

**XTO Energy, Inc.  
Eunice Monument South Unit Satellite #4  
Township 22 South, Range 36 East, Section 6  
Lea County, New Mexico**

**Closure Report**

**May 24, 2011**



**Prepared for:**

***XTO Energy, Inc.  
700 Lorraine, Suite 800  
Midland, Texas 79701***

**Prepared by:**

***Safety & Environmental Solutions, Inc.  
703 East Clinton Street  
Hobbs, New Mexico 88240  
(575) 397-0510***

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**I. Company Contacts**

Representative	Company	Telephone	E-mail
Gene Hudson	XTO Energy	575.441.1634	<a href="mailto:Richard_Hudson@xtoenergy.com">Richard_Hudson@xtoenergy.com</a>
Bob Allen	SESI	575.390.7063	<a href="mailto:ballen@sesi-nm.com">ballen@sesi-nm.com</a>

**II. Background**

Safety and Environmental Solutions, Inc. (SESI) was engaged by XTO Energy, Inc. to perform clean-up services at the EMSU Satellite #6 release. According to the C-141 dated February 7, 2011, the release was due to a ruptured flowline releasing approximately 65 barrels of produced fluids, in which 61 barrels were recovered. New Mexico Oil Conservation Division (NMOCD) was notified.

**III. Surface and Ground Water**

The closest groundwater of record with the Office of the State Engineer is located 2.5 miles southeast of the location; in the section 10 of Township 21 South and Range 36 East, Lea County New Mexico. The depth of water in this well was 195' in January 1986.

**IV. Characterization**

The target cleanup levels are reached by the application of the "Guidelines for Remediation of Leaks, Spills and Releases New Mexico Oil Conservation Division (NMOCD) – August 13, 1993 to this site is 5,000 parts per million (ppm) Total Petroleum Hydrocarbons (TPH).

Application of the New Mexico Oil Conservation Division's ranking criteria for contaminated soils at this site is presented below:

Total Ranking Score			
Score:	>19	10 - 19	0 - 9
Benzene (ppm)	10	10	10
Total BTEX (ppm)	50	50	50
TPH (ppm)	100	1,000	5,000

<b>Depth to Ground Water:</b>			
(Vertical distance from contaminants to seasonal high water elevation of groundwater)	Less than 50 feet	20 points	
	50 feet to 99 feet	10 points	
	>100 feet	0 points	<b>X</b>
<b>Wellhead Protection Area:</b>			
(Less than 200 feet from a private domestic water source; or less than 1000 feet from all other water sources)	Yes	20 points	
	No	0 points	<b>X</b>
<b>Distance to Surface Water:</b>			
(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	Less than 200 feet	20 points	
	200 feet to 1000 feet	10 points	
	>1000 feet	0 points	<b>X</b>
<b>RANKING SCORE (TOTAL POINTS)</b>			<b>0</b>

## V. Work Performed

On February 11, 2011, Safety and Environmental Solutions, Inc, met with Mr. Geoff Leking, NMOCD representative, and Mr. Gene Hudson, XTO representative, to assess the affected area. The release flowed off the pad, past the fence and pooled on lease road. Mr. Leking approved that the area will need to be excavated to a depth of six (6) inches below grade surface (bgs) utilizing hand shovel to determine vertical extent. Due to numerous buried lines in the location area the location the area will be backfilled after return Laboratory samples.

On February 22, 2011 SESI is on location with Mr. David Paschal, XTO representative, and Mr. Leking, NMOCD representative to obtain samples from inside release area. Samples were retrieved at depths ranging from 0-2' bgs and transported to Cardinal Laboratories in Hobbs, New Mexico to be analyzed for Total Petroleum Hydrocarbons (TPH EPA Method 418.1), Benzene, Toluene, Ethyl Benzene, Total Xylene (BTEX EPA Method 8021B), and Chlorides (EPA Method 4500B).

As per Mr. Leking, on May 9, 2011, SESI was onsite to further delineate sample point #5 to a depth of one (1) ft below grade surface to determine if the migration of Total Petroleum Hydrocarbon remained. The sample was retrieved and properly preserved and transported under chain of custody to Cardinal Laboratories, in Hobbs New Mexico to be analyzed for Total Petroleum Hydrocarbons (TPH EPA Method 418.1), Benzene, Toluene, Ethyl Benzene, Total Xylene (BTEX EPA Method 8021B), and Chlorides (EPA Method 4500B).

The results of the analytical results are as follows:

Sample ID	Chlorides (mg/kg)	TPH 418.1 (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl Benzene (mg/kg)	Xylenes (mg//kg)
<b>Analysis Date:</b>	<b>2/23/11</b>	<b>2/28/11</b>	<b>2/25/11</b>	<b>2/25/11</b>	<b>2/25/11</b>	<b>2/25/11</b>
SP #1 2'bgs	176	243	<0.200	<0.200	<0.200	<0.600
SP #2 Surface	880	7,660	<0.200	<0.200	0.250	2.20
SP #2 2'bgs	<16.0	229	<0.200	<0.200	<0.200	<0.600
SP #3 1'bgs	80.0	202	<0.200	<0.200	<0.200	<0.600
SP #4 Surface	368	130	<0.200	<0.200	<0.200	<0.600

SP #5 Surface	176	1,070	<0.200	<0.200	<0.200	<0.600
<b>Analysis Date:</b>	<b>05/11/11</b>	<b>05/11/11</b>	<b>05/11/11</b>	<b>05/11/11</b>	<b>05/11/11</b>	<b>05/11/11</b>
SP #5 1'bgs	<16.0	<100	<0.050	<0.050	<0.050	<0.150

**VI. Conclusion**

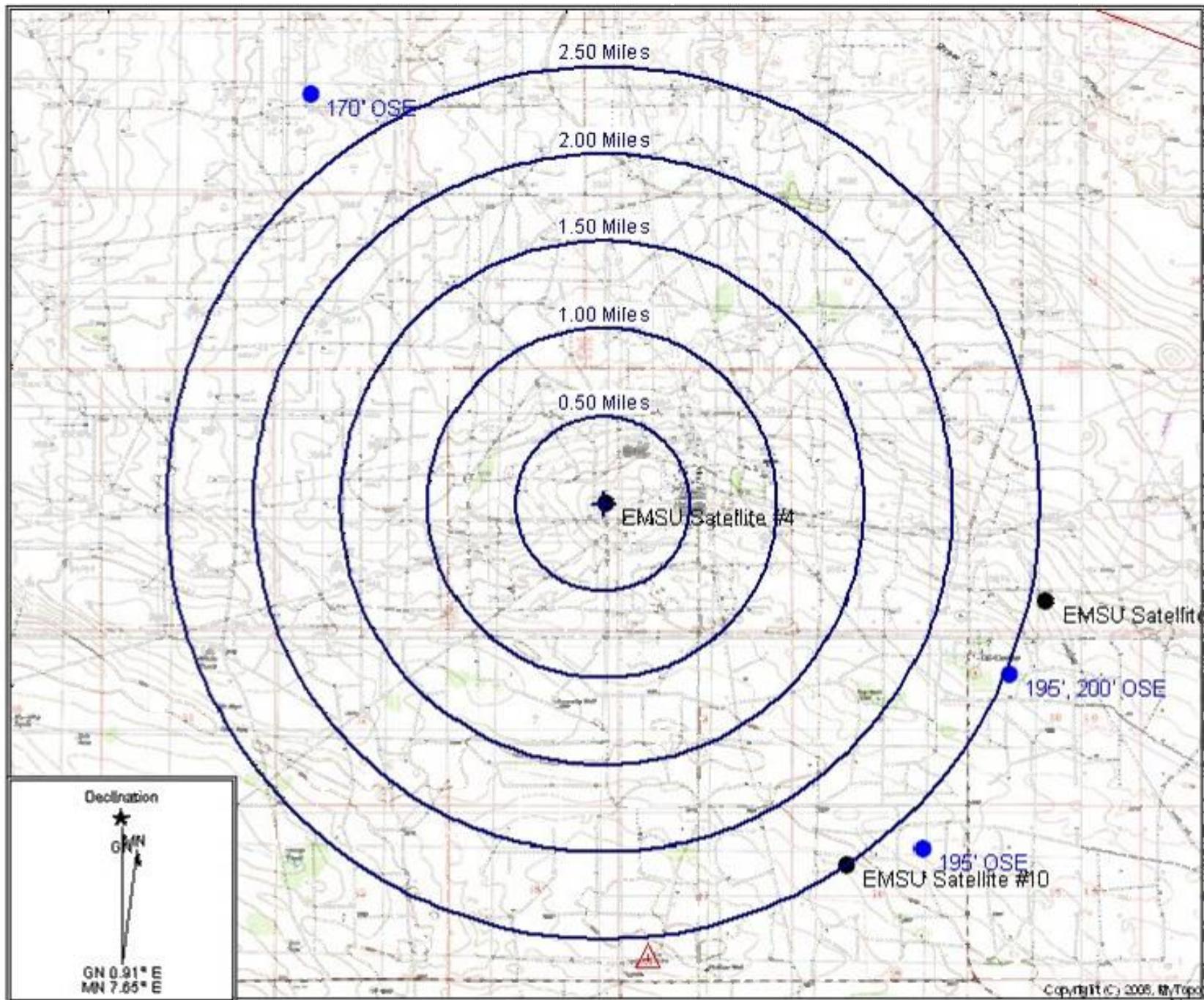
As a result of the most recent delineation, the analysis indicated that levels of TPH, the contaminant of concern, were under guidelines set forth by NMOCD It is request that no further action be required at this time. The operator is aware that at such time the tank battery becomes inactive further action may be required.

**VII. Figures & Appendices**

- Figure 1 – Vicinity Map
- Figure 2 – Site Map
- Appendix A – Analytical Results
- Appendix B – Site Photographs
- Appendix C – C-141

# **Figure 1**

## **Vicinity Map**

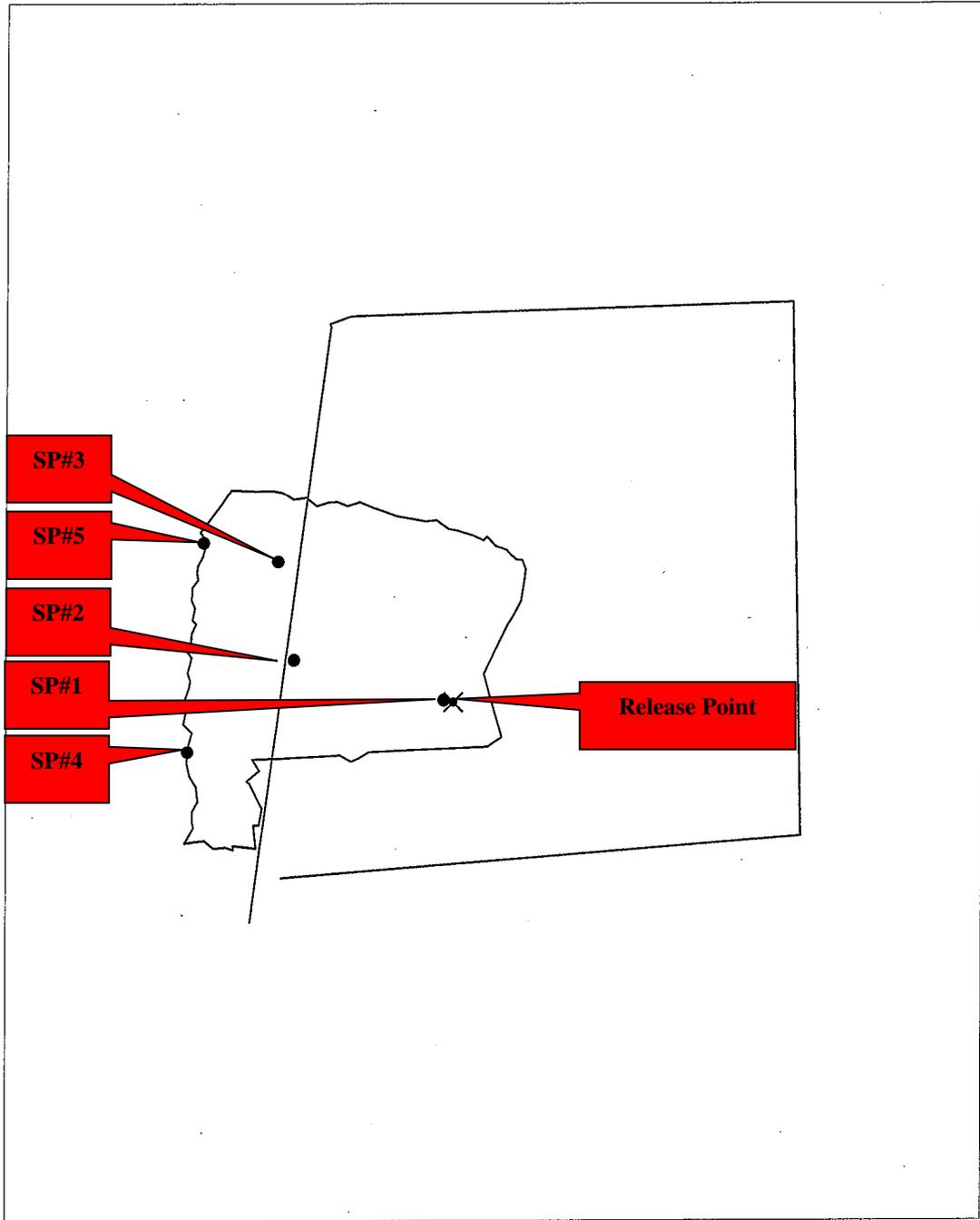


Map Name: OIL CENTER,  
 Scale: 1 inch = 4,750 ft.

Map Center: 032° 30' 40.50" N 103° 17' 50.13" W  
 Horizontal Datum: WGS84

## **Figure 2**

### **Site Map**

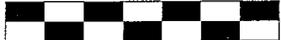


Lat/Long  
WGS 1984



Scale 1 in : 50.0 ft

0 70.00

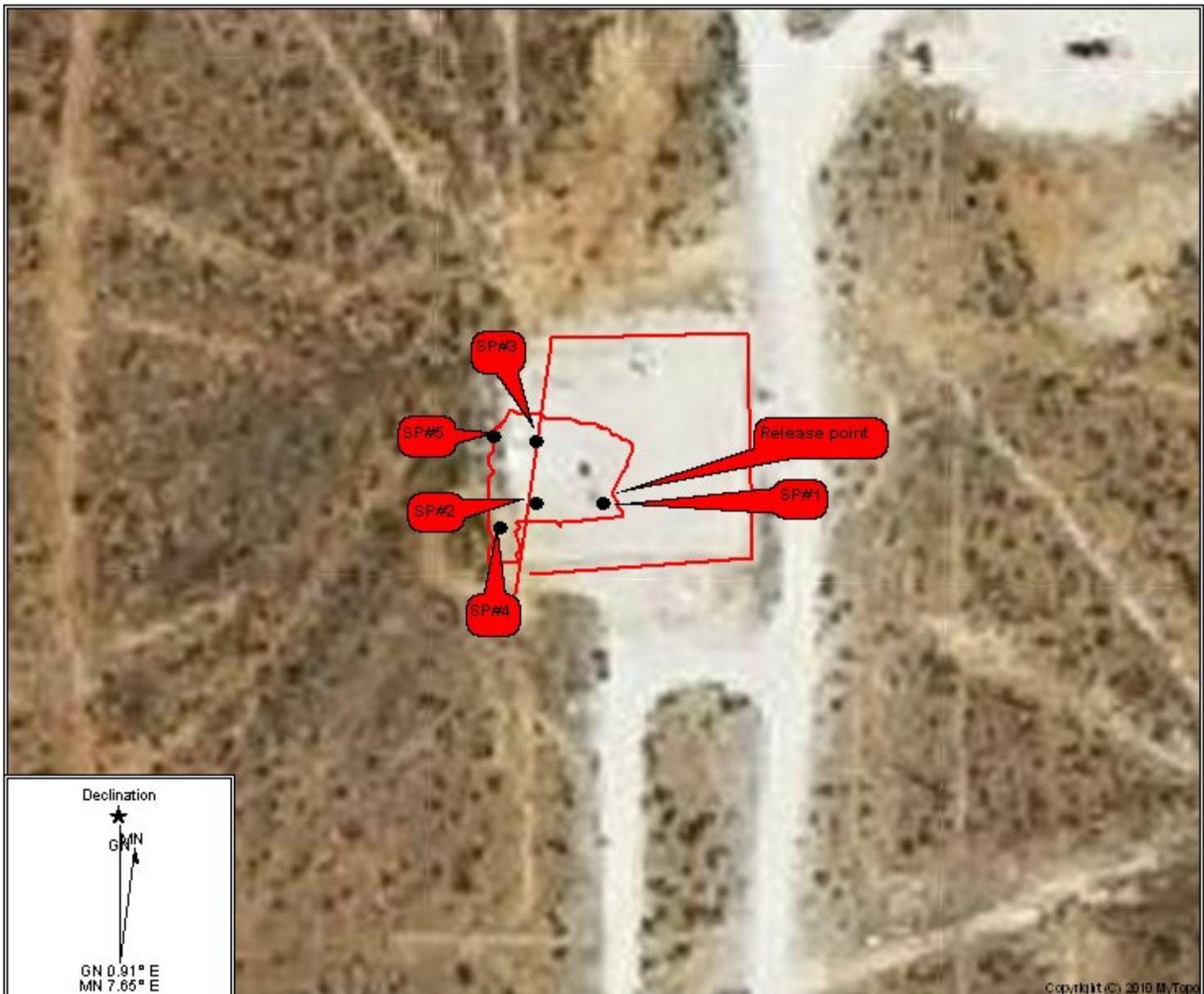


Feet

EMSU Sat #4 trimble site m

GPS Pathfinder® Office





Map Name: SE MONUMENT SOUTH, NM  
Scale: 1 inch = 100 ft.

Map Center: 032° 30' 41.59" N 103° 17' 50.59" W  
Horizontal Datum: WGS84

# **Appendix A**

## **Analytical Results**

# **Appendix B**

## **Site Photographs**

XTO EMSU Satellite #4 Site Photos 2-11-11



Well sign



Release point facing north



Release area facing east



Release area facing north



Release area facing north



Release area facing northwest



Release area facing south



Release area facing west



Well sign



Location area backfilled facing west



Location area backfilled facing north



Location area backfilled facing north



Location area backfilled facing north



Location area backfilled facing north



Location area backfilled facing east



Location area backfilled facing north



Location area backfilled facing north

# **Appendix C**

## **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	XTO Energy, Inc.	Contact	David Paschal
Address	200 N. Lorraine Dr. Ste 800, Midland, TX 79701	Telephone No.	575-394-2089
Facility Name	Bunice Monument So. Unit Sat #4	Facility Type	Satellite Battery
Surface Owner	Mineral Owner	Lease No.	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
3	5	21S	36E	653	North	1980	West	Lea

Latitude \_\_\_\_\_ Longitude \_\_\_\_\_

NATURE OF RELEASE

Type of Release	Fluids	Volume of Release	5 bo 60 bw	Volume Recovered	4 bo & 57 bw
Source of Release	Flow Line	Date and Hour of Occurrence	2/3/11	Date and Hour of Discovery	2/3/11 @ 12:30 p.m.
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	2/3/11 Mark Whitaker with OCD		
By Whom?	Velma Gallardo	Date and Hour	2/3/11 @ 4:03 p.m.		
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.\*

Flow line leak at satellite, due to rupture of line resulted in the loss of 60 barrels of water and 5 barrels of oil.

Describe Area Affected and Cleanup Action Taken.\*

Vacuum truck picked up fluids and hauled to disposal.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCED 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 NMOCED 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, NMOCED 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>Velma Gallardo</i>	<b>OIL CONSERVATION DIVISION</b>		
Printed Name: Velma Gallardo	Approved by District Supervisor:		
Title: Production Analyst	Approval Date:	Expiration Date:	
E-mail Address: Velma.Gallardo@XTOEnergy.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 2/7/11	Phone: 432-620-4315		

\* Attach Additional Sheets If Necessary