

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

Form C-141  
Revised August 8, 2011

DEC 11 2014

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: Logan Hixon	
Address: 382 Road 3100, Aztec, New Mexico 87410	Telephone No.: (505) 333-3683	
Facility Name: LC Kelly 3F	Facility Type: Gas Well	
Surface Owner: Federal Land	Mineral Owner	API No. 30-045-33238

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
D	4	30 N	12W	665	FNL	665	FWL	San Juan

Latitude: N36\*.84672 Longitude: W-108\*.10989

**NATURE OF RELEASE**

Type of Release: Produced Water	Volume of Release: Unknown	Volume Recovered: Unknown
Source of Release: BGT	Date and Hour of Occurrence: Unknown	Date and Hour of Discovery: October 21, 2014
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom? N/A	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

**If a Watercourse was Impacted, Describe Fully.\***

**Describe Cause of Problem and Remedial Action Taken.\***

The below grade tank was taken out of service at the LC Kelly 3F well site due to the P&A'ing of this well site. A composite sample was collected beneath the location of the on-site BGT, and submitted for laboratory analysis for TPH via USEPA Method 418.1 and 8015, Benzene and BTEX via USEPA Method 8021, and for total chlorides. The sample returned results below the 'Pit Rule' spill confirmation standards for Benzene, Total BTEX and the total chlorides, but above the 'pit rule' standards for TPH, confirming that a release has occurred at this location. The site was then ranked according to the NMOCD Guidelines for the Remediation of Leaks, Spills and Releases. The site was ranked a 20 due to an estimated distance to a water well less than 1000 feet. This set the closure standard to 100 ppm TPH, 10 ppm benzene, and 50 ppm total BTEX.

**Describe Area Affected and Cleanup Action Taken.\***

The below grade tank closure sample was analyzed for DRO/GRO via USEPA Method 8015, returning results of 1030 ppm TPH. This was above the 100 ppm TPH closure standard determined for this site per NMOCD Guidelines for the Remediation of Leaks, Spills and Releases. On 10/22/14 the excavation of the BGT began. The extent of the excavation reached approximately 14'x14'x 4.5' deep, where a consolidated sandstone layer was exposed at the bottom of the excavation. A composite sample was collected of the bottom of the excavation for laboratory analysis for TPH via USEPA Method 8015. The sample returned results above the standards for the site per NMOCD Guidelines for the Remediation of Leaks, Spills, and Releases. On 10/24/14 request was made to the NMOCD to close the pit due to reaching the furthest vertical extent practical at the consolidated sandstone layer (attached). On 11/3/14 NMOCD requested that XTO do an on-site inspection to verify that the water well that was believed to be within 1,000 feet was to be correct. NMOCD requested that if a water well was found within 1,000 feet to give coordinates of the water well for alternate closure standards, and if no water wells were found within 1,000 feet XTO may close the excavation (attached). An On-site investigation was completed and no water wells were found within 1,000 feet of the site. The site was then ranked according to the NMOCD Guidelines for the Remediation of Leaks, Spills and Releases. The site was ranked a 10 due to an estimated distance to surface water greater than 200 feet and less than 1,000 feet. This set the closure standard to 1,000 ppm TPH, 10 ppm benzene, and 50 ppm total BTEX. The sample results collected on 10/22/14 returned results below the standards for TPH via USEPA Method 8015. No further action is required regarding this incident. \*All documents attached

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: <i>Logan Hixon</i>	OIL CONSERVATION DIVISION	
Printed Name: Logan Hixon	Approved by Environmental Specialist: <i>[Signature]</i>	
Title: EHS Coordinator	Approval Date: 1/8/15	Expiration Date:
E-mail Address: Logan_Hixon@xtoenergy.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 12-9-14	Phone: 505-333-3683	

\* Attach Additional Sheets If Necessary

25

# LC KELLY 3F

**Well lat and long**

121-125 Road 3536  
Flora Vista, NM 87415  
United States  
(36.846519, -108.110603)

**API**

30-045-33238

**State**

NM

**County**

SJ

**Time On-Site**

10/22/14, 8:50 AM

**Reason for On-Site**

BGT COMPOSITE FAILED- dig to sand stone 4" re-sample for 8015

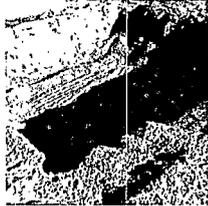
**Contractors On Site**

Yes

**Land Usage**

range

Audit

<b>Ranking</b>	
Distance to water well	20
Total ranking	20
<b>Sample 1</b>	
Time sample collected	10/22/14, 9:00 AM
Sample description	BGT BOTTOM COMPOSITE 4" less than .5 cy
Characteristic	sandstone base sand
Analysis Requested	yes      8015(DRO/GRO)
  <p style="text-align: center;"><i>Appendix 1</i>                      <i>Appendix 2</i></p>	
LAT and LONG	121-125 Road 3536 Flora Vista, NM 87415 United States (36.846550, -108.110634)
Print Name & Sign	LOGAN H.
Company	XTO
	10/22/14, 9:20 AM

# Media



*Appendix 1*



*Appendix 2*



## Analytical Report

### Report Summary

Client: XTO Energy Inc.

Chain Of Custody Number: 0101

Samples Received: 10/22/2014 4:15:00PM

Job Number: 98031-0528

Work Order: P410098

Project Name/Location: LC Kelly 3F

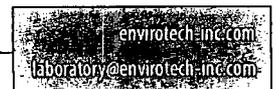
Entire Report Reviewed By:

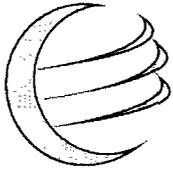
A handwritten signature in black ink, appearing to read "Tim Cain", is written over a horizontal line.

Date: 10/24/14

Tim Cain, Laboratory Manager

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. If you have any questions regarding this analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.





# envirotech

Analytical Laboratory

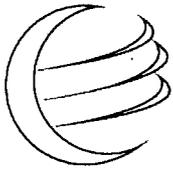
XTO Energy Inc. 382 CR 3100 Aztec NM, 87410	Project Name: LC Kelly 3F Project Number: 98031-0528 Project Manager: Logan Hixon	Reported: 24-Oct-14 11:07
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## Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BGT Composite 4" Sandstone	P410098-01A	Soil	10/22/14	10/22/14	Glass Jar, 4 oz.

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# envirotech

Analytical Laboratory

XTO Energy Inc.	Project Name:	LC Kelly 3F	<b>Reported:</b> 24-Oct-14 11:07
382 CR 3100	Project Number:	98031-0528	
Aztec NM, 87410	Project Manager:	Logan Hixon	

**BGT Composite 4" Sandstone**  
**P410098-01 (Solid)**

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					

**Nonhalogenated Organics by 8015**

Gasoline Range Organics (C6-C10)	ND	9.99	mg/kg	1	1443037	10/22/14	10/23/14	EPA 8015D	
Diesel Range Organics (C10-C28)	<b>939</b>	40.0	mg/kg	2	1443038	10/22/14	10/23/14	EPA 8015D	
<i>Surrogate: o-Terphenyl</i>		<i>93.6 %</i>		<i>50-200</i>	<i>1443038</i>	<i>10/22/14</i>	<i>10/23/14</i>	<i>EPA 8015D</i>	
<i>Surrogate: 4-Bromochlorobenzene-FTD</i>		<i>87.9 %</i>		<i>50-150</i>	<i>1443037</i>	<i>10/22/14</i>	<i>10/23/14</i>	<i>EPA 8015D</i>	

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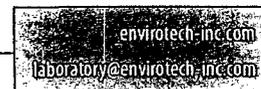


X'TO Energy Inc. 382 CR 3100 Aztec NM, 87410	Project Name: LC Kelly 3F Project Number: 98031-0528 Project Manager: Logan Hixon	Reported: 24-Oct-14 11:07
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**Nonhalogenated Organics by 8015 - Quality Control**  
**Envirotech Analytical Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1443037 - Purge and Trap EPA 5030A</b>										
<b>Blank (1443037-BLK1)</b>					Prepared: 22-Oct-14 Analyzed: 23-Oct-14					
Gasoline Range Organics (C6-C10)	ND	9.99	mg/kg							
Surrogate: 4-Bromochlorobenzene-FID	0.373		"	0.400		93.3	50-150			
<b>LCS (1443037-BS1)</b>					Prepared: 22-Oct-14 Analyzed: 23-Oct-14					
Gasoline Range Organics (C6-C10)	269	9.99	mg/kg	292		92.2	80-120			
Surrogate: 4-Bromochlorobenzene-FID	0.366		"	0.400		91.5	50-150			
<b>Matrix Spike (1443037-MS1)</b>					Source: P410097-01 Prepared: 22-Oct-14 Analyzed: 23-Oct-14					
Gasoline Range Organics (C6-C10)	271	10.0	mg/kg	292	ND	92.9	75-125			
Surrogate: 4-Bromochlorobenzene-FID	0.362		"	0.400		90.6	50-150			
<b>Matrix Spike Dup (1443037-MSD1)</b>					Source: P410097-01 Prepared: 22-Oct-14 Analyzed: 23-Oct-14					
Gasoline Range Organics (C6-C10)	273	9.99	mg/kg	292	ND	93.6	75-125	0.638	15	
Surrogate: 4-Bromochlorobenzene-FID	0.364		"	0.400		91.2	50-150			

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XTO Energy Inc. 382 CR 3100 Aztec NM, 87410	Project Name: LC Kelly 3F Project Number: 98031-0528 Project Manager: Logan Hixon	Reported: 24-Oct-14 11:07
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**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
<b>Batch 1443038 - DRO Extraction EPA 3550M</b>										
<b>Blank (1443038-BLK1)</b>					Prepared: 22-Oct-14 Analyzed: 23-Oct-14					
Diesel Range Organics (C10-C28)	ND	24.9	mg/kg							
Surrogate: <i>o</i> -Terphenyl	35.7		"	39.9		89.5	50-200			
<b>LCS (1443038-BS1)</b>					Prepared: 22-Oct-14 Analyzed: 23-Oct-14					
Diesel Range Organics (C10-C28)	455	25.0	mg/kg	500		91.0	38-132			
Surrogate: <i>o</i> -Terphenyl	38.7		"	40.0		96.8	50-200			
<b>Matrix Spike (1443038-MS1)</b>					Source: P410097-01 Prepared & Analyzed: 23-Oct-14					
Diesel Range Organics (C10-C28)	708	34.9	mg/kg	498	508	40.1	38-132			
Surrogate: <i>o</i> -Terphenyl	42.3		"	39.9		106	50-200			
<b>Matrix Spike Dup (1443038-MSD1)</b>					Source: P410097-01 Prepared & Analyzed: 23-Oct-14					
Diesel Range Organics (C10-C28)	874	35.0	mg/kg	500	508	73.2	38-132	21.0	20	D1
Surrogate: <i>o</i> -Terphenyl	43.2		"	40.0		108	50-200			

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XTO Energy Inc. 382 CR 3100 Aztec NM, 87410	Project Name: LC Kelly 3F Project Number: 98031-0528 Project Manager: Logan Hixon	Reported: 24-Oct-14 11:07
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**Notes and Definitions**

- D1 Duplicates or Matrix Spike Duplicates Relative Percent Difference exceeds 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

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## Hixon, Logan

---

**From:** Hixon, Logan  
**Sent:** Friday, October 24, 2014 10:26 AM  
**To:** BRANDON POWELL (brandon.powell@state.nm.us); Smith, Cory, EMNRD  
**Cc:** McDaniel, James (James\_McDaniel@xtoenergy.com); Hoekstra, Kurt; Espinosa, Tony; Trujillo, Marcos (Marcos\_Trujillo@xtoenergy.com); Dawes, Thomas (Thomas\_Dawes@xtoenergy.com); Daniels, Melissa (Melissa\_Daniels@xtoenergy.com)  
**Subject:** BGT Closure Request: LC Kelly 3F (30-045-33238)  
**Attachments:** 10-23-14 Siting Report.pdf; 10-21-14 ET Results, DRO 1030, 418.1-13600.pdf; 10-22-14 Sampling Event.docx; 10-23-14 Sample Results.pdf

Brandon/Cory,

XTO is requesting to close the BGT at the following site with sample results above the standards for this site per the NMOCD Guidelines for the Remediation of Leaks, Spills and Releases ranking. The site (LC Kelly 3F) was ranked a 20 due to a water source that is located less than 1,000 feet. This set the closure standard to 100 ppm TPH, 10 ppm benzene, and 50 ppm total BTEX. XTO requests this closure due to a consolidated sandstone base located in the bottom of the BGT cellar, XTO has reached the furthest vertical extent practical, and the majority of the TPH make up being derived of DRO, which is non mobile and is not believed to be a threat to human health or the environment. Attached for your review and approval are the siting report, confirmation sample results from 10/17/14, onsite form from 10/22/14, and sample results from 10/22/14. Thank you for your time in regards to this site and have a good day!

*If you have any questions or concerns do not hesitate to contact me at anytime. Thank you and have a good day!*

***Thank You!***

XTO ENERGY INC., an ExxonMobil subsidiary

Logan Hixon | 72 Suttle Street, Suite J | Durango, CO 81303 | ph: 970-247-7708 | Cell: 505-386-8018

Logan Hixon | 382 CR 3100 | Aztec, NM 87410 | ph: 505-333-3100 | [Logan\\_Hixon@xtoenergy.com](mailto:Logan_Hixon@xtoenergy.com)

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## Hixon, Logan

---

**From:** Hixon, Logan  
**Sent:** Monday, November 03, 2014 9:22 AM  
**To:** BRANDON POWELL (brandon.powell@state.nm.us); Smith, Cory, EMNRD  
**Cc:** McDaniel, James (James\_McDaniel@xtoenergy.com); Hoekstra, Kurt; Espinosa, Tony; Trujillo, Marcos (Marcos\_Trujillo@xtoenergy.com); Dawes, Thomas (Thomas\_Dawes@xtoenergy.com); Daniels, Melissa (Melissa\_Daniels@xtoenergy.com); Baxstrom, Scott (Scott\_Baxstrom@xtoenergy.com); Beaty, Brent (Brent\_Beaty@xtoenergy.com); McCollum, Luke (Luke\_McCollum@xtoenergy.com)  
**Subject:** BGT Closure Request: LC Kelly 3F (30-045-33238)  
**Attachments:** 10-24-14 BGT Closure Request\_LC Kelly 3F (30-045-33238).pdf; 10-24-14 Final Results.pdf; 10-21-14 ET Results, DRO 1030, 418.1-13600.pdf; 10-22-14 Sampling Event.docx; 10-23-14 Siting Report.pdf

Brandon/ Cory,

Attached is the original email for this site that was discussed with you on Thursday last week. Below is the request that XTO has for this sites BGT Closure. Thank you for the help and have a good day!

XTO is requesting to close the BGT at the following site with sample results above the standards for this site per the NMOCD Guidelines for the Remediation of Leaks, Spills and Releases ranking. The site (LC Kelly 3F) was ranked a 20 due to a water source that is located less than 1,000 feet. This set the closure standard to 100 ppm TPH, 10 ppm benzene, and 50 ppm total BTEX. XTO requests this closure due to a consolidated sandstone base located in the bottom of the BGT cellar, XTO has reached the furthest vertical extent practical, and the majority of the TPH make up being derived of DRO, which is non mobile and is not believed to be a threat to human health or the environment. Attached for your review and approval are the siting report, confirmation sample results from 10/17/14, onsite form from 10/22/14, and sample results from 10/22/14. Thank you for your time in regards to this site and have a good day!

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**Thank You!**

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## Hixon, Logan

---

**From:** Smith, Cory, EMNRD <Cory.Smith@state.nm.us>  
**Sent:** Monday, November 03, 2014 2:25 PM  
**To:** Hixon, Logan; Powell, Brandon, EMNRD  
**Cc:** McDaniel, James; Hoekstra, Kurt; Espinosa, Tony; Trujillo, Marcos; Dawes, Thomas; Daniels, Melissa; Baxstrom, Scott; Beaty, Brent; McCollum, Luke  
**Subject:** RE: BGT Closure Request: LC Kelly 3F (30-045-33238)

Mr. Hixon,

Upon review of the Data, NMOCD believes that the iWater data base has possibly located the SJ 02145 water well in the wrong location, therefore possible changing the site ranking at the LC Kelly 3F to be a 10 due to the distance to a Surface Water Body ~ 580' to the East.

- NMOCD is requesting that XTO do an onsite inspection to verify that the water well SJ 02145 is not within 1000'.

Upon completion of inspection, if the result show that there are no water wells within 1000' of the LC Kelly 3F, XTO may close the excavation. If the inspection shows a water well is within 1000' please provide coordinates of the well so a proper analysis may be performed for alternate closure standards.

If you have any questions please contact me at your leisure.

Cory Smith  
Environmental Specialist  
Oil Conservation Division  
Energy, Minerals, & Natural Resources  
1000 Rio Brazos, Aztec, NM 87410  
(505)334-6178 ext 115  
[cory.smith@state.nm.us](mailto:cory.smith@state.nm.us)

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**From:** Hixon, Logan [[mailto:Logan\\_Hixon@xtoenergy.com](mailto:Logan_Hixon@xtoenergy.com)]  
**Sent:** Monday, November 03, 2014 9:22 AM  
**To:** Powell, Brandon, EMNRD; Smith, Cory, EMNRD  
**Cc:** McDaniel, James; Hoekstra, Kurt; Espinosa, Tony; Trujillo, Marcos; Dawes, Thomas; Daniels, Melissa; Baxstrom, Scott; Beaty, Brent; McCollum, Luke  
**Subject:** BGT Closure Request: LC Kelly 3F (30-045-33238)

Brandon/ Cory,

Attached is the original email for this site that was discussed with you on Thursday last week. Below is the request that XTO has for this sites BGT Closure. Thank you for the help and have a good day!

XTO is requesting to close the BGT at the following site with sample results above the standards for this site per the NMOCD Guidelines for the Remediation of Leaks, Spills and Releases ranking. The site (LC Kelly 3F) was ranked a 20 due to a water source that is located

less than 1,000 feet. This set the closure standard to 100 ppm TPH, 10 ppm benzene, and 50 ppm total BTEX. XTO requests this closure due to a consolidated sandstone base located in the bottom of the BGT cellar, XTO has reached the furthest vertical extent practical, and the majority of the TPH make up being derived of DRO, which is non mobile and is not believed to be a threat to human health or the environment. Attached for your review and approval are the siting report, confirmation sample results from 10/17/14, onsite form from 10/22/14, and sample results from 10/22/14. Thank you for your time in regards to this site and have a good day!

*If you have any questions or concerns do not hesitate to contact me at anytime. Thank you and have a good day!*

**Thank You!**

XTO ENERGY INC., an ExxonMobil subsidiary

Logan Hixon | 72 Suttle Street, Suite J | Durango, CO 81303 | ph: 970-247-7708 | Cell: 505-386-8018

Logan Hixon | 382 CR 3100 | Aztec, NM 87410 | ph: 505-333-3100 | [Logan\\_Hixon@xtoenergy.com](mailto:Logan_Hixon@xtoenergy.com)

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## Analytical Report

### Report Summary

Client: XTO Energy Inc.

Chain Of Custody Number: 17900

Samples Received: 10/17/2014 3:25:00PM

Job Number: 98031-0528

Work Order: P410074

Project Name/Location: LC Kelly #3F

Entire Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Tim Cain', is written over a horizontal line.

Date: 10/21/14

Tim Cain, Laboratory Manager

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. If you have any questions regarding this analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.



XTO Energy Inc. 382 CR 3100 Aztec NM, 87410	Project Name: LC Kelly #3F Project Number: 98031-0528 Project Manager: James McDaniel	Reported: 21-Oct-14 13:03
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### Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BGT Cellar (Sandstone)	P410074-01A	Soil	10/17/14	10/17/14	Glass Jar, 4 oz.
	P410074-01B	Soil	10/17/14	10/17/14	Glass Jar, 4 oz.

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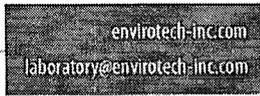


XTO Energy Inc. 382 CR 3100 Aztec NM, 87410	Project Name: LC Kelly #3F Project Number: 98031-0528 Project Manager: James McDaniel	Reported: 21-Oct-14 13:03
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**BGT Cellar (Sandstone)  
P410074-01 (Solid)**

Analyte	Result	Reporting			Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units							
<b>Volatile Organics by EPA 8021</b>										
Benzene	ND	0.10	mg/kg	1	1442036	10/17/14	10/20/14	EPA 8021B		
Toluene	ND	0.10	mg/kg	1	1442036	10/17/14	10/20/14	EPA 8021B		
Ethylbenzene	ND	0.10	mg/kg	1	1442036	10/17/14	10/20/14	EPA 8021B		
p,m-Xylene	ND	0.20	mg/kg	1	1442036	10/17/14	10/20/14	EPA 8021B		
o-Xylene	ND	0.10	mg/kg	1	1442036	10/17/14	10/20/14	EPA 8021B		
Total Xylenes	ND	0.10	mg/kg	1	1442036	10/17/14	10/20/14	EPA 8021B		
Total BTEX	ND	0.10	mg/kg	1	1442036	10/17/14	10/20/14	EPA 8021B		
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		121 %		50-150	1442036	10/17/14	10/20/14	EPA 8021B		
<b>Nonhalogenated Organics by 8015</b>										
Gasoline Range Organics (C6-C10)	ND	9.99	mg/kg	1	1442036	10/17/14	10/20/14	EPA 8015D		
Diesel Range Organics (C10-C28)	1030	40.0	mg/kg	2	1442035	10/17/14	10/20/14	EPA 8015D		
<i>Surrogate: o-Terphenyl</i>		113 %		50-200	1442035	10/17/14	10/20/14	EPA 8015D		
<i>Surrogate: 4-Bromochlorobenzene-FID</i>		111 %		50-150	1442036	10/17/14	10/20/14	EPA 8015D		
<b>Total Petroleum Hydrocarbons by 418.1</b>										
Total Petroleum Hydrocarbons	13600	350	mg/kg	10	1443014	10/20/14	10/20/14	EPA 418.1		
<b>Cation/Anion Analysis</b>										
Chloride	228	9.90	mg/kg	1	1443001	10/20/14	10/20/14	EPA 300.0		

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XTO Energy Inc. 382 CR 3100 Aztec NM, 87410	Project Name: LC Kelly #3F Project Number: 98031-0528 Project Manager: James McDaniel	Reported: 21-Oct-14 13:03
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**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
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**Batch 1442036 - Purge and Trap EPA 5030A**

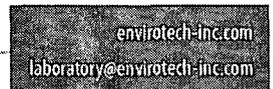
<b>Blank (1442036-BLK1)</b>			Prepared & Analyzed: 17-Oct-14							
Benzene	ND	0.10	mg/kg							
Toluene	ND	0.10	"							
Ethylbenzene	ND	0.10	"							
p,m-Xylene	ND	0.20	"							
o-Xylene	ND	0.10	"							
Total Xylenes	ND	0.10	"							
Total BTEX	ND	0.10	"							
Surrogate: 4-Bromochlorobenzene-PID	0.387		"	0.399		96.9	50-150			

<b>LCS (1442036-BS1)</b>			Prepared & Analyzed: 17-Oct-14							
Benzene	20.8	0.10	mg/kg	20.0		104	75-125			
Toluene	19.7	0.10	"	20.0		98.8	70-125			
Ethylbenzene	19.5	0.10	"	20.0		97.3	75-125			
p,m-Xylene	38.6	0.20	"	40.0		96.5	80-125			
o-Xylene	19.0	0.10	"	20.0		95.1	75-125			
Surrogate: 4-Bromochlorobenzene-PID	0.408		"	0.400		102	50-150			

<b>Matrix Spike (1442036-MS1)</b>			Source: P410064-01		Prepared & Analyzed: 17-Oct-14					
Benzene	19.2	0.10	mg/kg	19.9	ND	96.4	75-125			
Toluene	19.3	0.10	"	19.9	ND	97.0	70-125			
Ethylbenzene	19.5	0.10	"	19.9	ND	97.9	75-125			
p,m-Xylene	39.5	0.20	"	39.9	ND	99.0	80-125			
o-Xylene	19.6	0.10	"	19.9	ND	98.2	75-125			
Surrogate: 4-Bromochlorobenzene-PID	0.407		"	0.399		102	50-150			

<b>Matrix Spike Dup (1442036-MSD1)</b>			Source: P410064-01		Prepared & Analyzed: 17-Oct-14					
Benzene	19.3	0.10	mg/kg	20.0	ND	96.7	75-125	0.431	15	
Toluene	19.5	0.10	"	20.0	ND	97.9	70-125	1.03	15	
Ethylbenzene	19.6	0.10	"	20.0	ND	98.2	75-125	0.393	15	
p,m-Xylene	39.7	0.20	"	39.9	ND	99.4	80-125	0.472	15	
o-Xylene	19.7	0.10	"	20.0	ND	98.7	75-125	0.665	15	
Surrogate: 4-Bromochlorobenzene-PID	0.408		"	0.399		102	50-150			

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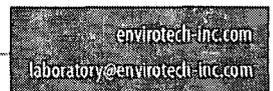
XTO Energy Inc. 382 CR 3100 Aztec NM, 87410	Project Name: LC Kelly #3F Project Number: 98031-0528 Project Manager: James McDaniel	Reported: 21-Oct-14 13:03
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**Nonhalogenated Organics by 8015 - Quality Control**

**Envirotech Analytical Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1442035 - DRO Extraction EPA 3550M</b>										
<b>Blank (1442035-BLK1)</b>				Prepared & Analyzed: 17-Oct-14						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Surrogate: <i>o</i> -Terphenyl	40.2		"	40.0		101	50-200			
<b>LCS (1442035-BS1)</b>				Prepared & Analyzed: 17-Oct-14						
Diesel Range Organics (C10-C28)	554	25.0	mg/kg	500		111	38-132			
Surrogate: <i>o</i> -Terphenyl	48.0		"	40.0		120	50-200			
<b>Matrix Spike (1442035-MS1)</b>				Source: P410065-01		Prepared & Analyzed: 17-Oct-14				
Diesel Range Organics (C10-C28)	682	35.0	mg/kg	500	ND	137	38-132			SPK1
Surrogate: <i>o</i> -Terphenyl	59.3		"	40.0		148	50-200			
<b>Matrix Spike Dup (1442035-MSD1)</b>				Source: P410065-01		Prepared & Analyzed: 17-Oct-14				
Diesel Range Organics (C10-C28)	771	35.0	mg/kg	500	ND	154	38-132	12.2	20	SPK1
Surrogate: <i>o</i> -Terphenyl	68.6		"	40.0		172	50-200			

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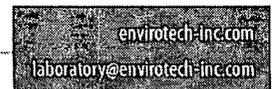


XTO Energy Inc. 382 CR 3100 Aztec NM, 87410	Project Name: LC Kelly #3F Project Number: 98031-0528 Project Manager: James McDaniel	Reported: 21-Oct-14 13:03
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**Nonhalogenated Organics by 8015 - Quality Control**  
**Envirotech Analytical Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1442036 - Purge and Trap EPA 5030A</b>										
<b>Blank (1442036-BLK1)</b> Prepared & Analyzed: 17-Oct-14										
Gasoline Range Organics (C6-C10)	ND	9.98	mg/kg							
<i>Surrogate: 4-Bromochlorobenzene-FID</i>	0.353		"	0.399		88.5	50-150			
<b>LCS (1442036-BS1)</b> Prepared & Analyzed: 17-Oct-14										
Gasoline Range Organics (C6-C10)	277	9.99	mg/kg	292		95.0	80-120			
<i>Surrogate: 4-Bromochlorobenzene-FID</i>	0.375		"	0.400		93.8	50-150			
<b>Matrix Spike (1442036-MS1)</b> Source: P410064-01 Prepared & Analyzed: 17-Oct-14										
Gasoline Range Organics (C6-C10)	278	9.96	mg/kg	291	ND	95.6	75-125			
<i>Surrogate: 4-Bromochlorobenzene-FID</i>	0.370		"	0.399		92.8	50-150			
<b>Matrix Spike Dup (1442036-MSD1)</b> Source: P410064-01 *Prepared & Analyzed: 17-Oct-14										
Gasoline Range Organics (C6-C10)	279	9.98	mg/kg	291	ND	95.9	75-125	0.477	15	
<i>Surrogate: 4-Bromochlorobenzene-FID</i>	0.372		"	0.399		93.2	50-150			

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XTO Energy Inc. 382 CR 3100 Aztec NM, 87410	Project Name: LC Kelly #3F Project Number: 98031-0528 Project Manager: James McDaniel	Reported: 21-Oct-14 13:03
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**Total Petroleum Hydrocarbons by 418.1 - Quality Control**

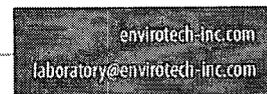
**Envirotech Analytical Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1443014 - 418 Freon Extraction**

<b>Blank (1443014-BLK1)</b>				Prepared & Analyzed: 20-Oct-14						
Total Petroleum Hydrocarbons	ND	34.9	mg/kg							
<b>Duplicate (1443014-DUP1)</b>				Source: P410074-01 Prepared & Analyzed: 20-Oct-14						
Total Petroleum Hydrocarbons	13500	350	mg/kg		13600			0.914	30	
<b>Matrix Spike (1443014-MS1)</b>				Source: P410074-01 Prepared & Analyzed: 20-Oct-14						
Total Petroleum Hydrocarbons	16000	349	mg/kg	2010	13600	117	80-120			

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XTO Energy Inc. 382 CR 3100 Aztec NM, 87410	Project Name: LC Kelly #3F Project Number: 98031-0528 Project Manager: James McDaniel	Reported: 21-Oct-14 13:03
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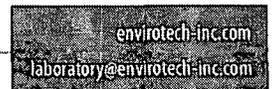
**Cation/Anion Analysis - Quality Control**  
**Envirotech Analytical Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1443001 - Anion Extraction EPA 300.0**

<b>Blank (1443001-BLK1)</b>				Prepared & Analyzed: 20-Oct-14						
Chloride	ND	9.87	mg/kg							
<b>LCS (1443001-BS1)</b>				Prepared & Analyzed: 20-Oct-14						
Chloride	495	9.91	mg/kg	496		99.9	90-110			
<b>Matrix Spike (1443001-MS1)</b>				Source: P410074-01		Prepared & Analyzed: 20-Oct-14				
Chloride	728	9.97	mg/kg	498	228	100	80-120			
<b>Matrix Spike Dup (1443001-MSD1)</b>				Source: P410074-01		Prepared & Analyzed: 20-Oct-14				
Chloride	722	9.90	mg/kg	495	228	99.9	80-120	0.794	20	

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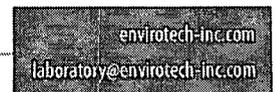


XTO Energy Inc. 382 CR 3100 Aztec NM, 87410	Project Name: LC Kelly #3F Project Number: 98031-0528 Project Manager: James McDaniel	Reported: 21-Oct-14 13:03
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**Notes and Definitions**

- 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

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# CHAIN OF CUSTODY RECORD

17900

Client: <b>XTO Energy</b>	Project Name / Location: <b>LC Kelly #3F</b>	ANALYSIS / PARAMETERS											
Email results to: <b>James McDaniel</b>	Sampler Name: <b>J McDaniel</b>	TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE	Sample Cool	Sample Intact
Client Phone No.:	Client No.: <b>98031-0528</b>												

Sample No./ Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE	Sample Cool	Sample Intact
					HNO <sub>3</sub>	HCl	cool												
BGT Cellar (Sanction)	10/17/14	1445	P410074-01	2/4oz			X	X	X							X	X	X	X

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	10/17/14	15:25		10/17/14	15:25
Relinquished by: (Signature)			Received by: (Signature)		
Sample Matrix					
Soil <input checked="" type="checkbox"/> Solid <input type="checkbox"/> Sludge <input type="checkbox"/> Aqueous <input type="checkbox"/> Other <input type="checkbox"/>					

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

RUSH

**envirotech**  
Analytical Laboratory

18.6    19.1  
 18.85

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