ppm chloride is protective of the environment according to the pit rule and produced water rule when groundwater is greater than (100) one hundred feet. We wanted to know why that would not be the case in this scenario where groundwater is greater than 100 feet, no significant water courses exists within 100 feet, and no water sources with 200 feet?

Thanks for the help, and have a great weekend!

If you have any questions do not hesitate to contact us.

Thank You!
EHS Coordinator
Logan Hixon | 382 CR 3100 | Aztec, NM 87410 | ph: 505-333-3100 | Cell: 505-386 8018 |
Home: 505-320-6133| Logan_Hixon@xtoenergy.com
XTO ENERGY INC., an ExxonMobil subsidiary

From: Fields, Vanessa, EMNRD [mailto:Vanessa.Fields@state.nm.us]
Sent: Wednesday, March 08, 2017 9:56 AM
To: Hixon, Logan <Logan_Hixon@xtoenergy.com>; Powell, Brandon, EMNRD <Brandon.Powell@state.nm.us>; Smith, Cory, EMNRD <Cory.Smith@state.nm.us>; Bill Freeman (nnepauic@frontiernet.net) <nnepauic@frontiernet.net>

Cc: McDaniel, James <James_McDaniel@xtoenergy.com>; Hoekstra, Kurt <Kurt_Hoekstra@xtoenergy.com>; Divine, Olan <Olan_Divine@xtoenergy.com>; Weber, Justin <Justin_Weber@xtoenergy.com>; Shelby, Ray <Ray_Shelby@xtoenergy.com>; Percell, Bob <Bob_Percell@xtoenergy.com>; Weaver, John <John_Weaver@xtoenergy.com>
Subject: RE: 2017-2-1 NV Navajo 35-1 Wtr Manifold Release

Good morning Logan,

The initial C-141 has been approved for the NV Navajo 35-1 Water Manifold. As discussed previously please scrape the top portion of the affected areas and apply gypsum per spec sheet.

You can find the initial C-141 on the OCD website under Images, Administrative and Environmental Orders, 3RP-1044.

Please let me know if you have any questions.

Thank you,

Vanessa Fields
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 119
Cell: (505) 419-0463
vanessa.fields@state.nm.us

From: Fields, Vanessa, EMNRD
Sent: Thursday, February 9, 2017 1:19 PM
To: 'Hixon, Logan' <Logan_Hixon@xtoenergy.com>; Powell, Brandon, EMNRD <Brandon.Powell@state.nm.us>; Smith, Cory, EMNRD <Cory.Smith@state.nm.us>; Bill Freeman (nnepauic@frontiernet.net) <nnepauic@frontiernet.net>
Cc: McDaniel, James <James_McDaniel@xtoenergy.com>; Hoekstra, Kurt <Kurt_Hoekstra@xtoenergy.com>; Divine, Olan <Olan_Divine@xtoenergy.com>; Weber, Justin <Justin_Weber@xtoenergy.com>; Shelby, Ray <Ray_Shelby@xtoenergy.com>; Percell, Bob <Bob_Percell@xtoenergy.com>; Weaver, John <John_Weaver@xtoenergy.com>
Subject: RE: 2017-2-1 NV Navajo 35-1 Wtr Manifold Release

Thank you Logan.

Vanessa Fields
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 119
Cell: (505) 419-0463
vanessa.fields@state.nm.us

From: Hixon, Logan [mailto:Logan_Hixon@xtoenergy.com]
Sent: Thursday, February 9, 2017 12:55 PM
To: Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us>; Powell, Brandon, EMNRD <Brandon.Powell@state.nm.us>; Smith, Cory, EMNRD <Cory.Smith@state.nm.us>; Bill Freeman (nnepauic@frontiernet.net) <nnepauic@frontiernet.net>
Cc: McDaniel, James <James_McDaniel@xtoenergy.com>; Hoekstra, Kurt <Kurt_Hoekstra@xtoenergy.com>; Divine, Olan <Olan_Divine@xtoenergy.com>; Weber, Justin <Justin_Weber@xtoenergy.com>; Shelby, Ray <Ray_Shelby@xtoenergy.com>; Percell, Bob <Bob_Percell@xtoenergy.com>; Weaver, John <John_Weaver@xtoenergy.com>
Subject: RE: 2017-2-1 NV Navajo 35-1 Wtr Manifold Release

Start: 36.68529890481074, -108.2708031312639

Sample at middle: 36.68568874712724, -108.2703572978343

End: 36.68609795164008, -108.2697636914516

These are the rough coordinates. Let us know if you need any further information.

If you have any questions do not hesitate to contact us.

Thank You!
EHS Coordinator
Logan Hixon | 382 CR 3100 | Aztec, NM 87410 | ph: 505-333-3100 | Cell: 505-386 8018 |
Home: 505-320-6133| Logan_Hixon@xtoenergy.com
XTO ENERGY INC., an ExxonMobil subsidiary

From: Fields, Vanessa, EMNRD [mailto:Vanessa.Fields@state.nm.us]
Sent: Thursday, February 09, 2017 11:23 AM
To: Hixon, Logan; Powell, Brandon, EMNRD; Smith, Cory, EMNRD; Bill Freeman (nnepauic@frontiernet.net)
Cc: McDaniel, James; Hoekstra, Kurt; Divine, Olan; Weber, Justin; Shelby, Ray; Percell, Bob; Weaver, John
Subject: RE: 2017-2-1 NV Navajo 35-1 Wtr Manifold Release

Good morning Logan,

Could you please provide me with the Lat/Long of the release point and end point?

Thank you,

Vanessa Fields
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 119
Cell: (505) 419-0463
vanessa.fields@state.nm.us

From: Hixon, Logan [mailto:Logan_Hixon@xtoenergy.com]
Sent: Thursday, February 9, 2017 10:34 AM
To: Powell, Brandon, EMNRD <Brandon.Powell@state.nm.us>; Smith, Cory, EMNRD <Cory.Smith@state.nm.us>; Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us>; Bill Freeman (nnepauic@frontiernet.net) <nnepauic@frontiernet.net>
Cc: McDaniel, James <James_McDaniel@xtoenergy.com>; Hoekstra, Kurt <Kurt_Hoekstra@xtoenergy.com>; Divine, Olan <Olan_Divine@xtoenergy.com>; Weber, Justin <Justin_Weber@xtoenergy.com>; Shelby, Ray <Ray_Shelby@xtoenergy.com>; Percell, Bob <Bob_Percell@xtoenergy.com>; Weaver, John <John_Weaver@xtoenergy.com>
Subject: RE: 2017-2-1 NV Navajo 35-1 Wtr Manifold Release

Email 2

If you have any questions do not hesitate to contact us.

Thank You!
EHS Coordinator
Logan Hixon | 382 CR 3100 | Aztec, NM 87410 | ph: 505-333-3100 | Cell: 505-386 8018 |
Home: 505-320-6133 | Logan_Hixon@xtoenergy.com
XTO ENERGY INC., an ExxonMobil subsidiary

From: Hixon, Logan
Sent: Thursday, February 09, 2017 10:32 AM
To: BRANDON POWELL (brandon.powell@state.nm.us); Smith, Cory, EMNRD; Fields, Vanessa, EMNRD; Bill Freeman (nnepauic@frontiernet.net)
Cc: McDaniel, James (James_McDaniel@xtoenergy.com); Hoekstra, Kurt; Divine, Olan; Weber, Justin; Shelby, Ray; Percell, Bob; Weaver, John (John_Weaver@xtoenergy.com)
Subject: RE: 2017-2-1 NV Navajo 35-1 Wtr Manifold Release

I will have to send it in two separate emails due to size restrictions.

Email 1

If you have any questions do not hesitate to contact us.

Thank You!
EHS Coordinator
Logan Hixon | 382 CR 3100 | Aztec, NM 87410 | ph: 505-333-3100 | Cell: 505-386 8018 |
Home: 505-320-6133 | Logan_Hixon@xtoenergy.com
XTO ENERGY INC., an ExxonMobil subsidiary

From: Hixon, Logan
Sent: Thursday, February 09, 2017 10:31 AM

To: BRANDON POWELL (brandon.powell@state.nm.us); Smith, Cory, EMNRD; Fields, Vanessa, EMNRD; Bill Freeman (nnepauic@frontiernet.net)
Cc: McDaniel, James (James_McDaniel@xtoenergy.com); Hoekstra, Kurt; Divine, Olan; Weber, Justin; Shelby, Ray; Percell, Bob; Weaver, John (John_Weaver@xtoenergy.com)
Subject: 2017-2-1 NV Navajo 35-1 Wtr Manifold Release

Good Morning,
Attached for your reference are the analytical results and on-site form taken on February 1, 2017 from the NV Navajo 35-1 water manifold release, where approximately 10 bbls of produced water was released from a gas eliminator that had frozen and split. XTO proposes to remediate the impacted area with gypsum, in the source area and continuously for 25 feet downstream. Approximately 160 lbs. of gypsum at an application rate of 1 lb. per linear feet approximately will be used in the impacted area by raking and spreading of the gypsum. After the application of gypsum to the impacted area XTO will consider this site closed and an initial C-141 documentation will be submitted with actions taken.

If you have any questions do not hesitate to contact us.

Thank You!
EHS Coordinator
Logan Hixon | 382 CR 3100 | Aztec, NM 87410 | ph: 505-333-3100 | Cell: 505-386 8018 |
Home: 505-320-6133 | Logan_Hixon@xtoenergy.com
XTO ENERGY INC., an ExxonMobil subsidiary