

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:	Jeff Raines
Address	200 N. Lorraine, Suite 800 Midland Texas 79701	Telephone No.	432.557.3159
Facility Name	Eunice Monument South Unit B # 923	Facility Type:	Historic Spill.
Surface Owner	Mineral Owner	Lease No. API 30-025-04304	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
N	24	20 S	36 E	660	PSL	1980	FWL	Lea

Latitude: 32° 33' 17.8"N Longitude: 103° 18' 20.8" W

NATURE OF RELEASE

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

If a Watercourse was Impacted, Describe Fully.*

WATER @ 37'

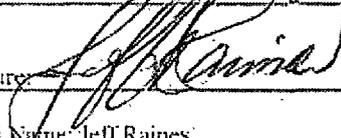
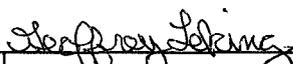
Describe Cause of Problem and Remedial Action Taken.*

Abandoned historical tank battery site. Delineation is in progress.

Describe Area Affected and Cleanup Action Taken.*

Area was assessed for damages and a workplan will be submitted to the NMOCD for approval.

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:		OIL CONSERVATION DIVISION	
Printed Name: Jeff Raines		ENV ENGINEER: Approved by District Supervisor: 	
Title: Construction Foreman		Approval Date: 02/19/10	Expiration Date: 04/19/10
E-mail Address: Jeff.Raines@xtoenergy.com		Conditions of Approval: SUBMIT FINAL C-141 BY 04/19/10.	Attached <input type="checkbox"/> RP-10-2-2428
Date: September 25, 2009	Phone: 432.557.3159		

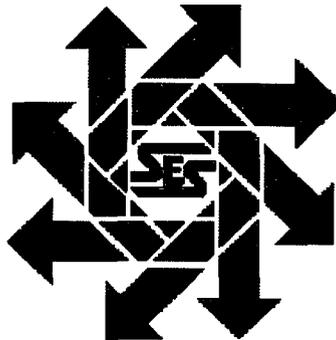
* Attach Additional Sheets If Necessary

APRL 1005033389

**XTO Energy
EMSU-B #923
Township 20 South, Range 36 East, Section 24
Lea County, New Mexico**

Delineation Report

January 14, 2010



Prepared for:

***XTO Energy
P.O. BOX 700
Eunice, New Mexico 88231-0700***

By:

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

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I. Company Contacts

NAME	Company	Telephone	E-mail
Gene Hudson	XTO Energy	575-441-1634	Richard_Hudson@xtoenergy.com
Isaac Kincaid	SESI	575-390-8841	ikincaid@sesi-nm.com

II. Background

Safety and Environmental Solutions, Inc. (SESI) was engaged by XTO Energy to perform clean-up services at the EMSU-B #923 spill site. This is an area with old hard pan staining that resulted from previous operators activities. The contaminants of concern at the site appear to be crude oil and possibly produced water.

XTO Energy Inc. acquired these leases in September 2004. There has not been any facilities, pipeline, or flow lines operated on or nearby any of these subject sites by XTO Energy. However, a search of the New Mexico Oil Conservation Division (NMOCD) online database, the well files revealed the leases were held by the following companies:

Lease #	Year	Company
EMSU-B #923	1943-1976	Continental Oil
	1979	Conoco Inc
	1990	Chevron USA Inc.
	2004	XTO Energy Inc.

III. Surface and Ground Water

The closest groundwater of record with the Office of the State Engineer is located in Township 20 South, Range 37 East, and Section 19. The depth of water in this well was 35' in 1953.

IV. Work Performed

On October 8, 2009, SESI was onsite with Diamondback Disposal Services Inc. to install 7 test trenches from excavated area to determine vertical extent. The area has already been excavated to a depth of 6 to 8 ft. below ground surface (bgs). The test trenches were installed to a depth of 8 to 18 ft. bgs. Samples were retrieved at a depth of 3 to 5 feet intervals and were properly preserved and transported under Chain-of-Custody to Cardinal Laboratories of Hobbs, New Mexico for analysis. The samples were analyzed for Benzene, Toluene, Ethyl benzene, and Xylenes (BTEX) (EPA method 8021B), and Total Petroleum Hydrocarbons (EPA method 8015 M).

The results of the analysis are as follows:

Sample Point	GRO (C ₆ -C ₁₀) (mg/kg)	DRO (>C ₁₀ -C ₂₈) (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl Benzene (mg/kg)	Total Xylenes (mg/kg)
TT#1 8'	<10.0	<10.0	<0.050	<0.050	<0.050	<0.300
TT #2 9'	<10.0	<10.0	<0.050	<0.050	<0.050	<0.300
TT #3 10'	11.6	440	<0.050	<0.050	<0.050	0.368
TT #3 14'	11.6	545	0.060	0.145	0.283	0.946

Sample Point	GRO (C ₆ -C ₁₀) (mg/kg)	DRO (>C ₁₀ -C ₂₈) (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl Benzene (mg/kg)	Total Xylenes (mg/kg)
TT #3 18'	459	1,890	<0.050	0.249	<0.050	2.94
TT #4 11'	1,120	2,620	0.763	0.878	1.94	6.21
TT #4 15'	971	1,690	0.439	0.876	1.61	4.95
TT #5 10'	30.0	720	<0.050	0.137	<0.050	1.39
TT #5 15'	109	2,200	<0.050	<0.050	<0.050	0.936
TT #5 18'	41.8	1,160	<0.050	<0.050	<0.050	0.491
TT #6 10'	<10.0	<10.0	<0.050	<0.050	<0.050	<0.300
TT #6 12'	<10.0	<10.0	<0.050	<0.050	<0.050	<0.300
TT #7 9'	<10.0	25.8	<0.050	<0.050	<0.050	<0.300
TT #7 12'	77.4	1,260	<0.050	<0.050	<0.050	1.02
TT #7 15'	<10.0	<10.0	<0.050	<0.050	<0.050	<0.300

On December 9, 2009, SESI was onsite to obtain an 11 point composite on floor bottom. The sample was analyzed for Chlorides (EPA Method 4500-Cl-B) sample was taken at a depth of 8 ft. bgs.

The result of the analysis is the following:

Sample Point	Cl ⁻ (mg/kg)
Bottom 8' Composite	<16

On December 18, 2009, SESI was onsite with Gene Hudson, XTO representative, Dave Boyer, Hydrogeologist, and Diamondback Disposal. There were three areas with standing water (labeled N, E, S see figure 2).

The north area puddle (N) between TT#2 and TT#6 is located slightly away from the north end of the excavation and shows no sign of another source of water other than runoff from the excavation sides. Slightly elevated bottom areas were observed adjacent to the puddle.

The south area puddle (S) is located against the south edge of the excavation with ice covering a portion. It is close to TT#7. Erosion channels in the bottom of the excavation can be seen leading to the puddle and indicate it receives snowmelt and runoff from the higher portion of the excavation. No other source of water was observed.

The northeast area puddle (E) was excavated to a depth of 3 ½ ft bgs to determine if shallow groundwater was present as a source of the puddle. The excavation was dry and left open for several hours to see if water would seep into the trench. At the end of this time, it remained dry with no sidewall or bottom seepage and was backfilled.

On January 11, 2010, Dave Boyer, Hydrogeologist with SESI was onsite. Mr. Boyer observed that the puddles had decreased in size (as evidenced by higher elevation "bathtub rings) and stated that the remaining fluid in these areas is no more than precipitation/runoff water ponded by the clayey sediments at the bottom of the excavation. These will evaporate with decreasing precipitation and warmer weather.

Test trench #4 was re-excavated December 18 to determine to depth of hydrocarbon impacts, especially BTEX. The trench was excavated by a trackhoe to a depth of 22 ft.

bgs. Samples were retrieved at 2 ft. bgs intervals and were properly preserved and transported under Chain-of-Custody to Cardinal Laboratories of Hobbs, New Mexico for analysis. The samples were analyzed for Benzene, Toluene, Ethyl benzene, and Xylenes (BTEX) (EPA method 8021B), Total Petroleum Hydrocarbons (EPA method 8015 M), and a Chloride (EPA Method 4500-Cl-B) sample was taken at a depth of 22 ft. bgs.

The results of the analysis are as follows:

Sample Point	Cl ⁻ (mg/kg)	GRO (C ₆ -C ₁₀) (mg/kg)	DRO (>C ₁₀ -C ₂₈) (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl Benzene (mg/kg)	Total Xylenes (mg/kg)
TT #4 16'	-	<10.0	76.4	<0.050	0.127	0.058	0.556
TT #4 18'	-	398	1,730	<0.050	0.559	0.535	3.77
TT #4 20'	-	282	1,520	<0.050	0.573	0.435	3.17
TT #4 22'	<16	563	2,190	<0.050	0.433	0.433	3.74

V. Closure Plan

The site has been excavated to a depth ranging from 7 to 10 feet below the original ground surface. The source material has been removed and disposed of at South Monument Surface Waste Facility L.L.C., an approved NMOCD facility which is within a quarter mile of this site.

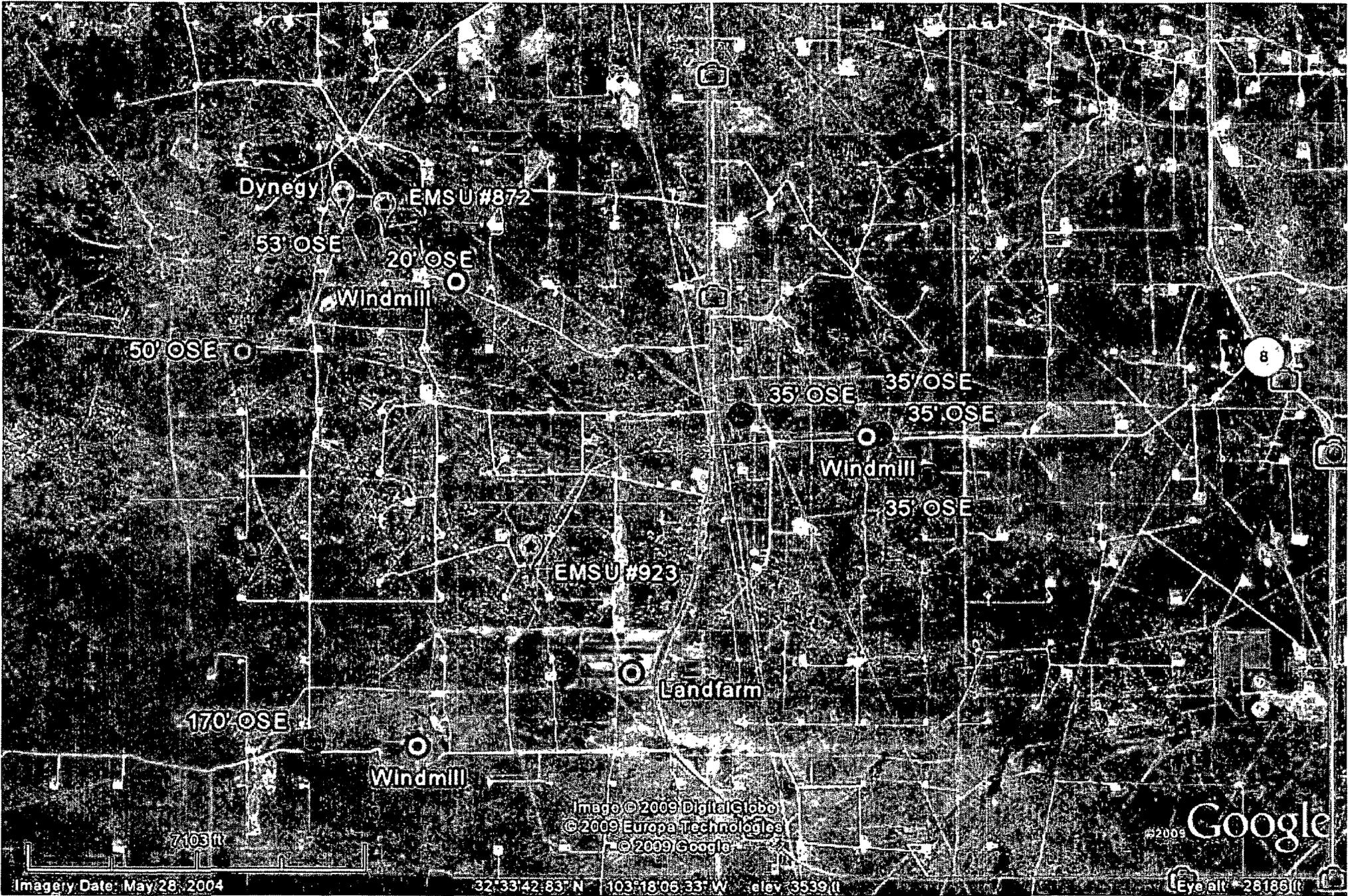
The vertical extent of TPH contamination was found in all test trenches with the exception of Trench #4 and Trench #5 which are in the middle of the excavation. The bottom hole samples of these trenches, respectively, are GRO 563 mg/kg, DRO 2,190 mg/kg, and GRO 41.8 mg/kg, DRO 1,160 mg/kg. In the EPA Method 8015, the GRO range is from C₆ – C₁₀ which are short chained hydrocarbons that are volatile. The DRO range is from C₁₀ to C₂₈ which are longer chained hydrocarbons which are less volatile. The results indicate the presence of small amounts of GRO range hydrocarbons which have most likely been trapped for a number of years, and slightly higher amounts of DRO. Benzene was not detected in the deeper Trench 4 samples and the concentrations of the other BTEX constituents are negligible.

Given the results of these analyses, XTO requests that the bottom of the existing excavation be plowed and left open until mid-summer to allow the site to aerate. After this period of aeration, the bottom of the excavation will be sampled to document any contaminants being left in place and the sides of the excavation will be pushed in toward the middle and additional clean fill will be used to restore the site to the grade requested by the land lessee.

VI. Figures & Appendices

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

Figure 1
Vicinity Map



Dyegy

EMS U #872

53' OSE

20' OSE

Windmill

50' OSE

35' OSE

35' OSE

35' OSE

Windmill

35' OSE

EMS U #923

Landfarm

170' OSE

Windmill

Image © 2009 DigitalGlobe
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© 2009 Google

Google

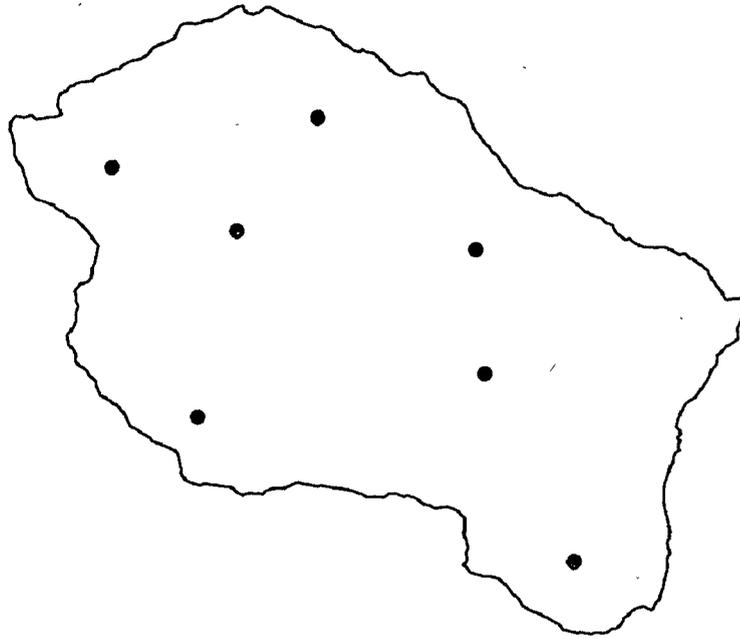
Imagery Date: May 28, 2004

32° 33' 42.83" N 103° 18' 06.33" W elev 3539 ft

Eye alt 26186 ft

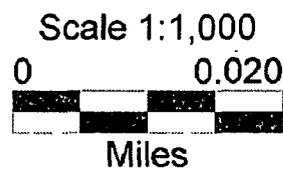


**Figure 2
Site Plan**



EMSU-B 923

Lat/Long
WGS 1984



site map.cor
10/19/2009

GPS Pathfinder® Office
 **Trimble™**



TT01

TT02

North area (N) puddle

TT03

Northeast area (E) puddle

TT04

TT05

South area (S) puddle

© 2009 Google

© 2009 Europa Technologies
Image © 2010 DigitalGlobe

Google



Imagery Date: May 28, 2004

32°33'14.82"N 103°18'41.50" W elev 3554 ft

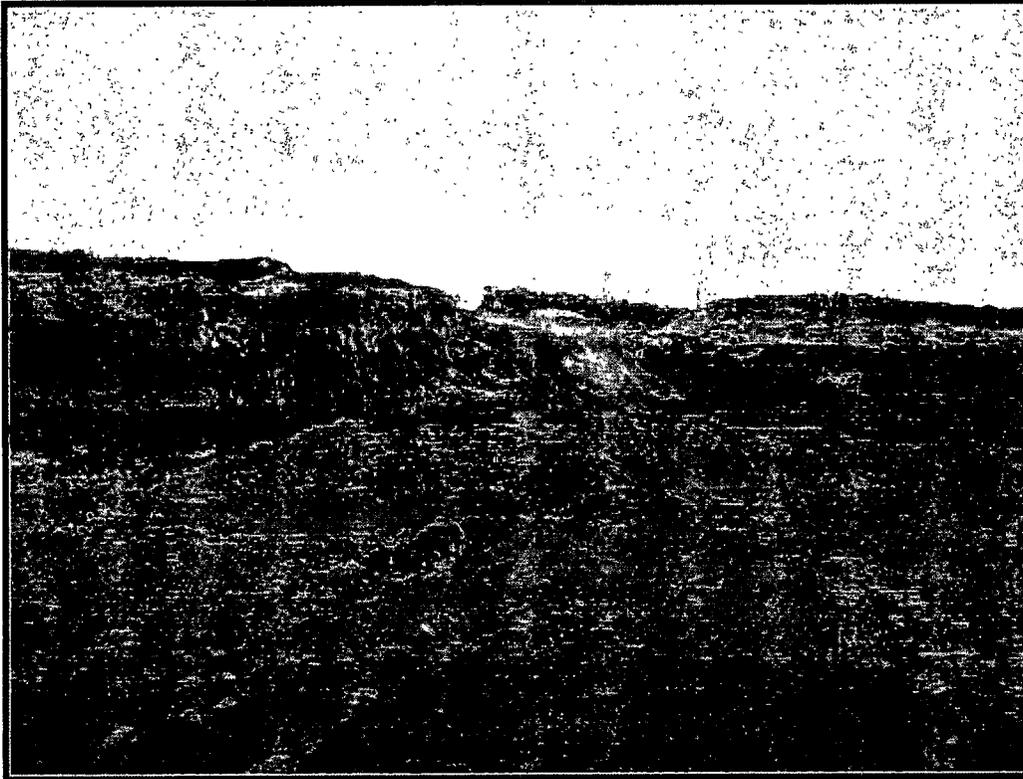
EyeAlt: 447 ft

Appendix A

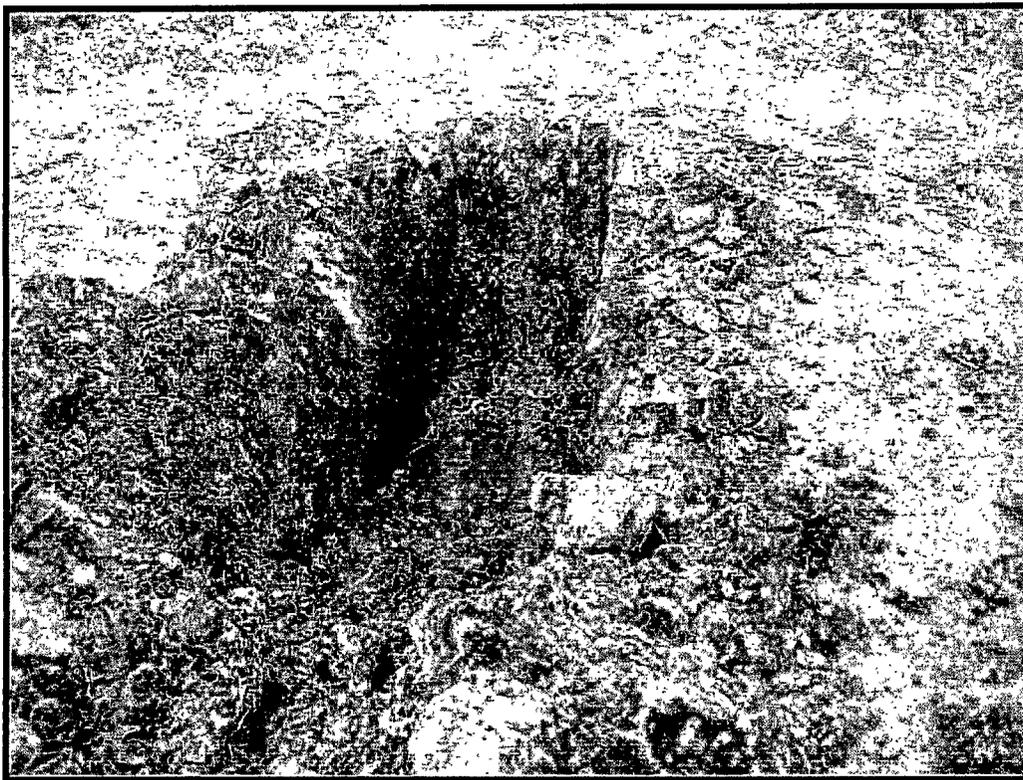
Analytical Results

Appendix B Site Photos

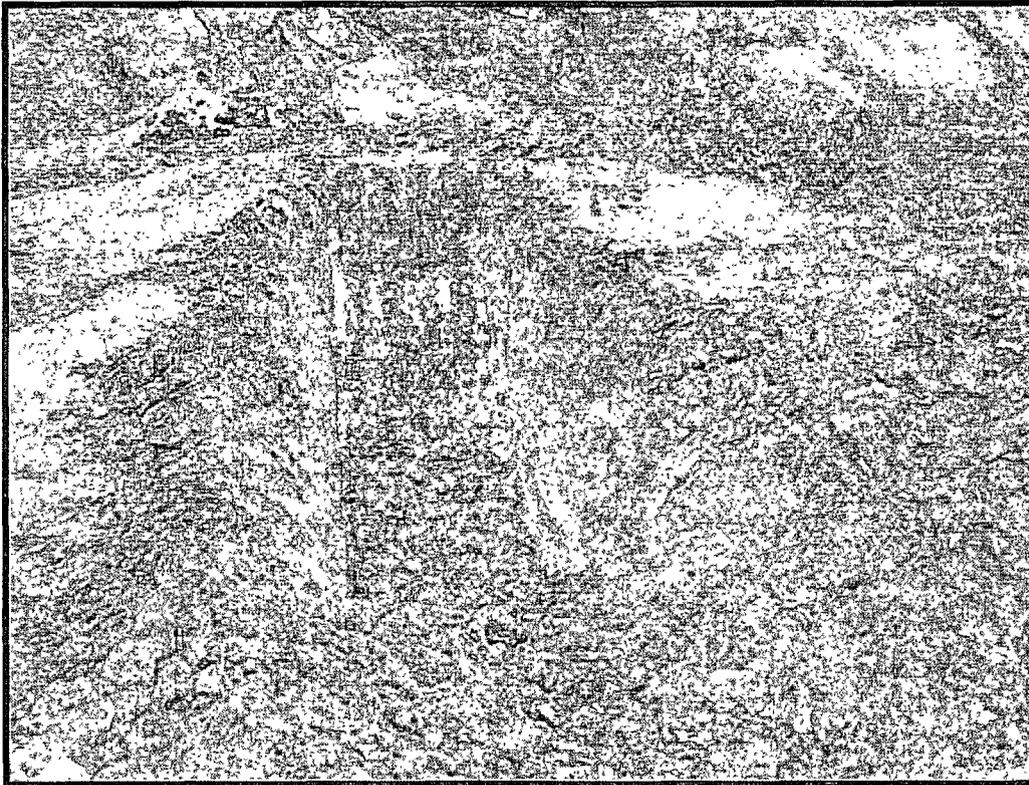
XTO EMSU-923 Site Photos 10-8-09



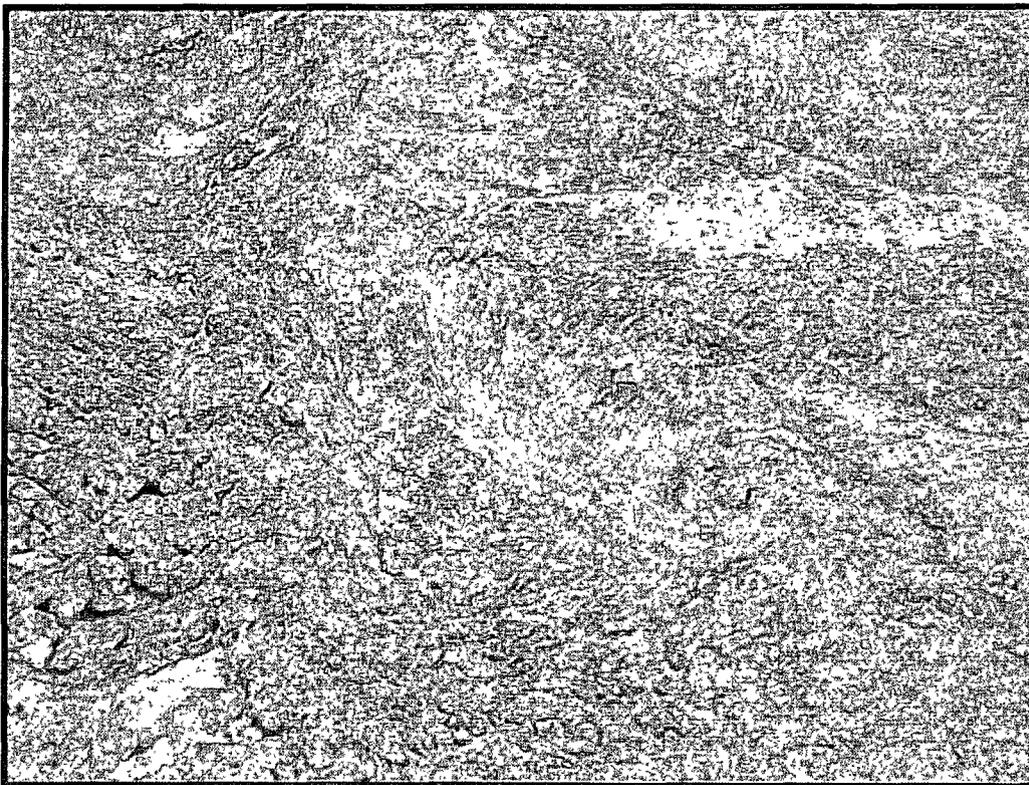
Excavated area



Test trench #1 8'



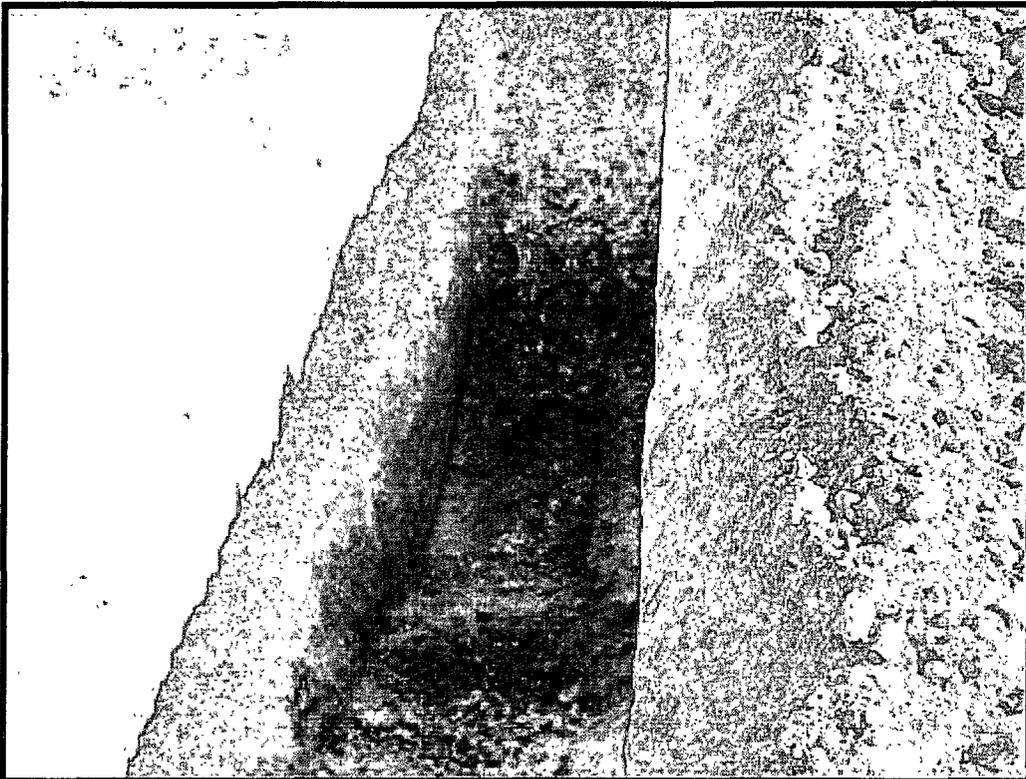
Test Trench #2 9'



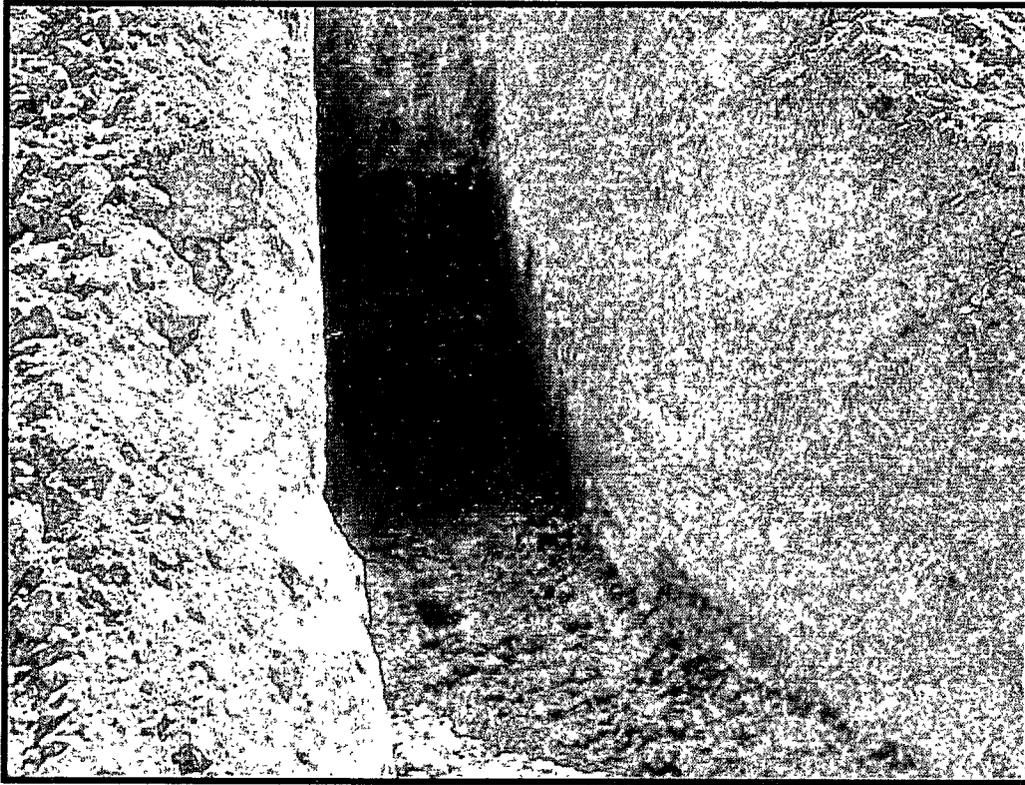
Test trench #3 10'



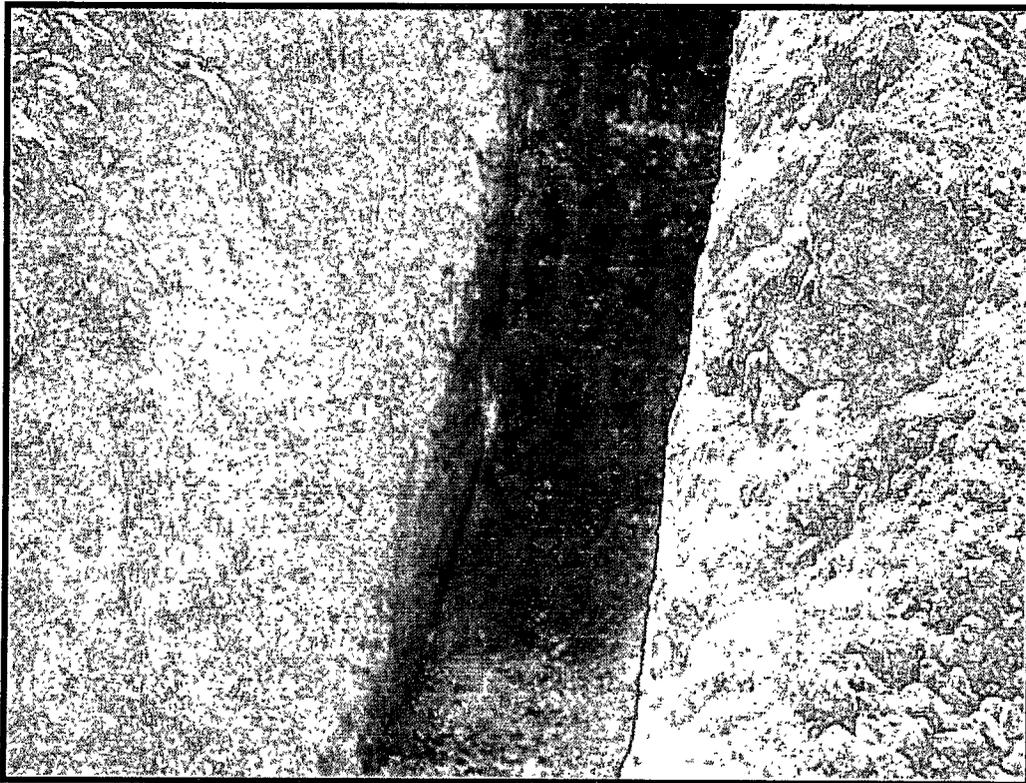
Test Trench #4 11'



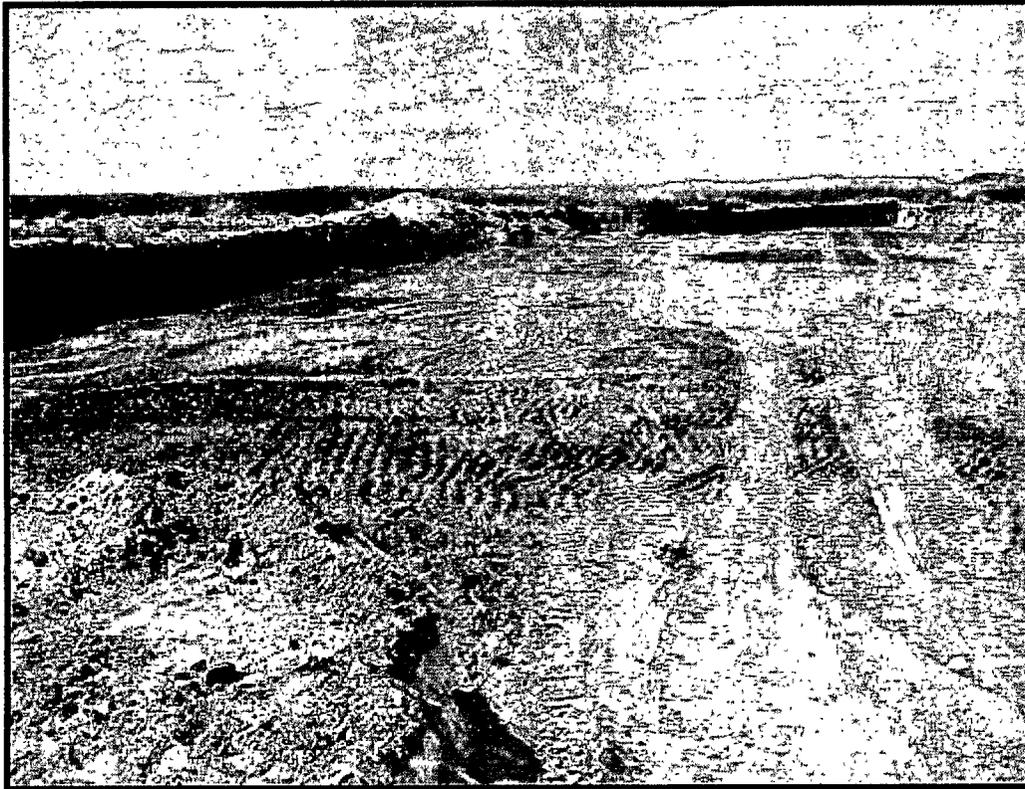
Test Trench #5 18'



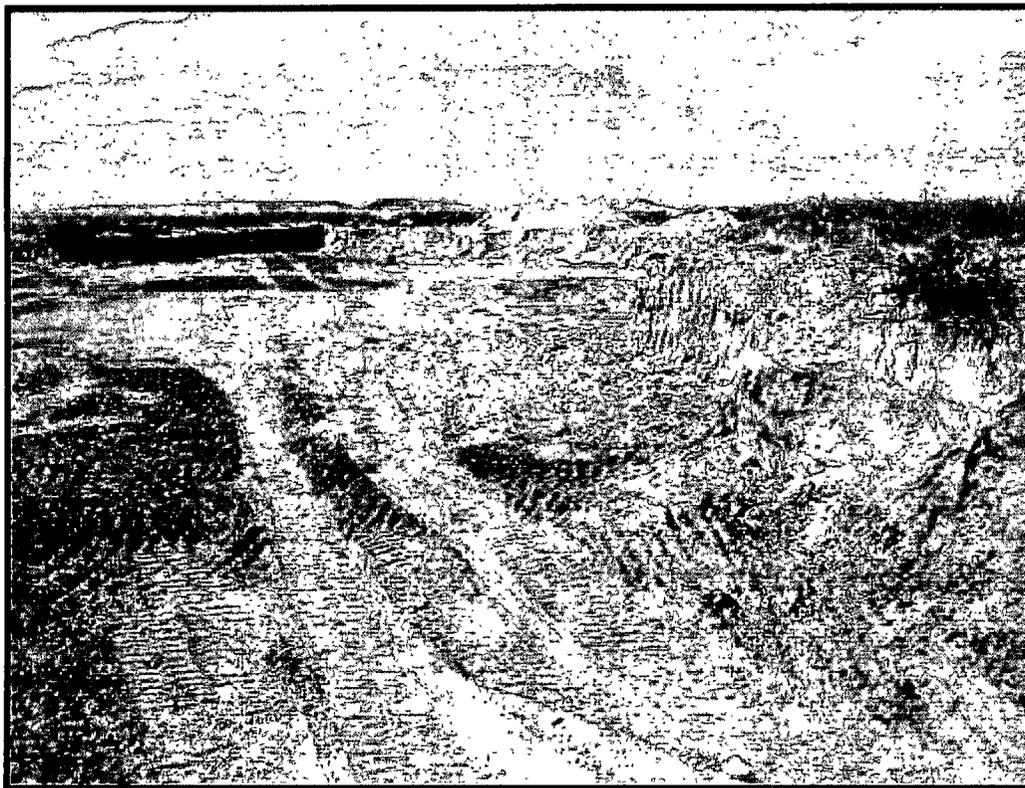
Test Trench #6 12'



Test Trench #7' 15

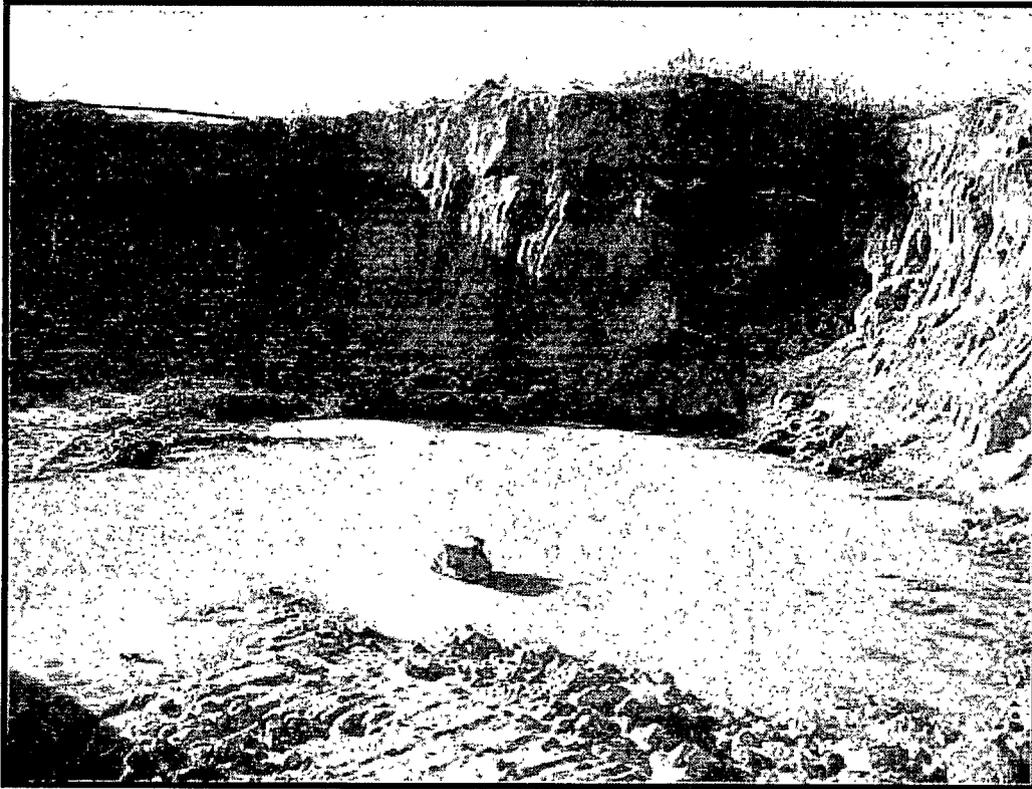


Test Trenches backfilled facing southwest

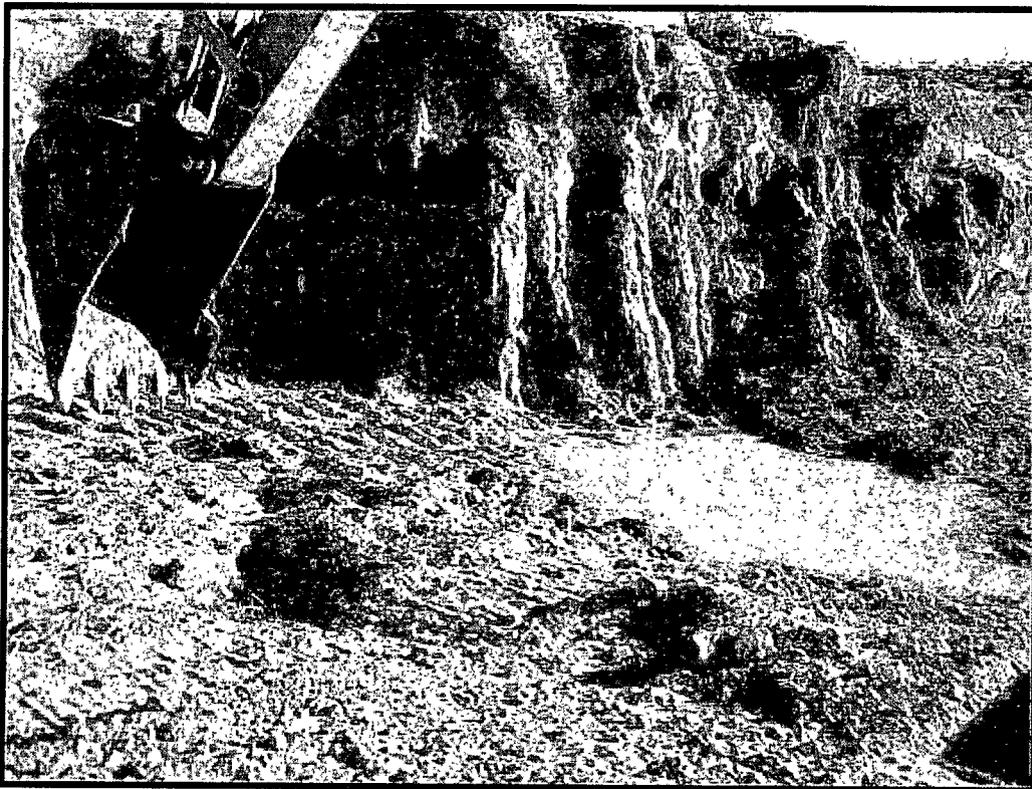


Test Trenches backfilled facing northwest

XTO EMSU Site photos 12-18-09



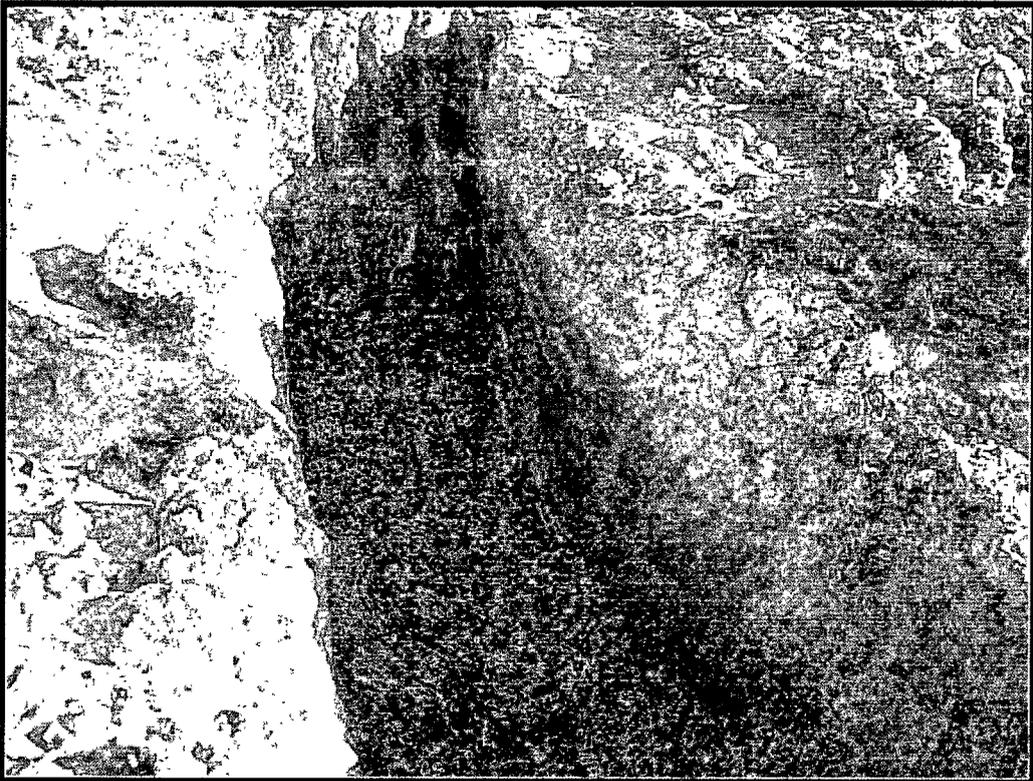
Southeast corner with rain water facing south



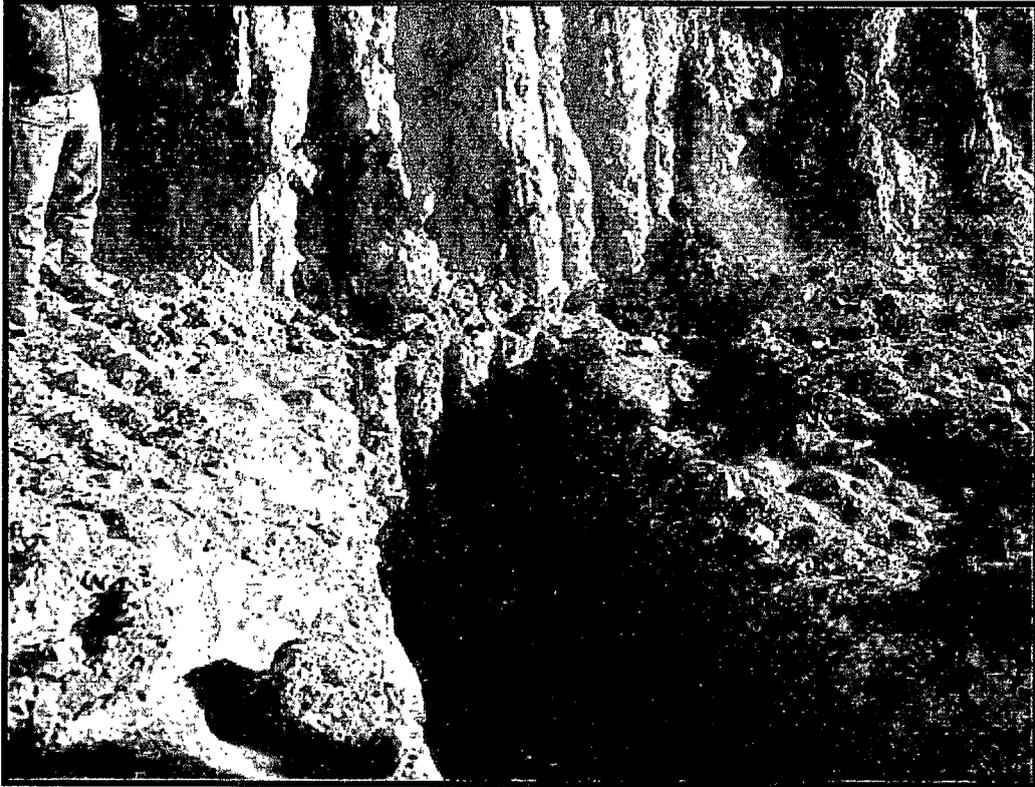
Northeast corner with rain water facing northeast



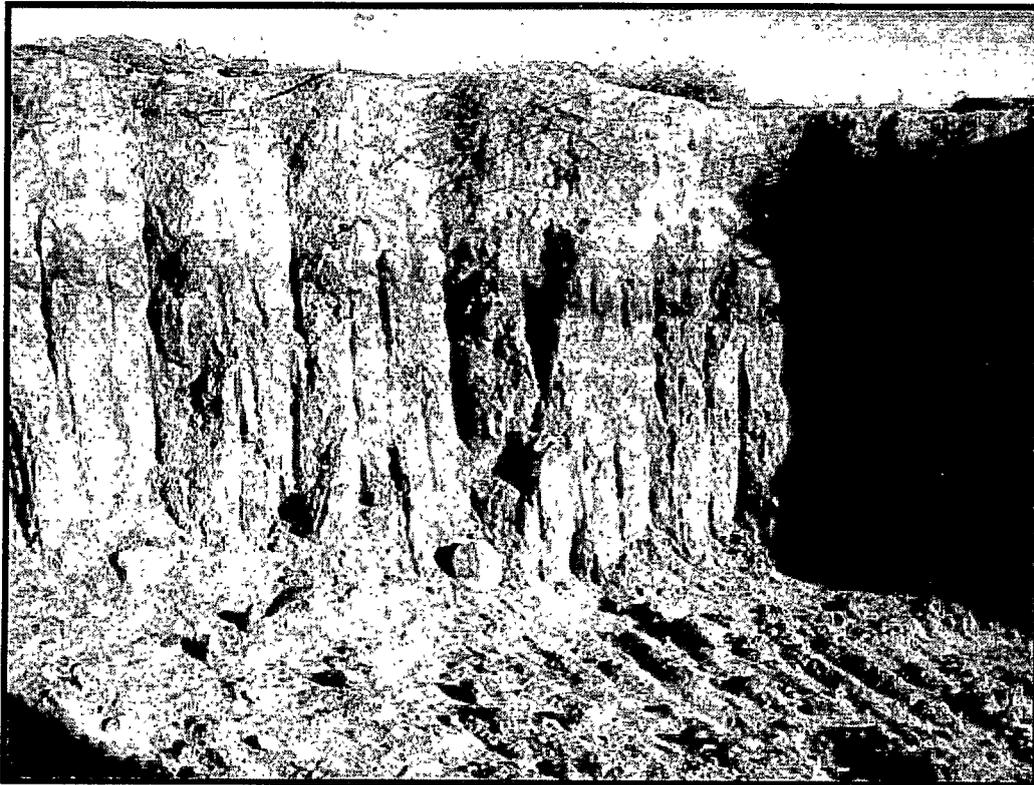
Northeast corner with rain water on top facing east



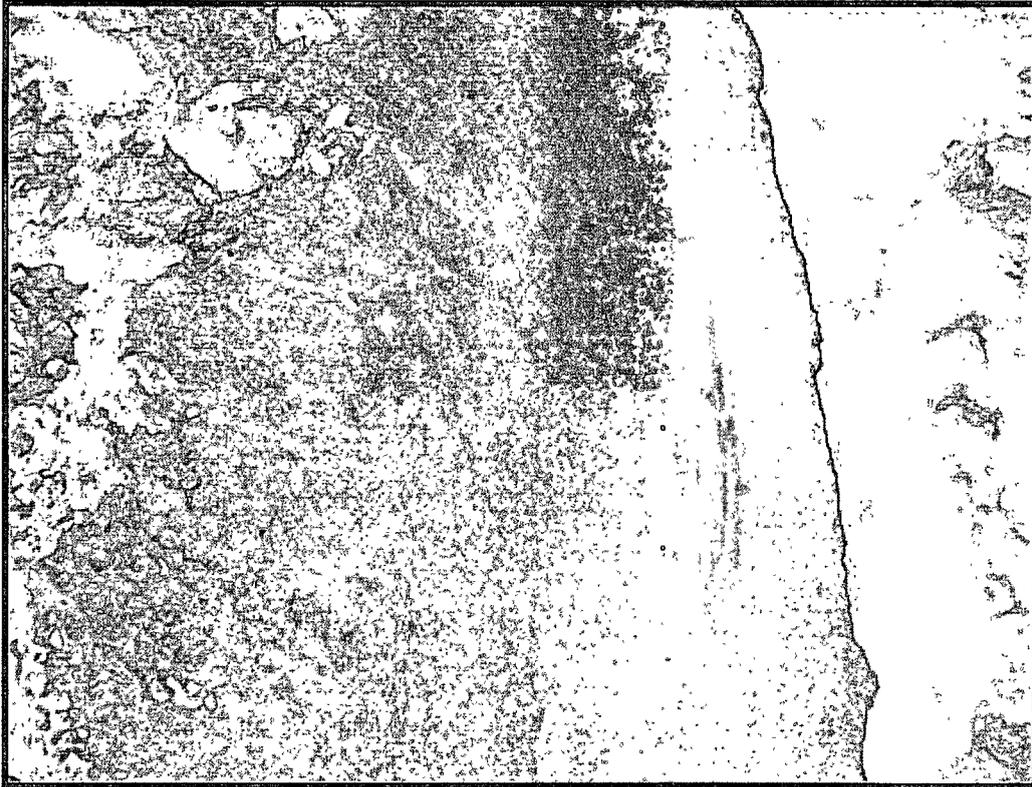
Northeast corner at 3 1/2' dry facing north



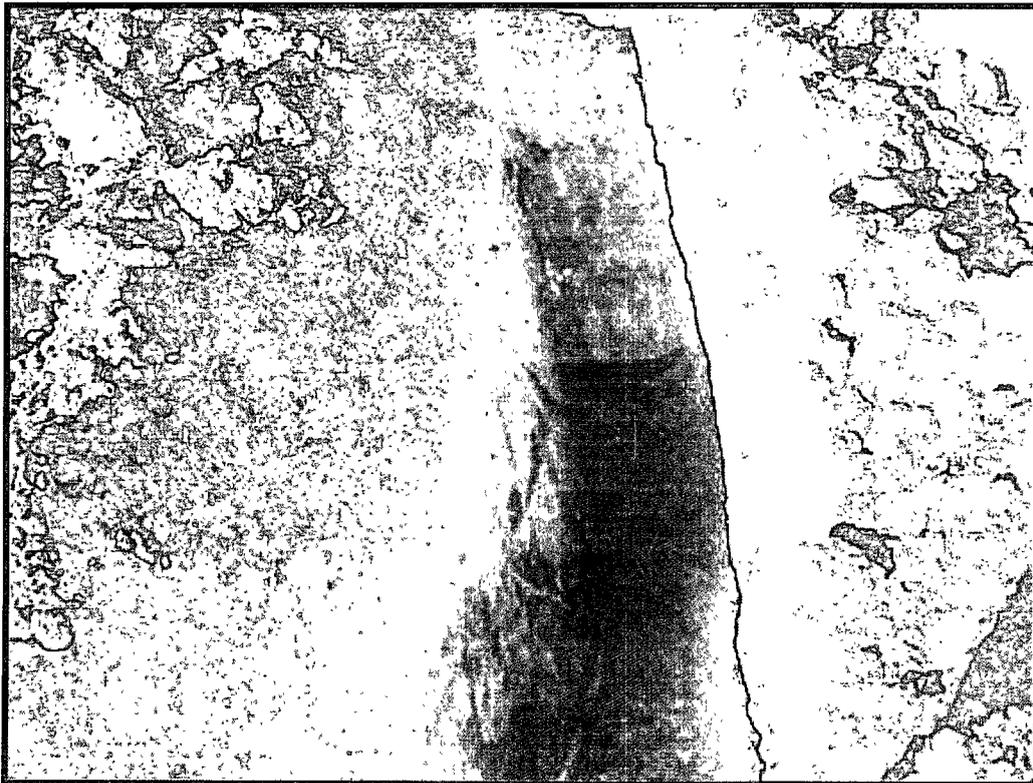
Northeast corner north wall facing north



North wall facing north



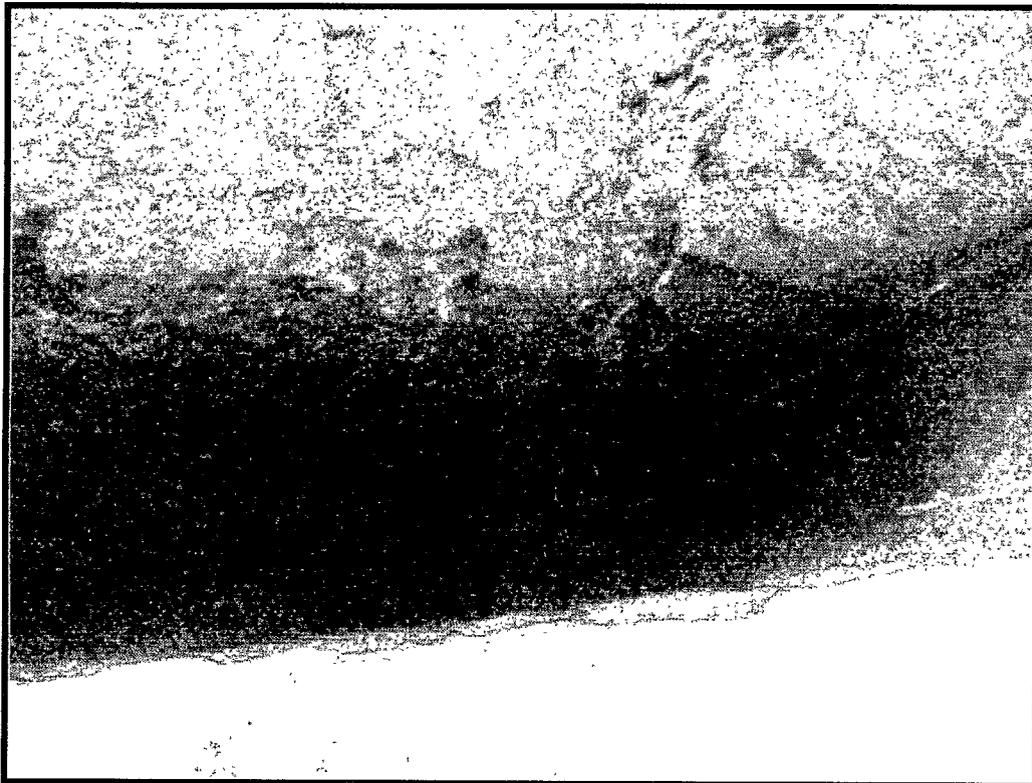
Test Trench #4 @ 16'bgs facing west



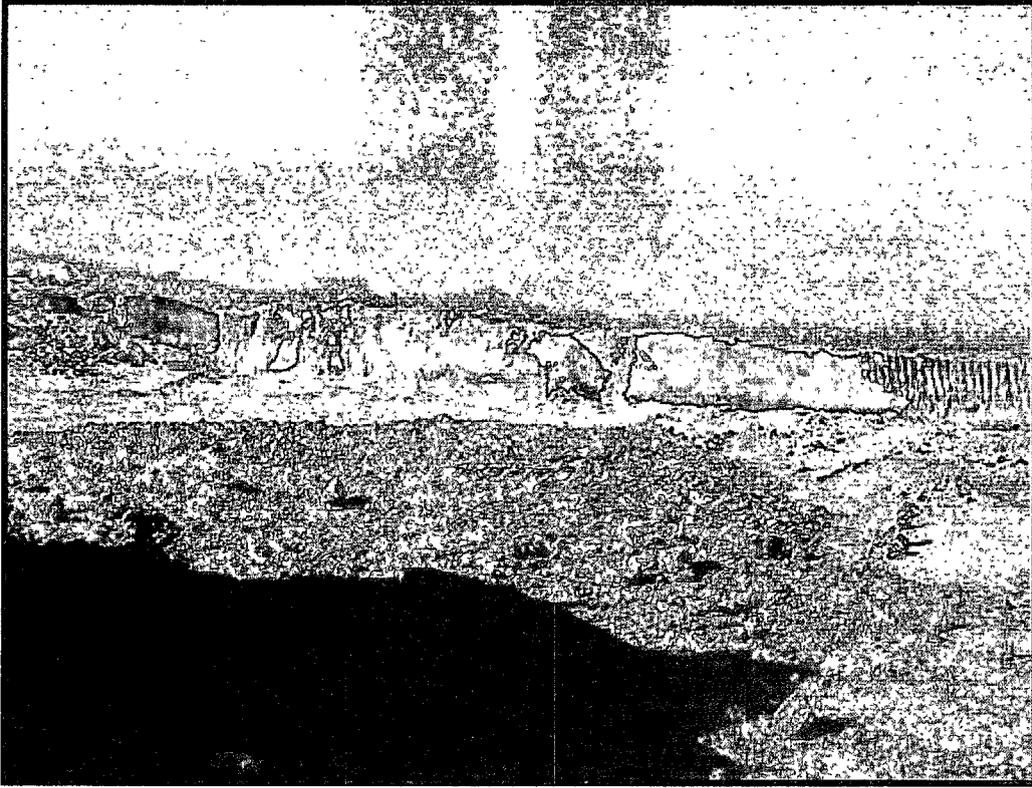
Test Trench #4 @ 18'bgs facing west



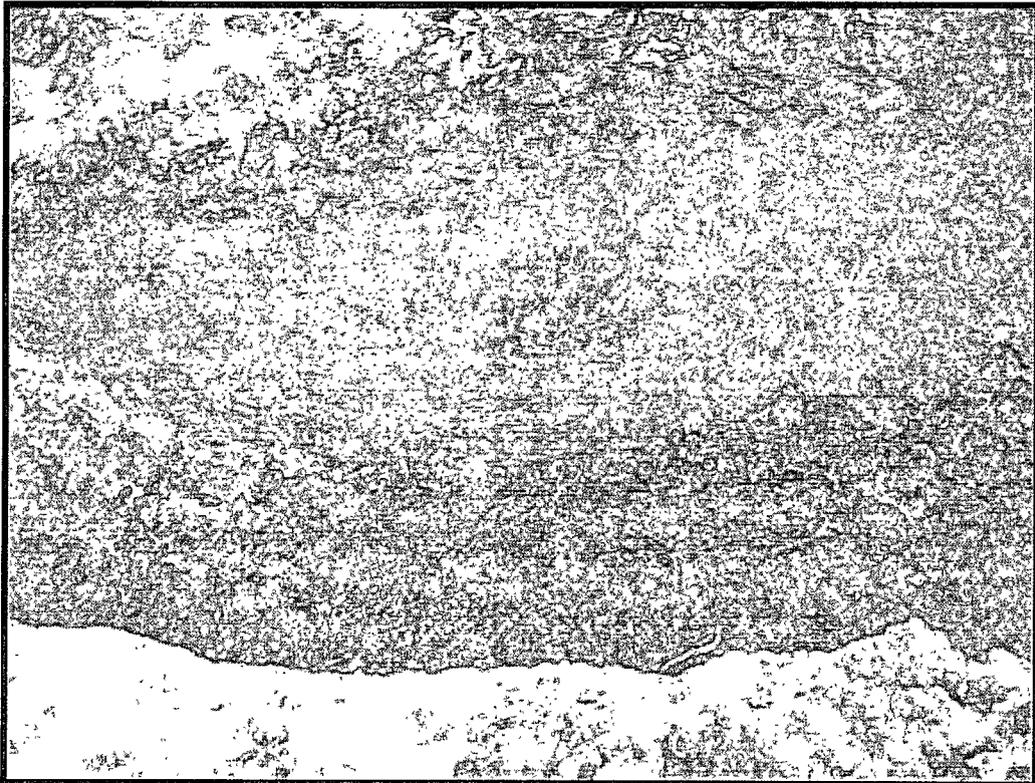
Test Trench #4 @ 20'bgs facing west



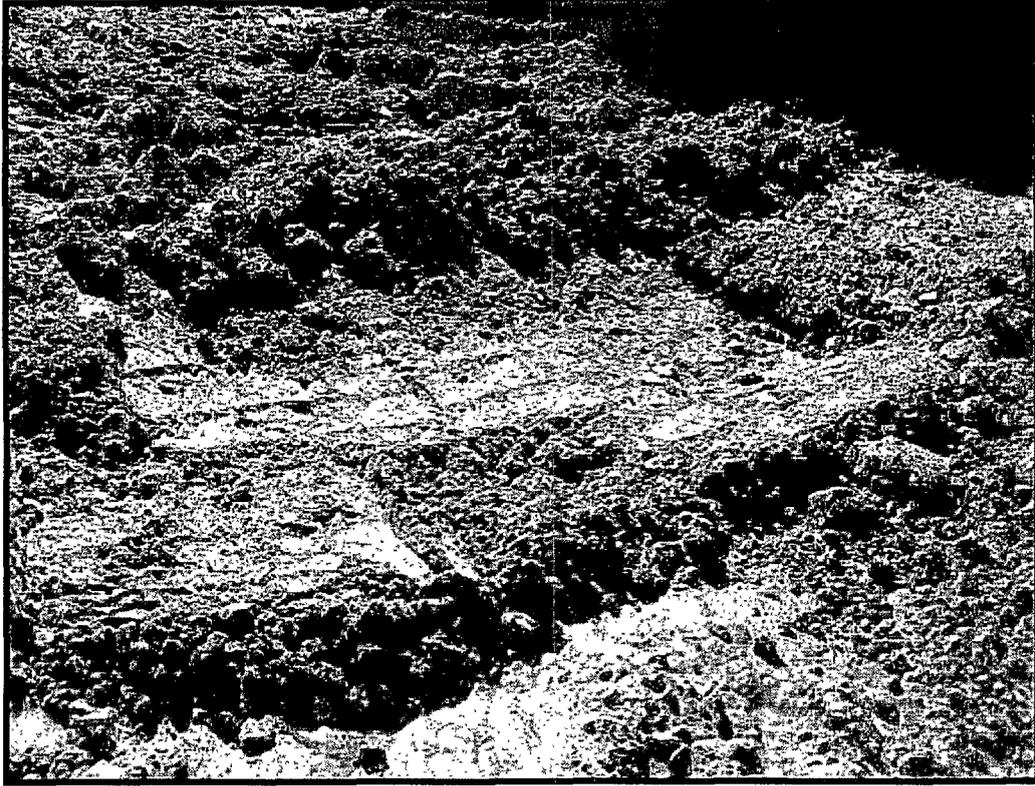
Test Trench #4 @ 22'bgs



Test Trench #4 backfilled facing west



Northeast corner bottom dry facing east



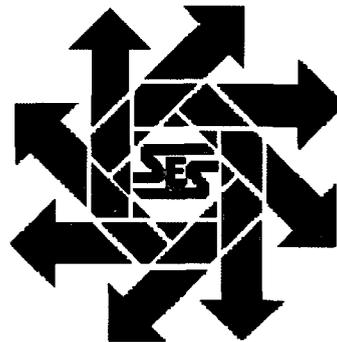
Northeast corner backfilled facing east

Appendix C
C-141

**XTO Energy
EMSU-B #923
Township 20 South, Range 36 East, Section 24
Lea County, New Mexico**

Work Plan

October 27, 2009



Prepared for:

***XTO Energy
P.O. BOX 700
Eunice, NM 88231-0700***

By:

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

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III. SURFACE AND GROUND WATER 1

IV. WORK PERFORMED 1

V. CLOSURE PLAN 2

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 Appendix C – C-1419

I. Company Contacts

NAME	Company	Telephone	E-mail
Jeff Raines	XTO Energy	575-	Jeff_Raines@xtoenergy.com
Isaac Kincaid	SESI	575-390-8841	ikincaid@sesi-nm.com

II. Background

Safety and Environmental Solutions, Inc. (SESI) was engaged by XTO Energy to perform clean-up services at the EMSU-B #923 spill site. This is an area with old hard pan staining.

III. Surface and Ground Water

The closest groundwater of record with the Office of the State Engineer is located in Township 20 South, Range 37 East, and Section 19. The depth of water in this well was 35' in 1953.

IV. Work Performed

On October 8, 2009, SESI was onsite with Diamondback Disposal Services Inc. to install test trenches from excavated area. The excavated area has already been excavated to a depth of six (6) feet to eight (8) feet. The samples were properly preserved and transported under Chain-of-Custody to Cardinal Laboratories of Hobbs, New Mexico for analysis. The samples were analyzed for Benzene, Toluene, Ethyl benzene, and Xylenes (BTEX) (EPA method 8021B), and Total Petroleum Hydrocarbons (EPA method 8015 M).

The results of the analysis are as follows:

Sample Point	GRO mg/kg	DRO mg/kg	Benzene mg/kg	Toluene mg/kg	Ethyl Benzene mg/kg	Total Xylenes mg/kg
TT#1 8'	<10.0	<10.0	<0.050	<0.050	<0.050	<0.300
TT #2 9'	<10.0	<10.0	<0.050	<0.050	<0.050	<0.300
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TT #3 14'	11.6	545	0.060	0.145	0.283	0.946
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TT #6 12'	<10.0	<10.0	<0.050	<0.050	<0.050	<0.300
TT #7 9'	<10.0	25.8	<0.050	<0.050	<0.050	<0.300
TT #7 12'	77.4	1,260	<0.050	<0.050	<0.050	1.02
TT #7 15'	<10.0	<10.0	<0.050	<0.050	<0.050	<0.300

V. Closure Plan

It is requested that the excavated area will then be backfilled to a depth of 4'. The area will be domed and a 40-mil impervious liner installed to prevent any further migration of any contaminants left in place. The area will be capped with clean soil, returned to natural grade, and reseeded.

VI. Figures & Appendices

- Figure 1 – Vicinity Map
- Figure 2 – Site Plan
- Figure 3 – Log of Borings
- Appendix A – Analytical Results
- Appendix B – Site Photos
- Appendix C – C-141

Figure 1
Vicinity Map

Figure 2
Site Plan

Appendix A

Analytical Results

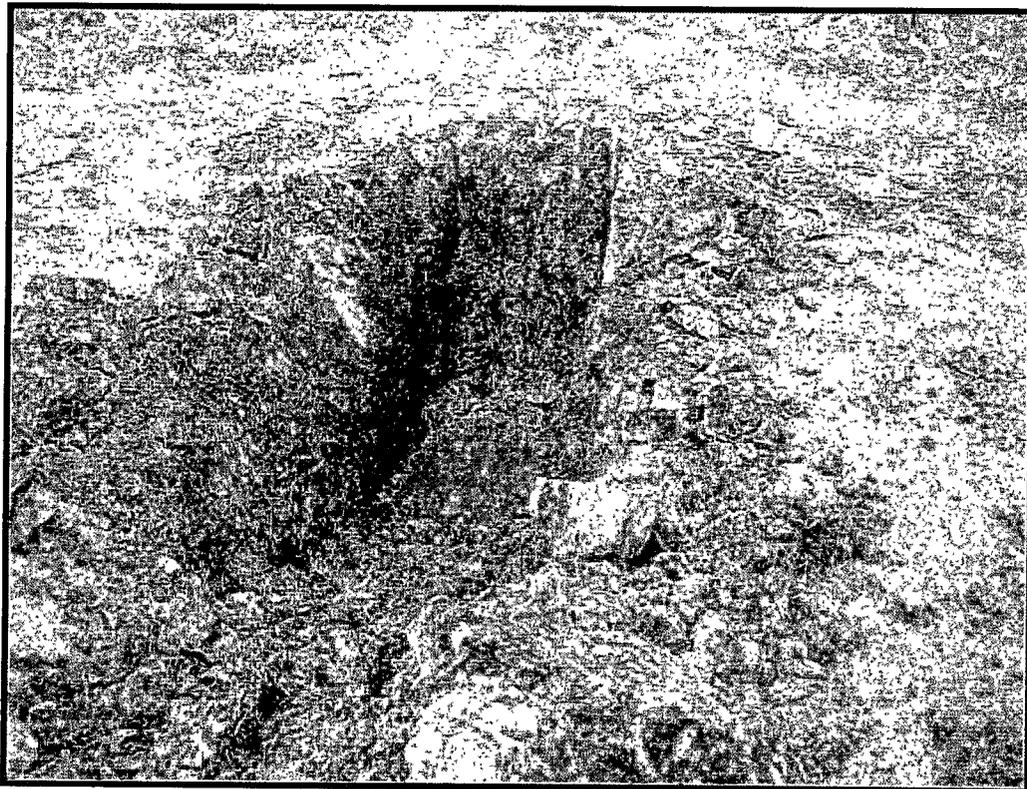
Appendix B

Site Photos

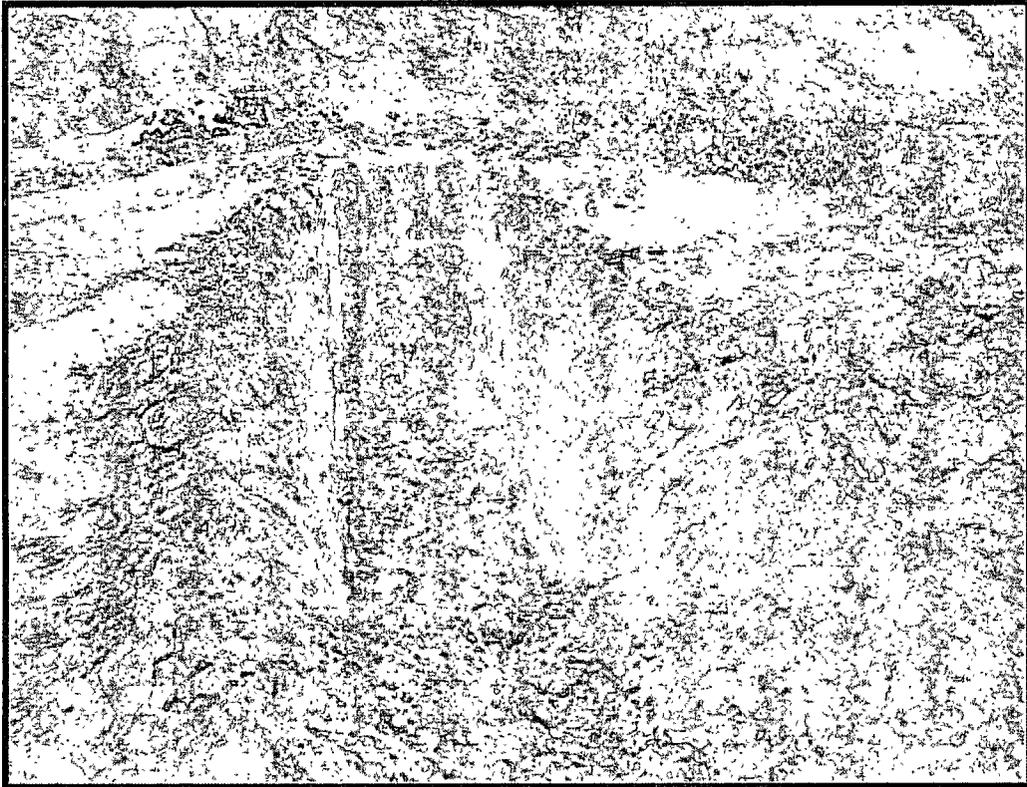
XTO EMSU-923 Site Photos 10-8-09



Excavated area



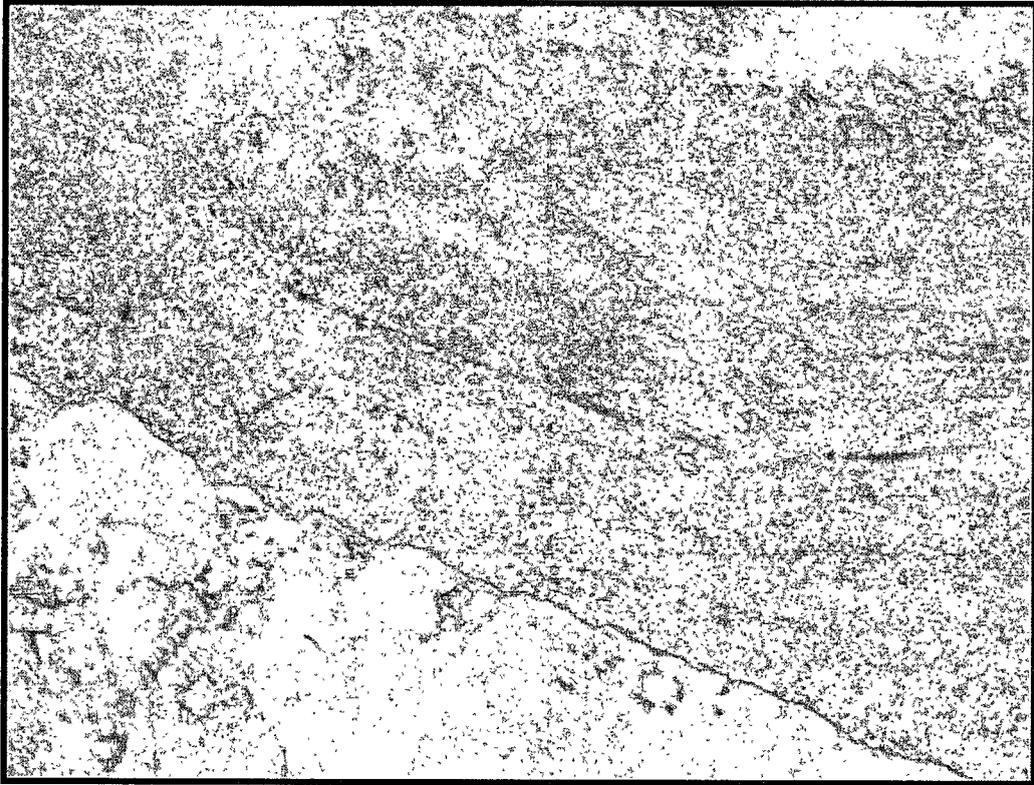
Test trench #1 8'



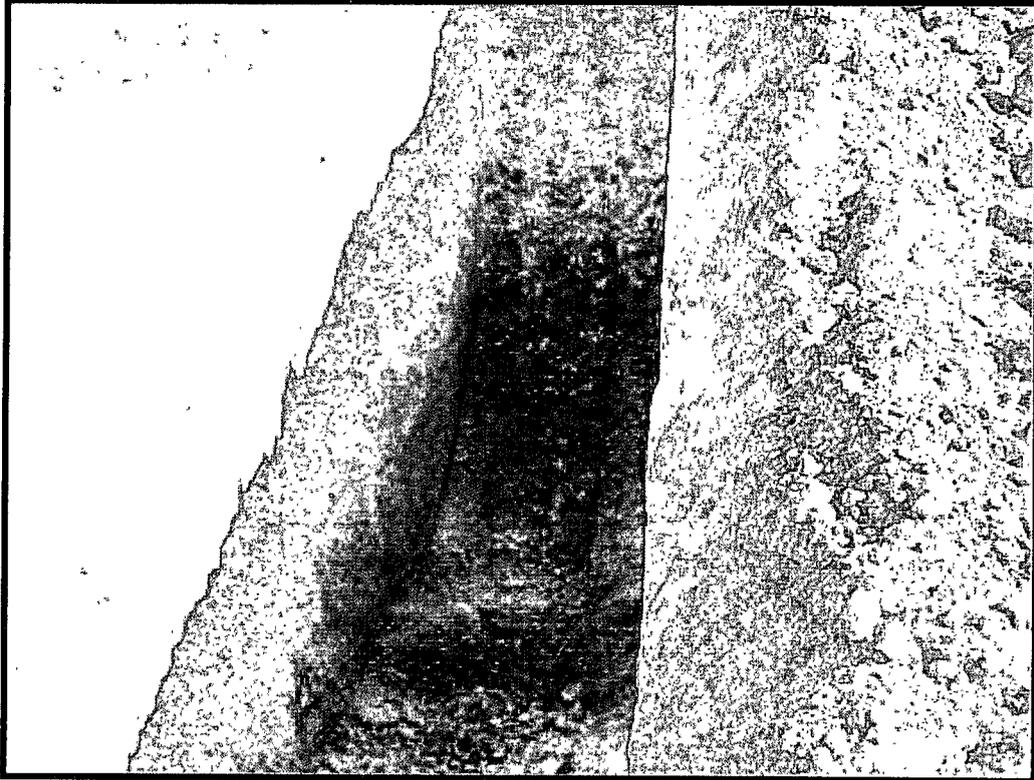
Test Trench #2 9'



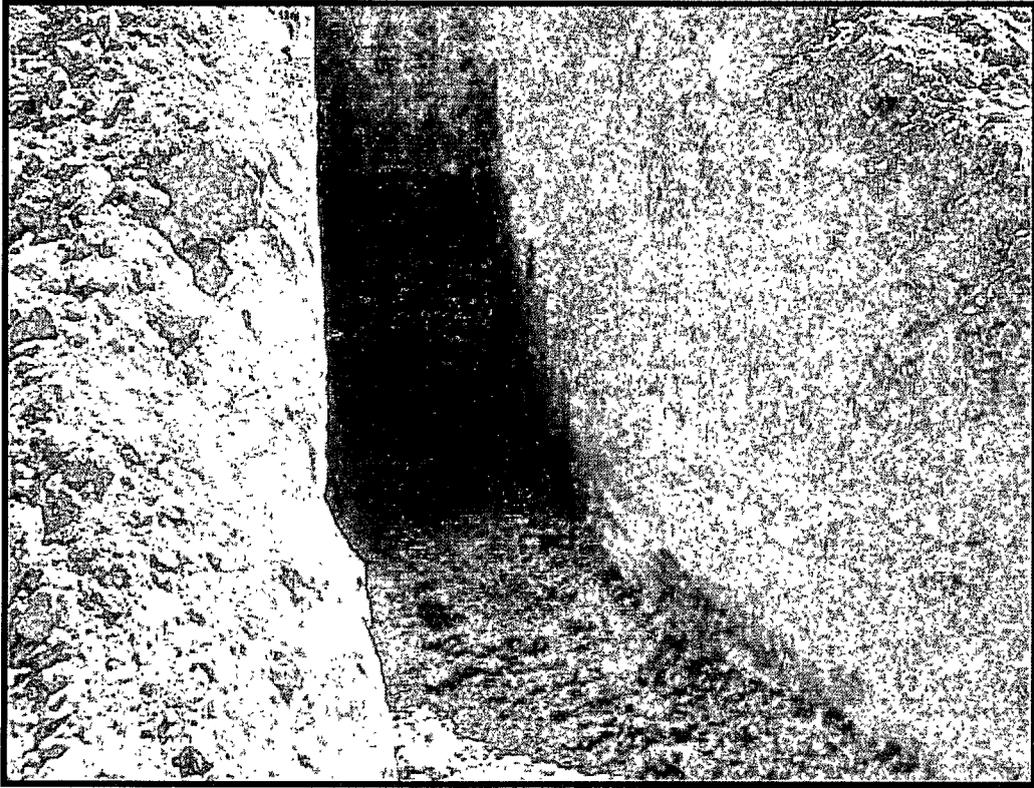
Test trench #3 10'



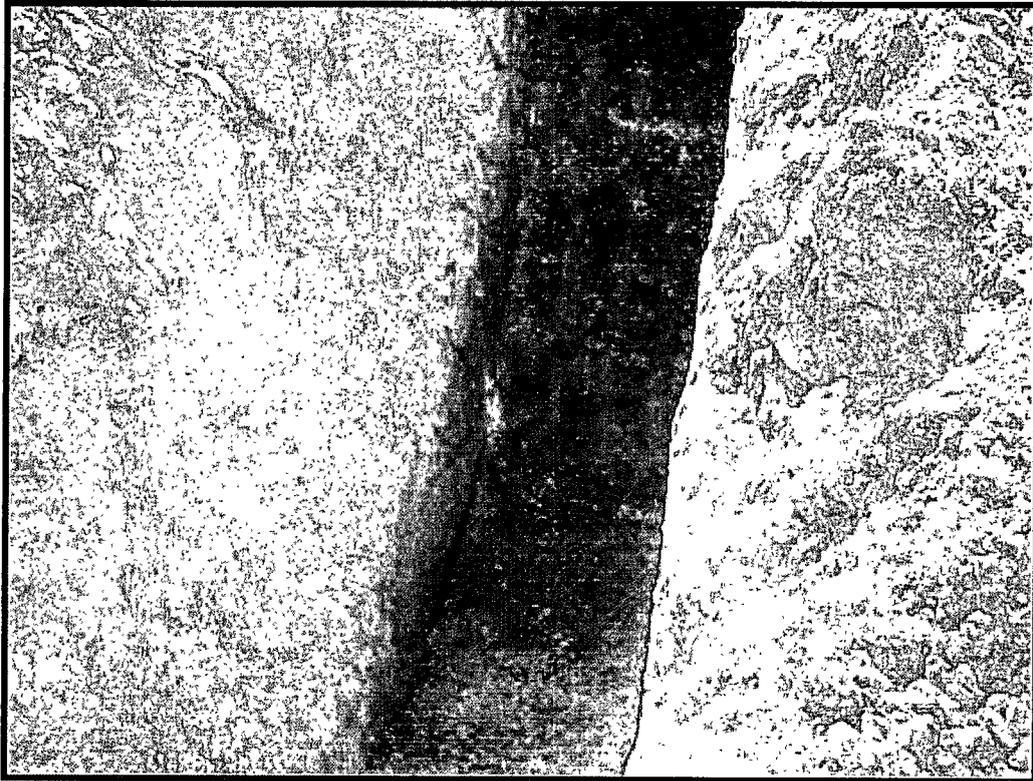
Test Trench #4 11'



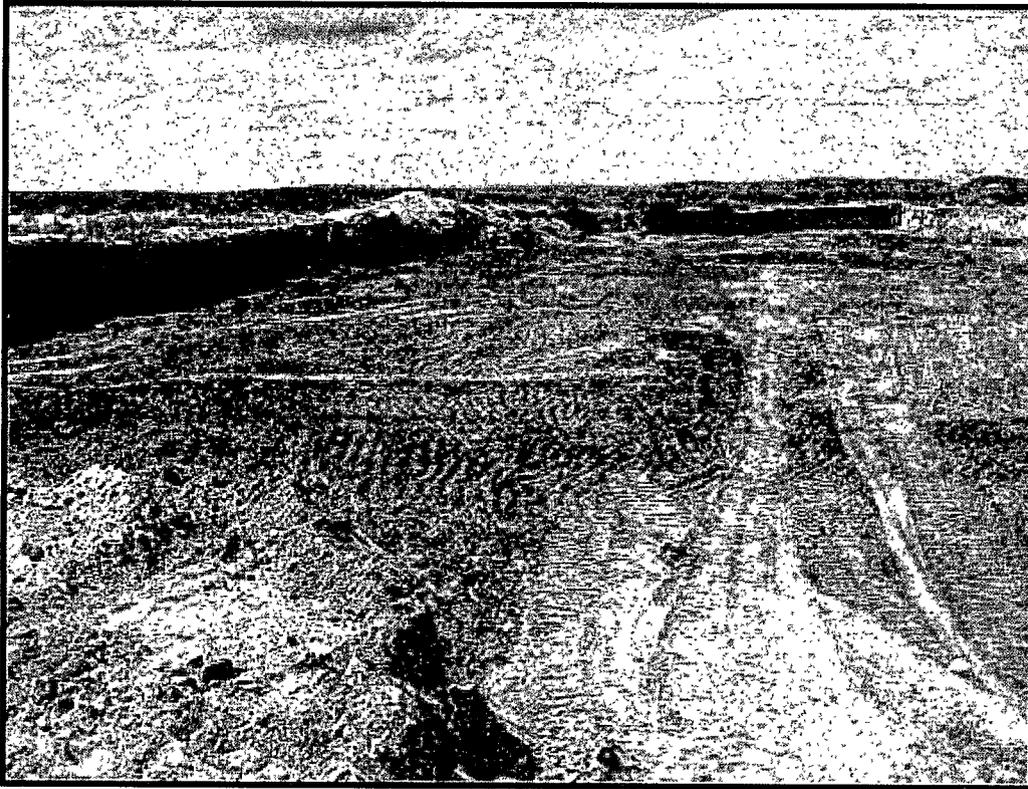
Test Trench #5 18'



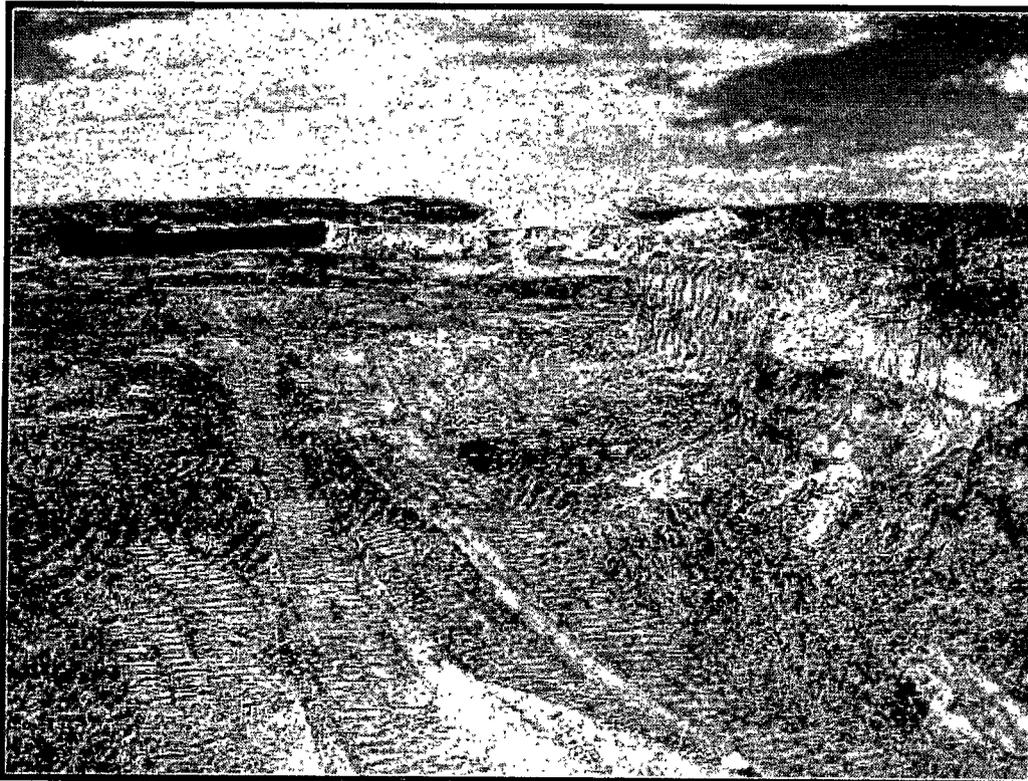
Test Trench #6 12'



Test Trench #7 15'



Test Trenches backfilled facing southwest



Test Trenches backfilled facing northwest

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 Gene Hudson
Address P.O. Box 700 Eunice, N.M. 88231	Telephone No. 575-441-1634
Facility Name E.M.S.U.-B # 856	Facility Type Production Flow Line
Surface Owner Faye Klein	Mineral Owner BLM
Lease No. Fed. Unit # NM70948B	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
K	11	20 S	36E					

Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release oil & produced water	Volume of Release 150 bbl.	Volume Recovered 65 bbl.
Source of Release fiberglass flow line	Date and Hour of Occurrence	Date and Hour of Discovery 12/16/08 2:00pm
Was Immediate Notice Given? Required X <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not	If YES, To Whom? Mark Whitaker, NMOCD Trishia BadBear, BLM	
By Whom? Gene Hudson	Date and Hour 3:00pm 12/16/08	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No X	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.*		
Describe Cause of Problem and Remedial Action Taken.* leak caused by the fiberglass flow line break		
Describe Area Affected and Cleanup Action Taken.* An area approximately 200' X 85' is affected. A vacuum truck was used to remove fluids off ground. A backhoe will dig contaminated soil and haul to approved disposal site.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		
Signature: <i>Gene Hudson</i>	OIL CONSERVATION DIVISION	
Printed Name: Gene Hudson	Approved by District Supervisor:	
Title: Maintenance Foreman	Approval Date:	Expiration Date:
E-mail Address: richard_hudson@xtoenergy.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 12/17/2008	Phone: 575-441-1634	

* Attach Additional Sheets If Necessary



ANALYTICAL RESULTS FOR
 SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
 ATTN: BOB ALLEN
 703 E. CLINTON, #102
 HOBBS, NM 88240
 FAX TO: (575) 393-4388

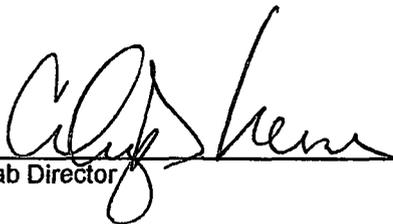
Receiving Date: 12/18/09
 Reporting Date: 12/22/09
 Project Owner: XTO ENERGY (XTO-09-004)
 Project Name: EMSU #923
 Project Location: MONUMENT, NM

Sampling Date: 12/18/09
 Sample Type: SOIL
 Sample Condition: COOL & INTACT @ 6°C
 Sample Received By: NF
 Analyzed By: ZL

LAB NO.	SAMPLE ID	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)
ANALYSIS DATE:		12/21/09	12/21/09	12/21/09	12/21/09
H18912-1	TT#4 16'BGL	<0.050	0.127	0.058	0.556
H18912-2	TT#4 18'BGL	<0.050	0.559	0.535	3.77
H18912-3	TT#4 20'BGL	<0.050	0.573	0.435	3.17
H18912-4	TT#4 22'BGL	<0.050	0.433	0.433	3.74
Quality Control		0.051	0.049	0.048	0.146
True Value QC		0.050	0.050	0.050	0.150
% Recovery		102	98.0	96.0	97.3
Relative Percent Difference		3.9	2.0	4.2	3.6

METHODS: BTEX - SW-846 8021B.

TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE,
 AND TOTAL XYLENES. Reported on wet weight.


 Lab Director


 Date

H18912 BTEX SESI

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. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



**ARDINAL
LABORATORIES**

PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS
ATTN: BOB ALLEN
703 E. CLINTON, #102
HOBBS, NM 88240
FAX TO: (575) 393-4388

Receiving Date: 12/09/09
Reporting Date: 12/10/09
Project Number: XTO-09-004
Project Name: EMSU #923
Project Location: MONUMENT, NM

Analysis Date: 12/10/09
Sampling Date: 12/09/09
Sample Type: SOIL
Sample Condition: INTACT @ 22.5°C
Sample Received By: ML
Analyzed By: HM

LAB NO.	SAMPLE ID	Cl ⁻ (ppm)
H18845-1	BOTTOM 8' COMPOSITE	< 16
Quality Control		500
True Value QC		500
% Recovery		100
Relative Percent Difference		< 0.1

METHOD: Standard Methods 4500-Cl⁻B

Note: Analysis performed on a 1:4 w:v aqueous extract.



Chemist



Date 12/10/09

H18845 SESI

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ANALYTICAL RESULTS FOR
 SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
 ATTN: BOB ALLEN
 703 E. CLINTON, #102
 HOBBS, NM 88240
 FAX TO: (575) 393-4388

Receiving Date: 10/08/09
 Reporting Date: 10/13/09
 Project Owner: XTO ENERGY (XTO-09-004)
 Project Name: EMSU - B 923
 Project Location: MONUMENT, NM

Sampling Date: 10/08/09
 Sample Type: SOIL
 Sample Condition: COOL & INTACT @ 4.5°C
 Sample Received By: CK
 Analyzed By: AB/ZL

LAB NO.	SAMPLE ID	GRO (C ₆ -C ₁₀) (mg/kg)	DRO (>C ₁₀ -C ₂₈) (mg/kg)	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)
---------	-----------	--	--	--------------------	--------------------	-----------------------------	-----------------------------

ANALYSIS DATE:	10/13/09	10/13/09	10/12/09	10/12/09	10/12/09	10/12/09
H18446-1 TT#1 8'	<10.0	<10.0	<0.050	<0.050	<0.050	<0.300
H18446-2 TT#2 9'	<10.0	<10.0	<0.050	<0.050	<0.050	<0.300
H18446-3 TT#3 10'	11.6	440	<0.050	<0.050	<0.050	0.368
H18446-4 TT#3 14'	11.6	545	0.060	0.145	0.283	0.946
H18446-5 TT#3 18'	459	1,890	<0.050	0.249	<0.050	2.94
H18446-6 TT#4 11'	1,120	2,620	0.763	0.878	1.94	6.21
H18446-7 TT#4 15'	971	1,690	0.439	0.876	1.61	4.95
H18446-8 TT#5 10'	30.0	720	<0.050	0.137	<0.050	1.39
H18446-9 TT#5 15'	109	2,200	<0.050	<0.050	<0.050	0.936
H18446-10 TT#5 18'	41.8	1,160	<0.050	<0.050	<0.050	0.491
H18446-11 TT#6 10'	<10.0	<10.0	<0.050	<0.050	<0.050	<0.300
H18446-12 TT#6 12'	<10.0	<10.0	<0.050	<0.050	<0.050	<0.300
H18446-13 TT#7 9'	<10.0	25.8	<0.050	<0.050	<0.050	<0.300
H18446-14 TT#7 12'	77.4	1,260	<0.050	<0.050	<0.050	1.02
H18446-15 TT#7 15'	<10.0	<10.0	<0.050	<0.050	<0.050	<0.300
Quality Control	440	512	0.049	0.047	0.048	0.141
True Value QC	500	500	0.050	0.050	0.050	0.150
% Recovery	88.0	102	98.0	94.0	96.0	94.0
Relative Percent Difference	2.9	0.6	13.3	13.5	7.7	14.8

METHODS: TPH GRO & DRO - EPA SW-846 8015 M; BTEX - SW-846 8021B.
 TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE,
 AND TOTAL XYLENES. Reported on wet weight. Not accredited for GRO/DRO.


 Lab Director

10/13/09
 Date

H18446 TPHBTEX SESI

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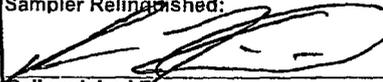
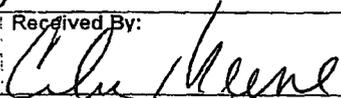
CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240
(575) 393-2326 Fax (575) 393-2476

Company Name: <u>SESI</u>		BILL TO		ANALYSIS REQUEST											
Project Manager: <u>Bob Allen</u>		P.O. #:													
Address: <u>703 E Clinton</u>		Company:													
City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88240</u>		Attn:													
Phone #: <u>575-393-0510</u> Fax #:		Address: <u>same</u>													
Project #: <u>X70-09-004</u> Project Owner: <u>X70</u>		City:													
Project Name: <u>X70 EMSUCB 923</u>		State: Zip:													
Project Location: <u>Monument, nm</u>		Phone #:													
Sampler Name: <u>Isaac Kincaid</u>		Fax #:													

FOR LAB USE ONLY		(G)RAB OR (C)OMP	# CONTAINERS	MATRIX						PRESERV		SAMPLING		DATE	TIME	TPH	BTEX
Lab I.D.	Sample I.D.			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE/COOL:	OTHER:					
<u>H18446</u>																	
<u>1</u>	<u>TT#1 8'</u>	<u>6</u>	<u>1</u>			<u>✓</u>				<u>✓</u>			<u>10/25/9</u>	<u>0810</u>	<u>✓</u>	<u>✓</u>	
<u>2</u>	<u>TT#2 9'</u>													<u>0820</u>			
<u>3</u>	<u>TT#3 10'</u>													<u>0823</u>			
<u>4</u>	<u>TT#3 14'</u>													<u>0834</u>			
<u>5</u>	<u>TT#3 18'</u>													<u>0900</u>			
<u>6</u>	<u>TT#4 11'</u>													<u>0826</u>			
<u>7</u>	<u>TT#4 15'</u>													<u>0833</u>			
<u>8</u>	<u>TT#5 10'</u>													<u>0920</u>			
<u>9</u>	<u>TT#5 15'</u>													<u>0925</u>			
<u>10</u>	<u>TT#5 18'</u>													<u>0930</u>			

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Sampler Relinquished: 		Date: <u>10/25/9</u>	Received By:	Phone Result: <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:
Relinquished By: 		Date:	Received By:	Fax Result: <input type="checkbox"/> No <input type="checkbox"/> Add'l Fax #:
Delivered By: (Circle One) <u>UPS</u>		Temp. <u>45</u>	Sample Condition: <u>Intact</u>	CHECKED BY: <u>Cash</u>
Sampler - UPS - Bus - Other:				REMARKS: <u>ikincaid@SESI-nm-com</u> <u>office 2@SESI-nm-com</u>

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240
(575) 393-2326 Fax (575) 393-2476

Company Name: <u>SESE</u>		BILL TO		ANALYSIS REQUEST											
Project Manager: <u>Bob Allen</u>		P.O. #:													
Address: <u>703 E Clinton</u>		Company:													
City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88240</u>		Attn:													
Phone #: <u>575-397-0510</u> Fax #:		Address: <u>SAME</u>													
Project #: <u>X70-09-004</u> Project Owner: <u>X70</u>		City:													
Project Name: <u>EMSU-923</u>		State: Zip:													
Project Location: <u>MOQUUPA, NM</u>		Phone #:													
Sampler Name: <u>ISAAC RICAIRD</u>		Fax #:													

FOR LAB USE ONLY		(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.		SAMPLING		DATE	TIME	PH	TEXT
Lab I.D.	Sample I.D.			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL:	OTHER:					
<u>H17446</u>																	
<u>11</u>	<u>ZT# 6 10'</u>	<u>6</u>	<u>1</u>			<input checked="" type="checkbox"/>							<u>10/8/9</u>	<u>0935</u>	<u>✓</u>	<u>✓</u>	
<u>12</u>	<u>ZT# 6 12'</u>													<u>0952</u>			
<u>13</u>	<u>ZT# 7 9'</u>													<u>1000</u>			
<u>14</u>	<u>ZT# 7 12'</u>													<u>1015</u>			
<u>15</u>	<u>ZT# 7 15'</u>													<u>1020</u>			

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 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.

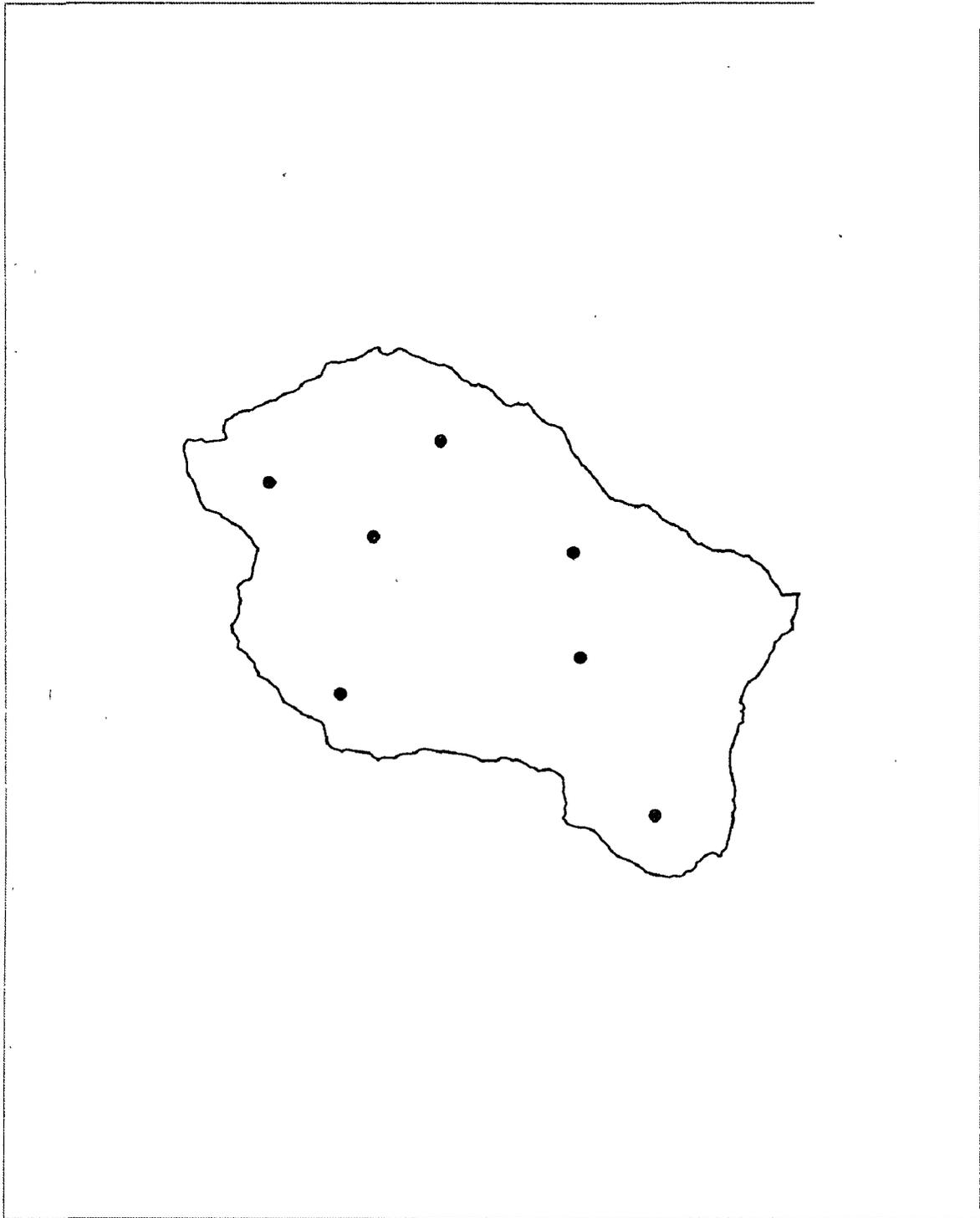
Sampler Relinquished By:		Date: <u>10/8/09</u>	Received By:	Phone Result: <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:
Relinquished By:		Date: <u>10/8/09</u>	Received By:	Fax Result: <input type="checkbox"/> No <input type="checkbox"/> Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Temp. <u>45C</u>	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) <u>CRK</u>

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.

XTO-09-004
 Cardinal Laboratories Results
 October 13, 2009

Sample Point	GRO mg/kg	DRO mg/kg	Benzene mg/kg	Toluene mg/kg	Ethyl Benzene mg/kg	Total Xylenes mg/kg
TT#1 8'	<10.0	<10.0	<0.050	<0.050	<0.050	<0.300
TT #2 9'	<10.0	<10.0	<0.050	<0.050	<0.050	<0.300
TT #3 10'	11.6	440	<0.050	<0.050	<0.050	0.368
TT #3 14'	11.6	545	0.060	0.145	0.283	0.946
TT #3 18'	459	1,890	<0.050	0.249	<0.050	2.94
TT #4 11'	1,120	2,620	0.763	0.878	1.94	6.21
TT #4 15'	971	1,690	0.439	0.876	1.61	4.95
TT #5 10'	30.0	720	<0.050	0.137	<0.050	1.39
TT #5 15'	109	2,200	<0.050	<0.050	<0.050	0.936
TT #5 18'	41.8	1,160	<0.050	<0.050	<0.050	0.491
TT #6 10'	<10.0	<10.0	<0.050	<0.050	<0.050	<0.300
TT #6 12'	<10.0	<10.0	<0.050	<0.050	<0.050	<0.300
TT #7 9'	<10.0	25.8	<0.050	<0.050	<0.050	<0.300
TT #7 12'	77.4	1,260	<0.050	<0.050	<0.050	1.02
TT #7 15'	<10.0	<10.0	<0.050	<0.050	<0.050	<0.300

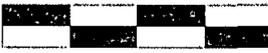
EPA method:
 TPH GRO & DRO (EPA SW-846 8015)
 BTEX (EPA SW-846 8021B)



EMSU-B 923

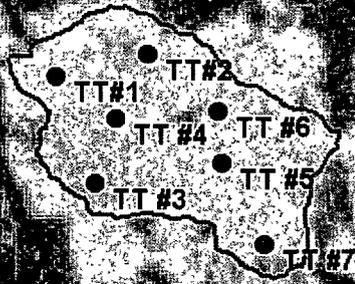
Lat/Long
WGS 1984



Scale 1:1,000
0 0.020

Miles

site map.cor
10/19/2009
GPS Pathfinder® Office
 **Trimble.**

EMSU-B #923





**ARDINAL
LABORATORIES**

PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

October 13, 2009

Bob Allen
Safety & Environmental Solutions, Inc.
703 East Clinton, #102
Hobbs, NM 88240

Re: XTO Energy (XTO-09-004)

Enclosed are the results of analyses for sample number H18446, received by the laboratory on 10/08/09 at 3:50 pm.

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 524.2	Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 4 (includes Chain of Custody)

Sincerely,

Celey D. Keene
Laboratory Director



ANALYTICAL RESULTS FOR
 SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
 ATTN: BOB ALLEN
 703 E. CLINTON, #102
 HOBBS, NM 88240
 FAX TO: (575) 393-4388

Receiving Date: 10/08/09
 Reporting Date: 10/13/09
 Project Owner: XTO ENERGY (XTO-09-004)
 Project Name: EMSU - B 923
 Project Location: MONUMENT, NM

Sampling Date: 10/08/09
 Sample Type: SOIL
 Sample Condition: COOL & INTACT @ 4.5°C
 Sample Received By: CK
 Analyzed By: AB/ZL

LAB NO.	SAMPLE ID	GRO (C ₆ -C ₁₀) (mg/kg)	DRO (>C ₁₀ -C ₂₈) (mg/kg)	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)
ANALYSIS DATE:		10/13/09	10/13/09	10/12/09	10/12/09	10/12/09	10/12/09
H18446-1	TT#1 8'	<10.0	<10.0	<0.050	<0.050	<0.050	<0.300
H18446-2	TT#2 9'	<10.0	<10.0	<0.050	<0.050	<0.050	<0.300
H18446-3	TT#3 10'	11.6	440	<0.050	<0.050	<0.050	0.368
H18446-4	TT#3 14'	11.6	545	0.060	0.145	0.283	0.946
H18446-5	TT#3 18'	459	1,890	<0.050	0.249	<0.050	2.94
H18446-6	TT#4 11'	1,120	2,620	0.763	0.878	1.94	6.21
H18446-7	TT#4 15'	971	1,690	0.439	0.876	1.61	4.95
H18446-8	TT#5 10'	30.0	720	<0.050	0.137	<0.050	1.39
H18446-9	TT#5 15'	109	2,200	<0.050	<0.050	<0.050	0.936
H18446-10	TT#5 18'	41.8	1,160	<0.050	<0.050	<0.050	0.491
H18446-11	TT#6 10'	<10.0	<10.0	<0.050	<0.050	<0.050	<0.300
H18446-12	TT#6 12'	<10.0	<10.0	<0.050	<0.050	<0.050	<0.300
H18446-13	TT#7 9'	<10.0	25.8	<0.050	<0.050	<0.050	<0.300
H18446-14	TT#7 12'	77.4	1,260	<0.050	<0.050	<0.050	1.02
H18446-15	TT#7 15'	<10.0	<10.0	<0.050	<0.050	<0.050	<0.300
Quality Control		440	512	0.049	0.047	0.048	0.141
True Value QC		500	500	0.050	0.050	0.050	0.150
% Recovery		88.0	102	98.0	94.0	96.0	94.0
Relative Percent Difference		2.9	0.6	13.3	13.5	7.7	14.8

METHODS: TPH GRO & DRO - EPA SW-846 8015 M; BTEX - SW-846 8021B.
 TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE,
 AND TOTAL XYLENES. Reported on wet weight. Not accredited for GRO/DRO.


 Lab Director

10/13/09
 Date

H18446 TPHBTEX SESI

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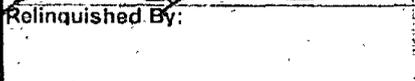
101 East Marland, Hobbs, NM 88240

(575) 393-2326 Fax (575) 393-2476

Company Name: <u>SESE</u>		BILL TO		ANALYSIS REQUEST											
Project Manager: <u>Bob Allen</u>		P.O. #:													
Address: <u>703 E Clinton</u>		Company:													
City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88240</u>		Attn:													
Phone #: <u>575-393-0510</u> Fax #:		Address: <u>Same</u>													
Project #: <u>XTO-09-004</u> Project Owner: <u>XTO</u>		City:													
Project Name: <u>XTO EMSU-B, 923</u>		State: Zip:													
Project Location: <u>Monument, NM</u>		Phone #:													
Sampler Name: <u>Isaac Kincaid</u>		Fax #:													

FOR LAB USE ONLY		GRAB OR (C)OMP	# CONTAINERS	MATRIX					PRESERV.		SAMPLING		DATE	TIME	TPH	BTX
Lab I.D.	Sample I.D.			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER				
<u>H18446</u>																
<u>1</u>	<u>TT#1 8'</u>	<u>6</u>	<u>1</u>			<u>✓</u>				<u>✓</u>		<u>10/8/9</u>	<u>0810</u>	<u>✓</u>	<u>✓</u>	
<u>2</u>	<u>TT#2 9'</u>												<u>0820</u>			
<u>3</u>	<u>TT#3 10'</u>												<u>0823</u>			
<u>4</u>	<u>TT#3 14'</u>												<u>0838</u>			
<u>5</u>	<u>TT#3 18'</u>												<u>0900</u>			
<u>6</u>	<u>TT#4 11'</u>												<u>0826</u>			
<u>7</u>	<u>TT#4 15'</u>												<u>0833</u>			
<u>8</u>	<u>TT#5 10'</u>												<u>0920</u>			
<u>9</u>	<u>TT#5 15'</u>												<u>0925</u>			
<u>10</u>	<u>TT#5 18'</u>												<u>0930</u>			

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Sampler Relinquished: 		Date: <u>10/8/9</u>	Received By:	Phone Result: <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:
Relinquished By: 		Time: <u>1550</u>	Received By: <u>Chris Malone</u>	Fax Result: <input type="checkbox"/> No <input type="checkbox"/> Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Temp: <u>45°C</u>	Sample Condition: Code: Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	REMARKS: <u>ikincaid@sest-nm.com</u> <u>office 2@sest-nm.com</u>
			CHECKED BY: (Initials) <u>CAH</u>	

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.



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Company Name: <u>SESE</u>		BILL TO		ANALYSIS REQUEST											
Project Manager: <u>Bob Allen</u>		P.O. #:													
Address: <u>703 E Clinton</u>		Company:													
City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88240</u>		Attn:													
Phone #: <u>575-397-0510</u> Fax #:		Address: <u>Same</u>													
Project #: <u>X70-09-004</u> Project Owner: <u>X70</u>		City:													
Project Name: <u>Emsu-923</u>		State: Zip:													
Project Location: <u>Monument, NM</u>		Phone #:													
Sampler Name: <u>Isaac Kincard</u>		Fax #:													

FOR LAB USE ONLY		Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.			SAMPLING		DATE	TIME	TPH	BTEX
GROUNDWATER	WASTEWATER					SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER							
		<u>H178446-</u>																	
		<u>11</u>	<u>77# 6 10'</u>	<u>6</u>	<u>1</u>			<input checked="" type="checkbox"/>						<u>10/14/9</u>	<u>0935</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
		<u>12</u>	<u>77# 6 12'</u>												<u>0952</u>				
		<u>13</u>	<u>77# 7 9'</u>												<u>1000</u>				
		<u>14</u>	<u>77# 7 12'</u>												<u>1015</u>				
		<u>15</u>	<u>77# 7 15'</u>												<u>1020</u>				

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Sampler Relinquished:	Date: <u>10/15/09</u>	Received By:	Phone Result: <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:
Relinquished By:	Date: <u>10/15/09</u>	Received By:	Fax Result: <input type="checkbox"/> No <input type="checkbox"/> Add'l Fax #:
Delivered By: (Circle One)	Temp: <u>45C</u>	Sample Condition: <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Cool	CHECKED BY: <u>col</u>
Sampler - UPS - Bus - Other:		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	REMARKS:

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.