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: Kurt Hoekstra
Address: 382 Road 3100, Aztec, New Mexico 87410	Telephone No.: (505) 333-3202
Facility Name: Breech A # 132 R (30-039-26620)	Facility Type: Gas Well (Dakota, Mesa Verde, South Blanco Tocito)

Surface Owner: Federal	Mineral Owner:	Lease No. NMSF-079035A

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
G	9	26N	6W	1988	FNL	1949	FEL	Rio Arriba

Latitude: 36.503945 **Longitude:** -107.470615

RCVD NOV 16 '12
OIL CONS. DIV.
DIST. 3

NATURE OF RELEASE

Type of Release: Produced Water/Produced Oil	Volume of Release: 5 BBL Produced Water, 3 BBL Produced Oil	Volume Recovered: 1 BBL Produced Oil
Source of Release: Hole in the bottom of the production tank	Date and Hour of Occurrence: 10-31-2012	Date and Hour of Discovery: 11-1-2012 9:00 am
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom?	
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 November 1st at approximately 9:00am a lease operator discovered a spill at the Breech A # 132R well site. Produced Oil and Produced Water had leaked from the production tank all liquids staying inside the berm. This release was confirmed when the lease operator gauged the tank. An estimated 5 BBL of produced water and 3 BBL of produced oil was lost, 1 BBL of produced oil was recovered. The site was then ranked a 10 pursuant to the NMOCD Guidelines for the Remediation of Leaks, Spills, and Releases. This set the closure standards to 1000 ppm TPH, 10 ppm benzene and 50 ppm total BTEX.

Describe Area Affected and Cleanup Action Taken.* A one call was made and on November 2nd approximately 8 yards of impacted material was removed from inside the tank ring pedestal and inside the berm, samples were taken and returned results below standards from inside the tank pedestal but above standards inside the berm area. On November 6th an additional 20 yards of impacted soil was removed from inside the berm and additional samples were taken. These samples returned results below standards for TPH and BTEX. The excavation was then backfilled with clean material. Please see the attached Analytical Results, and applicable field sheets for reference. 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: Kurt Hoekstra	OIL CONSERVATION DIVISION Approved by District Supervisor: Jonathan D. Kelly
Printed Name: Kurt Hoekstra	
Title: Sr. Environmental Technician	Approval Date: 6/6/2013 Expiration Date:
E-mail Address: Kurt_Hoekstra@xtoenergy.com	Conditions of Approval: Attached ☐
Date: 11-12-2012 Phone: 505-333-3202	

nJK1315755246

XTO Energy On-Site Form

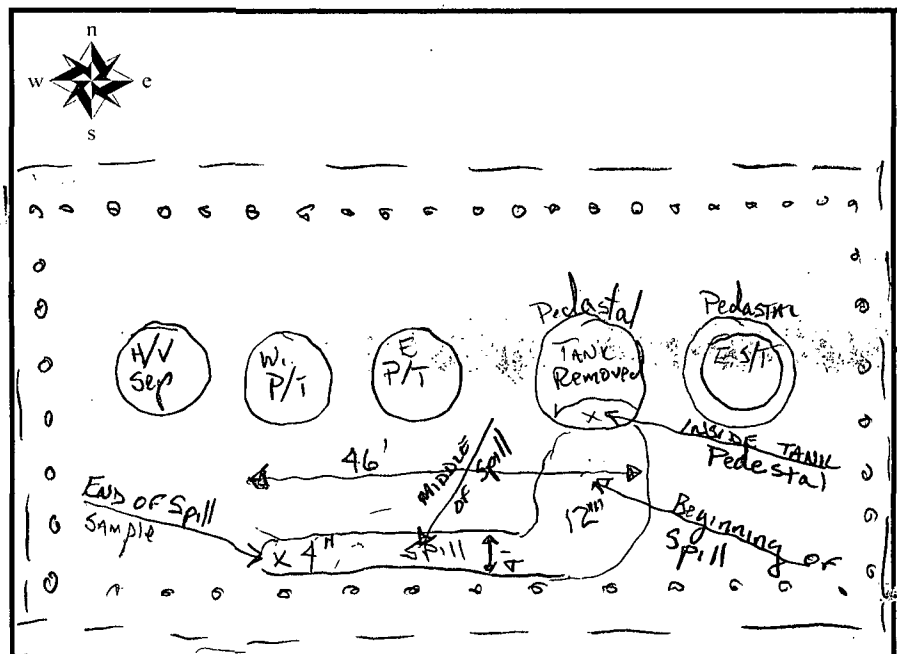
Well Name BREECH A #132 R API # 30-039-26620

Section 9 Township 26N Range 6W County RIO ARRIBA

Contractors On-Site KELLY Oilfield Service Time On-Site 10:30 Time Off-Site

Spill Amount 5 BBL WATER 3 BBL Oil bbls Spilled (Oil / Produced Water / Other 1 BBL Oil Recovered

Land Use (Grazing / Residential / Tribe Open RANGE) Excavation 46' x ____ x ____ deep



Site Diagram

Sample Location

Sample Location

Comments

Number of Photos Taken

Samples

Time	Sample #	Sample Description	Characteristics	OVM (ppm)	Analysis Requested
	NA	100 Standard	NA		NA
1:30		END OF Spill		1225	8015, 8021
1:55		MIDDLE OF Spill		1359	8015, 8021
2:40		INSIDE TANK Pedestal		1729	8015, 8021
2:45		Beginning OF Spill		531	8015, 8021

Name (Print) KURT HOEKSTRA Date 11-2-12

Name (Signature) Kurt Hoekstra Company XTO

RUSH

CHAIN OF CUSTODY RECORD

14636

Client: XTO	Project Name / Location: Breech A #132R
Email results to: James McDaniel, Kurt Hoekstra, Logan Hixon	Sampler Name: Kurt
Client Phone No.:	Client No.: 98031-0528

Sample No./ Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative: $HgCl_2$	Preservative: HCl	Preservative:	TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE				Sample Cool	Sample Intact
End of Spill	11-2	1:30	63617 P211007-01A	1 4oz Jar				X	X												Y	Y
Middle of Spill	11-2	1:55	63618 P211007-02A					X	X													
Inside Tank Pedastal		2:40	63619 P211007-03A					X	X													
Beginning of Spill		2:45	63620 P211007-04A					X	X													

ANALYSIS / PARAMETERS

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Kurt Hoekstra	11-2	4:25	Dene Zabbi	11/2/12	4:30 p
Relinquished by: (Signature)			Received by: (Signature)		

Sample Matrix
Soil ☒ Solid ☐ Sludge ☐ Aqueous ☐ Other ☐ _____

☐ Sample(s) dropped off after hours to secure drop off area.

RUSH

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Analytical Laboratory

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Analytical Laboratory

Report Summary

Client: XTO

Chain of Custody Number: 14636

Samples Received: 11-02-12

Job Number: 98031-0528

Sample Number(s): 63617-63620

Project Name/Location: Breech A #132R

Entire Report Reviewed By: Rene Zazzi Date: 11-06-12

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.

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Analytical Laboratory

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	XTO	Project #:	98031-0528
Sample ID:	End of Spill	Date Reported:	11-05-12
Laboratory Number:	63617	Date Sampled:	11-02-12
Chain of Custody No:	14636	Date Received:	11-02-12
Sample Matrix:	Soil	Date Extracted:	11-05-12
Preservative:	Cool	Date Analyzed:	11-05-12
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**8,320**	**0.2**
Diesel Range (C10 - C28)	**4,750**	**0.1**
Total Petroleum Hydrocarbons	**13,100**	

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Breech A #132R**

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Analytical Laboratory

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	XTO	Project #:	98031-0528
Sample ID:	Middle of Spill	Date Reported:	11-05-12
Laboratory Number:	63618	Date Sampled:	11-02-12
Chain of Custody No:	14636	Date Received:	11-02-12
Sample Matrix:	Soil	Date Extracted:	11-05-12
Preservative:	Cool	Date Analyzed:	11-05-12
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**4,360**	**0.2**
Diesel Range (C10 - C28)	**3,770**	**0.1**
Total Petroleum Hydrocarbons	**8,130**	

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Breech A #132R**

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EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	XTO	Project #:	98031-0528
Sample ID:	Inside Tank Pedastal	Date Reported:	11-05-12
Laboratory Number:	63619	Date Sampled:	11-02-12
Chain of Custody No:	14636	Date Received:	11-02-12
Sample Matrix:	Soil	Date Extracted:	11-05-12
Preservative:	Cool	Date Analyzed:	11-05-12
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**32.3**	**0.2**
Diesel Range (C10 - C28)	**110**	**0.1**
Total Petroleum Hydrocarbons	**142**	

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Breech A #132R**

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EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	XTO	Project #:	98031-0528
Sample ID:	Beginning of Spill	Date Reported:	11-05-12
Laboratory Number:	63620	Date Sampled:	11-02-12
Chain of Custody No:	14636	Date Received:	11-02-12
Sample Matrix:	Soil	Date Extracted:	11-05-12
Preservative:	Cool	Date Analyzed:	11-05-12
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**8,530**	**0.2**
Diesel Range (C10 - C28)	**3,590**	**0.1**
Total Petroleum Hydrocarbons	**12,100**	

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Breech A #132R**

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EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	1105TCAL QA/QC	Date Reported:	11-05-12
Laboratory Number:	63617	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	11-05-12
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	11-05-12	9.9960E+02	1.0000E+03	**0.04%**	**0 - 15%**
Diesel Range C10 - C28	11-05-12	9.9960E+02	1.0000E+03	**0.04%**	**0 - 15%**

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	**ND**	**0.2**
Diesel Range C10 - C28	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	**8,320**	**7,130**	**14.3%**	**0 - 30%**
Diesel Range C10 - C28	**4,750**	**4,270**	**10.1%**	**0 - 30%**

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	**8,320**	**250**	**5,570**	**65.0%**	**75 - 125%**
Diesel Range C10 - C28	**4,750**	**250**	**3,470**	**69.4%**	**75 - 125%**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **QA/QC for Samples 63617-63626**

* Note: % Recovery outside of Accept. Range due to interference

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EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	XTO	Project #:	98031-0528
Sample ID:	End of Spill	Date Reported:	11-05-12
Laboratory Number:	63617	Date Sampled:	11-02-12
Chain of Custody:	14636	Date Received:	11-02-12
Sample Matrix:	Soil	Date Analyzed:	11-05-12
Preservative:	Cool	Date Extracted:	11-05-12
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	500

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**21,800**	**100**
Toluene	**249,000**	**100**
Ethylbenzene	**43,200**	**100**
p,m-Xylene	**293,000**	**100**
o-Xylene	**70,400**	**100**
Total BTEX	**677,000**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**104 %**
	1,4-difluorobenzene	**82.0 %**
	Bromochlorobenzene	**107 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846. USEPA, December 1996.

Comments: **Breech A #132R**

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EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	XTO	Project #:	98031-0528
Sample ID:	Middle of Spill	Date Reported:	11-05-12
Laboratory Number:	63618	Date Sampled:	11-02-12
Chain of Custody:	14636	Date Received:	11-02-12
Sample Matrix:	Soil	Date Analyzed:	11-05-12
Preservative:	Cool	Date Extracted:	11-05-12
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	500

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**11,300**	**100**
Toluene	**95,500**	**100**
Ethylbenzene	**21,800**	**100**
p,m-Xylene	**162,000**	**100**
o-Xylene	**38,800**	**100**
Total BTEX	**329,000**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**96.2 %**
	1,4-difluorobenzene	**94.1 %**
	Bromochlorobenzene	**97.1 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846. USEPA, December 1996.

Comments: **Breech A #132R**

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EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	XTO	Project #:	98031-0528
Sample ID:	Inside Tank Pedastal	Date Reported:	11-05-12
Laboratory Number:	63619	Date Sampled:	11-02-12
Chain of Custody:	14636	Date Received:	11-02-12
Sample Matrix:	Soil	Date Analyzed:	11-05-12
Preservative:	Cool	Date Extracted:	11-05-12
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	50

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**17.1**	**10.0**
Toluene	**270**	**10.0**
Ethylbenzene	**217**	**10.0**
p,m-Xylene	**1,710**	**10.0**
o-Xylene	**422**	**10.0**
Total BTEX	**2,630**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**99.5 %**
	1,4-difluorobenzene	**97.0 %**
	Bromochlorobenzene	**118 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846. USEPA, December 1996.

Comments: **Breech A #132R**

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EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	XTO	Project #:	98031-0528
Sample ID:	Beginning of Spill	Date Reported:	11-05-12
Laboratory Number:	63620	Date Sampled:	11-02-12
Chain of Custody:	14636	Date Received:	11-02-12
Sample Matrix:	Soil	Date Analyzed:	11-05-12
Preservative:	Cool	Date Extracted:	11-05-12
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	500

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**47,300**	**100**
Toluene	**373,000**	**100**
Ethylbenzene	**51,800**	**100**
p,m-Xylene	**345,000**	**100**
o-Xylene	**81,300**	**100**
Total BTEX	**898,000**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**110 %**
	1,4-difluorobenzene	**89.8 %**
	Bromochlorobenzene	**103 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846. USEPA, December 1996.

Comments: **Breech A #132R**

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EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	1105BCAL QA/QC	Date Reported:	11-05-12
Laboratory Number:	63619	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	11-05-12
Condition:	N/A	Analysis:	BTEX
		Dilution:	50

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF: (Accept. Range 0-15%)	%Diff.	Blank Conc	Detect. Limit
Benzene	6.6025E-05	6.6290E-05	0.004	ND	0.2
Toluene	6.2352E-05	6.2364E-05	0.000	ND	0.2
Ethylbenzene	6.8899E-05	6.8899E-05	0.000	ND	0.2
p,m-Xylene	5.3671E-05	5.3671E-05	0.000	ND	0.2
o-Xylene	7.2160E-05	7.2160E-05	0.000	ND	0.2

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	17.1	17.6	0.03	0 - 30%	10.0
Toluene	270	278	0.03	0 - 30%	10.0
Ethylbenzene	217	211	0.03	0 - 30%	10.0
p,m-Xylene	1710	1760	0.03	0 - 30%	10.0
o-Xylene	422	506	0.20	0 - 30%	10.0

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	17.1	2500	2680	106	39 - 150
Toluene	270	2500	2720	98.2	46 - 148
Ethylbenzene	217	2500	2870	106	32 - 160
p,m-Xylene	1710	5000	7420	111	46 - 148
o-Xylene	422	2500	3080	105	46 - 148

ND - Parameter not detected at the stated detection limit.

Dilution: Spike and spiked sample concentration represent a dilution proportional to sample dilution.

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.
Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: QA/QC for Samples 63617-63626

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XTO Energy On-Site Form

Well Name BREECH A # 132 R API # 30-039-26620

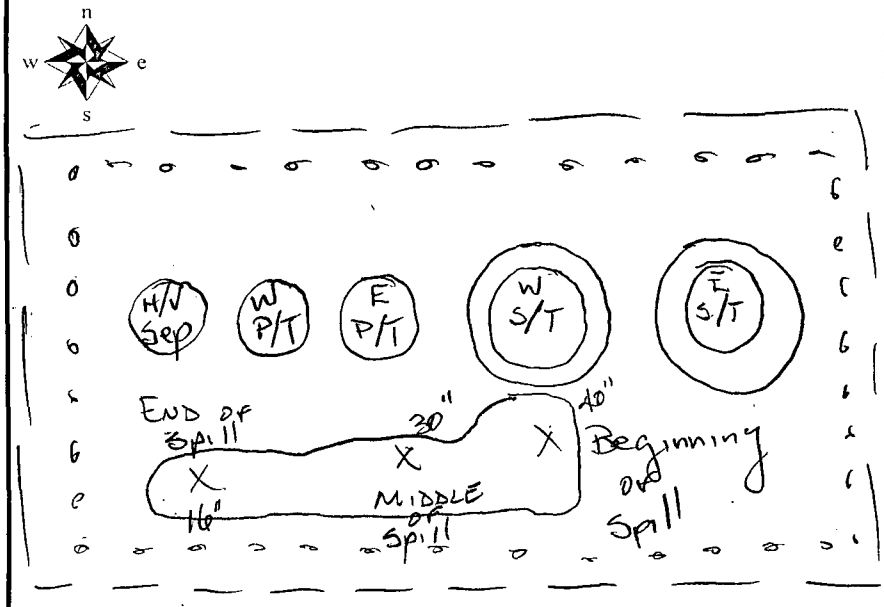
Section 9 Township 26N Range 6W County RIO ARRIBA

Contractors On-Site KEYSTONE Time On-Site 8:45 Time Off-Site

5BBL WATER

Spill Amount 3BBL OIL bbls Spilled (Oil / Produced Water / Other 1BBL Oil RECOVERED

Land Use (Grazing / Residential / Tribe _____) Excavation _____ x _____ x _____ deep



Site Diagram

Sample Location

Sample Location

Comments

Number of Photos Taken

Samples

Time	Sample #	Sample Description	Characteristics	OVM (ppm)	Analysis Requested
	NA	100 Standard	NA		NA
10:25		END OF Spill 16" Deep		146	8015, 8021
10:50		MIDDLE OF Spill 30" Deep		107	8015, 8021
11:20		Beginning of Spill 40" Deep		66.4	8015, 8021

Name (Print) KURT HOEKSTRA Date 11-6-12

Name (Signature) Kurt Hoekstra Company XTO

Company Name/Address:

XTO Energy - San Juan Division

382 County Road 3100
Aztec.NM 87410

Billing Information:

XTO Energy Inc
Accounts Payable
382 CR 3100

Aztec,NM 87410

Analysis/Container/Preservative

Chain of Custody Page ___ of ___

G056

ESC LAB SCIENCES
12065 Lebanon Road
Mt. Juliet, TN 37122

Phone: (800) 767-5859
Phone: (615) 758-5858
Fax: (615) 758-5859

Report to: JAMES McDANIEL, KURT HOEKSTRA, LOGAN HIXON

Email to:

Project Description: BREECH A #132 R

City/Sate Collected

Phone: (505) 333-3100

FAX:

Client Project #:

ESC Key:

Collected by: (print) KURT

Site/Facility ID#:

P.O.#:

Collected by (signature): Kurt Hoekstra

Immediately Packed on Ice N ___ Y

Rush? (Lab MUST Be Notified)
X Same Day.......200%
___ Next Day........100%
___ Two Day........50%
___ Three Day........25%

Date Results Needed:

Email? __No X Yes

FAX? __No __Yes

CoCode XTORNM (lab use only)

Template/Prelogin

Shipped Via:

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	8015	8021						Remarks/Contaminant	Sample # (lab only)
END OF Spill 16" DEEP		SS	16"	11-6	10:25	1	X	X							L60V671-01/04
MIDDLE OF Spill 30" Deep			30"		10:50	1	X	X							02/05
BEGINNING of Spill 40" Deep			40"		11:20	1	X	X							03/06

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other________

pH ________ Temp ________

Remarks:

5040063676256 Flow ________ Other ________

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐ ____		Condition: (lab use only)
Kurt Hoekstra	11-6	1:50				OK
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 3.1	Bottles Received: 3-4oz	CoC Seals Intact ___Y ___N ✓ NA
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 11-7-12	Time: 0900	pH Checked:	NCF:

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

Report Summary

Thursday November 08, 2012

Report Number: L604671
Samples Received: 11/07/12
Client Project:

Description: Breech A 132R

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 R Richards
Daphne Richards , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197, FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704/BIO041, ND - R-140. NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1, TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364

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.

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

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

November 08,2012

ESC Sample # : L604671-01

Date Received : November 07, 2012
Description : Breech A 132R

Site ID :

Sample ID : END OF SPILL 16IN DEEP

Project # :

Collected By : Kurt Hoekstra
Collection Date : 11/06/12 10:25

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	87.7	0.100	%	2540G	11/08/12	1
Benzene	BDL	0.0028	mg/kg	8021/8015	11/07/12	5
Toluene	BDL	0.028	mg/kg	8021/8015	11/07/12	5
Ethylbenzene	BDL	0.0028	mg/kg	8021/8015	11/07/12	5
Total Xylene	BDL	0.0086	mg/kg	8021/8015	11/07/12	5
TPH (GC/FID) Low Fraction	BDL	0.57	mg/kg	GRO	11/07/12	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	96.0		% Rec.	8021/8015	11/07/12	5
a,a,a-Trifluorotoluene(PID)	103.		% Rec.	8021/8015	11/07/12	5

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:

The reported analytical results relate only to the sample submitted
Reported: 11/08/12 15:00 Printed: 11/08/12 15:04

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REPORT OF ANALYSIS

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

November 08,2012

ESC Sample # : L604671-02

Site ID :

Project # :

Date Received : November 07, 2012
Description : Breech A 132R

Sample ID : MIDDLE OF SPILL 30IN DEEP

Collected By : Kurt Hoekstra
Collection Date : 11/06/12 10:50

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	89.0	0.100	%	2540G	11/08/12	1
Benzene	BDL	0.0028	mg/kg	8021/8015	11/07/12	5
Toluene	BDL	0.028	mg/kg	8021/8015	11/07/12	5
Ethylbenzene	BDL	0.0028	mg/kg	8021/8015	11/07/12	5
Total Xylene	BDL	0.0084	mg/kg	8021/8015	11/07/12	5
TPH (GC/FID) Low Fraction	BDL	0.56	mg/kg	GRO	11/07/12	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	96.6		% Rec.	8021/8015	11/07/12	5
a,a,a-Trifluorotoluene(PID)	103.		% Rec.	8021/8015	11/07/12	5

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:

The reported analytical results relate only to the sample submitted
Reported: 11/08/12 15:00 Printed: 11/08/12 15:04

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REPORT OF ANALYSIS

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

November 08,2012

ESC Sample # : L604671-03

Date Received : November 07, 2012
Description : Breech A 132R

Site ID :

Sample ID : BEGINNING OF SPILL 40IN DEEP

Project # :

Collected By : Kurt Hoekstra
Collection Date : 11/06/12 11:20

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	90.9	0.100	%	2540G	11/08/12	1
Benzene	BDL	0.0028	mg/kg	8021/8015	11/07/12	5
Toluene	BDL	0.028	mg/kg	8021/8015	11/07/12	5
Ethylbenzene	BDL	0.0028	mg/kg	8021/8015	11/07/12	5
Total Xylene	BDL	0.0082	mg/kg	8021/8015	11/07/12	5
TPH (GC/FID) Low Fraction	BDL	0.55	mg/kg	GRO	11/07/12	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	95.6		% Rec.	8021/8015	11/07/12	5
a,a,a-Trifluorotoluene(PID)	103.		% Rec.	8021/8015	11/07/12	5

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:

The reported analytical results relate only to the sample submitted
Reported: 11/08/12 15:00 Printed: 11/08/12 15:04

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REPORT OF ANALYSIS

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

November 08,2012

ESC Sample # : L604671-04

Site ID :

Project # :

Date Received : November 07, 2012
Description : Breech A 132R

Sample ID : END OF SPILL 16IN DEEP

Collected By : Kurt Hoekstra
Collection Date : 11/06/12 10:25

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	87.7	0.100	%	2540G	11/08/12	1
TPH (GC/FID) High Fraction	6.3	4.6	mg/kg	3546/DRO	11/08/12	1
Surrogate recovery(%)						
o-Terphenyl	66.0		% Rec.	3546/DRO	11/08/12	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:

The reported analytical results relate only to the sample submitted
Reported: 11/08/12 15:00 Printed: 11/08/12 15:04

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REPORT OF ANALYSIS

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

November 08,2012

ESC Sample # : L604671-05

Date Received : November 07, 2012
Description : Breech A 132R

Site ID :

Sample ID : MIDDLE OF SPILL 30IN DEEP

Project # :

Collected By : Kurt Hoekstra
Collection Date : 11/06/12 10:50

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	89.0	0.100	%	2540G	11/08/12	1
TPH (GC/FID) High Fraction	5.4	4.5	mg/kg	3546/DRO	11/08/12	1
Surrogate recovery(%)						
o-Terphenyl	67.7		% Rec.	3546/DRO	11/08/12	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:

The reported analytical results relate only to the sample submitted
Reported: 11/08/12 15:00 Printed: 11/08/12 15:04

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REPORT OF ANALYSIS

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

November 08,2012

ESC Sample # : L604671-06

Site ID :

Project # :

Date Received : November 07, 2012
Description : Breech A 132R

Sample ID : BEGINNING OF SPILL 40IN DEEP

Collected By : Kurt Hoekstra
Collection Date : 11/06/12 11:20

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	90.9	0.100	%	2540G	11/08/12	1
TPH (GC/FID) High Fraction	BDL	4.4	mg/kg	3546/DRO	11/08/12	1
Surrogate recovery(%)						
o-Terphenyl	70.8		% Rec.	3546/DRO	11/08/12	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:

The reported analytical results relate only to the sample submitted
Reported: 11/08/12 15:00 Printed: 11/08/12 15:04

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James McDaniel
382 County Road 3100

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Quality Assurance Report
Level II

L604671

November 08, 2012

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Benzene	< .0005	mg/kg			WG621790	11/07/12 07:09
Ethylbenzene	< .0005	mg/kg			WG621790	11/07/12 07:09
Toluene	< .005	mg/kg			WG621790	11/07/12 07:09
TPH (GC/FID) Low Fraction	< .1	mg/kg			WG621790	11/07/12 07:09
Total Xylene	< .0015	mg/kg			WG621790	11/07/12 07:09
a,a,a-Trifluorotoluene(FID)		% Rec.	96.12	59-128	WG621790	11/07/12 07:09
a,a,a-Trifluorotoluene(PID)		% Rec.	103.1	54-144	WG621790	11/07/12 07:09
Total Solids	< .1	%			WG621775	11/08/12 10:05
TPH (GC/FID) High Fraction	< 4	mg/kg			WG621819	11/08/12 08:04
o-Terphenyl		% Rec.	67.45	50-150	WG621819	11/08/12 08:04

Duplicate

Analyte	Units	Result	Duplicate	RPD	Limit	Ref Samp	Batch
Total Solids	%	91.0	90.9	0.490	5	L604671-06	WG621775

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
Benzene	mg/kg	.05	0.0469	93.8	76-113	WG621790
Ethylbenzene	mg/kg	.05	0.0500	99.9	78-115	WG621790
Toluene	mg/kg	.05	0.0478	95.6	76-114	WG621790
Total Xylene	mg/kg	.15	0.146	97.0	81-118	WG621790
a,a,a-Trifluorotoluene(PID)				102.4	54-144	WG621790
TPH (GC/FID) Low Fraction	mg/kg	5.5	6.03	110.	67-135	WG621790
a,a,a-Trifluorotoluene(FID)				102.3	59-128	WG621790
Total Solids	%	50	50.0	100.	85-115	WG621775
TPH (GC/FID) High Fraction	mg/kg	60	47.7	79.6	50-150	WG621819
o-Terphenyl				74.34	50-150	WG621819

Laboratory Control Sample Duplicate

Analyte	Units	Result	Ref	%Rec	Limit	RPD	Limit	Batch
Benzene	mg/kg	0.0492	0.0469	98.0	76-113	4.83	20	WG621790
Ethylbenzene	mg/kg	0.0521	0.0500	104.	78-115	4.13	20	WG621790
Toluene	mg/kg	0.0496	0.0478	99.0	76-114	3.68	20	WG621790
Total Xylene	mg/kg	0.151	0.146	100.	81-118	3.44	20	WG621790
a,a,a-Trifluorotoluene(PID)				102.6	54-144			WG621790
TPH (GC/FID) Low Fraction	mg/kg	6.28	6.03	114.	67-135	4.02	20	WG621790
a,a,a-Trifluorotoluene(FID)				102.4	59-128			WG621790
TPH (GC/FID) High Fraction	mg/kg	46.6	47.7	78.0	50-150	2.35	20	WG621819
o-Terphenyl				73.91	50-150			WG621819

Matrix Spike

Analyte	Units	MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Benzene	mg/kg	0.237	0	.05	94.6	32-137	L604671-01	WG621790
Ethylbenzene	mg/kg	0.242	0	.05	96.7	10-150	L604671-01	WG621790
Toluene	mg/kg	0.235	0	.05	94.1	20-142	L604671-01	WG621790

* 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
Level II

L604671

November 08, 2012

Matrix Spike

Analyte	Units	MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Total Xylene	mg/kg	0.699	0	.15	93.3	16-141	L604671-01	WG621790
a,a,a-Trifluorotoluene(PID)					102.4	54-144		WG621790
TPH (GC/FID) Low Fraction	mg/kg	26.1	0	5.5	94.8	55-109	L604671-01	WG621790
a,a,a-Trifluorotoluene(FID)					100.4	59-128		WG621790
TPH (GC/FID) High Fraction	mg/kg	38.1	0	60	63.4	50-150	L604552-02	WG621819
o-Terphenyl					56.73	50-150		WG621819

Matrix Spike Duplicate

Analyte	Units	MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
Benzene	mg/kg	0.232	0.237	93.0	32-137	1.78	39	L604671-01	WG621790
Ethylbenzene	mg/kg	0.238	0.242	95.3	10-150	1.48	44	L604671-01	WG621790
Toluene	mg/kg	0.230	0.235	92.2	20-142	2.10	42	L604671-01	WG621790
Total Xylene	mg/kg	0.689	0.699	91.8	16-141	1.54	46	L604671-01	WG621790
a,a,a-Trifluorotoluene(PID)				102.1	54-144				WG621790
TPH (GC/FID) Low Fraction	mg/kg	27.8	26.1	101.	55-109	6.50	20	L604671-01	WG621790
a,a,a-Trifluorotoluene(FID)				101.0	59-128				WG621790
TPH (GC/FID) High Fraction	mg/kg	38.0	38.1	63.3	50-150	0.221	20	L604552-02	WG621819
o-Terphenyl				55.97	50-150				WG621819

Batch number /Run number / Sample number cross reference

WG621790: R2431037: L604671-01 02 03
WG621775: R2432098: L604671-01 02 03 04 05 06
WG621819: R2432557: L604671-04 05 06

* * 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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Quality Assurance Report
Level II

L604671

November 08, 2012

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.