District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., 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

OIL CONS. DIV DIST. 3
DEC 12 2014

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

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: Bolack C LS #15A	Facility Type: Gas Well

Surface Owner: Federal Land	Mineral Owner	API No. 30-045-26579

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
D	33	27N	8W	1250	FNL	560	FWL	San Juan

Latitude: 36.534569 **Longitude:** -107.694304

NATURE OF RELEASE

Type of Release: Condensate	Volume of Release: 88 bbls	Volume Recovered: None
Source of Release: Production Tank	Date and Hour of Occurrence: Unknown	Date and Hour of Discovery: 10/27/2014
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Brandon Powell	
By Whom? James McDaniel	Date and Hour: 10/28/2014 – 11:00 AM	
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 October 27, 2014, a vandalism event was discovered at the Bolack C LS #15A well site in which the production tank load valve was opened, and the product from the tank was set on fire. During the fire, all 88 bbls of condensate inside the tank was lost. All fluids were contained within the bermed area, and soaked into the ground beneath the tank berm. No fluids were recovered. Much of the condensate was burned off during the fire. The site was then ranked a zero pursuant to the NMOCD Guidelines for the Remediation of Leaks, Spills and Releases, setting the closure standards for this location to 5,000 ppm total petroleum hydrocarbons (TPH), 10 ppm Benzene, and 50 ppm total BTEX. Composite samples were collected to determine the extent of the impacted soil from the surface and from one (1) foot below ground surface. Both samples returned results slightly above the 50 ppm BTEX standard, determining that excavation activities would need to be performed.

Describe Area Affected and Cleanup Action Taken.*

Composite samples were collected to determine the extent of the impacted soil from the surface and from one (1) foot below ground surface. Both samples returned results above the 50 ppm BTEX standard, determining that excavation activities would need to be performed. A remediation plan was submitted to the NMOCD and the BLM, requesting the use of a bio-pile for the remediation of the impacted soil. The remediation plan was approved, and approximately 150 CY was excavated on November 11, 2014 to extents of 25' x 17' x 3' deep. Composite samples were collected from the bottom of the excavation and the walls, and analyzed for DRO/GRO via USEPA Method 8015, and for BTEX via USEPA Method 8021. Sample results were below the standards determined for this site, determining that no additional excavation was required. The 150 CY of impacted soil was stockpiled on-site and turned several times until it was sampled on December 3, 2014. Two samples were collected from the soil pile on December 3, 2014, witnessed by Cory Smith, NMOCD. Both samples returned results below the standards determined for this location. Approval to backfill the excavation with the remediated soil was granted by Cory Smith, NMOCD and Shari Ketchum, BLM. Emails are attached. The excavation will be backfilled with the remediated material, and no further action will be required.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature:	OIL CONSERVATION DIVISION	
Printed Name: James McDaniel	Approved by Environmental Specialist:	
Title: EHS Supervisor	Approval Date: 1/8/15	Expiration Date:
E-mail Address: james_mcdaniel@xtoenergy.com	Conditions of Approval:	Attached ☐
Date: 12/12/14 Phone: 505-333-3701		

#NCS 1500854882

25

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Analytical Laboratory

Analytical Report

Report Summary

Client: XTO Energy Inc.

Chain Of Custody Number: 0111

Samples Received: 11/11/2014 4:20:00PM

Job Number: 98031-0528

Work Order: P411037

Project Name/Location: Bolack C LS #15A

Entire Report Reviewed By: _____ Date: 11/13/14

Tim Cain, Laboratory Manager

5796 US Highway 64, Farmington, NM 87401 Ph (505) 632-0615 Fx (505) 632-1865

Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301 Ph (970) 259-0615 Fr (800) 362-1879

envirotech-inc.com

laboratory@envirotech-inc.com

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Analytical Laboratory

XTO Energy Inc.	Project Name:	Bolack C LS #15A	
382 CR 3100	Project Number:	98031-0528	**Reported:**
Aztec NM, 87410	Project Manager:	James McDaniel	13-Nov-14 12:54

Analyical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Bottom Composite	P411037-01A	Soil	11/11/14	11/11/14	Glass Jar, 4 oz.
Wall Composite	P411037-02A	Soil	11/11/14	11/11/14	Glass Jar, 4 oz.

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Analytical Laboratory

XTO Energy Inc.	Project Name:	Bolack C LS #15A	
382 CR 3100	Project Number:	98031-0528	**Reported:**
Aztec NM, 87410	Project Manager:	James McDaniel	13-Nov-14 12:54

Bottom Composite

P411037-01 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1446015	11/11/14	11/12/14	EPA 8021B	
Toluene	**0.38**	0.10	mg/kg	1	1446015	11/11/14	11/12/14	EPA 8021B	
Ethylbenzene	**0.44**	0.10	mg/kg	1	1446015	11/11/14	11/12/14	EPA 8021B	
p,m-Xylene	**3.08**	0.20	mg/kg	1	1446015	11/11/14	11/12/14	EPA 8021B	
o-Xylene	**1.00**	0.10	mg/kg	1	1446015	11/11/14	11/12/14	EPA 8021B	
Total Xylenes	**4.08**	0.10	mg/kg	1	1446015	11/11/14	11/12/14	EPA 8021B	
Total BTEX	**4.90**	0.10	mg/kg	1	1446015	11/11/14	11/12/14	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*90.1 %*	*50-150*		*1446015*	*11/11/14*	*11/12/14*	*EPA 8021B*	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	**116**	9.99	mg/kg	1	1446015	11/11/14	11/12/14	EPA 8015D	
Diesel Range Organics (C10-C28)	**496**	35.0	mg/kg	1	1446009	11/11/14	11/12/14	EPA 8015D	
Surrogate: o-Terphenyl		*121 %*	*50-200*		*1446009*	*11/11/14*	*11/12/14*	*EPA 8015D*	
Surrogate: 4-Bromochlorobenzene-FID		*91.4 %*	*50-150*		*1446015*	*11/11/14*	*11/12/14*	*EPA 8015D*	

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Analytical Laboratory

XTO Energy Inc.	Project Name:	Bolack C LS #15A	
382 CR 3100	Project Number:	98031-0528	**Reported:**
Aztec NM, 87410	Project Manager:	James McDaniel	13-Nov-14 12:54

Wall Composite

P411037-02 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1446015	11/11/14	11/12/14	EPA 8021B	
Toluene	**1.14**	0.10	mg/kg	1	1446015	11/11/14	11/12/14	EPA 8021B	
Ethylbenzene	**1.40**	0.10	mg/kg	1	1446015	11/11/14	11/12/14	EPA 8021B	
p,m-Xylene	**13.0**	0.20	mg/kg	1	1446015	11/11/14	11/12/14	EPA 8021B	
o-Xylene	**3.10**	0.10	mg/kg	1	1446015	11/11/14	11/12/14	EPA 8021B	
Total Xylenes	**16.1**	0.10	mg/kg	1	1446015	11/11/14	11/12/14	EPA 8021B	
Total BTEX	**18.6**	0.10	mg/kg	1	1446015	11/11/14	11/12/14	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*95.0 %*		*50-150*	*1446015*	*11/11/14*	*11/12/14*	*EPA 8021B*	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	**307**	9.96	mg/kg	1	1446015	11/11/14	11/12/14	EPA 8015D	
Diesel Range Organics (C10-C28)	**1340**	45.0	mg/kg	2	1446009	11/11/14	11/12/14	EPA 8015D	
Surrogate: o-Terphenyl		*126 %*		*50-200*	*1446009*	*11/11/14*	*11/12/14*	*EPA 8015D*	
Surrogate: 4-Bromochlorobenzene-FID		*95.5 %*		*50-150*	*1446015*	*11/11/14*	*11/12/14*	*EPA 8015D*	

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Analytical Laboratory

XTO Energy Inc.	Project Name:	Bolack C LS #15A	
382 CR 3100	Project Number:	98031-0528	**Reported:**
Aztec NM, 87410	Project Manager:	James McDaniel	13-Nov-14 12:54

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1446015 - Purge and Trap EPA 5030A										
Blank (1446015-BLK1)				Prepared: 11-Nov-14 Analyzed: 12-Nov-14						
Benzene	ND	0.10	mg/kg							
Toluene	ND	0.10	"							
Ethylbenzene	ND	0.10	"							
p,m-Xylene	ND	0.20	"							
o-Xylene	ND	0.10	"							
Total Xylenes	ND	0.10	"							
Total BTEX	ND	0.10	"							
Surrogate: 4-Bromochlorobenzene-PID	*0.377*		"	*0.399*		*94.6*	*50-150*			
LCS (1446015-BS1)				Prepared: 11-Nov-14 Analyzed: 12-Nov-14						
Benzene	19.6	0.10	mg/kg	20.0		97.9	75-125			
Toluene	19.9	0.10	"	20.0		99.8	70-125			
Ethylbenzene	20.5	0.10	"	20.0		103	75-125			
p,m-Xylene	42.8	0.20	"	39.9		107	80-125			
o-Xylene	20.8	0.10	"	20.0		104	75-125			
Surrogate: 4-Bromochlorobenzene-PID	*0.377*		"	*0.399*		*94.4*	*50-150*			
Matrix Spike (1446015-MS1)	**Source: P411037-01**			Prepared: 11-Nov-14 Analyzed: 12-Nov-14						
Benzene	18.4	0.10	mg/kg	20.0	ND	92.0	75-125			
Toluene	19.3	0.10	"	20.0	0.38	94.6	70-125			
Ethylbenzene	20.6	0.10	"	20.0	0.44	101	75-125			
p,m-Xylene	45.3	0.20	"	40.0	3.08	106	80-125			
o-Xylene	20.6	0.10	"	20.0	1.00	98.3	75-125			
Surrogate: 4-Bromochlorobenzene-PID	*0.372*		"	*0.400*		*93.2*	*50-150*			
Matrix Spike Dup (1446015-MSD1)	**Source: P411037-01**			Prepared: 11-Nov-14 Analyzed: 12-Nov-14						
Benzene	19.6	0.10	mg/kg	20.0	ND	98.3	75-125	6.65	15	
Toluene	21.0	0.10	"	20.0	0.38	103	70-125	8.47	15	
Ethylbenzene	22.5	0.10	"	20.0	0.44	110	75-125	9.04	15	
p,m-Xylene	50.0	0.20	"	40.0	3.08	117	80-125	9.91	15	
o-Xylene	22.8	0.10	"	20.0	1.00	109	75-125	10.1	15	
Surrogate: 4-Bromochlorobenzene-PID	*0.388*		"	*0.400*		*97.0*	*50-150*			

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Analytical Laboratory

XTO Energy Inc.	Project Name:	Bolack C LS #15A	
382 CR 3100	Project Number:	98031-0528	**Reported:**
Aztec NM, 87410	Project Manager:	James McDaniel	13-Nov-14 12:54

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1446009 - DRO Extraction EPA 3550M										
Blank (1446009-BLK1)				Prepared: 11-Nov-14 Analyzed: 12-Nov-14						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Surrogate: o-Terphenyl	*42.0*		"	*39.9*		*105*	*50-200*			
LCS (1446009-BS1)				Prepared: 11-Nov-14 Analyzed: 12-Nov-14						
Diesel Range Organics (C10-C28)	533	25.0	mg/kg	499		107	38-132			
Surrogate: o-Terphenyl	*43.1*		"	*39.9*		*108*	*50-200*			
Matrix Spike (1446009-MS1)	**Source: P411032-03**			Prepared: 11-Nov-14 Analyzed: 12-Nov-14						
Diesel Range Organics (C10-C28)	618	40.0	mg/kg	499	ND	124	38-132			
Surrogate: o-Terphenyl	*49.1*		"	*40.0*		*123*	*50-200*			
Matrix Spike Dup (1446009-MSD1)	**Source: P411032-03**			Prepared: 11-Nov-14 Analyzed: 12-Nov-14						
Diesel Range Organics (C10-C28)	695	35.0	mg/kg	500	ND	139	38-132	11.6	20	SPK1
Surrogate: o-Terphenyl	*53.3*		"	*40.0*		*133*	*50-200*			

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Analytical Laboratory

XTO Energy Inc.	Project Name:	Bolack C LS #15A	
382 CR 3100	Project Number:	98031-0528	**Reported:**
Aztec NM, 87410	Project Manager:	James McDaniel	13-Nov-14 12:54

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1446015 - Purge and Trap EPA 5030A										
Blank (1446015-BLK1)				Prepared: 11-Nov-14 Analyzed: 12-Nov-14						
Gasoline Range Organics (C6-C10)	ND	9.97	mg/kg							
Surrogate: 4-Bromochlorobenzene-FID	*0.372*		"	*0.399*		*93.1*	*50-150*			
LCS (1446015-BS1)				Prepared: 11-Nov-14 Analyzed: 12-Nov-14						
Gasoline Range Organics (C6-C10)	282	9.98	mg/kg	291		96.8	80-120			
Surrogate: 4-Bromochlorobenzene-FID	*0.364*		"	*0.399*		*91.3*	*50-150*			
Matrix Spike (1446015-MS1)	**Source: P411037-01**			Prepared: 11-Nov-14 Analyzed: 12-Nov-14						
Gasoline Range Organics (C6-C10)	407	9.99	mg/kg	292	116	99.9	75-125			
Surrogate: 4-Bromochlorobenzene-FID	*0.379*		"	*0.400*		*95.0*	*50-150*			
Matrix Spike Dup (1446015-MSD1)	**Source: P411037-01**			Prepared: 11-Nov-14 Analyzed: 12-Nov-14						
Gasoline Range Organics (C6-C10)	439	10.0	mg/kg	292	116	111	75-125	7.50	15	
Surrogate: 4-Bromochlorobenzene-FID	*0.387*		"	*0.400*		*96.8*	*50-150*			

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Analytical Laboratory

XTO Energy Inc.	Project Name:	Bolack C LS #15A	
382 CR 3100	Project Number:	98031-0528	**Reported:**
Aztec NM, 87410	Project Manager:	James McDaniel	13-Nov-14 12:54

Notes and Definitions

SPK1	The spike recovery for this QC sample is outside of control limits.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

RUSH

XTO ENERGY
Western Division

Quote Number	Page ___ of ___	
XTO Contact: Kurt	XTO Contact Phone #: 486-9543	
Email Results to: James, Kurt, Logan		
Well Site/Location: Bolack C LS * 15A	API Number: 30-045-26579	Test Reason: SPILL
Collected By: Kurt	Samples on Ice: (Y) N	Turnaround: ___ Standard; X Next Day Rush; ___ Two Day; ___ Three Day; ___ Std. 5 Bus. Days (by contract); Date Needed ___
Company: XTO	QA/QC Requested: Y	
Signature: Kurt Hoekstra	Gray Areas for Lab Use Only!	

Analysis: TPH 8015; BTEX 8021

Lab Information: 98031-0528

Office Abbreviations
Farmington = FAR
Durango = DUR
Bakken = BAK
Raton = RAT
Piceance = PC
Roosevelt = RSV
La Barge = LB
Orangeville = OV

Sample ID	Sample Name	Media	Date	Time	Preservative	No. of Conts.	Sample Number
FARKH-111114-1420	Bottom Composite	S	11/11	2:20	on ice	1	P411037-01
FARKH-111114-1425	Wall Composite	S	11/11	2:25	on ice	1	P411037-02

Media: Filter = F; Soil = S; Wastewater = WW; Groundwater = GW; Drinking Waster = DW; Sludge = SG; Surface Water = SW; Air = A; Drill Mud = DM; Other = OT

Relinquished By: (Signature) Kurt Hoekstra	Date: 11-11-14	Time: 4:20	Received By: (Signature)	Number of Bottles	Sample Condition
Relinquished By: (Signature)	Date:	Time:	Received By: (Signature)	Temperature: 1.0	Other Information
Relinquished By: (Signature)	Date:	Time:	Received for Lab by: (Signature) mmangle	Date: 11/11/14 Time: 1620	

Comments: 7.8 7.4

* Sample ID will be the office and sampler-date-military time FARJM-MMDDYY-1200

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

December 08, 2014

James McDaniel
XTO Energy
382 County Road 3100
Aztec, NM 87410
TEL: (505) 787-0519
FAX (505) 333-3280

RE: Bolack C LS #15A OrderNo.: 1412205

Dear James McDaniel:

Hall Environmental Analysis Laboratory received 2 sample(s) on 12/4/2014 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1412205**
Date Reported: **12/8/2014**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: XTO Energy
Project: Bolack C LS #15A
Lab ID: 1412205-001 **Matrix:** SOIL

Client Sample ID: Soil Pile #1
Collection Date: 12/3/2014 9:10:00 AM
Received Date: 12/4/2014 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS						Analyst: **BCN**	
Diesel Range Organics (DRO)	1400	100		mg/Kg	10	12/4/2014 10:33:01 AM	16665
Surr: DNOP	0	63.5-128	S	%REC	10	12/4/2014 10:33:01 AM	16665
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	340	19		mg/Kg	4	12/4/2014 10:45:03 AM	R22928
Surr: BFB	645	80-120	S	%REC	4	12/4/2014 10:45:03 AM	R22928
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.097		mg/Kg	4	12/4/2014 10:45:03 AM	R22928
Toluene	0.28	0.19		mg/Kg	4	12/4/2014 10:45:03 AM	R22928
Ethylbenzene	ND	0.19		mg/Kg	4	12/4/2014 10:45:03 AM	R22928
Xylenes, Total	14	0.39		mg/Kg	4	12/4/2014 10:45:03 AM	R22928
Surr: 4-Bromofluorobenzene	138	80-120	S	%REC	4	12/4/2014 10:45:03 AM	R22928

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Analytical Report
Lab Order **1412205**
Date Reported: **12/8/2014**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: XTO Energy
Project: Bolack C LS #15A
Lab ID: 1412205-002 **Matrix:** SOIL

Client Sample ID: Soil Pile #2
Collection Date: 12/3/2014 9:15:00 AM
Received Date: 12/4/2014 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS						Analyst: **BCN**	
Diesel Range Organics (DRO)	1500	100		mg/Kg	10	12/4/2014 10:11:40 AM	16665
Surr: DNOP	0	63.5-128	S	%REC	10	12/4/2014 10:11:40 AM	16665
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	310	22		mg/Kg	4	12/4/2014 11:13:39 AM	R22928
Surr: BFB	535	80-120	S	%REC	4	12/4/2014 11:13:39 AM	R22928
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.11		mg/Kg	4	12/4/2014 11:13:39 AM	R22928
Toluene	0.30	0.22		mg/Kg	4	12/4/2014 11:13:39 AM	R22928
Ethylbenzene	ND	0.22		mg/Kg	4	12/4/2014 11:13:39 AM	R22928
Xylenes, Total	15	0.43		mg/Kg	4	12/4/2014 11:13:39 AM	R22928
Surr: 4-Bromofluorobenzene	133	80-120	S	%REC	4	12/4/2014 11:13:39 AM	R22928

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1412205**

08-Dec-14

Client: XTO Energy
Project: Bolack C LS #15A

Sample ID	**MB-16665**	SampType:	**MBLK**		TestCode:	**EPA Method 8015D: Diesel Range Organics**				
Client ID:	**PBS**	Batch ID:	**16665**		RunNo:	**22923**				
Prep Date:	**12/4/2014**	Analysis Date:	**12/4/2014**		SeqNo:	**676871**	Units:	**mg/Kg**		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	7.6		10.00		75.8	63.5	128			

Sample ID	**LCS-16665**	SampType:	**LCS**		TestCode:	**EPA Method 8015D: Diesel Range Organics**				
Client ID:	**LCSS**	Batch ID:	**16665**		RunNo:	**22923**				
Prep Date:	**12/4/2014**	Analysis Date:	**12/4/2014**		SeqNo:	**676877**	Units:	**mg/Kg**		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	65	10	50.00	0	129	68.6	130			
Surr: DNOP	4.3		5.000		86.0	63.5	128			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1412205**

08-Dec-14

Client: XTO Energy

Project: Bolack C LS #1-5A

Sample ID	**5ML RB**	SampType: **MBLK**			TestCode: **EPA Method 8015D: Gasoline Range**					
Client ID:	**PBS**	Batch ID: **R22928**			RunNo: **22928**					
Prep Date:		Analysis Date: **12/4/2014**			SeqNo: **677342**		Units: **mg/Kg**			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)		ND	5.0								
Surr: BFB		880		1000		88.2	80	120			

Sample ID	**2.5UG GRO LCS**	SampType: **LCS**			TestCode: **EPA Method 8015D: Gasoline Range**					
Client ID:	**LCSS**	Batch ID: **R22928**			RunNo: **22928**					
Prep Date:		Analysis Date: **12/4/2014**			SeqNo: **677343**		Units: **mg/Kg**			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)		22	5.0	25.00	0	89.8	65.8	139			
Surr: BFB		1000		1000		101	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1412205**

08-Dec-14

Client: XTO Energy

Project: Bolack C LS #15A

Sample ID **5ML RB**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **R22928**	RunNo: **22928**
Prep Date:	Analysis Date: **12/4/2014**	SeqNo: **677379** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.94		1.000		94.1	80	120			

Sample ID **100NG BTEX LCS**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **R22928**	RunNo: **22928**
Prep Date:	Analysis Date: **12/4/2014**	SeqNo: **677380** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.050	1.000	0	101	80	120			
Toluene	1.0	0.050	1.000	0	101	80	120			
Ethylbenzene	1.0	0.050	1.000	0	102	80	120			
Xylenes, Total	3.0	0.10	3.000	0	101	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: XTO Energy | Work Order Number: 1412205 | RcptNo: 1

Received by/date: AT 12/04/14

Logged By: Anne Thorne 12/4/2014 7:55:00 AM

Completed By: Anne Thorne 12/4/2014

Reviewed By: 12/04/14

Chain of Custody

1. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
2. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
3. How was the sample delivered?	Courier		

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
6. Sample(s) in proper container(s)?	Yes ☑	No ☐	
7. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
8. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
9. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
10. VOA vials have zero headspace?	Yes ☐	No ☐	No VOA Vials ☑
11. Were any sample containers received broken?	Yes ☐	No ☑	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
14. Is it clear what analyses were requested?	Yes ☑	No ☐	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.2	Good	Yes			

XTO ENERGY
Western Division

Quote Number		Page 1 of 1
XTO Contact: James McDaniel		XTO Contact Phone #: 505-333-3701
Email Results to: James, Kurt, Logan		
Well Site/Location: Black C LS #1SA	API Number: 30-045-26579	Test Reason: Spill
Collected By: James McDaniel	Samples on Ice: (Y) / N	Turnaround: ___ Standard ___ Next Day ___ Two Day ___ Three Day ___ Std. 5 Bus. Days (by contract)
Company: XTO	QA/QC Requested: Standard	
Signature:	Gray Area: for Lab Use Only!	Date Needed: Same Day

Analysis

Lab Information

Hall

Office Abbreviations
Farmington = FAR
Durango = DUR
Bakken = BAK
Raton = RAT
Piceance = PC
Roosevelt = RSV
La Barge = LB
Orangeville = OV

Sample ID	Sample Name	Media	Date	Time	Preservative	No. of Conts.	8015 (DRO/GRO)	8021 (BTEX)	Sample Number
FARJM-120314-090	Soil Pile #1	S	12/3/14	9:10	Cool	1/4oz	X	X	1412205-001
FARJM-120314-095	Soil Pile #2	S	12/3/14	9:15	Cool	1/4oz	X	X	-002

Media: Filter = F Soil = S Wastewater = WW Groundwater = GW Drinking Waster = DW Sludge = SG Surface Water = SW Air = A Drill Mud = DM Other = OT

	Date:	Time:		Number of Bottles	Sample Condition
Relinquished By: (Signature)	12/3/14	1532	Received By: (Signature)		
Relinquished By: (Signature)	12/3/14	1730	Received By: (Signature) 12/04/14 0755	Temperature: 1.2	Other Information
Relinquished By: (Signature)	Date:	Time:	Received for Lab by: (Signature)	Date: Time:	

Comments: Cory Smith on-site (NMOCD)

* Sample ID will be the office and sampler-date-military time FARJM-MMDDYY-1200

McDaniel, James

From: Ketcham, Shari <sketcham@blm.gov>
Sent: Thursday, December 04, 2014 2:48 PM
To: McDaniel, James
Cc: Smith, Cory, EMNRD; Brandon Powell (brandon.powell@state.nm.us); Marriott, Mike; Weaver, John; Woolley, Jeff; Daniels, Melissa; Hixon, Logan; Hoekstra, Kurt; Nee, Martin; Mulnix, John; Logan, Michael; Baxstrom, Scott; Beaty, Brent; McCollum, Luke
Subject: Re: Bolack C LS #15A Soil Pile Samples

Categories: External Sender

Since soil sample results are below regulatory standards, BLM approves XTO to backfill the excavation with the bio-pile soil.

Thank you!

Shari Ketcham
Natural Resource Specialist, Spills Biologist
BLM Farmington Field Office
6251 College Blvd Suite A
Farmington, NM 87402
Office: (505) 564-7713
Fax: (505) 564-7607

On Thu, Dec 4, 2014 at 2:45 PM, McDaniel, James <James_McDaniel@xtoenergy.com> wrote:

Attached are the soil sample results collected yesterday from the soil pile at the Bolack C LS #15A. Both samples returned results below the 5,000 ppm TPH standard, the 10 ppm benzene standard and the 50 ppm total BTEX standard. With your approval, XTO will utilize the soil pile as backfill for the excavated area, and completed the re-set of the location to get it back online. Thank you for your time.

"Safety takes time, take the time to be safe" (PL)

James McDaniel

EH&S Supervisor

CHMM #15676

ASP #A18313

XTO Energy Inc.

382 Road 3100

Aztec, New Mexico 87410

Phone: 505.333.3701 | Mobile: 505.787.0519

james_mcdaniel@xtoenergy.com

An **ExxonMobil** Subsidiary

McDaniel, James

From: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>
Sent: Friday, December 05, 2014 7:09 AM
To: McDaniel, James
Subject: RE: Bolack C LS #15A Soil Pile Samples

Categories: External Sender

James,

Looks like the Samples are all under the Regulatory standards, Xto is good to backfill.

From: McDaniel, James [mailto:James_McDaniel@xtoenergy.com]
Sent: Thursday, December 04, 2014 2:45 PM
To: Smith, Cory, EMNRD; Powell, Brandon, EMNRD; Ketcham, Shari
Cc: Marriott, Mike; Weaver, John; Woolley, Jeff; Daniels, Melissa; Hixon, Logan; Hoekstra, Kurt; Nee, Martin; Mulnix, John; Logan, Michael; Baxstrom, Scott; Beaty, Brent; McCollum, Luke
Subject: Bolack C LS #15A Soil Pile Samples

Attached are the soil sample results collected yesterday from the soil pile at the Bolack C LS #15A. Both samples returned results below the 5,000 ppm TPH standard, the 10 ppm benzene standard and the 50 ppm total BTEX standard. With your approval, XTO will utilize the soil pile as backfill for the excavated area, and completed the re-set of the location to get it back online. Thank you for your time.

"Safety takes time, take the time to be safe" (PL)

James McDaniel
EH&S Supervisor
CHMM #15676
ASP #A18313
XTO Energy Inc.
382 Road 3100
Aztec, New Mexico 87410
Phone: 505.333.3701 | Mobile: 505.787.0519
james_mcdaniel@xtoenergy.com

An **ExxonMobil** Subsidiary

Bolack C LS #15A

API # 30-045-26579
Unit D, Section 33, Township 27N, Range 8W
San Juan County, New Mexico
Lat: 36.534569 Long: -107.694304

Revised Remediation Plan

Submitted By:
James McDaniel
EH&S Supervisor
XTO Energy, Inc.
505-333-3701

Introduction

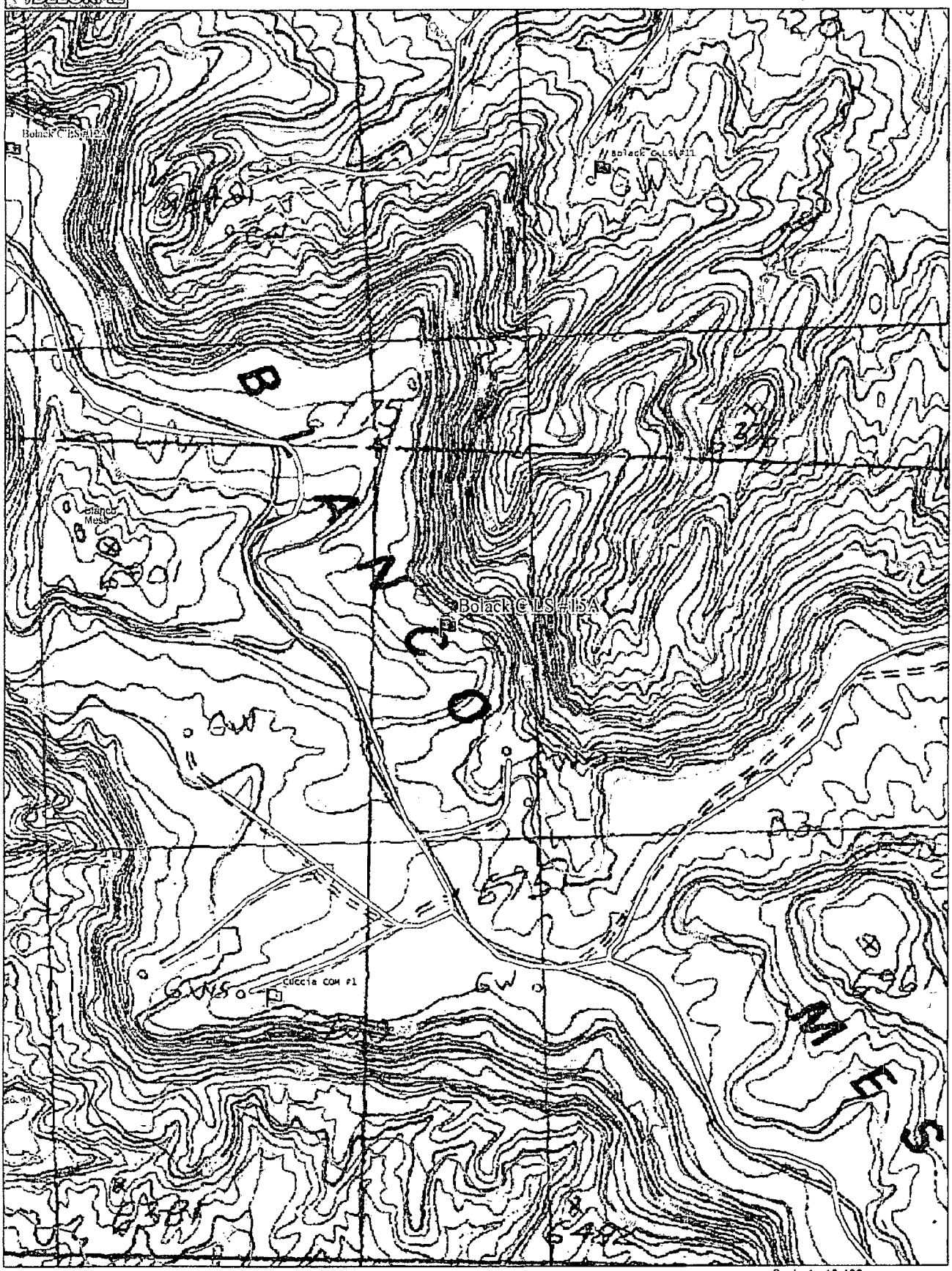
On October 27, 2014, a vandalism event was discovered at the Bolack C LS #15A well site in which the production tank load valve was opened, and the product from the tank was set on fire. During the fire, all 88 bbls of condensate inside the tank was lost. All fluids were contained within the bermed area, and soaked into the ground beneath the tank berm. No fluids were recovered. Much of the condensate was burned off during the fire. The site was then ranked a zero pursuant to the NMOCD Guidelines for the Remediation of Leaks, Spills and Releases, setting the closure standards for this location to 5,000 ppm total petroleum hydrocarbons (TPH), 10 ppm Benzene, and 50 ppm total BTEX. The required 24 hour notice was made to Brandon Powell with the NMOCD on October 28, 2014. Composite samples were collected to determine the extent of the impacted soil from the surface and from one (1) foot below ground surface. Both samples returned results slightly above the 50 ppm BTEX standard, determining that excavation activities would need to be performed.

Proposed Remediation Activity

XTO proposes to excavate the impacted materials to extents of the NMOCD Standards of 5,000 ppm TPH, 10 ppm benzene and 50 ppm total BTEX, as determined by laboratory analysis. Estimated impacted soil is estimated at between 100-150 cubic yards at this time. Due to the relatively low levels of TPH compared to the BTEX constituents in the sample results, XTO proposes to remediate the impacted soil on-site in a bio-pile in order to re-use the soils for backfill purposes. Based on the temperature and the volatile nature of the constituents, XTO believes that the light range hydrocarbons will flash off quickly, leaving behind only the heavier, less mobile hydrocarbons. XTO proposes to turn the bio-pile several times, allowing the sun to remediate the soil, and resample for TPH, Benzene and BTEX. While the bio-pile is on-site, a berm of clean soil will be maintained around the bio-pile to prevent runoff. Should the impacted soils achieve results below the closure standards determined for this location of 5,000 ppm TPH, 10 ppm benzene and 50 ppm BTEX, the remediated soil would be used for backfill of the spill excavation area. If the closure levels cannot be achieved in a maximum time of three weeks, then the soil would be hauled off for disposal, with clean backfill being brought in. Preliminary sample results, a topographic map, and a facility diagram are attached with this plan for your reference. XTO will keep the excavated area enclosed by a wire fence when excavation activities are not being performed. XTO will also notify the BLM and the NMOCD 48 hours prior to collecting closure samples from the bio-pile. One closure sample will be collected per 100 cubic yards of remediated soil.

Please consider this remediation plan the proposal for remediation activities at the Bolack C LS #15A well site. XTO is prepared to execute this remediation plan immediately upon approval.

James McDaniel, CHMM #15676
EH&S Supervisor
XTO Energy, Inc.
Western Division



TN

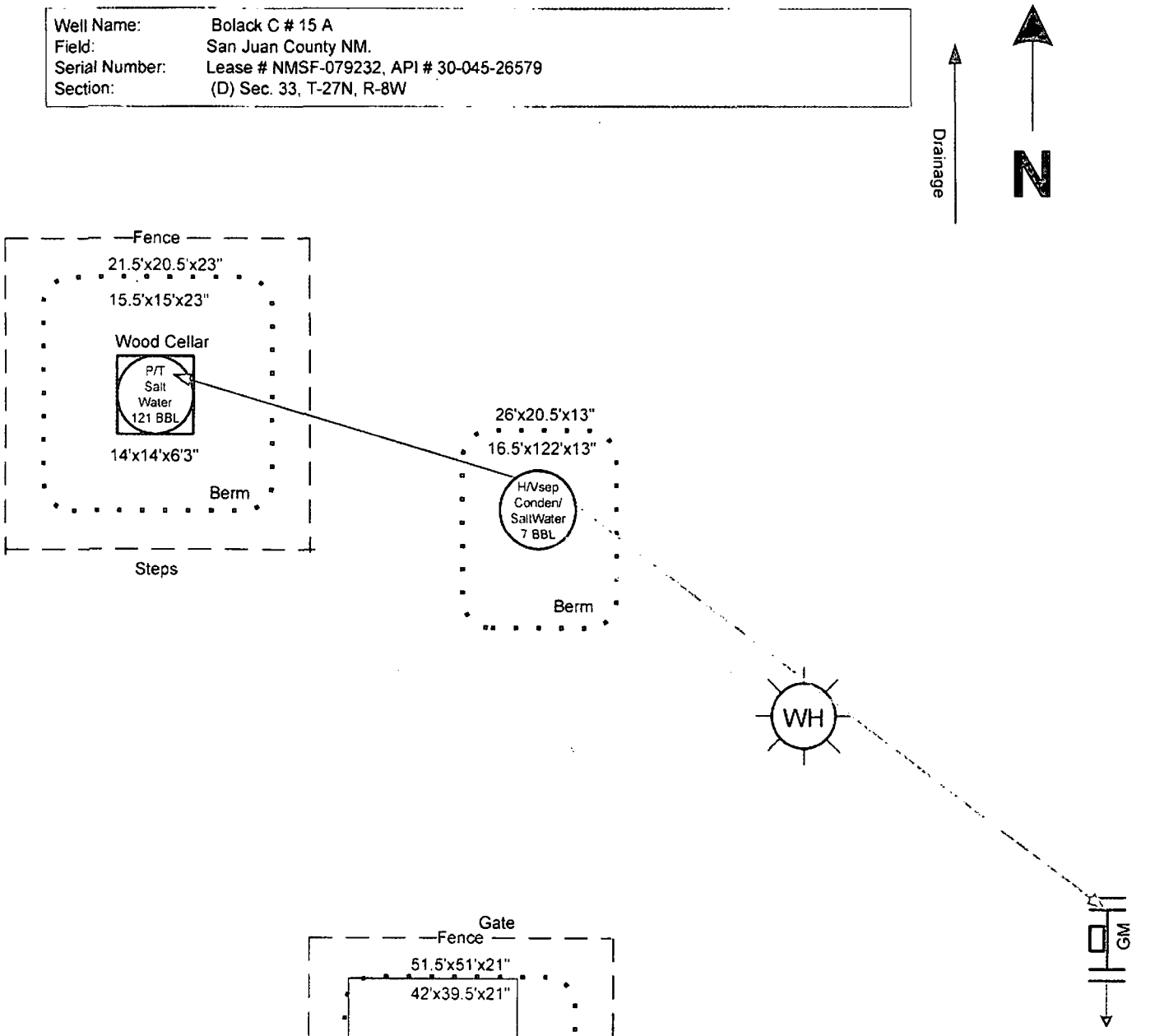
MN (9.4°E)

Scale 1 : 10,400

1" = 866.7 ft

Data Zoom 14-3

Well Name:	Bolack C # 15 A
Field:	San Juan County NM.
Serial Number:	Lease # NMSF-079232, API # 30-045-26579
Section:	(D) Sec. 33, T-27N, R-8W



Production
Gas
Oil
Water
Equalizing Line