

November 10, 2011

Mr. Mike Bratcher  
Environmental Specialist  
NMOCD District 2  
811 S. First Street  
Artesia, NM 88210

RE: Crude Oil Spill – August 30, 2011  
Remuda Basin Lease #080423  
XTO Energy Site  
Eddy County, New Mexico

Dear Mr. Bratcher,

Enclosed, please find one copy of the Clean-up and Remediation Soil Assessment Report for the crude oil release at the Remuda Basin Lease #080423 in Eddy County, New Mexico.

If you require any additional information, please contact me, at (214) 461-5563 or by email [celestek@taylorgasliquids.com](mailto:celestek@taylorgasliquids.com).

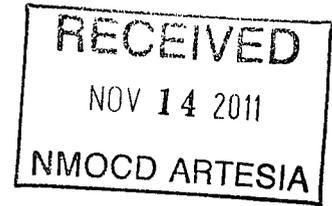
Regards,  
TPG Transport, LLC

A handwritten signature in black ink, appearing to read 'Celeste J. Kaban', written over the typed name.

Celeste J. Kaban  
HSSE and Environmental Compliance

Cc. Ms. Velma Gallardo, XTO Energy Inc.

3819 Towne Crossing Blvd. # 100  
Mesquite, TX 75150



March 31, 2011

AMARILLO  
921 North Bivins  
Amarillo, Texas 79107  
Phone 806.467.0607  
Fax 806.467.0622

Mr. Mike Bratcher  
**NMOCD District 2**  
1301 West Grand Avenue  
Artesia, NM 88210

ARTESIA  
408 West Texas Ave.  
Artesia, New Mexico 88210  
Phone 575.746.8768  
Fax 575.746.8905

**Subject: Soil Assessment and Remediation Report**  
**XTO Tank Battery S19-T23S-R30E**  
**Remuda Basin Crude Oil Release**

AUSTIN  
911 West Anderson Lane  
Suite 202  
Austin, Texas 78757  
Phone 512.989.3428  
Fax 512.989.3487

Dear Mr. Bratcher,

TPG Transport LLC has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above referenced Remuda Basin Bulk Petroleum Storage facility. The incident description, soil assessment, remediation activities and closure request are submitted herein.

HOBBS  
318 East Taylor Street  
Hobbs, New Mexico 88240  
Phone 575.393.4261  
Fax 575.393.4658

**Incident Date**

August 30, 2010

MIDLAND  
2901 State Hwy 349  
Midland, Texas 79706  
Phone 432.522.2133  
Fax 432.522.2180

**Background Information**

The Remuda Basin tank Battery is located approximately twenty (20) miles southeast of Carlsbad, New Mexico. The legal location for the site is Section 19 - Township 23S - Range 30E. This site and surrounding topography have little to no slope and drainage courses in this area are normally dry. The local surface and shallow geology includes silty soils under lain by sand stone and clay layers, providing an impermeable barrier to the migration of fluids in the area of the release. The New Mexico State Engineer web site indicates the nearest ground water data to be in S19-T23S-R30E. The ground water in Section 19 is reported to be at an average depth of 350' below ground surface (bgs).

SAN ANTONIO  
17170 Jordan Rd  
Suite 102  
Selma, Texas 78154  
Phone 210.265.8025  
Fax 210.568.2191

The ranking for this site is 0 based on the following:

- Depth to ground water >100'
- Wellhead Protection Area >1000'
- Distance to surface water body >1000'

ENVIRONMENTAL CONSULTING  
ENGINEERING  
DRILLING  
CONSTRUCTION  
SPILL MANAGEMENT  
GENERAL CONTRACTING

Toll Free: 866.742.0742  
www.talonlpe.com

## Incident Description

On August 30, 2010 a transport truck owned by TPG Transport LLC was loading crude oil from the Remuda Basin tank battery. Due to driver error, fifty-three (53) barrels of crude oil were released into the bermed area of the tank battery. The release area was measured to be approximately two hundred (200') feet in length and average approximately twenty to forty (20'-40') feet in width. The release area was located on the eastern portion of, and contained within the tank battery berm. This area contains production equipment along with hydrocarbon and produced water bulk storage tanks. A site plan is attached.

## Actions Taken

On August 30, 2010 a vacuum truck was utilized to recover 46 barrels of crude oil. On September 2, 2010 Talon/LPE mobilized personnel to begin soil sampling and site assessment activities. A hand auger was used to obtain vertical delineation samples for TPH (total petroleum hydrocarbons) and BTEX (volatile organics). A series of eight grab samples were collected from the impacted area located within the bermed area of the tank battery. The soil sample locations were labeled S-1, S-2 and S-3 and are illustrated on the attached Site Plan.

The samples were collected from the surface of the release area to a depth of one to two feet (1'-2') below ground surface (bgs) within the crude oil impacted area. All soil samples were collected by Talon personnel utilizing a hand auger and wearing clean nitrile gloves. The soil samples were placed in laboratory provided sample containers, iced and transported to Cardinal Laboratories in Hobbs, New Mexico for analysis. Samples were tested for BTEX (volatile organics) using Method 8021B, and TPH (total petroleum hydrocarbons) analysis per Method 8015M.

## Analytical Results

Analytical results detailed on the attached laboratory report dated September 10, 2010 are summarized below.

<u>Sample, Depth</u>	<u>BTEX</u>	<u>TPH</u> (mg/kg)
S-1 surface	<50	1830 mg/kg
S-1 0.5'	ND*	181
S-1 1.0'	ND	ND
S-2 surface	<50	4407
S-2 1.0'	ND	14.7
S-2 2.0'	ND	ND

<u>Sample</u> , <u>Depth</u>	<u>BTEX</u>	<u>TPH</u> (mg/kg)
S-3 surface	<50	6149 mg/kg
S-3 1.0'	83	5300

\*ND Not Detected within laboratory method detection limits

For this site's ranking, New Mexico Oil Conservation District (NMOCD) action level criteria for BTEX are 50 mg/kg, Benzene is 10 mg/kg and TPH is 5,000 mg/kg.

### **Remedial Actions**

Based on the fact that there are a number of underground utility lines unable to be located at the site, traditional excavation and disposal methods for the impacted soils was not a feasible option. Because the release consisted solely of crude oil, and following discussions with client and review of the above referenced petroleum analytical data; a spray application of a bio-remediation agent (Micro Blaze) and a follow up 90-day soil sampling event was deemed a viable and practical remedial alternative.

On the morning of November 13, 2010 Talon personnel remobilized to the subject facility to carry out remedial actions. The impacted area was scraped/furrowed using pick axes and hand tools to enhance adsorption of the Micro Blaze solution into the location. A total of 500-gallons of fresh water and Micro Blaze were mixed according to manufacture specifications and spray applied to the impacted area.

On the afternoon of November 13, 2010 a second 500-gallon Micro Blaze application was sprayed onto the area impacted by the crude oil release.

On January 28, 2011, confirmation soil samples were collected from the same general areas previously sampled and placed in laboratory provided sample containers. All soil samples were collected by Talon personnel wearing clean nitrile gloves. The soil samples were placed in laboratory provided sample containers, iced and transported to Cardinal Laboratories in Hobbs, New Mexico for analysis. Samples were tested for TPH (total petroleum hydrocarbons) analysis per Method 8015M and BTEX (volatile organics) via Method 8021B. A copy of the lab report dated February 1, 2011 is attached hereto and summarized on the following data table.

<u>Sample, Depth</u>	<u>BTEX</u>	<u>TPH (mg/kg)</u>
S-1 0-feet	*	3540 mg/kg
S-2 0'	*	131
S-3 0'	ND**	407
S-3 1'	ND	ND
S-3 2'	*	ND

\* Analyte not tested.

\*\* ND Not detected within laboratory method detection limits.

For this site's ranking, NMOCD action level criteria for BTEX are 50 mg/kg, Benzene is 10 mg/kg and TPH is 5,000 mg/kg.

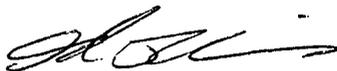
### **Conclusions and Recommendations**

- Groundwater in the project vicinity is reported to be approximately 350-feet below land surface per the New Mexico State Engineer database.
- 53-barrels of crude oil were released and 46-barrels were recovered the same day. The release was completely contained within the bermed area of the tank battery.
- Remedial actions consisting of 1,000-gallons of Micro Blaze solution were spray applied to the impacted area.
- Based upon the results of the sampling and analytical program, all chemical parameters tested for are reported to be below their respective Recommended Remedial Action Levels (RRALs).
- Therefore, on behalf of TPG Transport and XTO Energy, we respectfully request that no further actions be required and that closure with respect to this release be granted.

Should you have any questions or if further information is required, please do not hesitate to contact us at 575.746.8768, or [dadkins@talonlpe.com](mailto:dadkins@talonlpe.com).

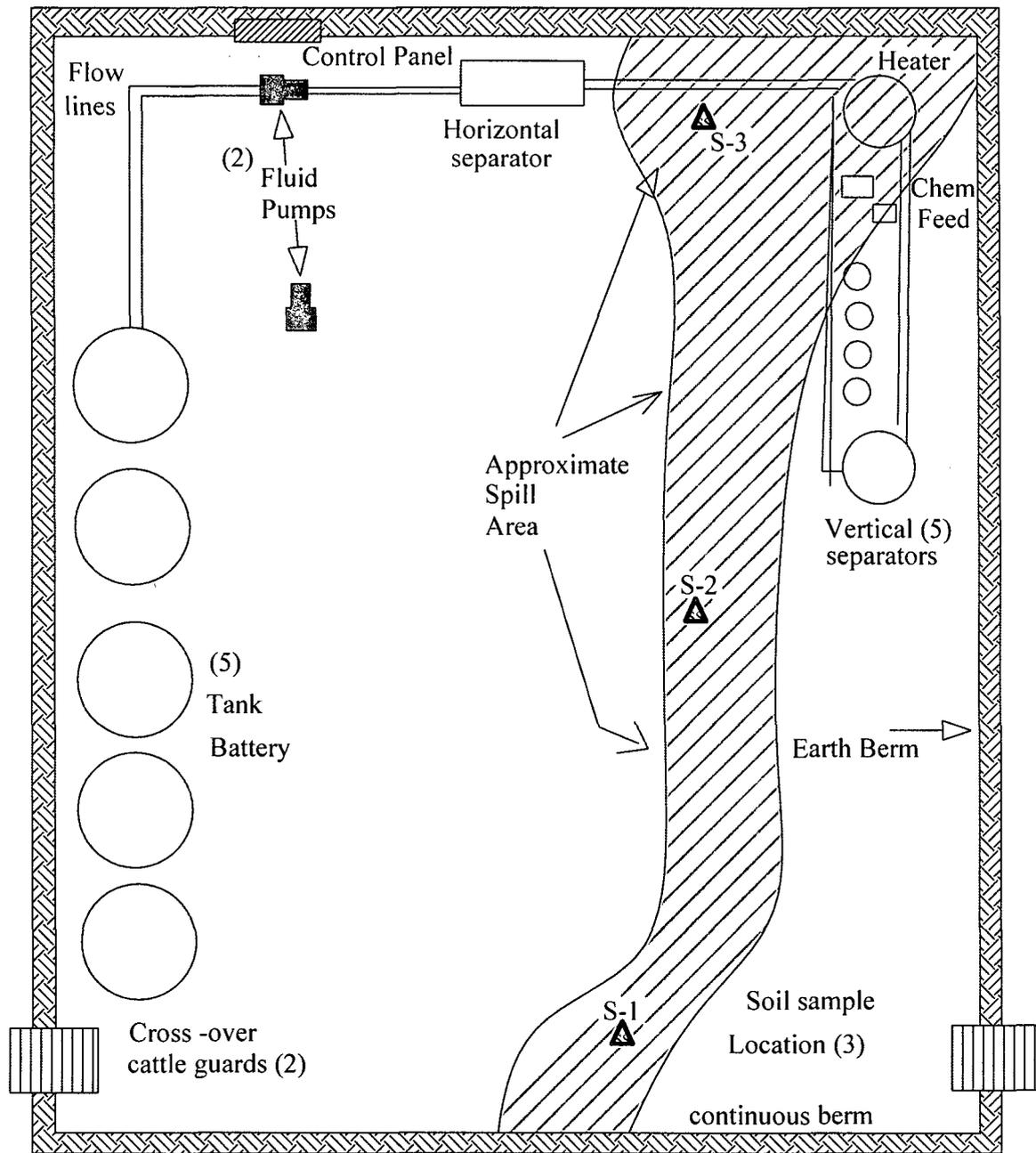
Respectfully submitted,

TALON/LPE



David J. Adkins  
District Manager

## **SITE PLAN**



Scale in Feet

Legend

▲ - Surface Soil Samples



Date: 03/16/2011

Scale: 1" = 30'

Drawn By: TJS

XTO Energy  
Remuda Basin Tank Battery  
Eddy County, New Mexico  
Site Plan

**GROUNDWATER DATA**



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

POD Number	Sub basin	Use	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
C 02095		STK	ED	2	3	34	23S	30E	606337	3569759*	554	440	114	
C 02486	C	PRO	ED	3	2	3	19	23S	30E	601304	3572832*	350		
C 02770		MON	ED	4	4	1	14	23S	30E	608004	3574921*	286		
C 02771		MON	ED	1	2	3	14	23S	30E	607807	3574718*	295		
C 02772		MON	ED	4	4	1	14	23S	30E	608004	3574921*	420		
C 03139		MON	ED	4	2	4	01	23S	30E	610424	3577764*	425		
C 03222 EXPLORE		MON	ED	1	1	4	12	23S	30E	609833	3576349*	365		

Average Depth to Water: 440 feet

Minimum Depth: 440 feet

Maximum Depth: 440 feet

**Record Count: 7**

**PLSS Search:**

Township: 23S Range: 30E

\*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

## **LABORATORY REPORTS**



September 10, 2010

DAVID ATKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: REMUDA BASIN CONSOL TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 09/03/10 13:06.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene  
Lab Director/Quality Manager

### Analytical Results For:

TALON LPE  
DAVID ATKINS  
408 W. TEXAS AVE.  
ARTESIA NM, 88210  
Fax To: (575) 745-8905

Received:	09/03/2010	Sampling Date:	09/02/2010
Reported:	09/10/2010	Sampling Type:	Soil
Project Name:	REMUDA BASIN CONSOL TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701296.002.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 19-23S-30E		

#### Sample ID: S-1 SURFACE (H020801-01)

BTEX 8021B	mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.290</b>	0.050	09/08/2010	ND	3050	122	2500	11.3	
<b>Toluene*</b>	<b>0.810</b>	0.050	09/08/2010	ND	2260	90.3	2500	7.35	
<b>Ethylbenzene*</b>	<b>0.230</b>	0.050	09/08/2010	ND	2340	93.5	2500	6.63	
<b>Total Xylenes*</b>	<b>1.14</b>	0.150	09/08/2010	ND	6980	93.0	7500	6.48	

Surrogate: 4-Bromofluorobenzene (PIL) 97.1 % 80-120

TPH 8015M	mg/kg		Analyzed By: AB							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<50.0	50.0	09/05/2010	ND	183	91.5	200	0.391		
<b>DRO &gt;C10-C28</b>	<b>1830</b>	50.0	09/05/2010	ND	191	95.5	200	17.7		

Surrogate: 1-Chlorooctane 19.6 % 70-130

Surrogate: 1-Chlorooctadecane 21.2 % 70-130

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

TALON LPE  
DAVID ATKINS  
408 W. TEXAS AVE.  
ARTESIA NM, 88210  
Fax To: (575) 745-8905

Received:	09/03/2010	Sampling Date:	09/02/2010
Reported:	09/10/2010	Sampling Type:	Soil
Project Name:	REMUDA BASIN CONSOL TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701296.002.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 19-23S-30E		

**Sample ID: S-1 .5' BGS (H020801-02)**

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/08/2010	ND	3050	122	2500	11.3	
Toluene*	<0.050	0.050	09/08/2010	ND	2260	90.3	2500	7.35	
Ethylbenzene*	<0.050	0.050	09/08/2010	ND	2340	93.5	2500	6.63	
Total Xylenes*	<0.150	0.150	09/08/2010	ND	6980	93.0	7500	6.48	

Surrogate: 4-Bromofluorobenzene (PIL) 93.6 % 80-120

TPH 8015M		mg/kg		Analyzed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/05/2010	ND	183	91.5	200	0.391	
<b>DRO &gt;C10-C28</b>	<b>181</b>	10.0	09/05/2010	ND	191	95.5	200	17.7	

Surrogate: 1-Chlorooctane 88.2 % 70-130

Surrogate: 1-Chlorooctadecane 79.1 % 70-130

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\*=Accredited Analyte

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Caley D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

TALON LPE  
 DAVID ATKINS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	09/03/2010	Sampling Date:	09/02/2010
Reported:	09/10/2010	Sampling Type:	Soil
Project Name:	REMUDA BASIN CONSOL TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701296.002.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 19-23S-30E		

**Sample ID: S-1 1' BGS (H020801-03)**

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/08/2010	ND	3050	122	2500	11.3		
Toluene*	<0.050	0.050	09/08/2010	ND	2260	90.3	2500	7.35		
Ethylbenzene*	<0.050	0.050	09/08/2010	ND	2340	93.5	2500	6.63		
Total Xylenes*	<0.150	0.150	09/08/2010	ND	6980	93.0	7500	6.48		

Surrogate: 4-Bromofluorobenzene (PII) 105 % 80-120

TPH 8015M		mg/kg		Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	09/05/2010	ND	183	91.5	200	0.391		
DRO >C10-C28	<10.0	10.0	09/05/2010	ND	191	95.5	200	17.7		

Surrogate: 1-Chlorooctane 87.2 % 70-130

Surrogate: 1-Chlorooctadecane 71.0 % 70-130

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 TALON LPE  
 DAVID ATKINS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	09/03/2010	Sampling Date:	09/02/2010
Reported:	09/10/2010	Sampling Type:	Soil
Project Name:	REMUDA BASIN CONSOL TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701296.002.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 19-23S-30E		

**Sample ID: S-2 SURFACE (H020801-04)**

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.102	0.050	09/08/2010	ND	3050	122	2500	11.3	
Toluene*	1.79	0.050	09/08/2010	ND	2260	90.3	2500	7.35	
Ethylbenzene*	1.32	0.050	09/08/2010	ND	2340	93.5	2500	6.63	
Total Xylenes*	6.83	0.150	09/08/2010	ND	6980	93.0	7500	6.48	

Surrogate: 4-Bromofluorobenzene (PII) 98.6 % 80-120

TPH 8015M		mg/kg		Analyzed By: AB						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	447	50.0	09/05/2010	ND	183	91.5	200	0.391		
DRO >C10-C28	3960	50.0	09/05/2010	ND	191	95.5	200	17.7		

Surrogate: 1-Chlorooctane 23.0 % 70-130

Surrogate: 1-Chlorooctadecane 17.9 % 70-130

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

TALON LPE  
DAVID ATKINS  
408 W. TEXAS AVE.  
ARTESIA NM, 88210  
Fax To: (575) 745-8905

Received:	09/03/2010	Sampling Date:	09/02/2010
Reported:	09/10/2010	Sampling Type:	Soil
Project Name:	REMUDA BASIN CONSOL TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701296.002.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 19-23S-30E		

**Sample ID: S-2 1' BGS (H020801-05)**

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/08/2010	ND	3050	122	2500	11.3		
Toluene*	<0.050	0.050	09/08/2010	ND	2260	90.3	2500	7.35		
Ethylbenzene*	<0.050	0.050	09/08/2010	ND	2340	93.5	2500	6.63		
Total Xylenes*	<0.150	0.150	09/08/2010	ND	6980	93.0	7500	6.48		

Surrogate: 4-Bromofluorobenzene (PIL) 105 % 80-120

TPH 8015M		mg/kg		Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	09/05/2010	ND	183	91.5	200	0.391		
<b>DRO &gt;C10-C28</b>	<b>47.7</b>	10.0	09/05/2010	ND	191	95.5	200	17.7		

Surrogate: 1-Chlorooctane 89.4 % 70-130

Surrogate: 1-Chlorooctadecane 71.4 % 70-130

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

TALON LPE  
DAVID ATKINS  
408 W. TEXAS AVE.  
ARTESIA NM, 88210  
Fax To: (575) 745-8905

Received:	09/03/2010	Sampling Date:	09/02/2010
Reported:	09/10/2010	Sampling Type:	Soil
Project Name:	REMUDA BASIN CONSOL TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701296.002.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 19-23S-30E		

**Sample ID: S-2 2' BGS (H020801-06)**

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/08/2010	ND	3050	122	2500	11.3	
Toluene*	<0.050	0.050	09/08/2010	ND	2260	90.3	2500	7.35	
Ethylbenzene*	<0.050	0.050	09/08/2010	ND	2340	93.5	2500	6.63	
Total Xylenes*	<0.150	0.150	09/08/2010	ND	6980	93.0	7500	6.48	

Surrogate: 4-Bromofluorobenzene (PIL) 104 % 80-120

TPH 8015M		mg/kg		Analyzed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/05/2010	ND	183	91.5	200	0.391	
DRO >C10-C28	<10.0	10.0	09/05/2010	ND	191	95.5	200	17.7	

Surrogate: 1-Chlorooctane 104 % 70-130

Surrogate: 1-Chlorooctadecane 81.6 % 70-130

Cardinal Laboratories

\*=Accredited Analyte

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Caley D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

TALON LPE  
 DAVID ATKINS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	09/03/2010	Sampling Date:	09/02/2010
Reported:	09/10/2010	Sampling Type:	Soil
Project Name:	REMUDA BASIN CONSOL TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701296.002.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 19-23S-30E		

**Sample ID: S-3 SURFACE (H020801-07)**

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Benzene*</b>	<b>0.370</b>	0.100	09/08/2010	ND	3050	122	2500	11.3		
<b>Toluene*</b>	<b>3.83</b>	0.100	09/08/2010	ND	2260	90.3	2500	7.35		
<b>Ethylbenzene*</b>	<b>1.58</b>	0.100	09/08/2010	ND	2340	93.5	2500	6.63		
<b>Total Xylenes*</b>	<b>5.93</b>	0.300	09/08/2010	ND	6980	93.0	7500	6.48		

Surrogate: 4-Bromofluorobenzene (PIL) 100 % 80-120

TPH 8015M		mg/kg		Analyzed By: AB							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
<b>GRO C6-C10</b>	<b>599</b>	100	09/05/2010	ND	183	91.5	200	0.391			
<b>DRO &gt;C10-C28</b>	<b>5550</b>	100	09/05/2010	ND	191	95.5	200	17.7			

Surrogate: 1-Chlorooctane 9.88 % 70-130

Surrogate: 1-Chlorooctadecane 8.38 % 70-130

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

TALON LPE  
 DAVID ATKINS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	09/03/2010	Sampling Date:	09/02/2010
Reported:	09/10/2010	Sampling Type:	Soil
Project Name:	REMUDA BASIN CONSOL TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701296.002.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 19-23S-30E		

**Sample ID: S-3 1' BGS (H020801-08)**

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Benzene*</b>	<b>3.10</b>	0.250	09/08/2010	ND	3050	122	2500	11.3		
<b>Toluene*</b>	<b>27.4</b>	0.250	09/08/2010	ND	2260	90.3	2500	7.35		
<b>Ethylbenzene*</b>	<b>11.0</b>	0.250	09/08/2010	ND	2340	93.5	2500	6.63		
<b>Total Xylenes*</b>	<b>41.5</b>	0.750	09/08/2010	ND	6980	93.0	7500	6.48		

Surrogate: 4-Bromofluorobenzene (PII) 106 % 80-120

TPH 8015M		mg/kg		Analyzed By: AB							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
<b>GRO C6-C10</b>	<b>2640</b>	50.0	09/06/2010	ND	183	91.5	200	0.391			
<b>DRO &gt;C10-C28</b>	<b>2660</b>	50.0	09/06/2010	ND	191	95.5	200	17.7			

Surrogate: 1-Chlorooctane 20.9 % 70-130

Surrogate: 1-Chlorooctadecane 17.3 % 70-130

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Celey D. Keene, Lab Director/Quality Manager

### Notes and Definitions

- S-06            The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- S-04            The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- ND             Analyte NOT DETECTED at or above the reporting limit
- RPD            Relative Percent Difference
- \*\*             Samples not received at proper temperature of 6°C or below.
- \*\*\*            Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

---

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



**CARDINAL LABORATORIES**  
 101 East Marland, Hobbs, NM 88240  
 (505) 393-2326 FAX (505) 393-2476

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

Company Name: <u>Talon LPE</u>		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>												
Project Manager: <u>David Atkins</u>		P.O. #:														
Address: <u>408 W. Texas Ave.</u>		Company: <u>Talon/LPE</u>														
City: <u>Artesia</u> State: <u>NM</u> Zip: <u>88210</u>		Attn:														
Phone #: <u>505-746-8268</u> Fax #: <u>505-746-8905</u>		Address:														
Project #: <u>701296.002.01</u> Project Owner: <u>TPG Transport LLC</u>		City:														
Project Name: <u>Remuda Basin Consol Tank battery</u>		State: <u>Zip:</u>														
Project Location: <u>sec. 19-23s-30e</u>		Phone #:														
Sampler Name: <u>Mike Stubblefield</u>		Fax #:														
Lab I.D.	Sample I.D.	(GRAB OR (COMP. # CONTAINERS	MATRIX					PRESERV.		SAMPLING		DATE	TIME	TPH 8015 M	GTEX 8060	finger print
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:					
H20801-1	001 S-1 Surface	G				✓			✓		9/2/2010	2:11 P	✓	✓	✓	
2	002 S-1 -5' bgs	G				✓			✓		9/2/2010	2:20 P	✓	✓		
3	003 S-1 1' bgs	G				✓			✓		9/2/2010	2:24 P	✓	✓		
4	004 S-2 Surface	G				✓			✓		9/2/2010	2:38 P	✓	✓		
5	005 S-2 1' bgs	G				✓			✓		9/2/2010	2:40 P	✓	✓		
6	006 S-2 2' bgs	G				✓			✓		9/2/2010	2:45 P	✓	✓		
7	007 S-3 Surface	G				✓			✓		9/2/2010	2:52 P	✓	✓		
8	008 S-3 1' bgs	G				✓			✓		9/2/2010	3:00 P	✓	✓	✓	

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable services. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: <u>Mike Stubblefield</u>	Date: <u>9/2/2010</u> Time: <u>1:06 PM</u>	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date:	Received By: <u>Jodi Benson</u>	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	50c	Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: <u>[Signature]</u> (Initials)	
REMARKS:				

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

#26

February 01, 2011

MIKE STUBBLEFIELD  
TALON LPE  
408 W. TEXAS AVE.  
ARTESIA, NM 88210

RE: REMUDA BASIN CONSOL TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 01/28/11 10:30.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene  
Lab Director/Quality Manager

**Analytical Results For:**

TALON LPE  
MIKE STUBBLEFIELD  
408 W. TEXAS AVE.  
ARTESIA NM, 88210  
Fax To: (575) 745-8905

Received:	01/28/2011	Sampling Date:	01/26/2011
Reported:	02/01/2011	Sampling Type:	Soil
Project Name:	REMUDA BASIN CONSOL TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701296.002.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 19-23S-30E		

**Sample ID: S - 1 0' (H100199-01)**

TPH 8015M	mg/kg		Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	01/31/2011	ND	236	94.4	250	0.298	
<b>DRO &gt;C10-C28</b>	<b>3540</b>	50.0	01/31/2011	ND	211	84.4	250	2.46	

Surrogate: 1-Chlorooctane 104 % 70-130

Surrogate: 1-Chlorooctadecane 96.4 % 70-130

**Sample ID: S - 2 0' (H100199-02)**

TPH 8015M	mg/kg		Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/31/2011	ND	236	94.4	250	0.298	
<b>DRO &gt;C10-C28</b>	<b>131</b>	10.0	01/31/2011	ND	211	84.4	250	2.46	

Surrogate: 1-Chlorooctane 101 % 70-130

Surrogate: 1-Chlorooctadecane 98.1 % 70-130

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

TALON LPE  
MIKE STUBBLEFIELD  
408 W. TEXAS AVE.  
ARTESIA NM, 88210  
Fax To: (575) 745-8905

Received:	01/28/2011	Sampling Date:	01/26/2011
Reported:	02/01/2011	Sampling Type:	Soil
Project Name:	REMUDA BASIN CONSOL TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701296.002.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 19-23S-30E		

**Sample ID: S - 3 0' (H100199-03)**

TPH 8015M		mg/kg		Analyzed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/31/2011	ND	236	94.4	250	0.298	
<b>DRO &gt;C10-C28</b>	<b>407</b>	10.0	01/31/2011	ND	211	84.4	250	2.46	
<i>Surrogate: 1-Chlorooctane</i>									
	105 %	70-130							
<i>Surrogate: 1-Chlorooctadecane</i>									
	100 %	70-130							

**Sample ID: S - 3 1' (H100199-04)**

BTEX 8021B		mg/kg		Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/31/2011	ND	2.18	109	2.00	15.3	
Toluene*	<0.050	0.050	01/31/2011	ND	2.16	108	2.00	14.0	
Ethylbenzene*	<0.050	0.050	01/31/2011	ND	2.17	108	2.00	11.6	
Total Xylenes*	<0.150	0.150	01/31/2011	ND	6.38	106	6.00	10.2	
<i>Surrogate: 4-Bromofluorobenzene (PIL)</i>									
	99.0 %	70-130							

TPH 8015M		mg/kg		Analyzed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/31/2011	ND	236	94.4	250	0.298	
<b>DRO &gt;C10-C28</b>	<b>&lt;10.0</b>	10.0	01/31/2011	ND	211	84.4	250	2.46	
<i>Surrogate: 1-Chlorooctane</i>									
	97.6 %	70-130							
<i>Surrogate: 1-Chlorooctadecane</i>									
	109 %	70-130							

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

TALON LPE  
 MIKE STUBBLEFIELD  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	01/28/2011	Sampling Date:	01/26/2011
Reported:	02/01/2011	Sampling Type:	Soil
Project Name:	REMUDA BASIN CONSOL TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701296.002.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 19-23S-30E		

**Sample ID: S - 3 2' (H100199-05)**

TPH 8015M		mg/kg		Analyzed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/31/2011	ND	236	94.4	250	0.298	
DRO >C10-C28	<10.0	10.0	01/31/2011	ND	211	84.4	250	2.46	
<hr/>									
Surrogate: 1-Chlorooctane	105 %	70-130							
Surrogate: 1-Chlorooctadecane	112 %	70-130							

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\*=Accredited Analyte

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Caley D. Keene, Lab Director/Quality Manager

### Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



**FORM C-141**

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 <b>XTO Energy Inc.</b>	Contact <b>Velma Gallardo, Production Analyst</b>
Address <b>200 North Loraine Ste 800, Midland, TX 79701</b>	Telephone No. <b>432-620-4315</b>
Facility Name <b>Remuda Basin</b>	Facility Type <b>Bulk Petroleum Storage facility/Battery</b>
REPOSIBLE PARTY: <b>TPG Transport LLC</b> <b>3819 Towne Crossing Blvd Suite 100, Mesquite, TX 75150</b>	

Surface Owner	Mineral Owner	Lease No. <b>080423</b>
---------------	---------------	-------------------------

**LOCATION OF RELEASE**

Unit Letter	Section <b>19</b>	Township <b>23S</b>	Range <b>30E</b>	Feet from the	North/South Line	Feet from the	East/West Line	County <b>Eddy</b>
-------------	----------------------	------------------------	---------------------	---------------	------------------	---------------	----------------	-----------------------

Latitude **32.2908N**

Longitude **103.9217W**

**NATURE OF RELEASE**

Type of Release <b>Crude Oil</b>	Volume of Release <b>53 bbls</b>	Volume Recovered <b>46 bbls</b>
Source of Release <b>Cargo trailer overflow.</b>	Date and Hour of Occurrence: <b>Monday Aug 30, 2010</b> <b>09:00 CST</b>	Date and Hour of Discovery- reported <b>Monday Aug 30, 2010</b> <b>09:00 CST</b>
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? <b>XTO Energy Inc. - Jerry Parker, Production Foreman</b>	
By Whom? <b>James Brown, Team Leader, TPG Transport LLC</b>	Date and Hour <b>09:00 CST Monday August 30, 2010</b>	
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.\* **no impact to waterways.**

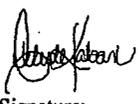
Describe Cause of Problem and Remedial Action Taken.\*

**Driver overflowed cargo trailer resulting in a 53 bbl crude oil release. Release was contained within the facility berm. Incident investigation pending.**

Describe Area Affected and Cleanup Action Taken.\*  Vac truck removed standing oil. Environmental remediation by Talon LPE (contracted by TPG Transport LLC), locates completed Sept 1, soil sampling Thursday Sept 2, based on lab analytical remedial action will be either on site blending and replacement or off-site disposal and backfill with clean material.

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.

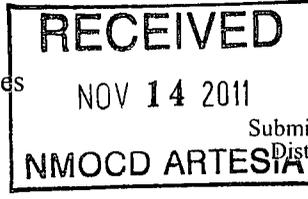
**OIL CONSERVATION DIVISION**

Signature: 	Approved by District Supervisor:	
Printed Name: <b>Celeste Kaban</b>	Approval Date:	Expiration Date:
Title: <b>HSSE &amp; Environmental Compliance</b> <b>TPG Transport LLC</b>	Conditions of Approval:	
E-mail Address: <b>celestek@taylorgasliquids.com</b>	Attached <input type="checkbox"/>	
Date: <b>September 2, 2010</b> Phone: <b>214-461 5563 (office)</b> <b>903-466-2867 (mobile)</b>		

\* Attach Additional Sheets If Necessary

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 <b>XTO Energy, Inc.</b>	Contact <b>Velma Gallardo, Production Analyst</b>
Address <b>200 North Loraine, Suite 800, Midland, TX 79701</b>	Telephone No. <b>432.620.4315</b>
Facility Name <b>Remuda Basin Tank Battery</b>	Facility Type <b>Bulk Petroleum Storage Facility</b>

RESPONSIBLE PARTY: TPG Transport, LLC 3819 Towne Crossing Blvd., Suite 100, Mesquite, TX 75150

Surface Owner	Mineral Owner	Lease No.
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**LOCATION OF RELEASE**

Unit Letter	Section 19	Township 23S	Range 30E	Feet from the	North/South Line	Feet from the	East/West Line	County Eddy
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Latitude 32.2908N Longitude -103.9217W

**NATURE OF RELEASE**

Type of Release <b>Crude Oil</b>	Volume of Release <b>53 bbls</b>	Volume Recovered <b>46 bbls</b>
Source of Release <b>Cargo trailer overflow</b>	Date and Hour of Occurrence <b>Aug 30, 2010 at 1000</b>	Date and Hour of Discovery <b>Aug 30, 2010 at 1000</b>
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? <b>XTO Energy Inc. To Jerry Parker, Production Foreman</b>	
By Whom? <b>James Brown, Team Leader, TPG Transport LLC</b>	Date and Hour <b>Aug 30, 2010 at 1000</b>	
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.\*  
  
No impact to local waterways.

Describe Cause of Problem and Remedial Action Taken.\*  
**Driver overflowed cargo trailer incurring a 53 barrel release of crude oil. Incident was fully contained within the facility berm. 46 barrels of oil were subsequently recovered same day with a vac truck.**

Describe Area Affected and Cleanup Action Taken.\*  
**The spill occurred within the tank battery berms. Soil samples were collected evaluate the impacts to the spill area a few days later. 1,000 gallons of a Micro Blaze and water solution were subsequently spray applied to bio-remediate the impacted area. Follow up soil samples were collected approximately 90-days later to determine effectiveness of remedial actions. Total petroleum hydrocarbons and volatile organics were found to be below NMOCD recommended remedial action levels. A complete closure report documenting all site activities is attached with site plan and analytical reports for review.**

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:	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: <b>David J. Adkins</b>	Approved by District Supervisor:	
Title: <b>District Manager, Talon/LPE</b>	Approval Date:	Expiration Date:
E-mail Address: <b>dadkins@talonlpe.com</b>	Conditions of Approval:	Attached <input type="checkbox"/>
Date: <b>April 11, 2011</b> Office: <b>575.746.8768</b> Mobile: <b>575.441.4835</b>		

\* Attach Additional Sheets If Necessary