



March 11, 2005

Mr. Paul Sheeley  
Environmental Engineer  
New Mexico Oil Conservation Division  
1625 North French  
Hobbs, New Mexico 88240

Re: XTO Energy Inc. New Mexico State C NCT2 #10 Final C-141 and closure documentation  
UL H (SE¼ of the NE¼) of Section 19, T20S, R37E  
Latitude: 32°33'39.391"N and Longitude: 103°17'03.887"W  
Landowner: State of New Mexico  
Driving Directions: From the intersection of NMSR 8 and NMSR 322 in Monument, NM, go south on NMSR 8 for 6.4 miles. Then right on Maddox Road 4 miles, then right 1.0 miles, then right 0.15 miles, then right 0.15 miles to the NM State C NCT2 #10 work location.

Dear Mr. Sheeley:

Environmental Plus, Inc. (EPI), on behalf of Guy Haykus, XTO Energy Inc., submits the attached New Mexico Oil Conservation Division (NMOCD) final form C-141 for the above-referenced leak site located on land owned by the State of New Mexico, approximately 3.6 miles southwest of Monument, New Mexico. The attached site information and metrics form ranks the site in accordance with the "NMOCD Guidelines for Remediation of Leaks, Spills and Releases (August 13, 1993)." The impacted soil is exempt from EPA RCRA 40 CFR Part 261

**NMOCD Site Rank and Remedial Goals**

The New Mexico Office of the State Engineer information indicates an average depth to groundwater at the site of 35-feet below ground surface (bgs) and identifies 2 agricultural water wells located within a 1,000-foot radius of the site. There were no surface water bodies observed to be within a 1,000-foot radius of the site. These characteristics result in a site ranking score of 40 points that applies the following remedial goals for the constituents of concern (CoCs):



CONSTITUENTS OF CONCERN/CONTAMINANTS	REMEDIAL GOAL
Benzene	10 mg/Kg*
BTEX (mass sum of benzene, toluene, ethylbenzene, and xylenes)	50 mg/Kg
Total Petroleum Hydrocarbon 8015m (TPH <sup>8015m</sup> )	100 mg/Kg
Chloride residuals must not be capable of impacting local water resources above the New Mexico Water Quality Control Commission (WQCC) water quality standard of 250 mg/Liter.	
*mg/Kg = milligrams per kilogram; which is equivalent to parts per million (ppm).	

### Occurrence and Mitigation

The release occurred when the major head switch on the oil storage tank malfunctioned resulting in a release of approximately 28 barrels of crude oil onto the compacted caliche pad of the active well and tank battery pad and an area south of the pad. Approximately 25 barrels of crude oil were recovered and returned to the storage tank. The control switch was replaced and the battery placed back into service. The total release area covered approximately 7,260 square feet of surface area (140' x 100'). Photographs and maps are attached for reference.

### Delineation and Remediation and Follow-up

XTO Energy Inc. delineated the vertical and horizontal extents of CoC impact during excavation of the release. Approximately 1-foot of the visibly impacted portion of the caliche pad north of the battery was removed and replaced with clean caliche. All excavated soil was initially stockpiled on plastic north of the wellpad prior to disposal off-site. Analytical results from the December 10, 2004 sampling of the sides and bottom of the excavation indicated the sidewalls were less than the NMOCD CoC remedial goals, the bottom TPH<sup>8015m</sup> remained slightly elevated at 1,362 mg/Kg. An additional foot of soil was removed from the bottom of the excavation and resampled on December 15, 2004 and analyzed for TPH<sup>8015m</sup> and the BTEX compounds. The analytical results were non-detectable (ND) and considered acceptable (reference the attached analytical result summary and illustrations and laboratory reports). The excavation was subsequently backfilled with local clean soil and contoured to the natural grade. A total of 908 cubic yards of soil impacted above the NMOCD CoC remedial goals was excavated and disposed of in the Environmental Plus, Inc. Landfarm #NM-01-0013. The site will be reseeded in the Spring of 2005.

### Closure Request

EPI, on behalf of XTO Energy, Inc., requests that the NMOCD consider the information provided in this letter report and require "no further action" at the site.



ENVIRONMENTAL PLUS, INC.

Micro-Blaze

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STATE APPROVED LAND FARM AND ENVIRONMENTAL SERVICES

If there are any questions or more information is needed, please call Mr. Cody Miller or myself at the office or at 505.631.8447 and 505.390.7864, respectively or Mr. Guy Haykus at 505.394.2089. All official communication should be addressed to:

Mr. Guy Haykus  
XTO Energy Inc.  
P.O. Box 700  
Eunice, New Mexico 88231  
505.394.2089

Sincerely,

Pat McCasland  
EPI Technical Services Manager  
enviplus1@aol.com

cc: Guy Haykus, XTO Energy Inc. (William\_Haykus@XTOEnergy.com)  
Dudley McMinn, XTO Energy, Inc. (Dudley\_McMinn@XTOEnergy.com)  
file

Enclosures:

Site Information and Metrics Form  
Final NMOCD form C-141  
Annotated Topographical Map  
Site Map  
New Mexico Office of the State Engineer Water Well Report  
Photographs  
Analytical Results Summary  
Laboratory Reports

ENVIRONMENTAL PLUS, INC.



# Site Information and Metrics

Incident Date:  
12/7/2004

NMOCD Notified:  
12-8-04 @ 9:20 AM

SITE: New Mexico State-C NCT2 #10		Assigned Site Reference #:	
Company: XTO Energy Inc.			
Street Address:			
Mailing Address: 200 N. Loraine Suite 800			
City, State, Zip: Midland, Texas 79701			
Representative: Guy Haykus			
Representative Telephone: 505.394.2089			
Telephone:			
Fluid volume released (bbls): 28 bbls		Recovered (bbls): 25 bbls	
<p>&gt;25 bbls: Notify NMOCD verbally within 24 hrs and submit form C-141 within 15 days. (Also applies to unauthorized releases &gt;500 mcf Natural Gas)</p> <p>5-25 bbls: Submit form C-141 within 15 days (Also applies to unauthorized releases of 50-500 mcf Natural Gas)</p>			
Leak, Spill, or Pit (LSP) Name: NM State C NCT2 #10			
Source of contamination: Crude Oil Storage Tank			
Land Owner, i.e., BLM, ST, Fee, Other: State of New Mexico			
LSP Dimensions 140' x 100'			
LSP Area: 7,260 sqft ft <sup>2</sup>			
Location of Reference Point (RP)			
Location distance and direction from RP			
Latitude: 32°33'39.391"N			
Longitude: 103°17'03.887"W			
Elevation above mean sea level: ~3,527 'amsl (interpolated from the USGS topographical map)			
Feet from South Section Line			
Feet from West Section Line			
Location- Unit or ¼¼: SE¼ of the NE¼		Unit Letter: H	
Location- Section: 19			
Location- Township: T20S			
Location- Range: R37E			
Surface water body within 1000' radius of site: none			
Domestic water wells within 1000' radius of site: none			
Domestic water wells within 1000' radius of site:			
Agricultural water wells within 1000' radius of site: 2			
Agricultural water wells within 1000' radius of site:			
Public water supply wells within 1000' radius of site: none			
Depth from land surface to ground water (DG) 35'bgs			
Depth of contamination (DC) - 5'bgs			
Depth to ground water (DG - DC = DtGW) - 30-feet			
<b>1. Ground Water</b>		<b>2. Wellhead Protection Area</b>	
If Depth to GW <50 feet: 20 points		If <1000' from water source, or; <200' from private domestic water source: 20 points	
If Depth to GW 50 to 99 feet: 10 points		If >1000' from water source, or; >200' from private domestic water source: 0 points	
If Depth to GW >100 feet: 0 points		Wellhead Protection Area Score= 20	
Ground water Score = 20		Surface Water Score= 0	
Site Rank (1+2+3) = 40			
<b>Total Site Ranking Score and Acceptable Concentrations</b>			
Parameter	>19	10-19	0-9
Benzene <sup>1</sup>	10 ppm	10 ppm	10 ppm
BTEX <sup>1</sup>	50 ppm	50 ppm	50 ppm
TPH	100 ppm	1000 ppm	5000 ppm

<sup>1</sup>100 ppm field VOC headspace measurement may be substituted for lab analysis

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 March 17, 1999

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>Guy Haykus</b>
Address <b>200 N. Loraine Suite 800 Midland, Texas 79701</b>	Telephone No. <b>505.394.2089</b>
Facility Name <b>NM State C NCT2 #10</b>	Facility Type <b>Crude Oil Storage Tank</b>

Surface Owner	State of New Mexico	*CCA	Mineral Owner	State	Lea	30-025-32691
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### LOCATION OF RELEASE

Unit Letter <b>H</b>	Section <b>19</b>	Township <b>T20S</b>	Range <b>R37E</b>	Feet from the	North/South Line	Feet from the	East/West Line	County: <b>Lea</b>
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Latitude: 32°33'39.391"N Longitude: 103°17'03.887"W

### NATURE OF RELEASE

Type of Release <b>Crude Oil</b>	Volume of Release <b>28 bbls barrels</b>	Volume Recovered <b>25 bbls barrels</b>
Source of Release <b>Crude Oil Storage Tank</b>	Date and Hour of Occurrence <b>12/7/2004 @ ?</b>	Date and Hour of Discovery <b>12-7-04 @ 4:30 PM</b>
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? <b>Paul Sheeley (Donna Mull)</b>	
By Whom? <b>Janice Courtney</b>	Date and Hour <b>12-8-04 @ 9:20 AM</b>	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. <b>NA</b>	

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

**REVIEWED**

**By Olivia Yu at 1:18 pm, Apr 26, 2018**


Describe Cause of Problem and Remedial Action Taken.\*

**Crude Oil Storage Tank Head switch failed and crude oil storage tank overflowed.**

Describe Area Affected and Cleanup Action Taken.\*

**A total of 908 cubic yards of soil impacted above the NMOCD CoC remedial goals was excavated and disposed of in the Environmental Plus, Inc. Landfarm #NM-01-0013. Remedial Goals achieved: TPH 8015m = 100 mg/Kg, Benzene = 10 mg/Kg, and BTEX, i.e., the mass sum of Benzene, Ethyl Benzene, Toluene, and Xylenes = 50 mg/Kg.**

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.

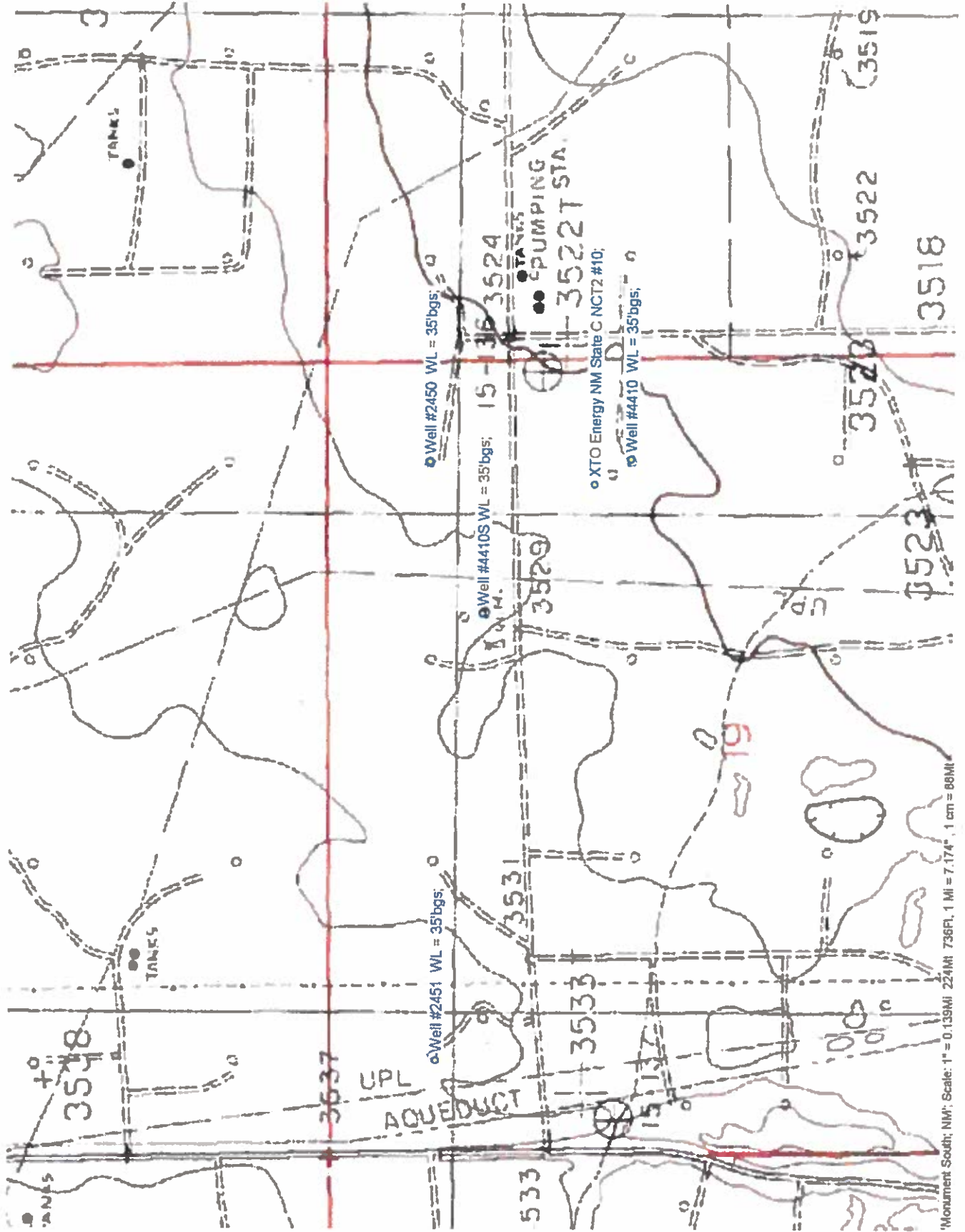
Signature: 	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Guy Haykus (e-mail: William_Haykus@XTOEnergy.com)	Approved by District Supervisor:	
Title: Supervisor	Approval Date:	Expiration Date:
Date: 12/14/2004 Phone: 505.394.2089	Conditions of Approval:	Attached <input type="checkbox"/>

\* Attach Additional Sheets If Necessary

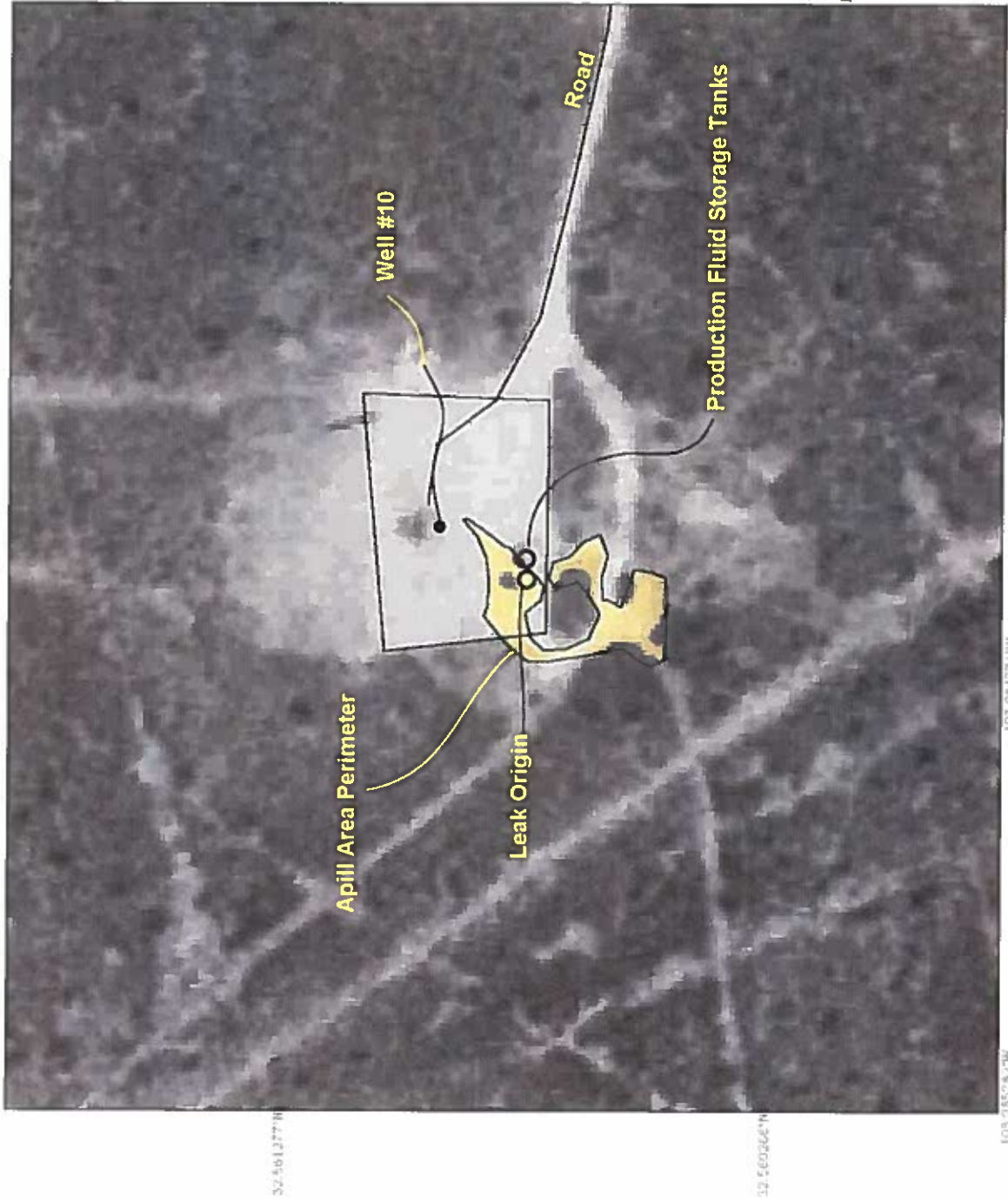
1RP-5027

nPRS0511555617

pOY1811645811



XTO Energy  
New Mexico  
State C  
NCT2 #10  
UL-H Sec 19  
T20S R37E  
Lea Co NM  
Affected Area  
~7,260 sqft



Universal Transverse Mercator  
13 North  
NAD 1983 HPGN (New Mexico)

XTO New Mexico C 12-7-04 bor  
3/12/2005



### New Mexico Office of the State Engineer Well Reports and Downloads

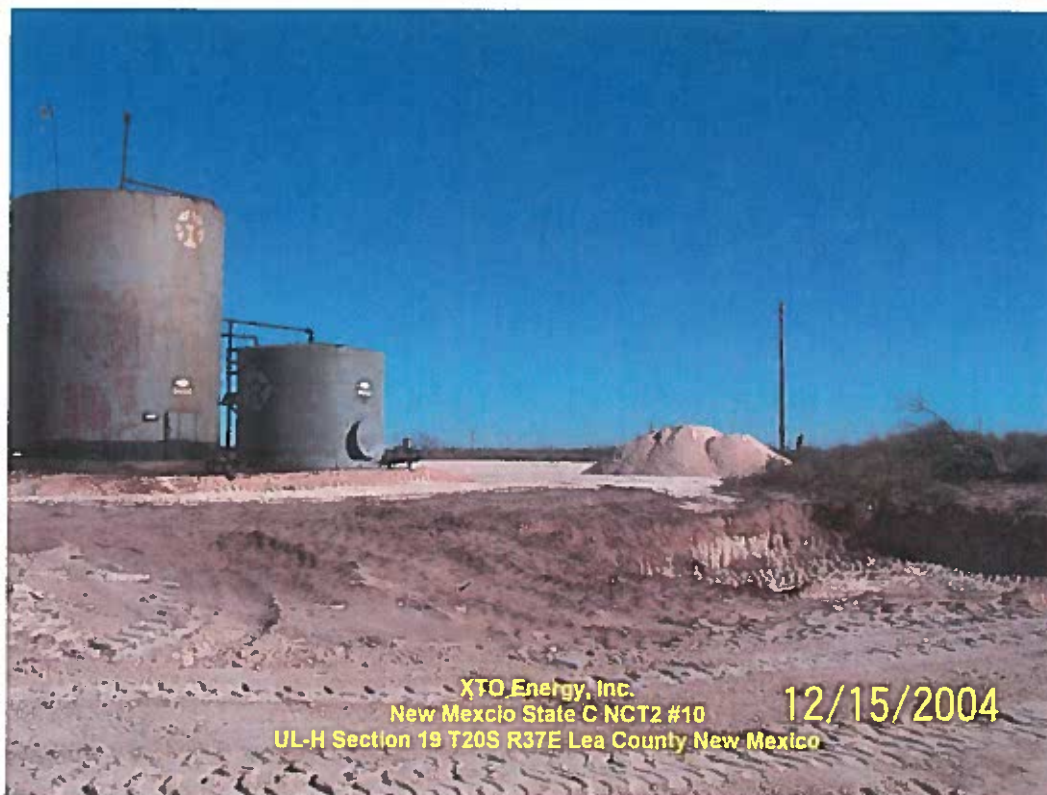
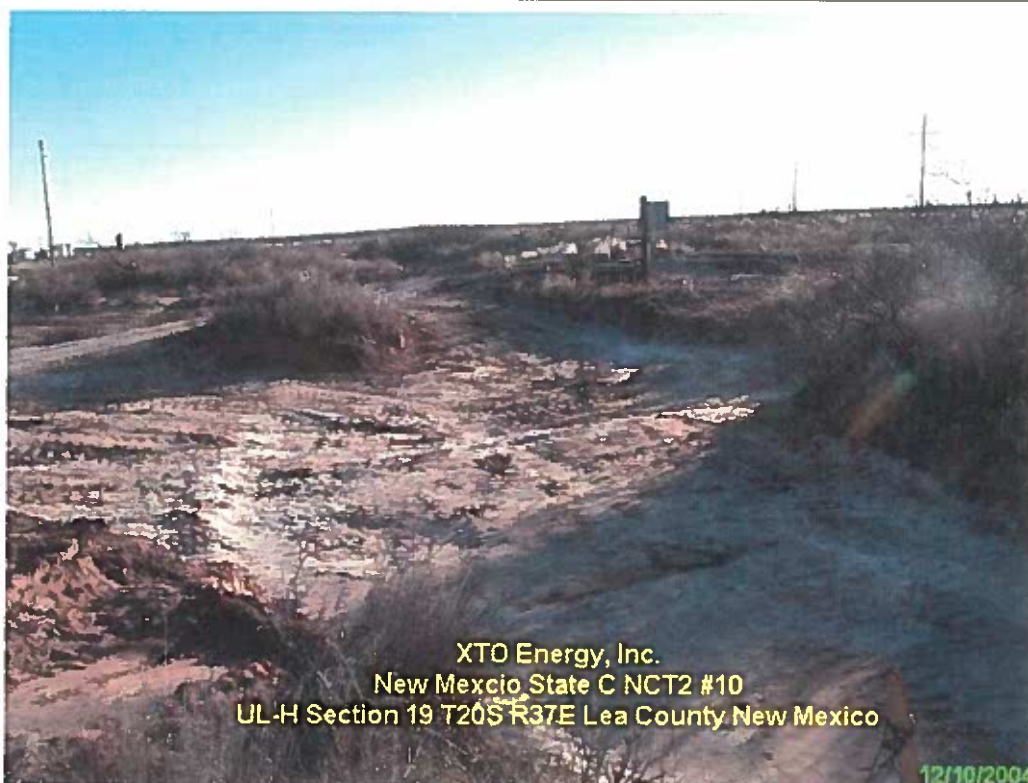
Township:	<input type="text" value="20S"/>	Range:	<input type="text" value="37E"/>	Sections:	<input type="text" value="17,18,19,20,29,30,"/>
NAD27 X:	<input type="text"/>	Y:	<input type="text"/>	Zone:	<input type="text" value=""/>
Search Radius:	<input type="text"/>				
County:	<input type="text" value=""/>	Basin:	<input type="text" value=""/>	Number:	<input type="text"/>
Suffix:	<input type="text"/>				
Owner Name: (First)	<input type="text"/>	(Last)	<input type="text"/>	<input type="checkbox"/> Non-Domestic <input type="checkbox"/> Domestic	
<input checked="" type="radio"/> All					
Well / Surface Data Report			Avg Depth to Water Report		
Water Column Report					
Clear Form		WATERS Menu		Help	

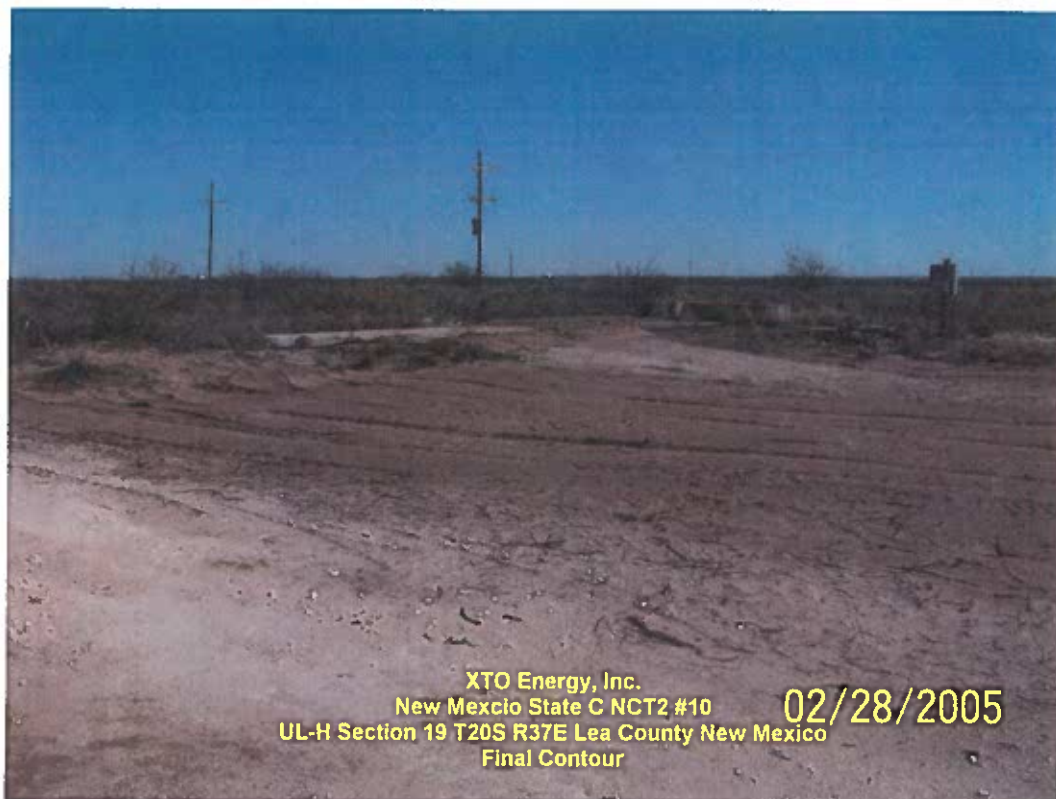
#### AVERAGE DEPTH OF WATER REPORT 12/14/2004

Bsn	Tws	Rng	Sec	Zone	X	Y	Wells	(Depth Water in Feet)		
								Min	Max	Avg
L	20S	37E	19				6	35	35	35

Record Count: 6







**XTO Energy, Inc.**

**New Mexico State C NCT 2 #10**

**Excavation and Spoils Data**

Sample Location	Sample Description	Sampling Interval (FT, BGS)	SAMPLE# ID#	Date	Lithology	VOC Headspace ppm	CHC <sup>3</sup> mg/Kg	DRO <sup>4</sup> mg/Kg	TPH <sup>5</sup> mg/Kg	BTX <sup>6</sup> mg/Kg	Benzene mg/Kg	Toluene mg/Kg	Ethylbenzene mg/Kg	m/p/o Xylene mg/Kg	Chloride mg/Kg
Background-300' south	Composite	0-1	SXTONNMC121004BK1	12/10/04	Sand	0	na	na	na	na	na	na	na	na	na
Bottom	Composite	4	SXTONNMC121004NB1	12/10/04	Sand	130.0	172	1190	1362	3.1553	0.0373	0.46	0.708	2.15	64
Bottom	Composite	5	SXTONNMC121004B1C	12/13/04	Sand	na	<100	ND	ND	ND	ND	ND	ND	ND	na
Northeast Sidewall	Composite	0-4	SXTONNMC121004NE	12/10/04	Sand	4	<100	ND	ND	ND	ND	ND	ND	ND	64
Northwest Sidewall	Composite	0-4	SXTONNMC121004NW	12/10/04	Sand	6.0	<100	ND	ND	ND	ND	ND	ND	ND	48
Southeast Sidewall	Composite	0-4	SXTONNMC121004SE	12/10/04	Sand	11	<100	16.2	16.2	0.013	ND	0.003	0.003	0.007	64
Southwest Sidewall	Composite	0-4	SXTONNMC121004SW	12/10/04	Sand	6	<100	ND	ND	ND	ND	ND	ND	ND	64
Spoils Pile	Composite	0-4	SXTONNMC121004SP	12/10/04	Sand	82	34.6	897	931.6	0.756	0.14	0.086	0.101	0.569	64
Spoils Pile	East Comp	--	Stock Pile E.S.	12/14/04	Sand	35	70.7	1430	1500.7	1.309	0.336	0.145	ND	0.918	64
Spoils Pile	West Comp.	--	Stock Pile W.S.	12/14/04	Sand	49	80.3	1370	1450.3	1.734	0.392	0.152	ND	1.19	112
Spoils Pile	South Comp.	--	Stock Pile S.S.	12/14/04	Sand	65	59	1280	1339	1.283	0.13	0.203	0.098	0.852	80
Spoils Pile	North Comp.	--	Stock Pile N.S.	12/14/04	Sand	85	55.6	1082	1137.6	1.461	0.294	0.109	0.08	0.978	80
				Method Detection Limit			10	10	10	10	0.002	0.002	0.002	0.006	0.025
				New Mexico Oil Conservation Division Remedial Goals		100.0									

<sup>1</sup>100 ppm Isobutylene calibration gas = 100 ppm

<sup>2</sup>log<sub>e</sub> - below ground surface

<sup>3</sup>VOC - Volatile Organic Contaminants/Constituents

<sup>4</sup>CHC - Gasoline Range Organics C<sub>6</sub>-C<sub>12</sub>

<sup>5</sup>DRO - Diesel Range Organics C<sub>12</sub>-C<sub>19</sub>

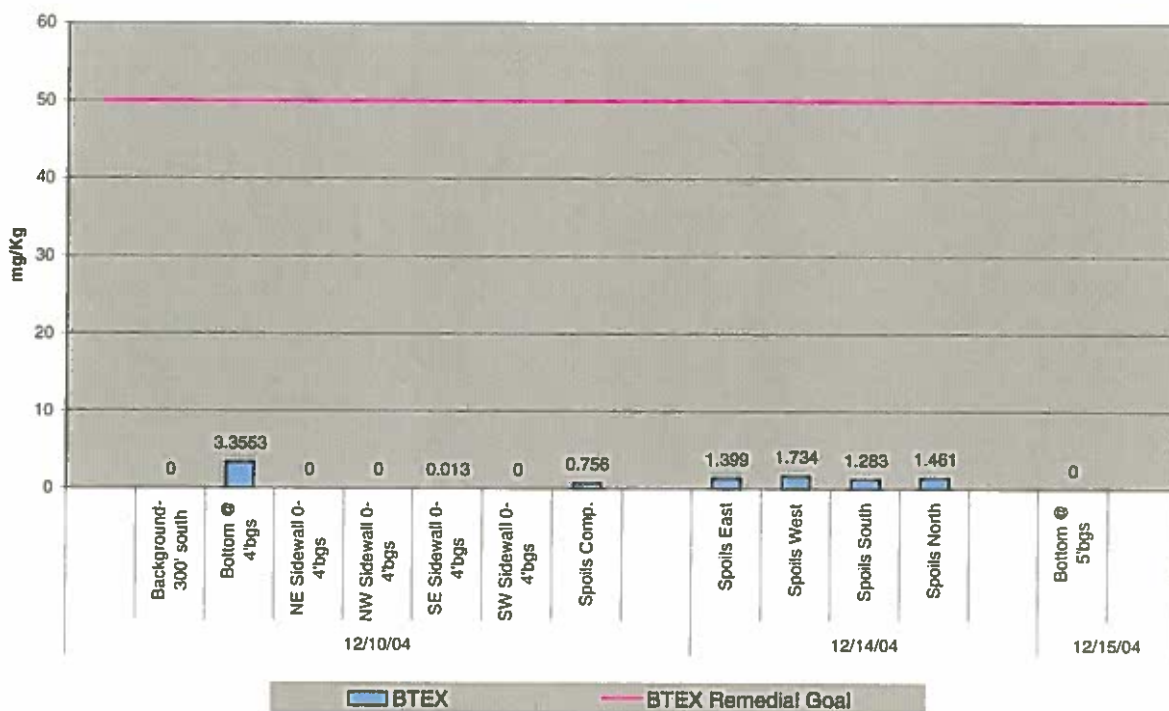
<sup>6</sup>TPH - Total Petroleum Hydrocarbon = GRO + DRO.

na - not analyzed

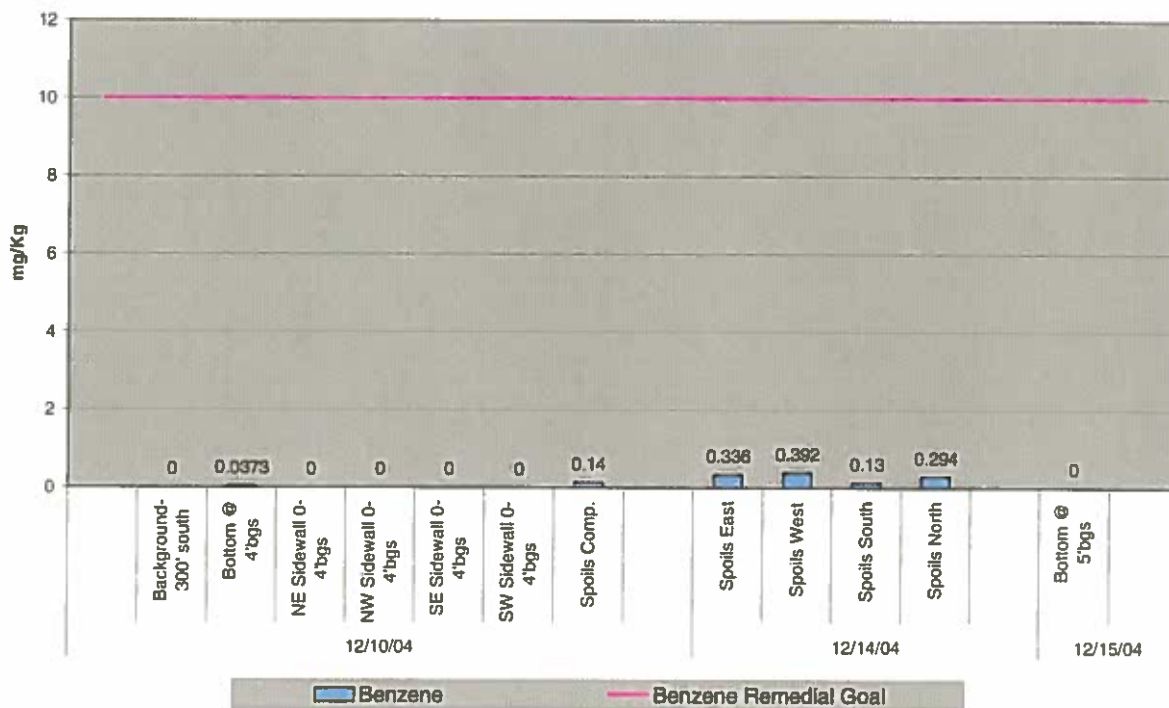
<sup>7</sup>BTX - Mass sum of benzene, toluene, ethylbenzene, and xylenes

ND - not detected above the method detection limit

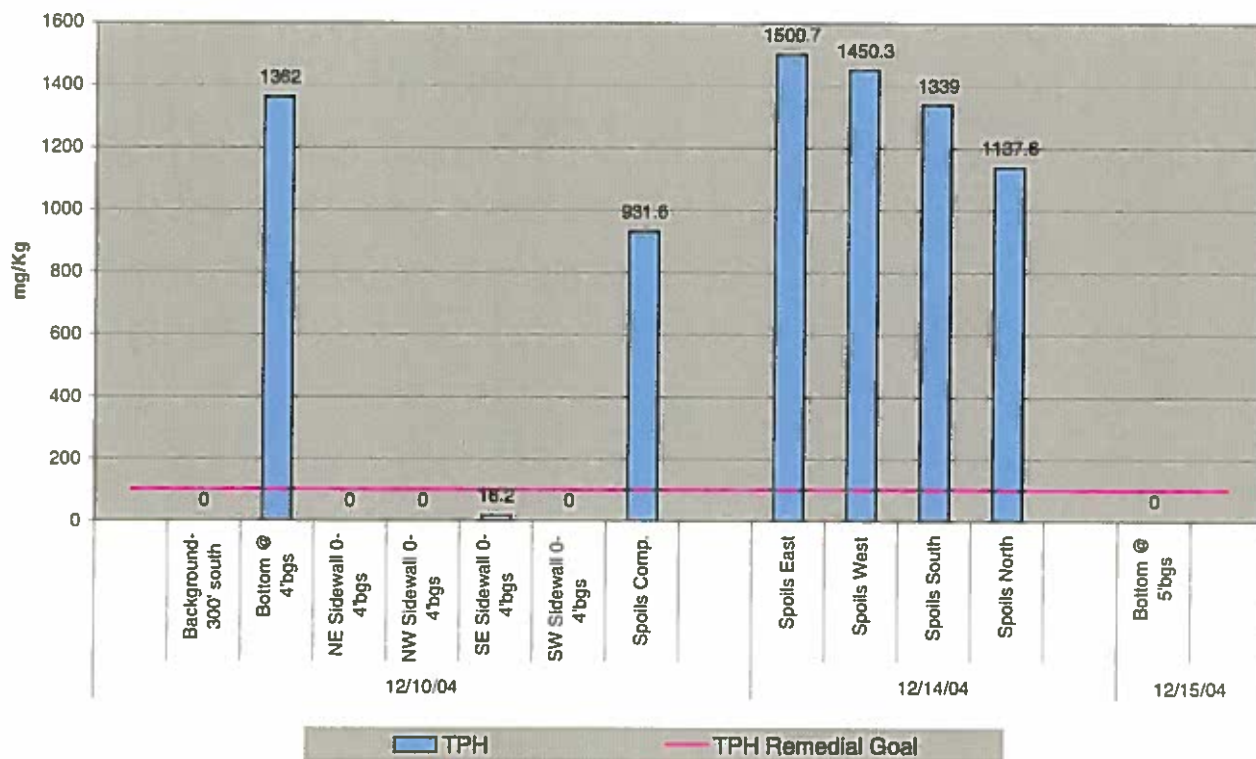
**XTO Energy Inc.  
New Mexico State C NCT2 #10  
BTEX Delineation**



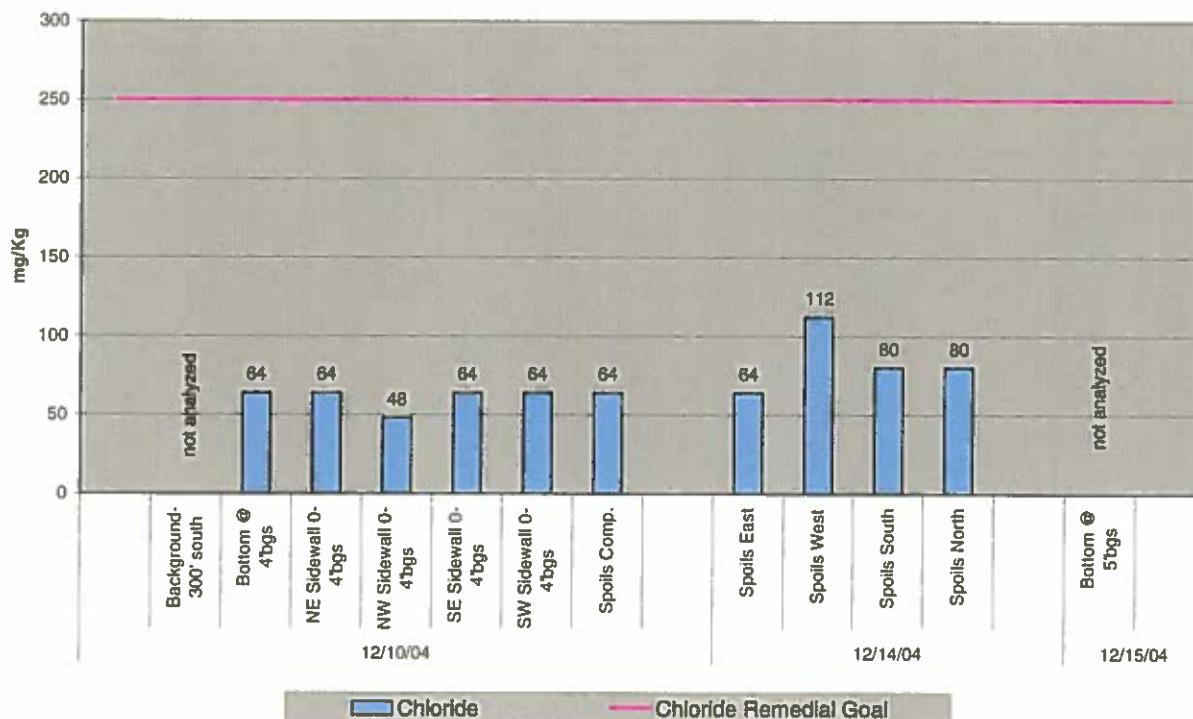
**XTO Energy Inc.  
New Mexico State C NCT2 #10  
Benzene Delineation**



**XTO Energy Inc.  
New Mexico State C NCT2 #10  
Total Petroleum Hydrocarbon 8015M Delineation**



**XTO Energy Inc.  
New Mexico State C NCT2 #10  
Chloride Delineation**




**ARDINAL**  
 LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2328 • 101 E. MARLAND • HOBBS, NM 88240

 ANALYTICAL RESULTS FOR  
 ENVIRONMENTAL PLUS, INC.  
 ATTN: PAT McCASLAND  
 P.O. BOX 1558  
 EUNICE, NM 88231  
 FAX TO: (505) 394-2601

Receiving Date: 12/10/04

Reporting Date: 12/14/04

Project Owner: XTO

Project Name: NEW MEXICO C NCT #2

Project Location: NOT GIVEN

Sampling Date: 12/10/04

Sample Type: SOIL

Sample Condition: COOL &amp; INTACT

Sample Received By: BC

Analyzed By: BC/AH

LAB NUMBER	SAMPLE ID	GRO (C <sub>6</sub> -C <sub>10</sub> ) (mg/Kg)	DRO (>C <sub>10</sub> -C <sub>28</sub> ) (mg/Kg)	Cl* (mg/Kg)
		12/13/04	12/13/04	12/13/04
H9389-1	SXTONMC121004SE	<10.0	18.2	64
H9389-2	SXTONMC121004NE	<10.0	<10.0	64
H9389-3	SXTONMC121004NBH	172	1190	64
H9389-4	SXTONMC121004NW	<10.0	<10.0	48
H9389-5	SXTONMC121004SW	<10.0	<10.0	64
H9389-6	SXTONMC121004SP	34.6	897	64
Quality Control		754	810	1000
True Value QC		800	800	1000
% Recovery		94.3	101	100
Relative Percent Difference		0.3	1.6	3.0

METHODS: TPH GRO &amp; DRO: EPA SW-846 8015 M; Cl\*: Std. Methods 4500-Cl\*B

\*Analyses performed on 1:4 w:v aqueous extracts.

*[Signature]*  
 Chemist

*12/14/04*  
 Date

H9389.XLS

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 client for 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 thirty (30) days after completion of the applicable service. 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.



PHONE (815) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2328 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR  
ENVIRONMENTAL PLUS, INC.  
ATTN: PAT McCASLAND  
P.O. BOX 1558  
EUNICE, NM 88231  
FAX TO: (505) 394-2601

Receiving Date: 12/10/2004  
Reporting Date: 12/14/2004  
Project Number: XTO  
Project Name: NEW MEXICO C NCT#2  
Project Location: NOT GIVEN

Sampling Date: 12/10/2004  
Sample Type: SOIL  
Sample Condition: COOL & INTACT  
Sample Received By: BC  
Analyzed By: VB

LAB NUMBER SAMPLE ID	MTBE (mg/kg)	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYLBENZENE (mg/kg)	TOTAL XYLENES (mg/kg)
ANALYSIS DATE:	12/13/04	12/13/04	12/13/04	12/13/04	12/13/04
H9389-1 SXTONMC121004SE	<0.002	<0.002	0.003	0.003	0.007
H9389-2 SXTONMC121004NE	<0.002	<0.002	<0.002	<0.002	<0.006
H9389-3 SXTONMC121004NBH	0.011	0.373	0.460	0.708	2.15
H9389-4 SXTONMC121004NW	<0.002	<0.002	<0.002	<0.002	<0.006
H9389-5 SXTONMC121004SW	<0.002	<0.002	<0.002	<0.002	<0.006
H9389-6 SXTONMC121004SP	0.003	0.140	0.086	0.101	0.569
Quality Control	0.092	0.108	0.105	0.105	0.311
True Value QC	0.100	0.100	0.100	0.100	0.300
% Recovery	91.6	108	105	105	104
Relative Percent Difference	7.0	1.9	2.0	2.6	5.4

METHODS: EPA - SW 846-8021B, 5030B; Gas Chromatography

Victor Blunt  
Victor Blunt, Ph.D.

12/14/2004  
Date

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 client for 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 thirty (30) days after completion of the applicable service. 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.



2111 Beechwood, Abilene, TX 79603  
915-673-7001 Fax 915-673-7020

101 East Marland, Hobbs, NM 88240  
505-393-2326 Fax 505-393-2476

17


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 LABORATORIES

PHONE (915) 873-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 383-2326 • 101 E. MARLAND • HOBBS, NM 88240

 ANALYTICAL RESULTS FOR  
 ENVIRONMENTAL PLUS, INC.  
 ATTN: PAT McCASLAND  
 P.O. BOX 1558  
 EUNICE, NM 88231  
 FAX TO:

 Receiving Date: 12/14/04  
 Reporting Date: 12/15/04  
 Project Owner: XTO  
 Project Name: NEW MEXICO "C" NCT-2  
 Project Location: NOT GIVEN

 Sampling Date: 12/14/04  
 Sample Type: SOIL  
 Sample Condition: COOL & INTACT  
 Sample Received By: BC  
 Analyzed By: BC/AH

LAB NUMBER	SAMPLE ID	GRO (C <sub>6</sub> -C <sub>10</sub> ) (mg/Kg)	DRO (>C <sub>10</sub> -C <sub>28</sub> ) (mg/Kg)	Cl* (mg/Kg)
ANALYSIS DATE		12/14/04	12/14/04	12/15/04
H9399-1	STOCK PILE E.S.	70.7	1430	64
H9399-2	STOCK PILE W.S.	80.3	1370	112
H9399-3	STOCK PILE S.S.	59.0	1280	80
H9399-4	STOCK PILE N.S.	55.6	1082	80
Quality Control		810	792	1000
True Value QC		800	800	1000
% Recovery		101	98.9	100
Relative Percent Difference		4.0	1.6	3.0

METHODS: TPH GRO &amp; DRO: EPA SW-846 8015 M; Cl: Std. Methods 4500-Cl/B

\*Analyses performed on 1:4 w:v aqueous extracts.

*Pat McCasland*  
 Chemist

12/15/04  
 Date

H9399A.XLS

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 client for 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 thirty (30) days after completion of the applicable service. 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.



**ARDINAL  
LABORATORIES**

PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR  
ENVIRONMENTAL PLUS INC.  
ATTN: PAT McCASLAND  
P.O. BOX 1558  
EUNICE, NM 88231  
FAX TO: (505) 394-2601

Receiving Date: 12/14/2004  
Reporting Date: 12/16/2004  
Project Number: XTO  
Project Name: NEW MEXICO C NCT#2  
Project Location: NOT GIVEN

Sampling Date: 12/14/2004  
Sample Type: SOIL  
Sample Condition: COOL & INTACT  
Sample Received By: BC  
Analyzed By: VB

LAB NUMBER	SAMPLE ID	MTBE (mg/kg)	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYLBENZENE (mg/kg)	TOTAL XYLENES (mg/kg)
ANALYSIS DATE:		12/16/04	12/16/04	12/16/04	12/16/04	12/16/04
H9399-1	STOCK PILE E.S	0.014	0.336	0.145	<0.002	0.918
H9399-2	STOCK PILE W.S	0.014	0.392	0.152	<0.002	1.19
H9399-3	STOCK PILE S.S	0.008	0.130	0.203	0.098	0.862
H9399-4	STOCK PILE N.S	0.015	0.294	0.109	0.080	0.978
Quality Control		0.086	0.0937	0.0895	0.0920	0.271
True Value QC		0.100	0.100	0.100	0.100	0.300
% Recovery		86.3	93.7	89.5	92.0	90.3
Relative Percent Difference		0.4	7.4	8.5	7.3	7.2

METHODS: EPA - SW 846-8021B, 5030B; Gas Chromatography

Victor Blunt  
Chemist

12/16/2004  
Date

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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

**CARDINAL LABORATORIES, INC.**

2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240  
(325) 673-7001 Fax (325) 673-7020 (805) 393-2328 Fax (805) 393-2478

Company Name: <b>CPT</b>		P.O. #:		ANALYSIS REQUEST			
Project Manager: <b>PAUL MCCASLAND</b>		Company:					
Address: <b>P.O. Box 1558</b>		City:					
City: <b>EVING</b>		State: <b>NM</b>					
Phone #: <b>882231</b>		Address:					
Fax #: <b>882231</b>		City:					
Project #: <b>XTO</b>		State:					
Project Name: <b>NEW MEXICO "C" NCT-2</b>		Zip:					
Project Location:		Phone #:					
Sampler Name:		Fax #:					
Lab I.D.	Sample I.D.	CONTAINERS	MATRIX	PRESERV.	SAMPLING	DATE	TIME
113344-1	STOCK DILB 8.5		GROUNDWATER			12/14/24	
2	" " W.S		WASTEWATER				
3	" " S.S		SLUDGE				
4	" " H.S		OTHER:				
			ICE / COOL				
			OTHER:				
			ACID/BASE:				
			OTHER:				

**PLEASE NOTE:** TYPING AND SIGNATURES ARE REQUIRED FOR ALL CHAIN-OF-CUSTODY REQUESTS. ALL CHAIN-OF-CUSTODY REQUESTS MUST BE COMPLETED BY THE CLIENT FOR THE ANALYST. ALL CHAIN-OF-CUSTODY REQUESTS MUST BE COMPLETED BY THE CLIENT FOR THE ANALYST. ALL CHAIN-OF-CUSTODY REQUESTS MUST BE COMPLETED BY THE CLIENT FOR THE ANALYST.

**Sampler Requisitioned By:** *Paul McCasland* **Date:** 12/14/24 **Time:** 10:05

**Received By: (Lab Staff)** *Paul McCasland* **Date:** 12/14/24 **Time:** 10:05

**Delivered By: (Circle One)** ☒ UPS ☐ Bus ☐ Other:

**Sampler - UPS - Bus - Other:**

**Phone Results:** ☐ Yes ☐ No **Fax Results:** ☐ Yes ☐ No

**REMARKS:**

† Cardinal cannot accept verbal changes. Please fax written changes to (325) 673-7020.





**ARDINAL  
LABORATORIES**

PHONE (325) 873-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR  
ENVIRONMENTAL PLUS INC.  
ATTN: PAT McCASLAND  
P.O. BOX 1558  
EUNICE, NM 88231  
FAX TO: (505) 394-2601

Receiving Date: 12/15/2004  
Reporting Date: 12/16/2004  
Project Number: XTO  
Project Name: NEW MEXICO C NCT # 2  
Project Location: NOT GIVEN

Sampling Date: 12/15/2004  
Sample Type: SOIL  
Sample Condition: COOL & INTACT  
Sample Received By: GP  
Analyzed By: VB

LAB NUMBER	SAMPLE ID	MTBE (mg/kg)	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYLBENZENE (mg/kg)	TOTAL XYLENES (mg/kg)
ANALYSIS DATE:		12/16/04	12/16/04	12/16/04	12/16/04	12/16/04
H9404-1	SXTO121504BHC	<0.002	<0.002	<0.002	<0.002	<0.006
Quality Control		0.086	0.0937	0.0895	0.0920	0.271
True Value QC		0.100	0.100	0.100	0.100	0.300
% Accuracy		86.3	93.7	89.5	92.0	90.3
Relative Percent Difference		0.4	7.4	8.5	7.3	7.2

METHODS: EPA - SW 846-8021B, 5030B; Gas Chromatography

Victor Blunt  
Chemist

12/16/2004  
Date

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2111 Beechwood, Abilene, TX 79603  
915-673-7001 Fax 915-673-7020

101 East Marland, Hobbs, NM 88240  
505-393-2326 Fax 505-393-2476

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