

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: Federal Gas COM H #1E (30-045-26122)	Facility Type: Gas Well (Dakota)

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

Unit Letter G	Section 31	Township 30N	Range 12W	Feet from the 2085	North/South Line FNL	Feet from the 1660	East/West Line FEL	County San Juan
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Latitude: 36.7712 Longitude: -108.1360

NATURE OF RELEASE

Type of Release: Produced Water/Produced Oil	Volume of Release: 35.5 bbls	Volume Recovered: none
Source of Release: Leaking Production Tank	Date and Hour of Occurrence: April 26, 2011	Date and Hour of Discovery: April 26, 2011 - 0900
Was Immediate Notice Given? ☒ Yes ☐ No ☒ Not Required	If YES, To Whom? Brandon Powell	
By Whom? James McDaniel	Date and Hour: April 27, 2011 - 1340	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

RCVD JUN 3 '11
OIL CONS. DIV.
DIST. 3

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

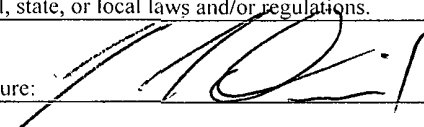
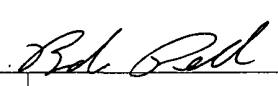
On April 22, 2011, a drop in production tank levels was noted in the production tank at the Federal Gas COM H #1E. On April 26, 2011, the tank was removed to determine the reason for the loss in production. A softball sized hole was discovered in the bottom of the production tank. The tank was removed, and will be replaced. An initial sample was collected beneath the tank for laboratory analysis for DRO/GRO and BTEX, returning results of 7500 ppm TPH, 17 ppm benzene, and 530 ppm total BTEX. The site was then ranked a 60 pursuant to the NMOCD Guidelines for the Remediation of Leaks, Spills and Releases. This set the closure standards to 100 ppm TPH, 100 ppm organic vapors, or 10 ppm benzene and 50 ppm total BTEX.

Describe Area Affected and Cleanup Action Taken.*

On April 27th, 2011 through May 19th 2011, approximately 1,106 cubic yards of impacted soil was excavated and hauled to IEI's NMOCD permitted landfarm. Samples were collected periodically during excavation activities and analyzed for DRO/GRO and BTEX. The final extents of excavation reached approximately 40' x 25' x 23-24' deep. During excavation activities, groundwater was encountered seeping into the excavation area at approximately 22'. The water was purged after the excavation had reached its final extents, and a sample of the water was collected as it filled the excavation. The sample returned results below the WQCC standards for all BTEX constituents. The excavated area at its final extents has clean samples collected from each of the four (4) walls, and from two (2) separate portions of the bottom. Please see the attached Lab Results Table, 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.

OIL CONSERVATION DIVISION

Signature: 	Approved by District Supervisor: 	
Printed Name: James McDaniel, CHMM # 15676	Approval Date: 6-3-11	Expiration Date:
Title: EH&S Coordinator	Conditions of Approval:	Attached ☐
E-mail Address: James_McDaniel@xtoenergy.com	n JK112235413	
Date: 5/31/2011	Phone: 505-333-3701	

Analytical Results

Sample Description	Date	USEPA Method 8015 TPH (ppm)	USEPA Method 8021 Benzene (ppm)	USEPA Method 8021 BTEX (ppm)	OVM (ppm)
NMOCD Standards	NA	100	10	50	100
Bottom Sample @ 15'	4/26/2011	7500	17	530	2000
<i>East Bottom @ 17'</i>	<i>5/10/2011</i>	<i>BDL</i>	<i>NS</i>	<i>NS</i>	<i>17.4</i>
<i>East Wall Composite</i>	<i>5/10/2011</i>	<i>BDL</i>	<i>NS</i>	<i>NS</i>	<i>0</i>
West Bottom @ 21'	5/10/2011	NS	NS	NS	1635
<i>North Wall Composite</i>	<i>5/10/2011</i>	<i>BDL</i>	<i>BDL</i>	<i>BDL</i>	<i>113</i>
Bottom @ 23'	5/11/2011	NS	NS	NS	2805
<i>West Bottom @ 24'</i>	<i>5/11/2011</i>	<i>BDL</i>	<i>BDL</i>	<i>BDL</i>	<i>NS</i>
South Wall Composite	5/11/2011	68.1	BDL	0.486	NS
South Wall Stained Grab	5/11/2011	583	0.304	9.3	NS
<i>West Wall Composite</i>	<i>5/11/2011</i>	<i>BDL</i>	<i>BDL</i>	<i>BDL</i>	<i>NS</i>
<i>South Wall Composite</i>	<i>5/19/2011</i>	<i>5.8</i>	<i>BDL</i>	<i>BDL</i>	<i>1500</i>
Water Sample	5/23/2011	NS	BDL	BDL	NS

NS = Not Samples

BDL = Below Detection Limits

Values in **BOLD** exceed regulatory limits

Samples in *Italics* Represent Closure Samples



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

Report Summary

Thursday April 28, 2011

Report Number: L513053

Samples Received: 04/27/11

Client Project:

Description: Federal Gas Com H 1E

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

April 28, 2011

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

ESC Sample # : L513053-01

Date Received : April 27, 2011
Description : Federal Gas Com H 1E

Site ID : FEDERAL GASS COM H 1E

Sample ID : BOTTOM SAMPLE 15 FT

Project # :

Collected By : James McDaniel
Collection Date : 04/26/11 10:00

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	89		%	2540G	04/28/11	1
Benzene	17.	1.4	mg/kg	8021/8015	04/27/11	2500
Toluene	140	14	mg/kg	8021/8015	04/27/11	2500
Ethylbenzene	33.	1.4	mg/kg	8021/8015	04/27/11	2500
Total Xylene	340	4.2	mg/kg	8021/8015	04/27/11	2500
TPH (GC/FID) Low Fraction	6400	280	mg/kg	GRO	04/27/11	2500
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	102.		% Rec.	8021/8015	04/27/11	2500
a,a,a-Trifluorotoluene(PID)	103.		% Rec.	8021/8015	04/27/11	2500
TPH (GC/FID) High Fraction	1100	90.	mg/kg	3546/DRO	04/28/11	20
Surrogate recovery(%)						
o-Terphenyl	0.00		% Rec.	3546/DRO	04/28/11	20

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 04/28/11 18:02 Printed: 04/28/11 18:03

L513053-01 (DRO) - cannot run at lower dilution

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L513053-01	WG532734	SAMP	o-Terphenyl	R1666735	J7

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J7	Surrogate recovery limits cannot be evaluated; surrogates were diluted out

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

- Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as control samples, matrix spike recoveries, surrogate recoveries, etc.
- Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Difference.
- Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromatography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.
- TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed
04/28/11 at 18:03:04

TSR Signing Reports: 288
R2 - Rush: Next Day

drywt

Sample: L513053-01 Account: XTORNM Received: 04/27/11 09:00 Due Date: 04/28/11 00:00 RPT Date: 04/28/11 18:02



YOUR LAB OF CHOICE

XTO Energy - San Juan Division
James McDaniel
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Quality Assurance Report
Level II

L513053

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April 28, 2011

Analyte	Result	Laboratory Blank Units	% Rec	Limit	Batch	Date Analyzed
Benzene	< .0005	mg/kg			WG532965	04/27/11 13 51
Ethylbenzene	< .0005	mg/kg			WG532965	04/27/11 13 51
Toluene	< .005	mg/kg			WG532965	04/27/11 13:51
TPH (GC/FID) Low Fraction	< .1	mg/kg			WG532965	04/27/11 13 51
Total Xylene	< .0015	mg/kg			WG532965	04/27/11 13 51
a,a,a-Trifluorotoluene (FID)		% Rec	106.9	59-128	WG532965	04/27/11 13 51
a,a,a-Trifluorotoluene (PID)		% Rec	103.9	54-144	WG532965	04/27/11 13 51
Total Solids	< 1	%			WG533054	04/28/11 11:18
TPH (GC/FID) High Fraction	< 4	ppm			WG532734	04/28/11 08.49
o-Terphenyl		% Rec	78.91	50-150	WG532734	04/28/11 08:49

Analyte	Units	Duplicate Result	Duplicate	RPD	Limit	Ref Samp	Batch
Total Solids	%	88.0	90.1	2.56	.5	L513065-04	WG533054

Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
Benzene	mg/kg	.05	0.0501	100.	76-113	WG532965
Ethylbenzene	mg/kg	.05	0.0492	98.5	78-115	WG532965
Toluene	mg/kg	.05	0.0495	98.9	76-114	WG532965
Total Xylene	mg/kg	.15	0.151	100.	81-118	WG532965
a,a,a-Trifluorotoluene (FID)				107.0	59-128	WG532965
a,a,a-Trifluorotoluene (PID)				104.0	54-144	WG532965
TPH (GC/FID) Low Fraction	mg/kg	5.5	6.26	114.	67-135	WG532965
a,a,a-Trifluorotoluene (FID)				108.8	59-128	WG532965
a,a,a-Trifluorotoluene (PID)				107.0	54-144	WG532965
Total Solids	%	50	50.0	100.	85-155	WG533054
TPH (GC/FID) High Fraction	ppm	60	43.6	72.6	50-150	WG532734
o-Terphenyl				73.71	50-150	WG532734

Analyte	Units	Laboratory Control Sample Duplicate Result Ref %Rec	Limit	RPD	Limit	Batch
Benzene	mg/kg	0.0496 0.0501 99.0	76-113	1.01	20	WG532965
Ethylbenzene	mg/kg	0.0487 0.0492 97.0	78-115	1.20	20	WG532965
Toluene	mg/kg	0.0486 0.0495 97.0	76-114	1.74	20	WG532965
Total Xylene	mg/kg	0.148 0.151 99.0	81-118	1.67	20	WG532965
a,a,a-Trifluorotoluene (FID)			108.4			WG532965
a,a,a-Trifluorotoluene (PID)			104.8			WG532965
TPH (GC/FID) Low Fraction	mg/kg	6.03 6.26 110.	67-135	3.81	20	WG532965
a,a,a-Trifluorotoluene (FID)			108.7			WG532965
a,a,a-Trifluorotoluene (PID)			106.7			WG532965
TPH (GC/FID) High Fraction	ppm	42.7 43.6 71.0	50-150	2.08	20	WG532734
o-Terphenyl			72.76			WG532734

* 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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XTO Energy - San Juan Division
James McDaniel
382 Road 3100

Aztec, NM 87410

Quality Assurance Report
Level II

L513053

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Est 1970

April 28, 2011

Analyte	Units	MS Res	Matrix Spike			Limit	Ref Samp	Batch
			Ref Res	TV	% Rec			
Benzene	mg/kg	0.0503	0	.05	101	32-137	L513003-01	WG532965
Ethylbenzene	mg/kg	0.0504	0	.05	101	10-150	L513003-01	WG532965
Toluene	mg/kg	0.0505	0	.05	101	20-142	L513003-01	WG532965
Total Xylene	mg/kg	0.155	0	.15	103	16-141	L513003-01	WG532965
a,a,a-Trifluorotoluene(FID)					104.7	59-128		WG532965
a,a,a-Trifluorotoluene(PID)					101.8	54-144		WG532965
TPH (GC/FID) Low Fraction	mg/kg	4.57	0	5.5	83.1	55-109	L513003-01	WG532965
a,a,a-Trifluorotoluene(FID)					99.75	59-128		WG532965
a,a,a-Trifluorotoluene(PID)					106.1	54-144		WG532965
TPH (GC/FID) High Fraction	ppm	38.9	1.38	60	62.5	50-150	L512766-05	WG532734
o-Terphenyl					59.84	50-150		WG532734

Analyte	Units	MSD	Matrix Spike Duplicate		Limit	RPD	Limit	Ref Samp	Batch
			Ref	%Rec					
Benzene	mg/kg	0.0512	0.0503	102	32-137	1.71	39	L513003-01	WG532965
Ethylbenzene	mg/kg	0.0484	0.0504	96.8	10-150	4.18	44	L513003-01	WG532965
Toluene	mg/kg	0.0502	0.0505	100	20-142	0.660	42	L513003-01	WG532965
Total Xylene	mg/kg	0.151	0.155	101	16-141	2.48	46	L513003-01	WG532965
a,a,a-Trifluorotoluene(FID)				106.8	59-128				WG532965
a,a,a-Trifluorotoluene(PID)				102.4	54-144				WG532965
TPH (GC/FID) Low Fraction	mg/kg	4.28	4.57	77.8	55-109	6.59	20	L513003-01	WG532965
a,a,a-Trifluorotoluene(FID)				100.2	59-128				WG532965
a,a,a-Trifluorotoluene(PID)				105.3	54-144				WG532965
TPH (GC/FID) High Fraction	ppm	40.6	38.9	65.3	50-150	4.22	20	L512766-05	WG532734
o-Terphenyl				66.58	50-150				WG532734

Batch number /Run number / Sample number cross reference

WG532965 R1665609: L513053-01
WG533054 R1666437: L513053-01
WG532734 R1666735: L513053-01

* * 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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April 28, 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.



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

Report Summary

Friday May 13, 2011

Report Number: L515631

Samples Received: 05/12/11

Client Project:

Description: Federal Gas COM H # 1E

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 - I-2327, CT - PH-0197, FL - E87487
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AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032008A,
TX - T104704245, OK-9915

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

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REPORT OF ANALYSIS

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

May 13, 2011

Date Received : May 12, 2011
Description : Federal Gas COM H # 1E
Sample ID : EAST BOTTOM 17FT
Collected By : James McDaniel
Collection Date : 05/10/11 10:25

ESC Sample # : L515631-01

Site ID : FEDERAL GAS COM H #1E

Project # :

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	75		%	2540G	05/13/11	1
TPH (GC/FID) Low Fraction	BDL	0.66	mg/kg	8015D/GRO	05/12/11	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene (FID)	97.7		% Rec	602/8015	05/12/11	5
TPH (GC/FID) High Fraction	BDL	5.3	mg/kg	3546/DRO	05/13/11	1
Surrogate recovery (%) o-Terphenyl	78.9		% Rec.	3546/DRO	05/13/11	1

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note.

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Reported: 05/13/11 16:25 Printed: 05/13/11 16:25



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REPORT OF ANALYSIS

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

May 13, 2011

Date Received : May 12, 2011
Description : Federal Gas COM H # 1E
Sample ID : EAST WALL COMPOSITE
Collected By : James McDaniel
Collection Date : 05/10/11 10:20

ESC Sample # : L515631-02

Site ID : FEDERAL GAS COM H #1E

Project # :

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	78.		%	2540G	05/13/11	1
TPH (GC/FID) Low Fraction	BDL	0.64	mg/kg	8015D/GRO	05/12/11	5
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	97.4		% Rec.	602/8015	05/12/11	5
TPH (GC/FID) High Fraction	BDL	5.1	mg/kg	3546/DRO	05/13/11	1
Surrogate recovery(%)						
o-Terphenyl	70.3		% Rec.	3546/DRO	05/13/11	1

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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Reported: 05/13/11 16:25 Printed: 05/13/11 16:25



12065 Lebanon Rd.
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Tax I D 62-0814289

Est 1970

REPORT OF ANALYSIS

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

May 13, 2011

Date Received : May 12, 2011
Description : Federal Gas COM H # 1E

ESC Sample # : L515631-03

Sample ID : NORTH WALL COMP

Site ID : FEDERAL GAS COM H #1E

Collected By : James McDaniel
Collection Date : 05/10/11 11:00

Project # :

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	79.		%	2540G	05/13/11	1
Benzene	BDL	0.0031	mg/kg	8021/8015	05/12/11	5
Toluene	BDL	0.031	mg/kg	8021/8015	05/12/11	5
Ethylbenzene	BDL	0.0031	mg/kg	8021/8015	05/12/11	5
Total Xylene	BDL	0.0094	mg/kg	8021/8015	05/12/11	5
TPH (GC/FID) Low Fraction	BDL	0.63	mg/kg	GRO	05/12/11	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene (FID)	97.8		% Rec.	8021/8015	05/12/11	5
a,a,a-Trifluorotoluene (PID)	102.		% Rec.	8021/8015	05/12/11	5
TPH (GC/FID) High Fraction	BDL	5.0	mg/kg	3546/DRO	05/13/11	1
Surrogate recovery(%)						
o-Terphenyl	72.9		% Rec.	3546/DRO	05/13/11	1

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

This report shall not be reproduced, except in full, without the written approval from ESC.

The reported analytical results relate only to the sample submitted

Reported: 05/13/11 16:25 Printed: 05/13/11 16:25

Summary of Remarks For Samples Printed
05/13/11 at 16:25:29

TSR Signing Reports: 288
R2 - Rush: Next Day

drywt

Sample: L515631-01 Account: XTORNM Received: 05/12/11 09:00 Due Date: 05/13/11 00:00 RPT Date: 05/13/11 16:25

Sample: L515631-02 Account: XTORNM Received: 05/12/11 09:00 Due Date: 05/13/11 00:00 RPT Date: 05/13/11 16:25

Sample L515631-03 Account: XTORNM Received: 05/12/11 09:00 Due Date: 05/13/11 00:00 RPT Date: 05/13/11 16:25



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XTO Energy - San Juan Division
James McDaniel
382 Road 3100

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Quality Assurance Report
Level II

L515631

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May 13, 2011

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
Benzene	< .0005	mg/kg			WG535348	05/12/11 14:54
Ethylbenzene	< .0005	mg/kg			WG535348	05/12/11 14:54
Toluene	< .005	mg/kg			WG535348	05/12/11 14:54
TPH (GC/FID) Low Fraction	< .1	mg/kg			WG535348	05/12/11 14:54
Total Xylene	< .0015	mg/kg			WG535348	05/12/11 14:54
a,a,a-Trifluorotoluene(FID)		% Rec	98.20	59-128	WG535348	05/12/11 14:54
a,a,a-Trifluorotoluene(PID)		% Rec	102.5	54-144	WG535348	05/12/11 14:54
Total Solids	< 1	%			WG535391	05/13/11 12:01
TPH (GC/FID) High Fraction	< 4	ppm			WG535408	05/13/11 09:39
o-Terphenyl		% Rec	91.05	50-150	WG535408	05/13/11 09:39

Analyte	Units	Result	Duplicate	RPD	Limit	Ref Samp	Batch
Total Solids	%	78.0	79.4	1.74	5	L515631-03	WG535391

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
Benzene	mg/kg	.05	0.0492	98.4	76-113	WG535348
Ethylbenzene	mg/kg	.05	0.0485	97.0	78-115	WG535348
Toluene	mg/kg	.05	0.0489	97.8	76-114	WG535348
Total Xylene	mg/kg	.15	0.146	97.3	81-118	WG535348
a,a,a-Trifluorotoluene(PID)				101.6	54-144	WG535348
TPH (GC/FID) Low Fraction	mg/kg	5.5	5.66	103	67-135	WG535348
a,a,a-Trifluorotoluene(FID)				105.4	59-128	WG535348
Total Solids	%	50	50.0	100	85-155	WG535391
TPH (GC/FID) High Fraction	ppm	60	44.7	74.4	50-150	WG535408
o-Terphenyl				75.00	50-150	WG535408

Analyte	Units	Result	Ref	% Rec	Limit	RPD	Limit	Batch
Benzene	mg/kg	0.0495	0.0492	99.0	76-113	0.580	20	WG535348
Ethylbenzene	mg/kg	0.0489	0.0485	98.0	78-115	0.770	20	WG535348
Toluene	mg/kg	0.0487	0.0489	97.0	76-114	0.450	20	WG535348
Total Xylene	mg/kg	0.147	0.146	98.0	81-118	0.500	20	WG535348
a,a,a-Trifluorotoluene(PID)				101.4	54-144			WG535348
TPH (GC/FID) Low Fraction	mg/kg	5.86	5.66	106.	67-135	3.36	20	WG535348
a,a,a-Trifluorotoluene(FID)				105.0	59-128			WG535348
TPH (GC/FID) High Fraction	ppm	47.2	44.7	79.0	50-150	5.55	25	WG535408
o-Terphenyl				76.43	50-150			WG535408

Analyte	Units	MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Benzene	mg/kg	0.227	0	.05	90.9	32-137	L515631-03	WG535348
Ethylbenzene	mg/kg	0.221	0	.05	88.2	10-150	L515631-03	WG535348
Toluene	mg/kg	0.222	0	.05	88.8	20-142	L515631-03	WG535348

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



YOUR LAB OF CHOICE

XTO Energy - San Juan Division
James McDaniel
382 Road 3100

Aztec, NM 87410

Quality Assurance Report
Level II

L515631

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Tax I.D. 62-0814289

Est. 1970

May 13, 2011

Analyte	Units	Matrix Spike				% Rec	Limit	Ref Samp	Batch
		MS Res	Ref Res	TV					
Total Xylene	mg/kg	0.662	0	15	88.2	16-141	L515631-03	WG535348	
a,a,a-Trifluorotoluene (PID)					100.8	54-144		WG535348	
TPH (GC/FID) Low Fraction	mg/kg	19.5	0	5.5	70.9	55-109	L515631-03	WG535348	
a,a,a-Trifluorotoluene (FID)					98.12	59-128		WG535348	
TPH (GC/FID) High Fraction	ppm	43.4	0	60	72.4	50-150	L515631-01	WG535408	
o-Terphenyl					66.01	50-150		WG535408	

Analyte	Units	Matrix Spike Duplicate				Limit	RPD	Limit	Ref Samp	Batch
		MSD	Ref	%Rec						
Benzene	mg/kg	0.223	0.227	89.0	32-137	2.09	39	L515631-03	WG535348	
Ethylbenzene	mg/kg	0.219	0.221	87.8	10-150	0.500	44	L515631-03	WG535348	
Toluene	mg/kg	0.218	0.222	87.1	20-142	1.92	42	L515631-03	WG535348	
Total Xylene	mg/kg	0.654	0.662	87.2	16-141	1.10	46	L515631-03	WG535348	
a,a,a-Trifluorotoluene (PID)				101.2	54-144				WG535348	
TPH (GC/FID) Low Fraction	mg/kg	22.2	19.5	80.6	55-109	12.8	20	L515631-03	WG535348	
a,a,a-Trifluorotoluene (FID)				102.5	59-128				WG535348	
TPH (GC/FID) High Fraction	ppm	46.3	43.4	77.1	50-150	6.31	25	L515631-01	WG535408	
o-Terphenyl				71.54	50-150				WG535408	

Batch number / Run number / Sample number cross reference

WG535348 R1684809 L515631-01 02 03
WG535391: R1685462 L515631-01 02 03
WG535408: R1685850 L515631-01 02 03

* * 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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May 13, 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..



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

Report Summary

Monday May 23, 2011

Report Number: L516947

Samples Received: 05/20/11

Client Project:

Description: Federal Gas COM H 1E

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

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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



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

Client:	XTO	Project #:	98031-0528
Sample ID:	South Wall Stained Grab	Date Reported:	05-12-11
Laboratory Number:	58161	Sampled:	05-11-11
Chain of Custody No:	11727	Date Received:	05-11-11
Sample Matrix:	Soil	Date Extracted:	05-12-11
Preservative:	Cool	Date Analyzed:	05-12-11
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	554	0.2
Diesel Range (C10 - C28)	29.1	0.1
Total Petroleum Hydrocarbons	583	

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: **Federal Gas Com H #1E**



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

Client:	XTO	Project #:	98031-0528
Sample ID:	West Wall Composite	Date Reported:	05-12-11
Laboratory Number:	58162	Sampled:	05-11-11
Chain of Custody No:	11727	Date Received:	05-11-11
Sample Matrix:	Soil	Date Extracted:	05-12-11
Preservative:	Cool	Date Analyzed:	05-12-11
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: **Federal Gas Com H #1E**

5796 US Highway 14, Farmington, NM 87401

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

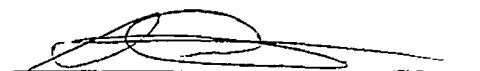
Client:	XTO	Project #:	98031-0528
Sample ID:	West Bottom @ 24'	Date Reported:	05-12-11
Laboratory Number:	58163	Sampled:	05-11-11
Chain of Custody No:	11727	Date Received:	05-11-11
Sample Matrix:	Soil	Date Extracted:	05-12-11
Preservative:	Cool	Date Analyzed:	05-12-11
Condition:	Intact	Analysis Requested:	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: **Federal Gas Com H #1E**



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

Client:	XTO	Project #:	98031-0528
Sample ID:	South Wall Composite	Date Reported:	05-12-11
Laboratory Number:	58164	Sampled:	05-11-11
Chain of Custody No:	11727	Date Received:	05-11-11
Sample Matrix:	Soil	Date Extracted:	05-12-11
Preservative:	Cool	Date Analyzed:	05-12-11
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	56.7	0.2
Diesel Range (C10 - C28)	11.4	0.1
Total Petroleum Hydrocarbons	68.1	

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: **Federal Gas Com H #1E**



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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:	05-12-11 QA/QC	Date Reported:	05-13-11
Laboratory Number:	58161	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	05-12-11
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF	C-Cal RF	% Difference	Accept. Range
Gasoline Range C5 - C10	05/12/11	1.00E+03	1.00E+03	0.04%	0 - 15%
Diesel Range C10 - C28	05/12/11	1.00E+03	1.00E+03	0.04%	0 - 15%

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	2.5	0.2
Diesel Range C10 - C28	84.6	0.1

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Range
Gasoline Range C5 - C10	554	532	4.09%	0 - 30%
Diesel Range C10 - C28	29.1	30.4	4.78%	0 - 30%

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	554	250	657	81.6%	75 - 125%
Diesel Range C10 - C28	29.1	250	288	103%	75 - 125%

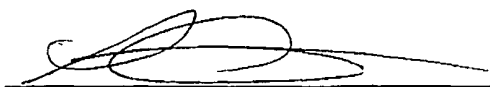
ND - Parameter not detected at the stated detection limit.

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

Comments: QA/QC for Samples 58154-58156, 58161-58165



Analyst



Review

**EPA METHOD 8021
AROMATIC VOLATILE ORGANICS**

Client:	XTO	Project #:	98031-0528
Sample ID:	South Wall Stained Grab	Date Reported:	05-12-11
Laboratory Number:	58161	Date Sampled:	05-11-11
Chain of Custody:	11727	Date Received:	05-11-11
Sample Matrix:	Soil	Date Analyzed:	05-12-11
Preservative:	Cool	Date Extracted:	05-12-11
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	10

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	304	0.9
Toluene	2,730	1.0
Ethylbenzene	708	1.0
p,m-Xylene	4,550	1.2
o-Xylene	1,010	0.9
Total BTEX	9,300	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	101 %
	1,4-difluorobenzene	96.8 %
	Bromochlorobenzene	99.1 %

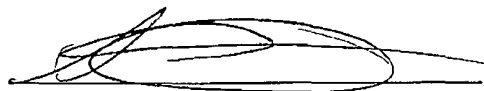
References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

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

Comments: Federal Gas Com H #1E



Analyst



Review

**EPA METHOD 8021
AROMATIC VOLATILE ORGANICS**

Client:	XTO	Project #:	98031-0528
Sample ID:	West Wall Composite	Date Reported:	05-12-11
Laboratory Number:	58162	Date Sampled:	05-11-11
Chain of Custody:	11727	Date Received:	05-11-11
Sample Matrix:	Soil	Date Analyzed:	05-12-11
Preservative:	Cool	Date Extracted:	05-12-11
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	10

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	0.9
Toluene	ND	1.0
Ethylbenzene	ND	1.0
p,m-Xylene	ND	1.2
o-Xylene	ND	0.9
Total BTEX	ND	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	97.2 %
	1,4-difluorobenzene	106 %
	Bromochlorobenzene	91.4 %

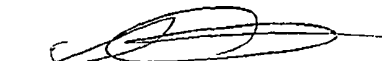
References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

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

Comments: Federal Gas Com H #1E



Analyst



Review



EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	XTO	Project #:	98031-0528
Sample ID:	West Bottom @ 24'	Date Reported:	05-12-11
Laboratory Number:	58163	Date Sampled:	05-11-11
Chain of Custody:	11727	Date Received:	05-11-11
Sample Matrix:	Soil	Date Analyzed:	05-12-11
Preservative:	Cool	Date Extracted:	05-12-11
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	10

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	0.9
Toluene	ND	1.0
Ethylbenzene	ND	1.0
p,m-Xylene	ND	1.2
o-Xylene	ND	0.9
Total BTEX	ND	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	99.6 %
	1,4-difluorobenzene	103 %
	Bromochlorobenzene	91.9 %

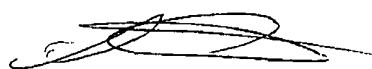
References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

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

Comments: Federal Gas Com H #1E



Analyst



Review

**EPA METHOD 8021
AROMATIC VOLATILE ORGANICS**

Client:	XTO	Project #:	98031-0528
Sample ID:	South Wall Composite	Date Reported:	05-12-11
Laboratory Number:	58164	Date Sampled:	05-11-11
Chain of Custody:	11727	Date Received:	05-11-11
Sample Matrix:	Soil	Date Analyzed:	05-12-11
Preservative:	Cool	Date Extracted:	05-12-11
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	10

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	0.9
Toluene	121	1.0
Ethylbenzene	36.6	1.0
p,m-Xylene	270	1.2
o-Xylene	59.0	0.9
Total BTEX	486	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	88.9 %
	1,4-difluorobenzene	91.3 %
	Bromochlorobenzene	97.4 %

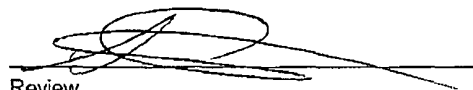
References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

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

Comments: Federal Gas Com H #1E



Analyst



Review

**EPA METHOD 8021
 AROMATIC VOLATILE ORGANICS**

Client:	N/A	Project #:	N/A
Sample ID:	0512BBLK QA/QC	Date Reported:	05-12-11
Laboratory Number:	58158	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	05-12-11
Condition:	N/A	Analysis:	BTEX
		Dilution:	10

Calibration and Detection Limits (ug/L)	I-Cal RF	C-Cal RF	%Diff	Blank Conc	Detect Limit
		Accept. Range 0 - 15%			
Benzene	1.0939E+005	1.0961E+005	0.2%	ND	0.1
Toluene	1.2329E+005	1.2354E+005	0.2%	ND	0.1
Ethylbenzene	1.1096E+005	1.1118E+005	0.2%	ND	0.1
p,m-Xylene	2.5791E+005	2.5843E+005	0.2%	ND	0.1
o-Xylene	1.0833E+005	1.0854E+005	0.2%	ND	0.1

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%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

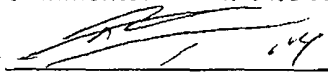
Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	500	542	108%	39 - 150
Toluene	ND	500	521	104%	46 - 148
Ethylbenzene	ND	500	497	99.3%	32 - 160
p,m-Xylene	ND	1000	998	99.8%	46 - 148
o-Xylene	ND	500	492	98.4%	46 - 148

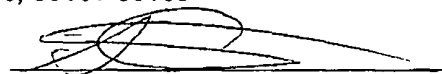
ND - Parameter not detected at the stated detection limit.

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 58154-58156, 58158, 58161-58165


 Analyst


 Review

11727

5796 US Highway 64 • Farmington, NM 87401 • 505-632-0615 • lab@envirotech-inc.com



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Tax I D 62-0814289

Est 1970

REPORT OF ANALYSIS

May 23, 2011

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

Date Received : May 20, 2011
Description : Federal Gas COM H 1E
Sample ID : SOUTH WALL COMPOSITE
Collected By : James McDaniel
Collection Date : 05/19/11 10:03

ESC Sample # : L516947-01

Site ID : FEDERAL GAS COM H1E

Project # :

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	93.		%	2540G	05/22/11	1
Benzene	BDL	0.0027	mg/kg	8021/8015	05/20/11	5
Toluene	BDL	0.027	mg/kg	8021/8015	05/20/11	5
Ethylbenzene	BDL	0.0027	mg/kg	8021/8015	05/20/11	5
Total Xylene	BDL	0.0081	mg/kg	8021/8015	05/20/11	5
TPH (GC/FID) Low Fraction	0.60	0.54	mg/kg	GRO	05/20/11	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene (FID)	103.		% Rec.	8021/8015	05/20/11	5
a,a,a-Trifluorotoluene (PID)	107.		% Rec.	8021/8015	05/20/11	5
TPH (GC/FID) High Fraction	5.2	4.3	mg/kg	3546/DRO	05/21/11	1
Surrogate recovery(%)						
o-Terphenyl	76.2		% Rec.	3546/DRO	05/21/11	1

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

This report shall not be reproduced, except in full, without the written approval from ESC

The reported analytical results relate only to the sample submitted

Reported: 05/23/11 14:45 Printed: 05/23/11 14:45

Summary of Remarks For Samples Printed
05/23/11 at 14:45:58

TSR Signing Reports 288
R2 - Rush. Next Day

drywt

Sample: L516947-01 Account: XTORNM Received: 05/20/11 09:00 Due Date: 05/23/11 00:00 RPT Date: 05/23/11 14:45



YOUR LAB OF CHOICE

XTO Energy - San Juan Division
James McDaniel
382 Road 3100

Aztec, NM 87410

Quality Assurance Report
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May 23, 2011

Analyte	Result	Laboratory Blank Units	% Rec	Limit	Batch	Date Analyzed
Benzene	< .0005	mg/kg			WG536703	05/20/11 18 14
Ethylbenzene	< .0005	mg/kg			WG536703	05/20/11 18 14
Toluene	< .0005	mg/kg			WG536703	05/20/11 18 14
TPH (GC/FID) Low Fraction	< 1	mg/kg			WG536703	05/20/11 18:14
Total Xylene	< .0015	mg/kg			WG536703	05/20/11 18:14
a,a,a-Trifluorotoluene (FID)		% Rec.	103 0	59-128	WG536703	05/20/11 18 14
a,a,a-Trifluorotoluene (PID)		% Rec.	107 2	54-144	WG536703	05/20/11 18:14
Benzene	< .0005	mg/kg			WG536703	05/20/11 18:14
Ethylbenzene	< .0005	mg/kg			WG536703	05/20/11 18:14
Toluene	< .0005	mg/kg			WG536703	05/20/11 18:14
Total Xylene	< .0015	mg/kg			WG536703	05/20/11 18 14
a,a,a-Trifluorotoluene (FID)		% Rec.	103 0	59-128	WG536703	05/20/11 18 14
a,a,a-Trifluorotoluene (PID)		% Rec.	107.2	54-114	WG536703	05/20/11 18 14
TPH (GC/FID) High Fraction	< 4	ppm			WG536527	05/21/11 03:33
o-Terphenyl		% Rec.	78.58	50-150	WG536527	05/21/11 03:33
Total Solids	< 1	%			WG536847	05/22/11 11 03

Analyte	Units	Duplicate Result	RPD	Limit	Ref Samp	Batch
Total Solids	%	77.0	76.3	1.32	5	L516971-06 WG536847

Analyte	Units	Laboratory Control Known Val	Sample Result	% Rec	Limit	Batch
Benzene	mg/kg	05	0.0472	94 5	76-113	WG536703
Ethylbenzene	mg/kg	05	0.0503	101.	78-115	WG536703
Toluene	mg/kg	05	0.0485	97.0	76-114	WG536703
Total Xylene	mg/kg	.15	0.151	101	81-118	WG536703
a,a,a-Trifluorotoluene (FID)				102 5	59-128	WG536703
a,a,a-Trifluorotoluene (PID)				104 4	54-144	WG536703
Benzene	mg/kg	.05	0.0472	94.5	76-113	WG536703
Ethylbenzene	mg/kg	05	0.0503	101	78-115	WG536703
Toluene	mg/kg	.05	0.0485	97 0	76-114	WG536703
Total Xylene	mg/kg	.15	0.151	101.	80-118	WG536703
a,a,a-Trifluorotoluene (FID)				102 5	59-128	WG536703
a,a,a-Trifluorotoluene (PID)				104.4	54-114	WG536703
TPH (GC/FID) Low Fraction	mg/kg	5 5	5.85	106.	67-135	WG536703
a,a,a-Trifluorotoluene (FID)				98.15	59-128	WG536703
a,a,a-Trifluorotoluene (PID)				108.2	54-144	WG536703
TPH (GC/FID) High Fraction	ppm	60	46.8	78.0	50-150	WG536527
o-Terphenyl				77 41	50-150	WG536527
Total Solids	%	50	50 0	99 9	85-155	WG536847

Analyte	Units	Laboratory Control Result	Sample Ref	Duplicate %Rec	Limit	RPD	Limit	Batch
TPH (GC/FID) Low Fraction	mg/kg	5.76	5.85	105.	67-135	1.63	20	WG536703
a,a,a-Trifluorotoluene (FID)				98.38	59-128			WG536703
a,a,a-Trifluorotoluene (PID)				108.1	54-144			WG536703
Benzene	mg/kg	0.0433	0.0472	86.0	76-113	8.70	20	WG536703

* 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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May 23, 2011

Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
Ethylbenzene	mg/kg	0.0474	0.0503	95.0	78-115	5.98	20	WG536703
Toluene	mg/kg	0.0454	0.0485	91.0	76-114	6.53	20	WG536703
Total Xylene	mg/kg	0.144	0.151	96.0	81-118	5.01	20	WG536703
a,a,a-Trifluorotoluene (FID)				101.4	59-128			WG536703
a,a,a-Trifluorotoluene (PID)				103.8	54-144			WG536703
Benzene	mg/kg	0.0433	0.0472	86.0	76-113	8.70	39	WG536703
Ethylbenzene	mg/kg	0.0474	0.0503	95.0	78-115	5.98	44	WG536703
Toluene	mg/kg	0.0454	0.0485	91.0	76-114	6.53	42	WG536703
Total Xylene	mg/kg	0.144	0.151	96.0	81-118	5.01	44	WG536703
a,a,a-Trifluorotoluene (FID)				101.4	59-128			WG536703
a,a,a-Trifluorotoluene (PID)				103.8	54-114			WG536703
TPH (GC/FID) High Fraction	ppm	42.8	46.8	71.0	50-150	8.92	25	WG536527
o-Terphenyl				72.81	50-150			WG536527

Analyte	Units	MS Res	Matrix Spike			Limit	Ref Samp	Batch
			Ref Res	TV	% Rec			
Benzene	mg/kg	0.289	0	05	116	32-137	L517034-01	WG536703
Ethylbenzene	mg/kg	0.288	0	05	115	10-150	L517034-01	WG536703
Toluene	mg/kg	0.283	0	05	113	20-142	L517034-01	WG536703
Total Xylene	mg/kg	0.882	0	15	118	16-141	L517034-01	WG536703
a,a,a-Trifluorotoluene (FID)					103.6	59-128		WG536703
a,a,a-Trifluorotoluene (PID)					105.4	54-144		WG536703
Benzene	mg/kg	0.289	0	05	116	32-137	L517034-01	WG536703
Ethylbenzene	mg/kg	0.288	0	05	115	10-150	L517034-01	WG536703
Toluene	mg/kg	0.283	0	05	113	20-142	L517034-01	WG536703
Total Xylene	mg/kg	0.882	0	15	118	12-149	L517034-01	WG536703
a,a,a-Trifluorotoluene (FID)					103.6	59-128		WG536703
a,a,a-Trifluorotoluene (PID)					105.4	54-114		WG536703
TPH (GC/FID) Low Fraction	mg/kg	24.4	0.0847	5.5	88.5	55-109	L517034-01	WG536703
a,a,a-Trifluorotoluene (FID)					103.2	59-128		WG536703
a,a,a-Trifluorotoluene (PID)					109.7	54-144		WG536703
TPH (GC/FID) High Fraction	ppm	49.2	4.80	60	74.0	50-150	L516947-01	WG536527
o-Terphenyl					74.07	50-150		WG536527

Analyte	Units	MSD	Matrix Spike Duplicate			Limit	RPD	Limit	Ref Samp	Batch
			Ref	%Rec						
Benzene	mg/kg	0.267	0.289	107.		32-137	7.87	39	L517034-01	WG536703
Ethylbenzene	mg/kg	0.261	0.288	104.		10-150	9.56	44	L517034-01	WG536703
Toluene	mg/kg	0.256	0.283	102.		20-142	10.1	42	L517034-01	WG536703
Total Xylene	mg/kg	0.802	0.882	107.		16-141	9.57	46	L517034-01	WG536703
a,a,a-Trifluorotoluene (FID)				102.8		59-128				WG536703
a,a,a-Trifluorotoluene (PID)				104.4		54-144				WG536703
Benzene	mg/kg	0.267	0.289	107.		32-137	7.87	39	L517034-01	WG536703
Ethylbenzene	mg/kg	0.261	0.288	104.		10-150	9.56	44	L517034-01	WG536703
Toluene	mg/kg	0.256	0.283	102.		20-142	10.1	42	L517034-01	WG536703
Total Xylene	mg/kg	0.802	0.882	107.		16-141	9.57	44	L517034-01	WG536703
a,a,a-Trifluorotoluene (FID)				102.8		59-128				WG536703
a,a,a-Trifluorotoluene (PID)				104.4		54-114				WG536703
TPH (GC/FID) Low Fraction	mg/kg	23.6	24.4	85.6		55-109	3.31	20	L517034-01	WG536703
a,a,a-Trifluorotoluene (FID)				101.7		59-128				WG536703
a,a,a-Trifluorotoluene (PID)				108.4		54-144				WG536703

* 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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Est. 1970

May 23, 2011

Analyte	Units	MSD	Matrix-Spike Duplicate		Limit	RPD	Limit	Ref Samp	Batch
			Ref	%Rec					
TPH (GC/FID) High Fraction	ppm	51.9	49.2	78.6	50-150	5.45	25	L516947-01	WG536527
o-Terphenyl				72.04	50-150				WG536527

Batch number /Run number / Sample number cross reference

WG536703: R1695570 L516947-01
WG536527: R1695710 L516947-01
WG536847: R1697114: L516947-01

* * 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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May 23, 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.



EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	XTO	Project #:	98031-0528
Sample ID:	Water Sample	Date Reported:	05-24-11
Chain of Custody:	11782	Date Sampled:	05-23-11
Laboratory Number:	58274	Date Received:	05-23-11
Sample Matrix:	Aqueous	Date Analyzed:	05-23-11
Preservative:	Cool	Analysis Requested:	BTEX
Condition:	Intact		

Parameter	Concentration (ug/L)	Dilution Factor	Det. Limit (ug/L)
Benzene	ND	1	0.2
Toluene	ND	1	0.2
Ethylbenzene	ND	1	0.2
p,m-Xylene	ND	1	0.2
o-Xylene	ND	1	0.1

Total BTEX ND

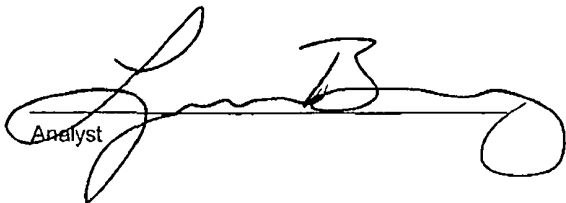
ND - Parameter not detected at the stated detection limit.

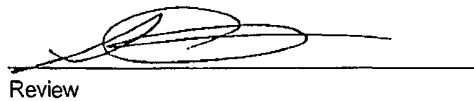
Surrogate Recoveries:	Parameter	Percent Recovery
	fluorobenzene	96.5 %
	1,4-difluorobenzene	98.6 %
	4-bromochlorobenzene	87.1 %

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: Federal Gas Com H #1E


Analyst


Review

Client:	N/A	Project #:	N/A
Sample ID:	0523BBLK QA/QC	Date Reported:	05-23-11
Laboratory Number:	58265	Date Sampled:	N/A
Sample Matrix:	Aqueous	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	05-23-11
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF:	%Diff.	Blank Conc	Detect. Limit
		Accept. Range 0 - 15%			
Benzene	1.0851E+005	1.0883E+005	0.3%	ND	0.2
Toluene	1.2469E+005	1.2506E+005	0.3%	ND	0.2
Ethylbenzene	1.0585E+005	1.0617E+005	0.3%	ND	0.2
p,m-Xylene	2.4434E+005	2.4508E+005	0.3%	ND	0.2
o-Xylene	1.0335E+005	1.0366E+005	0.3%	ND	0.1

Duplicate Conc. (ug/L)	Sample	Duplicate	%Diff.	Accept Limit
Benzene	47.0	47.6	1.4%	0 - 30%
Toluene	150	146	2.8%	0 - 30%
Ethylbenzene	35.5	44.3	24.8%	0 - 30%
p,m-Xylene	235	237	0.9%	0 - 30%
o-Xylene	69.0	72.3	4.8%	0 - 30%

Spike Conc. (ug/L)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Limits
Benzene	47.0	50.0	93.0	95.9%	39 - 150
Toluene	150	50.0	206	103%	46 - 148
Ethylbenzene	35.5	50.0	82.2	96.2%	32 - 160
p,m-Xylene	235	100	284	84.7%	46 - 148
o-Xylene	69.0	50.0	119	100%	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 58265, 58274

Analyst

Review

11782

ACCENT Printing • Form 28-0807



XTO Energy On-Site Form

Well Name Federal Gas Com H#1E API # 30-045-26122
Section 31 Township 30N Range 12W County San Juan
Contractors On-Site Weatherford / TPC (cont.) Time On-Site 09³⁰ Time Off-Site 10⁴⁵
Spill Amount 35.5 bbls Spilled Oil / Produced Water / Other —
Land Use (Grazing / Residential / Tribe —) Excavation 25 x 15 x 15 deep

	25' Sample Location
Site Diagram	Sample Location
Comments	Number of Photos Taken

Samples

Time	Sample #	Sample Description	Characteristics	OVM (ppm)	Analysis Requested
	NA	100 Standard	NA	101	NA
10 ⁰⁰	1	Bottom Sample	Gray, Sandy, damp	2,000	8015, 8021

Name (Print) James McDaniel Date 4/26/11
Name (Signature) [Signature] Company XTO



XTO Energy On-Site Form

Well Name Federal Gas COM H #1E API # 30-045-26122

Section 316 Township 30N Range 12W County San Juan

Contractors On-Site CORE Time On-Site 0945 Time Off-Site 1130

Spill Amount ? bbls Spilled (Oil) Produced Water / Other —

Land Use (Grazing / Residential / Tribe —) Excavation 35 x 20 x 17-21 deep

Site Diagram	Sample Location
Comments	Number of Photos Taken

Samples

Time	Sample #	Sample Description	Characteristics	OVM (ppm)	Analysis Requested
—	NA	100 Standard	NA	94.7	NA
1025	1	East Bottom @ 17'	light brown sandstone	17.4	8015
1030	3	East Wall Comp	light brown sand	0.0	8015
1020	2	West Bottom @ 21'	Blueish-gray sand	10.35	—
1100	4	North Wall Composite	light brown sand	113	8015, 8021

Name (Print) James McDaniel Date 5/10/11

Name (Signature) J McDaniel Company XTO



XTO Energy On-Site Form

Well Name Federal Gas COM H #1E API # 30-045-26122

Section 316 Township 30N Range 12W County San Juan

Contractors On-Site CORE Time On-Site 08³⁰ Time Off-Site 11⁰⁰

Spill Amount _____ bbls Spilled (Oil / Produced Water / Other _____)

Land Use (Grazing / Residential / Tribe _____) Excavation 40 x 22 x 25-24' deep

Site Diagram	Sample Location
Comments	Number of Photos Taken

Samples

Time	Sample #	Sample Description	Characteristics	OVM (ppm)	Analysis Requested
-	NA	100 Standard	NA	95.7	NA
-	1	Bottom @ 23'	Blueish-gray, odor	2805	
1535	2	West Bottom @ 24'	Sandstone, yellow	-	8015, 8021
1535	3	South wall Comp	Brown sand, slight odor	-	8015, 8021
1540	4	South wall stained Grab	Blueish-gray sand	-	8015, 8021
1545	5	West Wall Composite	Sandy soil, wet, brown	-	8015, 8021

Name (Print) James McDaniel

Date 5/11/11

Name (Signature) [Signature] Company XTO



XTO Energy On-Site Form

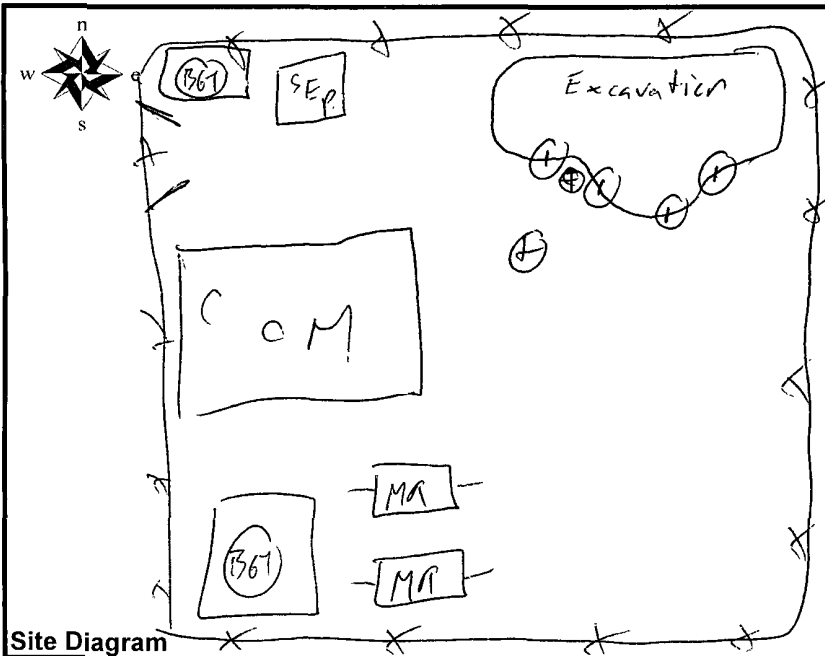
Well Name Federal Gas COM H #1E API # 30-045-26122

Section 31 Township 30N Range 12W County San Juan

Contractors On-Site CORE Time On-Site 0945 Time Off-Site 1015

Spill Amount bbls Spilled (Oil / Produced Water / Other)

Land Use (Grazing / Residential / Tribe) Excavation 40 x 25 x 23' deep



Site Diagram

Sample Location

Sample Location

Comments

Number of Photos Taken

Samples

Time	Sample #	Sample Description	Characteristics	OVM (ppm)	Analysis Requested
1000	NA	100 Standard	NA		NA
1003	1	South wall comp	Brown, sandy, slight odor	1,500	8015, 8021

Name (Print) James McDaniel

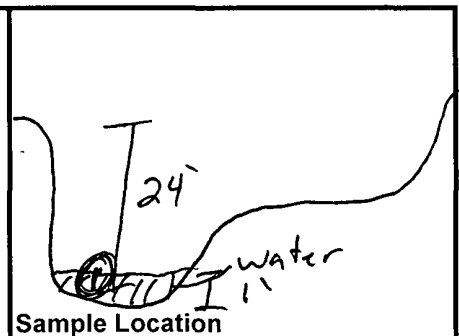
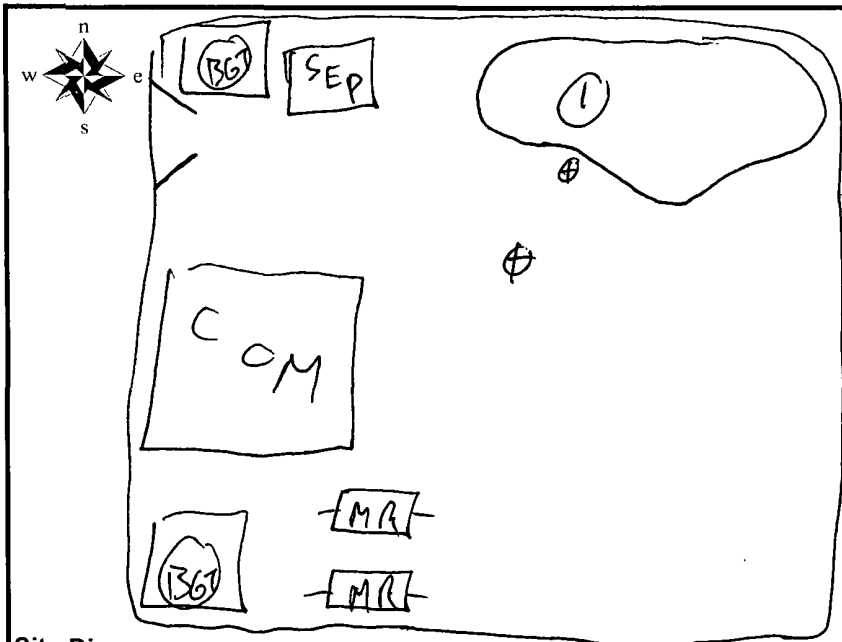
Date 5/19/11

Name (Signature) [Signature] Company XTC



XTO Energy On-Site Form

Well Name Federal Gas com H #1E API # 30-045-26122
Section 31 Township 30N Range 12W County San Juan
Contractors On-Site None Time On-Site 13⁰⁰ Time Off-Site 13³⁰
Spill Amount 35.5 bbls Spilled (Oil / Produced Water / Other —)
Land Use (Grazing / Residential / Tribe —) Excavation 40 x 25 x 23-24' deep



Site Diagram

Sample Location

Comments

Number of Photos Taken

Samples

Time	Sample #	Sample Description	Characteristics	OVM (ppm)	Analysis Requested
	NA	100 Standard	NA		NA
1305	1	Water Sample	Clear, No Sheen	—	8021

Name (Print) James McDaniel

Date 5/23/11

Name (Signature) [Signature]

Company XTO