

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

30-045-30099

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: Navajo 26 #1 (30-045-30099)	Facility Type: Gas Well (Fruitland Coal)

Surface Owner: Navajo Tribal	Mineral Owner:	Lease No.: 14-20-603-2172
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
L	26	29N	14W	1415	FSL	1150	FWL	San Juan

Latitude: 36.6938 Longitude: -108.2840

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: 15 bbls	Volume Recovered: none
Source of Release: Pipeline Failure	Date and Hour of Occurrence: April 20, 2012 - 14:00	Date and Hour of Discovery: April 20, 2012 - 14:00
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom? RCVD MAY 7 '12	
By Whom?	Date and Hour: OIL CONS DIV	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. DIST. 3	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

On April 20, 2012, a XTO lease operator noticed a produced water spill at the Navajo 26 #1 well site. The waterline parted below the ground surface near the well head, allowing approximately 15 bbls of produced water to flow to the surface. The water then flowed across the location to a pipeline right of way (ROW). The spill traveled approximately 100 feet down the ROW before stopping. The site was then ranked according to the NMOCD Guidelines for the Remediation of Leaks, Spills and Releases. The site was ranked a 10, due to an unnamed wash at less than 1,000 feet from the location. This set the closure standard to 1,000 ppm TPH, 10 ppm benzene, and 50 ppm total BTEX.

Describe Area Affected and Cleanup Action Taken.*

On April 20, 2012, composite samples were collected of the spill area on the ROW, and on the well pad. A sample was also collected from the background for chlorides. The spill composite samples were analyzed for DRO/GRO via USEPA Method 8015, BTEX via USEPA Method 8021, and for total chlorides. The background sample was analyzed for chlorides only. The samples returned results below the regulatory standards determined for this site, but returned chloride results of 10,300 ppm on the well pad, and 8,350 ppm in the ROW, compared to a background of 60 ppm. Due to these elevated chloride levels; Mr. Bill Freeman with the NNEPA was emailed the laboratory results on April 24th. On May 2, Mr. Freeman, with the NNEPA, discussed the results and agreed that due to the low volume of water spilled, the depth to groundwater and the distance to surface water; that the chloride levels did not need to be remediated further. No additional activities will be taken regarding this incident. Analytical results and a field sheet detailing on-site activities 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 regulations.

Signature:

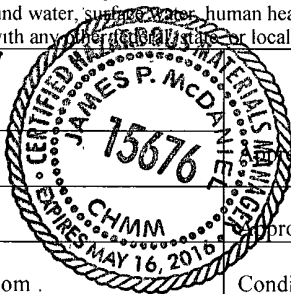
Printed Name: James McDaniel

Title: EH&S Supervisor, CHMM # 15676

E-mail Address: James_McDaniel@xtoenergy.com

Date: 5/2/2012

Phone: 505-333-3701



OIL CONSERVATION DIVISION

Approved by District Supervisor:

Approval Date: 5/11/2012

Expiration Date:

Conditions of Approval:

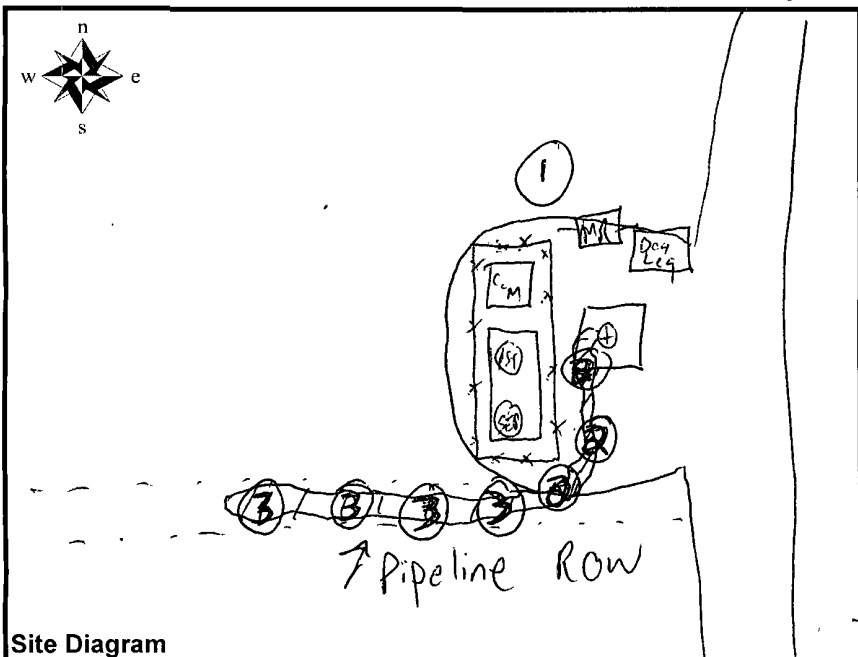

Attached ☐

nJK1213233301



XTO Energy On-Site Form

Well Name Navajo 26 #1 API # 30-045-30099
Section 26L Township 29N Range 14W County San Juan
Contractors On-Site None Time On-Site 15¹⁰ Time Off-Site 15⁵⁰
Spill Amount 15 bbls Spilled (Oil / Produced Water / Other)
Land Use (Grazing / Residential / (Tribe) Navajo) Excavation x x deep

 <p>Site Diagram</p>	 <p>Sample Location</p>
<p>Comments <u>No water left Right of Way. ROW belongs to XTO</u></p>	<p>Number of Photos Taken <u> </u></p>

Samples

Time	Sample #	Sample Description	Characteristics	OVM (ppm)	Analysis Requested
	NA	100 Standard	NA		NA
1530	1	Background	Sandy, Dry	—	chlorides
1535	2	Spill Comp Wellpad	Sandy, wet, rusty	—	chlorides, 8015, 8021
1540	3	Spill Comp ROW	Sandy, wet, rusty	—	chlorides, 8015, 8021

Name (Print) James McDaniel Date 4/20/10
Name (Signature) [Signature] Company XTO

Client:	XTO	Project #:	98031-0528
Sample ID:	Spill Composite Wellpad	Date Reported:	04-23-12
Laboratory Number:	61841	Date Sampled:	04-20-12
Chain of Custody No:	13753	Date Received:	04-20-12
Sample Matrix:	Soil	Date Extracted:	04-20-12
Preservative:		Date Analyzed:	04-23-12
Condition:	Intact	Analysis Requested:	8015 TPH

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

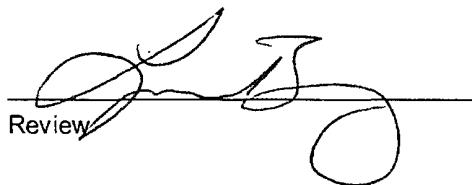
ND - Parameter not detected at the stated detection limit.

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

Comments: **Navajo 26-1**



Analyst



Review



EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons


Client:	XTO	Project #:	98031-0528
Sample ID:	Spill Composite Row	Date Reported:	04-23-12
Laboratory Number:	61842	Date Sampled:	04-20-12
Chain of Custody No:	13753	Date Received:	04-20-12
Sample Matrix:	Soil	Date Extracted:	04-20-12
Preservative:		Date Analyzed:	04-23-12
Condition:	Intact	Analysis Requested:	8015 TPH

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

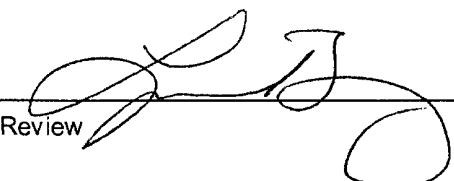
ND - Parameter not detected at the stated detection limit.

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

Comments: **Navajo 26-1**



Analyst



Review



EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	0423TCAL QA/QC	Date Reported:	04-23-12
Laboratory Number:	61841	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	04-23-12
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF	C-Cal RF	% Difference	Accept. Range
Gasoline Range C5 - C10	04-23-12	9.9960E+02	1.0000E+03	0.04%	0 - 15%
Diesel Range C10 - C28	04-23-12	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	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	264	106%	75 - 125%
Diesel Range C10 - C28	ND	250	259	104%	75 - 125%

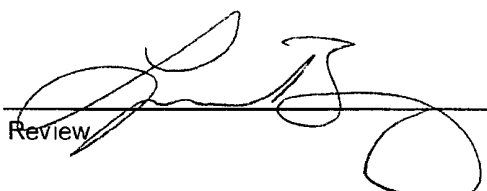
ND - Parameter not detected at the stated detection limit.

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

Comments: QA/QC for Samples 61841-61842



Analyst



Review

Client:	XTO	Project #:	98031-0528
Sample ID:	Spill Composite Wellpad	Date Reported:	04-23-12
Laboratory Number:	61841	Date Sampled:	04-20-12
Chain of Custody:	13753	Date Received:	04-20-12
Sample Matrix:	Soil	Date Analyzed:	04-23-12
Preservative:		Date Extracted:	04-20-12
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	50

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	16.1	10.0
Toluene	33.5	10.0
Ethylbenzene	ND	10.0
p,m-Xylene	29.0	10.0
o-Xylene	12.9	10.0
Total BTEX	91.4	


ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	93.8 %
	1,4-difluorobenzene	99.0 %
	Bromochlorobenzene	100 %

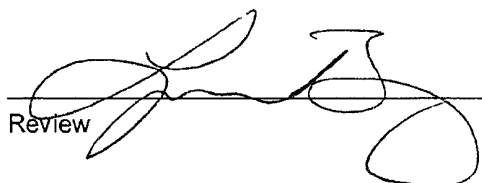
References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

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

Comments: Navajo 26-1



 Analyst



 Review



EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	XTO	Project #:	98031-0528
Sample ID:	Spill Composite Row	Date Reported:	04-23-12
Laboratory Number:	61842	Date Sampled:	04-20-12
Chain of Custody:	13753	Date Received:	04-20-12
Sample Matrix:	Soil	Date Analyzed:	04-23-12
Preservative:		Date Extracted:	04-20-12
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	50

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	10.0
Toluene	20.8	10.0
Ethylbenzene	ND	10.0
p,m-Xylene	28.1	10.0
o-Xylene	12.3	10.0
Total BTEX	61.2	


ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	101 %
	1,4-difluorobenzene	101 %
	Bromochlorobenzene	100 %


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: Navajo 26-1



Analyst



Review

Client:	N/A	Project #:	N/A
Sample ID:	0423BCAL QA/QC	Date Reported:	04-23-12
Laboratory Number:	61841	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	04-23-12
Condition:	N/A	Analysis:	BTEX
		Dilution:	50

Calibration and Detection Limits (ug/L)	I-Cal RF	C-Cal RF	%Diff	Blank Conc	Detect Limit
	Accept: Range 0-15%				
Benzene	6.7261E-06	6.7261E-06	0.000	ND	0.2
Toluene	5.1869E-06	5.1869E-06	0.000	ND	0.2
Ethylbenzene	5.1996E-06	5.1996E-06	0.000	ND	0.2
p,m-Xylene	3.8648E-06	3.8648E-06	0.000	ND	0.2
o-Xylene	5.4789E-06	5.4789E-06	0.000	ND	0.2

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff	Accept Range	Detect Limit
Benzene	16.1	16.4	0.02	0 - 30%	10
Toluene	33.5	34.4	0.03	0 - 30%	10
Ethylbenzene	ND	ND	0.00	0 - 30%	10
p,m-Xylene	29.0	29.4	0.01	0 - 30%	10
o-Xylene	12.9	13.0	0.01	0 - 30%	10

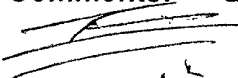
Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	16.1	2500	2420	96.2	39 - 150
Toluene	33.5	2500	2490	98.3	46 - 148
Ethylbenzene	ND	2500	2460	98.4	32 - 160
p,m-Xylene	29.0	5000	4970	98.8	46 - 148
o-Xylene	12.9	2500	2500	99.5	46 - 148

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 61713-61719 and 61841-61842


 Analyst


 Review


Client:	XTO	Project #:	98031-0528
Sample ID:	Background	Date Reported:	04-23-12
Lab ID#:	61840	Date Sampled:	04-20-12
Sample Matrix:	Soil	Date Received:	04-20-12
Preservative:		Date Analyzed:	04-23-12
Condition:	Intact	Chain of Custody:	13753

Parameter	Concentration (mg/Kg)
Total Chloride	60

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: **Navajo 26-1**



Analyst

Review

Client:	XTO	Project #:	98031-0528
Sample ID:	Spill Composite Wellpad	Date Reported:	04-23-12
Lab ID#:	61841	Date Sampled:	04-20-12
Sample Matrix:	Soil	Date Received:	04-20-12
Preservative:		Date Analyzed:	04-23-12
Condition:	Intact	Chain of Custody:	13753

Parameter	Concentration (mg/Kg)
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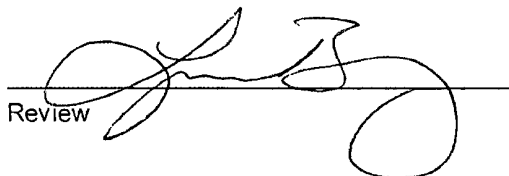
Total Chloride**10,300**

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: **Navajo 26-1**



Analyst



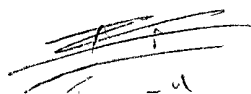
Review

Client:	XTO	Project #:	98031-0528
Sample ID:	Spill Composite ROW	Date Reported:	04-23-12
Lab ID#:	61842	Date Sampled:	04-20-12
Sample Matrix:	Soil	Date Received:	04-20-12
Preservative:		Date Analyzed:	04-23-12
Condition:	Intact	Chain of Custody:	13753

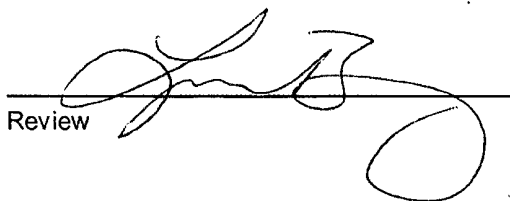
Parameter	Concentration (mg/Kg)
Total Chloride	8,350

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: **Navajo 26-1**




Analyst



Review

13753

Client: XTO			Project Name / Location: Navajo 26-1			ANALYSIS / PARAMETERS															
Email results to: James McDaniel			Sampler Name: J McDaniel			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	
Client Phone No.:			Client No.: 95031-0528																		
Sample No. / Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative																
					HgCl ₂	HCl	CO														
Background	4/20/12	1530	U1840	1/42			X														
Spill composite wellpac	↓	1535	U1841	↓			X	X	X												
Spill composite ROW	↓	1540	U1842	↓			X	X	X												
Relinquished by: (Signature) <i>[Signature]</i>					Date	Time	Received by: (Signature) <i>[Signature]</i>					Date	Time								
Relinquished by: (Signature)					4/20/12	1630	Received by: (Signature)					4-20-12	1630								
Sample Matrix																					
Soil <input checked="" type="checkbox"/> Solid <input type="checkbox"/> Sludge <input type="checkbox"/> Aqueous <input type="checkbox"/> Other <input type="checkbox"/>																					
<input type="checkbox"/> Sample(s) dropped off after hours to secure drop off area.																					
																					
5795 US Highway 64 • Farmington, NM 87401 • 505-632-0615 • Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301 • laboratory@envirotech-inc.com																					