

13 May 2015

Dr. Tomas Oberding Hydrologist NMOCD 1625 North French Drive Hobbs, New Mexico 88240 APPROVED Conditionally

By OCD; Dr. Oberding at 12:22 pm, May 14, 2015

Stipulations
1) Please ensure BLM concurrence.
2) OCD is concerned with the high 2' sample report. OCD would like to see that portion directly remediated.
3) The extant deeper contaminants will be addressed at site upgrade/ abandonment. Note- the RP will remain open until such time.

RE: Remediation Progress Report and Closure Proposal XTO Energy – Wantz Federal UL-J, Section 1, Township 21 South, Range 37 East Lea County, New Mexico NMOCD Reference # 1RP-3605

Dr. Oberding:

The following *Remediation Progress Report and Closure Proposal* serves as a condensed update on remedial activities undertaken and closure proposal for the above referenced Site.

#### **Remediation Progress:**

EPI personnel mobilized on the site on April 22, 2015 to collect soil samples to determine the vertical extent of contamination. A total of five (5) soil samples were collected at varying depths from one (1) sample location; SP1. All samples were sent to Cardinal Labs for testing. Laboratory analytical results indicate Benzene and Chloride concentrations do not exceed NMOCD Recommended Remedial Action Levels (NMOCD RRALs) of 10 mg/Kg and 500 mg/Kg, respectively, at any depth. BTEX concentrations exceed NMOCD RRALs of 50 mg/Kg at surface level only; TPH concentrations exceeded NMOCD RRALs of 1,000 mg/Kg at surface level and six (6) feet bgs (reference *Figure 3* and *Table 2*).

The release area has been excavated approximately six (6) inches bgs with contaminated material transported to a state approved facility for disposal.

#### **Closure Proposal:**

As this is a working tank battery, EPI and XTO propose backfilling the excavated areas with clean caliche and maintaining the site until such time as the tanks are moved or the site closed. At that time the contaminated soil will be excavated and replaced with clean soil.

At the time the tanks are moved or of site closure, after excavation activities, backfilling will continue until the entire excavation is closed. Upon completion of backfill activities, the entire disturbed area will be contoured to blend with existing pasture area and protected against wind/water erosion. Disturbed areas will be disced and deep drill seeded with a mixture approved by the property owner. However, it is recommended completing this activity in late spring when ground conditions are more conducive to vegetative growth.



EPI and XTO personnel are aware this represents a "risk based" closure procedure, but feel it is justified under conditions as described above.

Following completion of remediation activities, EPI will provide a detailed *Final Closure Report* to XTO Energy and NMOCD personnel.

XTO Energy and EPI personnel would welcome an opportunity to briefly discuss the *Closure Proposal* at your earliest convenience. However, should you have any questions or concerns please feel free to contact me at (575) 394-3481 or via e-mail at <u>ddominguezepi@gmail.com</u> or Mr. John Robinson at (575) 441-5199 or via e-mail at <u>john\_robinson@xtoenergy.com</u>. All official communication should be addressed to:

Mr. John Robinson XTO Energy P.O. Box 700 Eunice, New Mexico 88231

Sincerely,

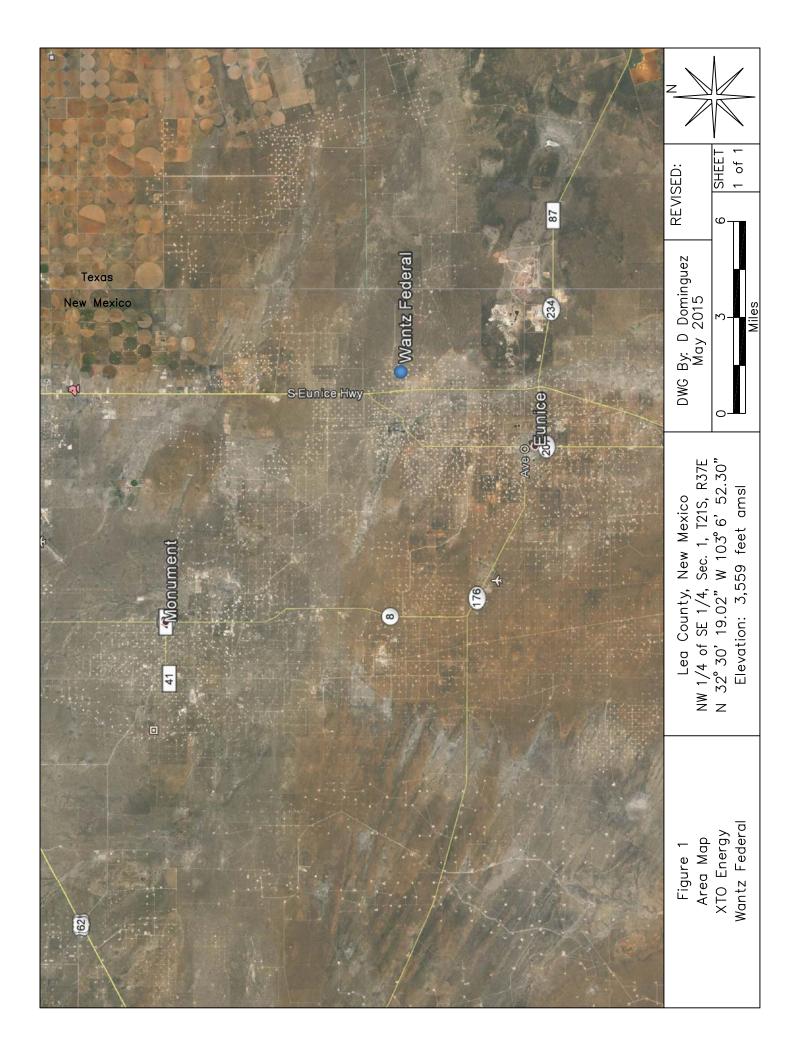
ENVIRONMENTAL PLUS, INC.

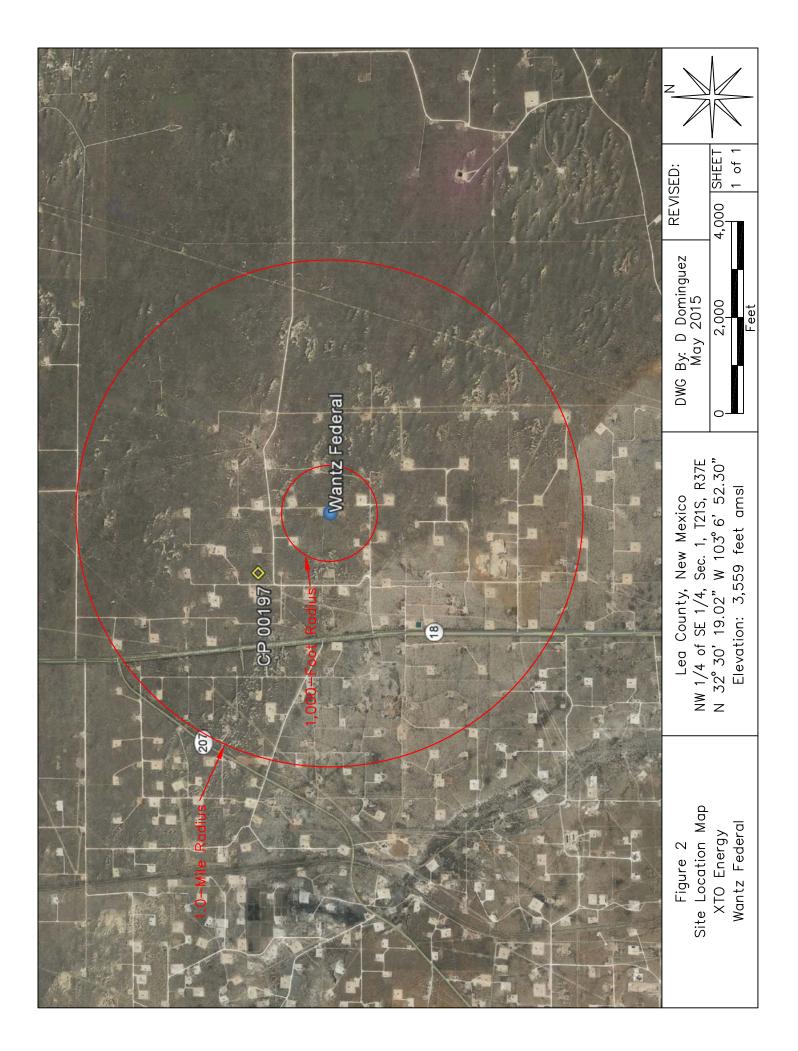
Daniel Dominguez Environmental Consultant

cc: John Robinson – XTO Energy File

Encl.: Figure 1 – Area Map
Figure 2 – Site Location Map
Figure 3 – Sample/Site Map
Table 1 – Well Data
Table 2 – Summary of Soil Sample Field Testing and Laboratory Analytical Results
Attachment I – Photographs
Attachment II – Laboratory Analytical Results
Attachment III – Copy of Initial NMOCD Form C-141

**FIGURES** 







### **TABLES**

# **TABLE 1**

# Well Data

# **XTO Energy - Wantz Federal**

60	3,361	4 4 4 4 11 21S 37E 676253 3588506 07-Nov-13 3,361	3588506	676253	37E	21S	11	4	4	4	PLAINS ALL AMERICAN PIPELINE	0	MON	CP 01221	2
-	3,531	I 21S 37E 676611 3598599 31-Dec-47 3,531	3598599	676611	37E	21S	1	1	4	1	GEORGE W. SIMS	3	PDM	CP 00197	1
(ft bgs)															
Depth to Water	Surface Elevation <sup>B</sup>	d64 q16 q4 Sec Twsp Rng Easting Northing Date Elevation <sup>B</sup>	Northing	Easting	Rng	Twsp	Sec	q4	q16	q64	Owner	Diversion <sup>A</sup>	Use D	Well Number	Ref #

\* = Data obtained from the New Mexico Office of the State Engineer Website (http://iwaters.ose.state.nm.us:7001/iWATERS/wr\_RegisServlet1) and USGS Database

 $^{\rm B}$  = Elevation interpolated from USGS topographical map based on referenced location.  $^{A}$  = In acre feet per annum

PDM = Non 72-12-1 Domestic

MON = Monitoring Well quarters are 1=NW, 2=NE, 3=SW, 4=SE; quarters are smallest to biggest -- = Data not provided on the NM iwaters website Shaded area indicates wells not shown in Figure 2

# TABLE 2 Summary of Soil Sample Field Testing and Laboratory Analytical Results XTO Energy Wantz Federal

Lab Sample ID	Depth (feet)	Soil Status	Sample Date	PID Reading (ppm)	Field Chloride (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	GRO C6-C10 (mg/Kg)	DRO C10-C28 (mg/Kg)	Total TPH (mg/Kg)	Chloride (mg/Kg)
	2	In-Situ	22-Apr-15	2,843	240	3.16	47.7	54.1	137	242	4,320	11,800	16,120	<16.0
	4	In-Situ	22-Apr-15	2,541	160	< 0.050	0.067	< 0.050	< 0.150	< 0.300	12.8	147	159.8	<16.0
SP1	6	In-Situ	22-Apr-15	2,271	240	< 0.050	1.98	4.89	14.0	20.9	336	1,960	2,296	176
	8	In-Situ	22-Apr-15	584	240	< 0.050	0.070	0.055	0.193	0.317	27.4	450	477.4	208
	10	In-Situ	22-Apr-15	70	240	< 0.050	0.074	0.076	0.213	0.363	<10.0	93.5	93.5	112
NMOCD		ended Reme Levels	dial Action	100		10				50			1,000	500

- - = Not Analyzed

**Bold** values are in excess of NMOCD Recommended Remedial Action Levels

## ATTACHMENTS

ATTACHMENT I Photographs



Photograph #1 – Lease sign



Photograph #2 – Looking east across release area



Photograph #3 – Looking south-easterly across release area



Photograph #4 – Looking west across release area



Photograph #5 – Looking westerly across release area



Photograph #6 – Looking east across excavation



Photograph #7 – Looking south across excavation



Photograph #8 – Looking west across excavation



Photograph #9 – Looking north across excavation



Photograph #10 – Looking north across excavation

## ATTACHMENT II Laboratory Analytical Results



April 27, 2015

Daniel Dominguez Environmental Plus, Inc. P.O. Box 1558 Eunice, NM 88231

RE: WANTZ FEDERAL #001

Enclosed are the results of analyses for samples received by the laboratory on 04/22/15 15:44.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab\_accred\_certif.html">www.tceq.texas.gov/field/qa/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated 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 (V1, 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. Keine

Celey D. Keene Lab Director/Quality Manager



Environmental Plus, Inc. Daniel Dominguez P.O. Box 1558 Eunice NM, 88231 Fax To: (505) 394-2601

Received:	04/22/2015	Sampling Date:	04/22/2015
Reported:	04/27/2015	Sampling Type:	Soil
Project Name:	WANTZ FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	UL-J SEC.1, T21S, R37E		

#### Sample ID: SP 1 (2') (H501043-01)

BTEX 8021B	mg/	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	3.16	2.00	04/24/2015	ND	2.05	103	2.00	2.65	
Toluene*	47.7	2.00	04/24/2015	ND	1.88	93.9	2.00	0.287	
Ethylbenzene*	54.1	2.00	04/24/2015	ND	1.76	88.2	2.00	0.848	
Total Xylenes*	137	6.00	04/24/2015	ND	5.65	94.1	6.00	1.11	
Total BTEX	242	12.0	04/24/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	133 9	% 61-154	t						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/23/2015	ND	432	108	400	7.69	
TPH 8015M	mg/	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	4320	100	04/22/2015	ND	200	99.9	200	5.98	
DRO >C10-C28	11800	100	04/22/2015	ND	214	107	200	9.62	
Surrogate: 1-Chlorooctane	282 9	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	195 9	% 52.1-17	1						

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Environmental Plus, Inc. Daniel Dominguez P.O. Box 1558 Eunice NM, 88231 Fax To: (505) 394-2601

Received:	04/22/2015	Sampling Date:	04/22/2015
Reported:	04/27/2015	Sampling Type:	Soil
Project Name:	WANTZ FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	UL-J SEC.1, T21S, R37E		

#### Sample ID: SP 1 (4') (H501043-02)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/24/2015	ND	2.05	103	2.00	2.65	
Toluene*	0.067	0.050	04/24/2015	ND	1.88	93.9	2.00	0.287	
Ethylbenzene*	<0.050	0.050	04/24/2015	ND	1.76	88.2	2.00	0.848	
Total Xylenes*	<0.150	0.150	04/24/2015	ND	5.65	94.1	6.00	1.11	
Total BTEX	<0.300	0.300	04/24/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 %	61-154	!						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/23/2015	ND	432	108	400	7.69	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	12.8	10.0	04/22/2015	ND	200	99.9	200	5.98	
DRO >C10-C28	147	10.0	04/22/2015	ND	214	107	200	9.62	
Surrogate: 1-Chlorooctane	97.6 9	47.2-15	7						
Surrogate: 1-Chlorooctadecane	95.8 9	52.1-17	6						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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Received:	04/22/2015	Sampling Date:	04/22/2015
Reported:	04/27/2015	Sampling Type:	Soil
Project Name:	WANTZ FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	UL-J SEC.1, T21S, R37E		

#### Sample ID: SP 1 (6') (H501043-03)

BTEX 8021B	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	04/24/2015	ND	2.05	103	2.00	2.65	
Toluene*	1.98	0.100	04/24/2015	ND	1.88	93.9	2.00	0.287	
Ethylbenzene*	4.89	0.100	04/24/2015	ND	1.76	88.2	2.00	0.848	
Total Xylenes*	14.0	0.300	04/24/2015	ND	5.65	94.1	6.00	1.11	
Total BTEX	20.9	0.600	04/24/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	131	% 61-154	1						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	04/23/2015	ND	432	108	400	7.69	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	336	50.0	04/22/2015	ND	200	99.9	200	5.98	
DRO >C10-C28	1960	50.0	04/22/2015	ND	214	107	200	9.62	
Surrogate: 1-Chlorooctane	127	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	114	52.1-17	6						

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Celey D. Keene, Lab Director/Quality Manager



Environmental Plus, Inc. Daniel Dominguez P.O. Box 1558 Eunice NM, 88231 Fax To: (505) 394-2601

Received:	04/22/2015	Sampling Date:	04/22/2015
Reported:	04/27/2015	Sampling Type:	Soil
Project Name:	WANTZ FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	UL-J SEC.1, T21S, R37E		

#### Sample ID: SP 1 (8') (H501043-04)

BTEX 8021B	mg/	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/24/2015	ND	2.05	103	2.00	2.65	
Toluene*	0.070	0.050	04/24/2015	ND	1.88	93.9	2.00	0.287	
Ethylbenzene*	0.055	0.050	04/24/2015	ND	1.76	88.2	2.00	0.848	
Total Xylenes*	0.193	0.150	04/24/2015	ND	5.65	94.1	6.00	1.11	
Total BTEX	0.317	0.300	04/24/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	124 9	61-154	!						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	04/23/2015	ND	432	108	400	7.69	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	27.4	10.0	04/22/2015	ND	200	99.9	200	5.98	
DRO >C10-C28	450	10.0	04/22/2015	ND	214	107	200	9.62	
Surrogate: 1-Chlorooctane	96.5	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	91.7	% 52.1-17	6						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Environmental Plus, Inc. Daniel Dominguez P.O. Box 1558 Eunice NM, 88231 Fax To: (505) 394-2601

Received:	04/22/2015	Sampling Date:	04/22/2015
Reported:	04/27/2015	Sampling Type:	Soil
Project Name:	WANTZ FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	UL-J SEC.1, T21S, R37E		

#### Sample ID: SP 1 (10') (H501043-05)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/24/2015	ND	2.05	103	2.00	2.65	
Toluene*	0.074	0.050	04/24/2015	ND	1.88	93.9	2.00	0.287	
Ethylbenzene*	0.076	0.050	04/24/2015	ND	1.76	88.2	2.00	0.848	
Total Xylenes*	0.213	0.150	04/24/2015	ND	5.65	94.1	6.00	1.11	
Total BTEX	0.363	0.300	04/24/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	119 %	61-154	1						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	04/23/2015	ND	432	108	400	7.69	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/22/2015	ND	200	99.9	200	200 5.98	
DRO >C10-C28	93.5	10.0	04/22/2015	ND	214	107	200	9.62	
Surrogate: 1-Chlorooctane	96.8	47.2-15	7						
Surrogate: 1-Chlorooctadecane	92.6	52.1-17	6						

#### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

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.
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 SM4500CI-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

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

0	Relinquished by:	Sampler Relinquished:	10	6	8	7			4 S	3 8	2 <b>S</b>	1 S	LAB I.D. HSDIOU'S		EPI Sampler Name	Project Reference	Location	Facility Name	Client Company	EPI Phone#/Fax#	City, State, Zip	Mailing Address	EPI Project Manager	Company Name	(575) 394-3481 FAX: (575) 394-26	Environm	1
- 3.6 Samuel	553	Date 12/1						SP1 (10')	SP1 (8")	SP1 (6')	SP1 (4')	SP1 (2')	SAMPLE I.D.		Dustin Crockett		UL-J Sec. 1, T21S, R	Wantz Federal #001	XTO	575-394-3481 / 575-394-2601	Eunice New Mexico 88231	P.O. BOX 1558		Environmental Plus,	Eunice, NM 88231 FAX: (575) 394-2601	Environmental Plus, Inc.	
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	E-mail results to: ddominguezepi@gmail.com & john_robinson@xtoenergy.com NOTES:						C1-104-77	22-Apr-15		22-Anr-15	22-Apr-15	22-Apr-15	DATE	SAMPLING	Eunice, NM 88231	P.O. Box 1558	Attn: Daniel Dominguez							6			
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## ATTACHMENT III Copy of Initial NMOCD Form C-141

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

1220 S. St. Fran	icis Dr., Sant	a Fe, NM 87505	58	Sa	anta F	e, NM 875	05									
			Rele	ease Notifie	catio	n and Co	orrective A	ction								
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Name of Co	mpany >	(TO Energy	/			Contact John Robinson										
		700 Eunice		88231		Telephone No. 575-441-5199										
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Unit Letter R	Section 1	Township 21 S	Range 37E	Feet from the 1650'	1110-12-20	v/South Line	Feet from the 1980'	East/W East	/est Line st	County LEA						
			La	titude		Longitud	le									
	R.a.	sa en a n	ĝ.	÷.	TURF	OF REL										
Type of Rele	ase Oil			112.8.3	L UILL		Release 13.8 bbl	ls oil	Volume F	lecovered	5 bbls oil					
Source of Re		e in oil tank					Iour of Occurrence			Hour of Dis						
NO MANY VI IN		vie water				CO-SPECIFIC TRANSPORT	:00 am 04/10/15		11 9 15		04/10/15					
Was Immedi	ate Notice (		Yes 🗌	No 🗌 Not Re	quired	If YES, To			Vhitaker w							
By Whom?	John Rohin	son				Date and H	Hour 11-9-15 10	0.30am	04/10/2	015						
Was a Water							olume Impacting t			.015						
masa mater	course rea		Yes X	No		1 120, 14	indinio indpublicity i									
Hole in botto	om of oil tai	and Cleanup	d up all th	By O n Taken.* ne oil we could w	<b>CD; D</b> ith a va	cuum truck and	g at 10:55 an	he rest o	f the conta	minated soi						
regulations a public health should their or the enviro	Il operators or the envi operations l onment. In a	are required t ironment. The	o report a acceptan adequatel )CD acce	nd/or file certain ce of a C-141 rep v investigate and	release ort by t remedia	notifications a he NMOCD m ate contaminat	knowledge and u nd perform correct parked as "Final R ion that pose a thr ve the operator of	ctive acti leport" d eat to gr responsi	ons for rel oes not rel ound wate bility for c	eases which ieve the ope r, surface w ompliance v	i may endar rrator of lial ater, humar with any oth	nger bility 1 health				
	1	A 1					OIL CON	SERV	ATION	DIVISIO	JN					
Signature:	John	Halter	r			Hydrolog										
Printed Nam	e: John R	obinson				Approved by	Environmental S	ipecialist			Long	Pho				
Title: Maint	tenance For	eman				Approval Da	te: 04/13/2015		Expiration	Dates	<u>87-13/34</u>					
E-mail Addr	ess: john_i	robinson@xto	energy.co	m			s required. Deline	ate and r	remediate	Attached						
Date: 11	-10-15	Pl	none: 57	5-441-5199			NMOCD guides.		- 6	1RP3605	5	5380				
Attach Add	itional She	ets If Neces	sary			Provide pho remediation	otographic docum 1.	ientation	101	nTO15	10339826					

pTO1510339928