District | 1625 N. French Dr., Hobbs, NM 88240 District.ll 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV

State of New Mexico Energy Minerals and Natural Resources

Revised October 10, 2003

Form C-141

Oil Conservation Division 1220 South St. Francis Dr. Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back

1220 S. St. Fran	icis Dr., Sant	a Fe, NM 8/505	,	Sa	anta Fe	, NM 875	505					side of form
			Rel	ease Notific	cation	and Co	orrective A	ction	1			<u> </u>
						OPERA'	TOR		☐ Initia	al Report	\boxtimes	Final Report
Name of Co	ompany: X	TO Energy,	Inc.				nes McDaniel			a. report		- mar report
		00, Aztec, N		ico 87410			No.: (505) 333-3	3701				
		er #7A (30-					e: Gas Well (M		de)			
Surface Ow	ner: Feder	al		Mineral (Owner:				Lease N	lo.:		
		·				OF RE	LEACE					
Unit Letter B	Section 26	Township 32N	Range 9W	Feet from the 1180	North/	South Line FNL	Feet from the 2015	1	Vest Line FEL	County San Juan		
	<u> </u>	<u> </u>		Latitude: 3	6.95949	Longitud	le: -107.74719	l,				
				NAT	ΓURE	OF REL	EASE					
Type of Rele	ase: Tank l	Leak				Volume of	Release: 36.5 BE	BLS		Recovered: 1		
		w Grade Tank				5/4/2010	Hour of Occurrenc	:e:	Date and 5/4/2010	Hour of Dis	covery:	:
Was Immedia	ate Notice (Yes [] No ☐ Not R	equired	If YES, To Whom? Brandon Powell OIL COMS. DIV						
By Whom? J	ames McDa	aniel				Date and I	Hour: 5/5/2010 1	7:58		TICT		
Was a Water	course Read	ched?	Yes 🛭] No		If YES, Volume Impacting the Watercourse.						
If a Watercou	urse was Im	pacted, Descr	ibe Fully.	*								
A below grad the soil. The wash at less to was removed	Describe Cause of Problem and Remedial Action Taken.* A below grade tank leaked its contents into the cellar due to a hole in the bottom of the tank. Approximately 36.5 BBLs of produced water was lost into the soil. The site was ranked pursuant to the NMOCD Guidelines for the Remediation of Leaks, Spills and Releases. The site was rankled a 10 due to a wash at less than 1,000 feet from the location. This set the closure standard to 1,000 mg/kg TPH, 10 mg/kg benzene and 50 mg/kg total BTEX. The tank was removed, and a small amount of visible oil was removed from the surface. The pit tank will be closed and replaced with an above ground storage tank. A BGT closure report will follow.					0 due to a C. The tank						
Describe Area Affected and Cleanup Action Taken.* A sample was collected from the spill area around and under the former location of the BGT. The sample was analyzed for TPH via USEPA Method 8015, for BTEX via USEPA Method 8021B and for total chlorides. The sample returned results below the 1,000 mg/kg TPH standard via USEPA Method 8015, the 10 mg/kg benzene standard and the 50 mg/kg total BTEX standard determined for this site. No further excavation is necessary. The tank will be replaced with an above grade tank pending the approval of the closure plan for this site. Analytical results are attached for your reference.												
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 regulation.												
		1	1	/			OIL CON	SERV	ATION	DIVISIO	<u>N</u>	
Signature: Printed Name	e: James M	cDaniel		/		Approved by District Supervisor: Franchen Pougli For: CP			2			
Title: EH&S		e Damei				Approval Da			Expiration			
					1							

Conditions of Approval:

Phone: 505-333-3701

* Attach Additional Sheets If Necessary

Date: 5/13/2010

E-mail Address: James McDaniel@xtoenergy.com

nBP1026552932

Attached





EPA METHOD 8015 Modified Nonhalogenated Volatile Organics **Total Petroleum Hydrocarbons**

•			
Client:	XTO	Project #:	98031-0528
Sample ID:	Spill Composite	Date Reported:	05-07-10
Laboratory Number:	54037	Date Sampled:	05-05-10
Chain of Custody No:	9286	Date Received:	05-05-10
Sample Matrix:	Soil	Date Extracted:	05-05-10
Preservative:	Cool	Date Analyzed:	05-06-10
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	183	0.2
Diesel Range (C10 - C28)	136	0.1
Total Petroleum Hydrocarbons	319	0.2

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:

Gardner #7A



EPA Method 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Quality Assurance Report

.)					
Client:	QA/QC		Project #:		N/A
Sample ID:	05-06-10 QA/0	QC	Date Reported:		05-07-10
Laboratory Number:	53963		Date Sampled:		N/A
Sample Matrix:	Methylene Chlo	ride	Date Received:		N/A
Preservative:	N/A		Date Analyzed:		05-06-10
Condition:	N/A		Analysis Reques	sted:	TPH
	I-Cal Date	I-Cal RF:	C-Gal RF:	% Difference	Accept: Range
Gasoline Range C5 - C10	05-07-07	9.6809E+002	9.6848E+002	0.04%	0 - 15%
Diesel Range C10 - C28	05-07-07	1.0228E+003	1.0232E+003	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		0.2	
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept: Range	
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%	
Diesel Range C10 - C28	ND	ND	0.0%	0 - 30%	
Spike Conc. (mg/Kg)	Sample	Spike Added	- Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	ND	250	260	104%	75 - 125%
Diesel Range C10 - C28	ND	250	253	101%	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 53957, 53958, 53963, 53964, 53986 - 53988, 54013, 54014 and 54037.

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Review



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	XTO	Project #:	98031-0528
Sample ID:	Spill Composite	Date Reported:	05-07-10
Laboratory Number:	54037	Date Sampled:	05-05-10 ⁻
Chain of Custody:	9286	Date Received:	05-05-10
Sample Matrix:	Soil	Date Analyzed:	05-06-10
Preservative:	Cool	Date Extracted:	05-05-10
Condition:	Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)	
_			
Benzene	6.2	0.9	
Toluene	47.2	1.0	
Ethylbenzene	9.8	1.0	
p,m-Xylene	82.2	1.2	
o-Xylene	31.5	0.9	
Total BTEX	177		

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	93.4 %
	1,4-difluorobenzene	91.6 %
	Bromochlorobenzene	96.8 %

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:

Gardner #7A

Analyst /

Review Daller



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	05-06-BTEX QA/QC	Date Reported:	05-07 - 10
Laboratory Number:	53957	Date Sampted:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	05-06-10
Condition:	N/A	Analysis:	BTEX

	l-CaliRE:		%Diff. je 0 - 15%		Detect: Limit
Benzene	9.4068E+005	9.4257E+005	0.2%	ND	0.1
Toluene	8.6679E+005	8.6852E+005	0.2%	ND	0.1
Ethylbenzene	7.7887E+005	7.8043E+005	0.2%	ND	0.1
p,m-Xylene	1.8732E+006	1.8769E+006	0.2%	ND	0.1
o-Xylene	7.2427E+005	7.2572E+005	0.2%	ND	0.1

Duplicate Conc. (ug/Kg)	Sample Du	plicate	%Diff.	Accept Range	Detect: Limit
Benzene	ND	ND	0.0%	0 - 30%	0.9
Toluene	ND	ND	0.0%	0 - 30%	1.0
Ethylbenzene	ND	ND	0.0%	0 - 30%	1.0
p,m-Xylene	ND	ND	0.0%	0 - 30%	1.2
o-Xylene	ND	ND	0.0%	0 - 30%	0.9

Spike Conc. (ug/Kg)	Sample Amo	unt Spiked Spik	ked Sample	% Recovery	™Accept Range
Benzene	ND	50.0	49.2	98.4%	39 - 150
Toluene	ND	50.0	48.1	96.2%	46 - 148
Ethylbenzene	ND	50.0	49.2	98.5%	32 - 160
p,m-Xylene	ND	100	101	101%	46 - 148
o-Xylene	ND	50.0	48.6	97.1%	46 - 148

ND - Parameter not detected at the stated detection limit.

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 53957, 53958, 53986 - 53988, 54013 - 54014 and 54037.

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	XTO	Project #:	98031-0528
Sample ID:	Spill Composite	Date Reported:	05-07-10
Laboratory Number:	54037	Date Sampled:	05-05-10
Chain of Custody No:	9286	Date Received:	05-05-10
Sample Matrix:	Soil	Date Extracted:	05-07-10
Preservative:	Cool	Date Analyzed:	05-07-10
Condition:	Intact	Analysis Needed:	TPH-418.1

		Det.
	Concentration	Limit
Parameter	(mg/kg)	(mg/kg)

Total Petroleum Hydrocarbons

1,070

21.6

ND = Parameter not detected at the stated detection limit.

References:

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water

and Waste, USEPA Storet No. 4551, 1978.

Comments:

Gardner #7A

Analyst

Mustum Waller Review



EPA METHOD 418.1 TOTAL PETROLEUM HYROCARBONS QUALITY ASSURANCE REPORT

Client:		
Sample ID:	•1	

QA/QC **QA/QC** Project #:

N/A

Laboratory Number:

05-07-TPH.QA/QC 54038

Date Reported:

05-07-10.

Sample Matrix:

Freon-113

Date Sampled:

N/A

Preservative:

N/A

Date Analyzed:

05-07-10 05-07-10

Condition:

N/A

Date Extracted: Analysis Needed:

TPH

Calibration

I-Cal Date 04/22/2010 C-Cal Date 05-07-10

I-Cal RF: 1,690

C-Cal RF: % Difference Accept. Range

1,720

1.8%

Blank Conc. (mg/Kg)

+/- 10%

TPH

Concentration ND

Detection Limit

Duplicate Conc. (mg/Kg)

Duplicate

% Difference

21.6

Accept. Range

TPH

Sample 24.3

25.7

5.8%

+/- 30%

Spike Conc. (mg/Kg) **TPH**

Sample 24.3

Spike Added Spike Result % Recovery Accept Range 2,000

1,790

88.4%

80 - 120%

ND = Parameter not detected at the stated detection limit.

References:

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water

and Waste, USEPA Storet No. 4551, 1978.

Comments:

QA/QC for Samples 54037 - 54043, 54049, 54050 and 54073.

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Chloride

XTO Client: Project #: 98031-0528 Sample ID: Spill Composite Date Reported: 05-06-10 Lab ID#: 54036 05-05-10 Date Sampled: Sample Matrix: Soil Date Received: 05-05-10 -Preservative: Cool Date Analyzed: 05-06-10 Condition: Chain of Custody: 9285 Intact

Parameter

Concentration (mg/Kg)

Total Chloride

50

Reference:

U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983. Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments:

Gardner #7A

Analyst

Review

CHAIN OF CUSTODY RECORD

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