

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

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

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company: XTO Energy, Inc.	Contact: James McDaniel
Address: 382 Road 3100, Aztec, New Mexico 87410	Telephone No.: (505) 333-3701
Facility Name: WF Federal 5-2 (30-045-29853)	Facility Type: Gas Well (Fruitland Coal)

Surface Owner: Federal	Mineral Owner:	Lease No.:
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LOCATION OF RELEASE

Unit Letter K	Section 5	Township 29N	Range 14W	Feet from the 1655	North/South Line FSL	Feet from the 1570	East/West Line FWL	County San Juan
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Latitude: 36.7531 Longitude: -108.3365

RCVD MAR 8 '11
OIL CONS. DIV.

NATURE OF RELEASE

DIST. 3

Type of Release: Produced Water	Volume of Release: 22 bbls	Volume Recovered: N20 bbls
Source of Release: Water Line	Date and Hour of Occurrence: February 25, 2011	Date and Hour of Discovery: February 25, 2011
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom? James McDaniel	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.*

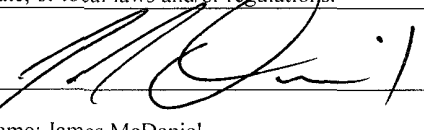
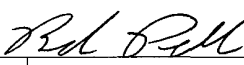
Describe Cause of Problem and Remedial Action Taken.*

On February 25, 2011, a water leak was noticed at the WF Federal 5-2 well site. An estimated 22 bbls of produced water leaked from a ruptured line at the separator, running into the lined pit cellar. The leak was stopped and the damaged line replaced. 20 bbls of water was recovered from the lined pit cellar, with 2 bbls soaking in to the soil inside the bermed area. The site was ranked a 10 pursuant to the NMOCD Guidelines for the Remediation of Leaks, Spills and Releases, due to an estimated depth to groundwater of over 50 feet.

Describe Area Affected and Cleanup Action Taken.*

On February 25, 2011, two (2) composite samples were collected from the site. One (1) sample was collected inside the bermed area in the spill area, and one (1) sample was collected upgradient as a background. The spill composite sample was analyzed for DRO/GRO, BTEX and chlorides, while the background was analyzed for chlorides only. The spill composite sample returned results of non-detect for DRO/GRO and for BTEX, and 1,800 ppm total chlorides. The background for this site was determined to be 46 ppm chlorides. Due to the low amount of water lost, a depth to groundwater of over 50 feet, and the containment of the spills impact area to a small area inside the berm, no further remediation activity will be performed.

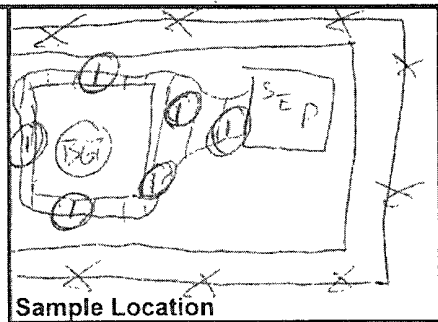
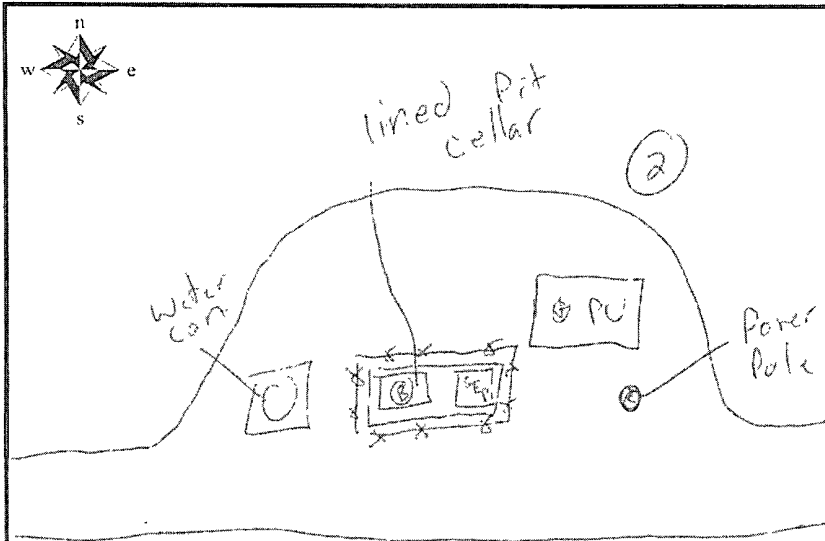
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger 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: James McDaniel	Approved by District Supervisor: 		
Title: EH&S Specialist	Approval Date: <u>3/8/11</u>	Expiration Date:	
E-mail Address: James_McDaniel@xtoenergy.com	Conditions of Approval:	Attached <input type="checkbox"/>	
Date: 3/4/2011	Phone: 505-333-3701	<u>nJK1122142206</u>	



XTO Energy On-Site Form

Well Name WF Federal 5-2 API # 30-045-29853
Section 5K Township 29N Range 14W County San Juan
Contractors On-Site None Time On-Site 16²⁰ Time Off-Site 17⁰⁰
Spill Amount 22 (20 Recovered) bbls Spilled (Oil / Produced Water / Other)
Land Use (Grazing / Residential / Tribe) Excavation x x deep



Site Diagram

Sample Location

Water collected inside lined pit cellar.
20 bbls recovered from cellar

Number of Photos Taken

Samples

*no steel, coal fines, or hydrocarbon odor noted

Time	Sample #	Sample Description	Characteristics	QVM (ppm)	Analysis Requested
—	NA	100 Standard	NA	—	NA
1630	1	Spill Composite	wet, brown, loam	—	CO15, CO21, chlorides
1640	2	Background	Dry, Brown, Sand	—	chlorides

Name (Print) James McDaniel

Date 2/25/11

Name (Signature) [Signature]

Company XTO



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Tax I D 62-0814289

Est. 1970

James McDaniel
XTO Energy - San Juan Division
382 Road 3100
Aztec, NM 87410

Report Summary

Wednesday March 02, 2011

Report Number: L503822

Samples Received: 03/01/11

Client Project:

Description: WF Federal 5-2

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

Daphne Richards , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704, ND - R-140
NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032008A,
TX - T104704245, OK-9915

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences

Note. The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP

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Where applicable, sampling conducted by ESC is performed per guidance provided
in laboratory standard operating procedures 060302, 060303, and 060304



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REPORT OF ANALYSIS

March 02, 2011

James McDaniel
XTO Energy - San Juan Division
382 Road 3100
Aztec, NM 87410

ESC Sample # : L503822-01

Date Received : March 01, 2011
Description : WF Federal 5-2

Site ID : WF FEDERAL 5-2

Sample ID : SPILL COMPOSITE

Project # :

Collected By : James McDaniel
Collection Date : 02/25/11 16:30

Parameter	Dry Result	Det Limit	Units	Method	Date	Dil.
Chloride	1800	24	mg/kg	9056	03/02/11	2
Total Solids	83.		%	2540G	03/02/11	1
Benzene	BDL	0.0030	mg/kg	8021/8015	03/01/11	5
Toluene	BDL	0.030	mg/kg	8021/8015	03/01/11	5
Ethylbenzene	BDL	0.0030	mg/kg	8021/8015	03/01/11	5
Total Xylene	BDL	0.0091	mg/kg	8021/8015	03/01/11	5
TPH (GC/FID) Low Fraction	BDL	0 60	mg/kg	GRO	03/01/11	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene (FID)	94.2		% Rec	8021/8015	03/01/11	5
a,a,a-Trifluorotoluene (PID)	96.1		% Rec.	8021/8015	03/01/11	5
TPH (GC/FID) High Fraction	BDL	4.8	mg/kg	3546/DRO	03/02/11	1
Surrogate recovery(%)						
o-Terphenyl	69.9		% Rec.	3546/DRO	03/02/11	1

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note.

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The reported analytical results relate only to the sample submitted

Reported: 03/02/11 12:49 Printed: 03/02/11 13:11



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REPORT OF ANALYSIS

March 02, 2011

James McDaniel
XTO Energy - San Juan Division
382 Road 3100
Aztec, NM 87410

Date Received : March 01, 2011
Description : WF Federal 5-2

Sample ID : BACKGROUND

Collected By : James McDaniel
Collection Date : 02/25/11 16:40

ESC Sample # : L503822-02

Site ID : WF FEDERAL 5-2

Project # :

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Chloride	46.	13.	mg/kg	9056	03/02/11	1
Total Solids	76		%	2540G	03/02/11	1

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

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The reported analytical results relate only to the sample submitted

Reported: 03/02/11 12:49 Printed: 03/02/11 13 11



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XTO Energy - San Juan Division
James McDaniel
382 Road 3100

Aztec, NM 87410

Quality Assurance Report
Level II

LS03822

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March 02, 2011

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
Benzene	< .0005	mg/kg			WG523768	03/01/11 14:55
Ethylbenzene	< .0005	mg/kg			WG523768	03/01/11 14:55
Toluene	< .005	mg/kg			WG523768	03/01/11 14:55
TPH (GC/FID) Low Fraction	< .1	mg/kg			WG523768	03/01/11 14:55
Total Xylene	< .0015	mg/kg			WG523768	03/01/11 14:55
a,a,a-Trifluorotoluene (FID)		% Rec	94.62	59-128	WG523768	03/01/11 14:55
a,a,a-Trifluorotoluene (PID)		% Rec	94.72	54-144	WG523768	03/01/11 14:55
TPH (GC/FID) High Fraction	< 4	ppm			WG523502	03/02/11 00:46
o-Terphenyl		% Rec	96.02	50-150	WG523502	03/02/11 00:46
Chloride	< 10	mg/kg			WG523456	03/01/11 12:29
Total Solids	< .1	%			WG523815	03/02/11 11:30

Analyte	Units	Duplicate		Limit	Ref Samp	Batch
		Result	Duplicate			
Total Solids	%	75.0	76.1	5	LS03822-02	WG523815

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
Benzene	mg/kg	.05	0.0461	92.2	76-113	WG523768
Ethylbenzene	mg/kg	.05	0.0453	90.6	78-115	WG523768
Toluene	mg/kg	.05	0.0436	87.2	76-114	WG523768
Total Xylene	mg/kg	.15	0.134	89.5	81-118	WG523768
a,a,a-Trifluorotoluene (PID)				96.76	54-144	WG523768
TPH (GC/FID) Low Fraction	mg/kg	5.5	5.48	99.7	67-135	WG523768
a,a,a-Trifluorotoluene (FID)				100.9	59-128	WG523768
TPH (GC/FID) High Fraction	ppm	60	51.9	86.4	50-150	WG523502
o-Terphenyl				84.38	50-150	WG523502
Chloride	mg/kg	200	208	104	85-115	WG523456
Total Solids	%	50	50.2	100	85-155	WG523815

Analyte	Units	Laboratory Control Sample Duplicate		Limit	RPD	Limit	Batch
		Result	Ref %Rec				
Benzene	mg/kg	0.0476	0.0461 95.0	76-113	3.14	20	WG523768
Ethylbenzene	mg/kg	0.0463	0.0453 93.0	78-115	2.27	20	WG523768
Toluene	mg/kg	0.0460	0.0436 92.0	76-114	5.40	20	WG523768
Total Xylene	mg/kg	0.138	0.134 92.0	81-118	2.98	20	WG523768
a,a,a-Trifluorotoluene (PID)			96.71	54-144			WG523768
TPH (GC/FID) Low Fraction	mg/kg	5.47	5.48 100	67-135	0.170	20	WG523768
a,a,a-Trifluorotoluene (FID)			100.9	59-128			WG523768
TPH (GC/FID) High Fraction	ppm	50.6	51.9 84.0	50-150	2.47	25	WG523502
o-Terphenyl			82.85	50-150			WG523502

* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers'



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Quality Assurance Report
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March 02, 2011

Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
Chloride	mg/kg	203.	208.	102.	85-115	2.43	20	WG523456

Analyte	Units	MS Res	Matrix Spike		% Rec	Limit	Ref Samp	Batch
			Ref	TV				
Benzene	mg/kg	0.226	0	0.05	90.2	32-137	L503819-01	WG523768
Ethylbenzene	mg/kg	0.220	0	0.05	87.8	10-150	L503819-01	WG523768
Toluene	mg/kg	0.225	0	0.05	89.8	20-142	L503819-01	WG523768
Total Xylene	mg/kg	0.661	0	0.15	88.1	16-141	L503819-01	WG523768
a,a,a-Trifluorotoluene(PID)				95.30		54-144		WG523768
TPH (GC/FID) Low Fraction	mg/kg	17.6	0	5.5	64.0	55-109	L503819-01	WG523768
a,a,a-Trifluorotoluene(FID)				97.22		59-128		WG523768
TPH (GC/FID) High Fraction	ppm	82.2	22.0	60	100	50-150	L503819-02	WG523502
o-Terphenyl					69.83	50-150		WG523502

Analyte	Units	MSD	Matrix Spike		%Rec	Limit	RPD	Limit	Ref Samp	Batch
			Ref	TV						
Benzene	mg/kg	0.225	0.226	90.2	32-137	0.0500	39		L503819-01	WG523768
Ethylbenzene	mg/kg	0.217	0.220	86.7	10-150	1.33	44		L503819-01	WG523768
Toluene	mg/kg	0.218	0.225	87.3	20-142	2.85	42		L503819-01	WG523768
Total Xylene	mg/kg	0.646	0.661	86.1	16-141	2.33	46		L503819-01	WG523768
a,a,a-Trifluorotoluene(PID)				95.65	54-144					WG523768
TPH (GC/FID) Low Fraction	mg/kg	22.6	17.6	82.1	55-109	24.8*	20		L503819-01	WG523768
a,a,a-Trifluorotoluene(FID)				98.91	59-128					WG523768
TPH (GC/FID) High Fraction	ppm	74.5	82.2	87.5	50-150	9.82	25		L503819-02	WG523502
o-Terphenyl				77.09	50-150					WG523502

Batch number / Run number / Sample number cross reference

WG523768 R1593469 L503822-01
WG523502 R1593649 L503822-01
WG523456 R1593910 L503822-01 02
WG523815 R1594493 L503822-01 02

* * Calculations are performed prior to rounding of reported values
* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers'



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March 02, 2011

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

Company Name/Address XTO Energy, Inc. 382 County Road 3100 Aztec, NM 87410				Alternate Billing XTORN031810S Report to James McDaniel E-mail to James_McDaniel@xtoenergy.com				Analysis/Container/Preservative <div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);"> BTEX (8021) / 1-4oz / Cool DRO/GRO (8015) / 1-4oz / Cool Chlorides / 1-4oz / Cool </div> <div></div> </div>				<div style="text-align: right;"> Chain of Custody Page ___ of ___ </div> <div style="text-align: center;"> E167 </div> <div style="text-align: center;"> Prepared by ENVIRONMENTAL Science corp 12065 Lebanon Road Mt. Juliet TN 37122 Phone (615)758-5858 Phone (800) 767-5859 FAX (615)758-5859 </div>			
Project Description WF Federal 5-2				City/State Collected Kirtland, NM											
PHONE 505-333-3701 FAX		Client Project No. WF Federal 5-2		Lab Project # —											
Collected by James McDaniel 		Site/Facility ID# WF Federal 5-2		P O # —											
Collected by (signature) 		Rush? (Lab MUST be Notified) <input checked="" type="checkbox"/> Next Day... 100% <input type="checkbox"/> Two Day... 50% <input type="checkbox"/> Three Day... 25%		Date Results Needed — Email? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes FAX? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes		No of Cntrs									
Packed on Ice N <input checked="" type="checkbox"/> Y <input checked="" type="checkbox"/>															

Sample ID	Comp/Grab	Matrix	Depth	Date	Time	Cntrs					Remarks/contaminant	Sample # (lab only)	
Spill Composite	Comp	SS	—	2/25/11	16 ³⁰	1	X	X	X				LS03822-01
Background	Comp	SS	—	2/25/11	16 ⁴⁰	1			X				02

Matrix: SS=Soil/Solid GW=Groundwater VWW=Wastewater DW=Drinking Water OT= Other _____

pH _____ Temp _____

Remarks:

Flow _____ Other _____

Relinquisher by (Signature) 	Date 2/28/11	Time 15⁰⁵	Received by (Signature) 	Samples returned via FedEx <input checked="" type="checkbox"/> UPS <input type="checkbox"/> Other _____ 4/3/11 9816 8235	Condition (lab use only) ok
Relinquisher by (Signature)	Date	Time	Received by (Signature)	Temp 3.2°	Bottles Received 2-4oz
Relinquisher by (Signature)	Date	Time	Received for lab by (Signature) Kenn Wilson	Date 3/1/11	Time 0930
				pH Checked	NCF