

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	Contact	Gene Hudson
Address	PO Box 700, Eunice, NM 88231	Telephone No.	575-441-1634
Facility Name	Section 27 SWD #2	Facility Type	Injection Well

Surface Owner	Larry Squires STATE	Mineral Owner:	State	Lease No.	30-025-03142
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LOCATION OF RELEASE

WTR 40'

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
H	27	18S	35E					Lea

Latitude 32 43'25.79" Longitude 103 26'19.12"

QER

NATURE OF RELEASE

Type of Release	Produced Water	Volume of Release	600	Volume Recovered	480
Source of Release	Steel Valve	Date and Hour of Occurrence		Date and Hour of Discovery	12/28/09 08:30 am
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Geoff Leking/NMOCD Larry Squires/ Land owner		
By Whom?	Gene Hudson	Date and Hour	12/28/09 08:30 am		
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.\*


Describe Cause of Problem and Remedial Action Taken.\*

The leak was caused by internal corrosion on steel valve/valve was repaired.

Describe Area Affected and Cleanup Action Taken.\*

The affected area is approximately 195' X 1,000'. Vacuum trucks were called to remove standing fluid and SESI was called for assessment. An appropriate work plan will follow.

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.

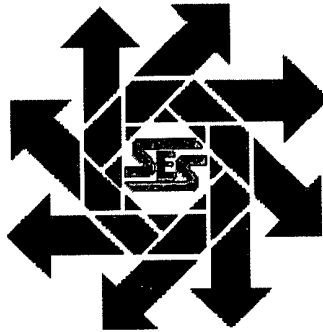
Signature: 	OIL CONSERVATION DIVISION		
Printed Name: Gene Hudson	Approved by District Supervisor:		
Title: Maintenance Foreman	Approval Date:	Expiration Date:	
E-mail Address: Richard_hudson@xtoenergy.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 12/29/09	Phone: 575-441-1634	IRP# 10.1.2385	

\* Attach Additional Sheets If Necessary

**XTO Energy  
Section 27 SWD #2  
Township 18 South, Range 35 East, Section 27  
Lea County, New Mexico**

**Work Plan**

**December 28, 2009**



**Prepared for:**

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

**Prepared by:**

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

## TABLE OF CONTENTS

I. COMPANY CONTACTS .....	1
II. BACKGROUND .....	1
III. SURFACE AND GROUND WATER .....	1
IV. WORK PERFORMED .....	1
V. ACTION PLAN .....	1
VI. FIGURES & APPENDICES .....	2
Figure 1 - Vicinity Map .....	3
Figure 2 - Site Plan .....	4
Appendix A – Analytical Results .....	5
Appendix B – Site Photos .....	6
Appendix C – C-141 .....	7

**I. Company Contacts**

NAME	Company	Telephone	E-mail
Gene Hudson	XTO Energy	575.441.1634	Richard_Hudson@xtoenergy.com
Bob Allen	SESI	575.390.7063	ballen@sesi-nm.com

**II. Background**

Safety and Environmental Solutions, Inc. (SESI) was engaged by XTO Energy to perform clean-up services at the Section 27 SWD #2 release. Approximately 600 barrels of produced water was released due to internal corrosion of a steel valve on the injection well, and recovered approximately 480 barrels.

**III. Surface and Ground Water**

The closest groundwater of record with the Office of the State Engineer is located in the same township, range, and section. The depth of water in this well was 70' in August 1958.

**IV. Work Performed**

On December 28, 2009, SESI was onsite with Hungry Horse to install a total of eight (8) test trenches (See Figure 2). Samples were retrieved at depths ranging from one (1) to two (2) 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 Chlorides (EPA method 4500-Cl<sup>-</sup>B) (See Appendix A).

The results of the analysis are as follows:

Sample Point	Chlorides (mg/kg)
TT #1-2'	80
TT #2-2'	832
TT #3-2'	736
TT #4-1'	<16
TT #5-1 1/2'	1,500
TT #6-2'	2,040
TT #7-2'	1,400
TT #8-1'	32

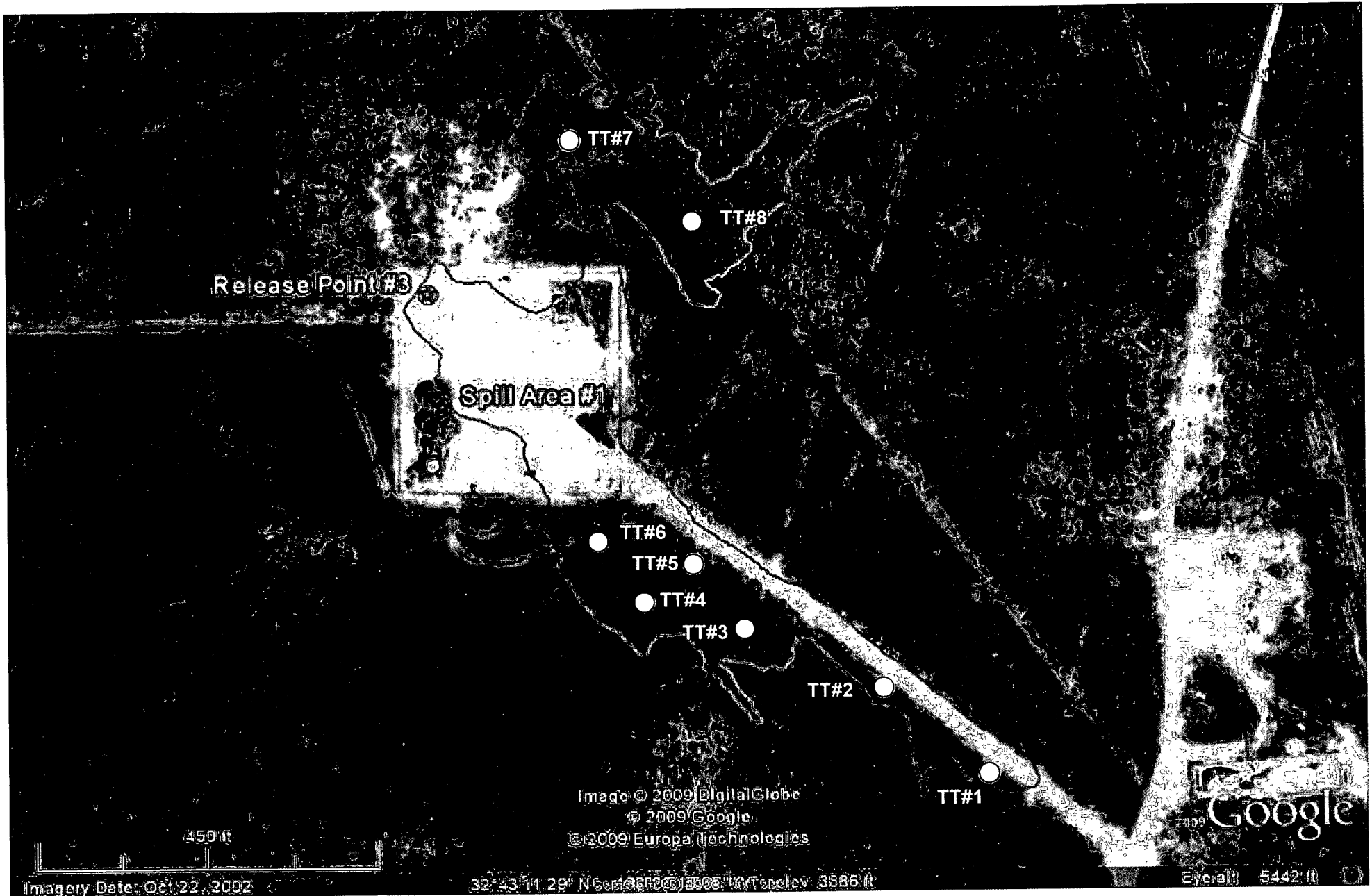
**V. Action Plan**

It is requested that the top 1 to 1 1/2' of soil be excavated from the spill area and transported to an NMOCD approved facility for disposal. The excavation will be backfilled with clean soils, and then the area will be contoured to natural grade and reseeded in the next growing period.

**VI. Figures & Appendices**

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





Release Point #3

Spill Area #1

TT#7

TT#8

TT#6

TT#5

TT#4

TT#3

TT#2

TT#1

450 ft

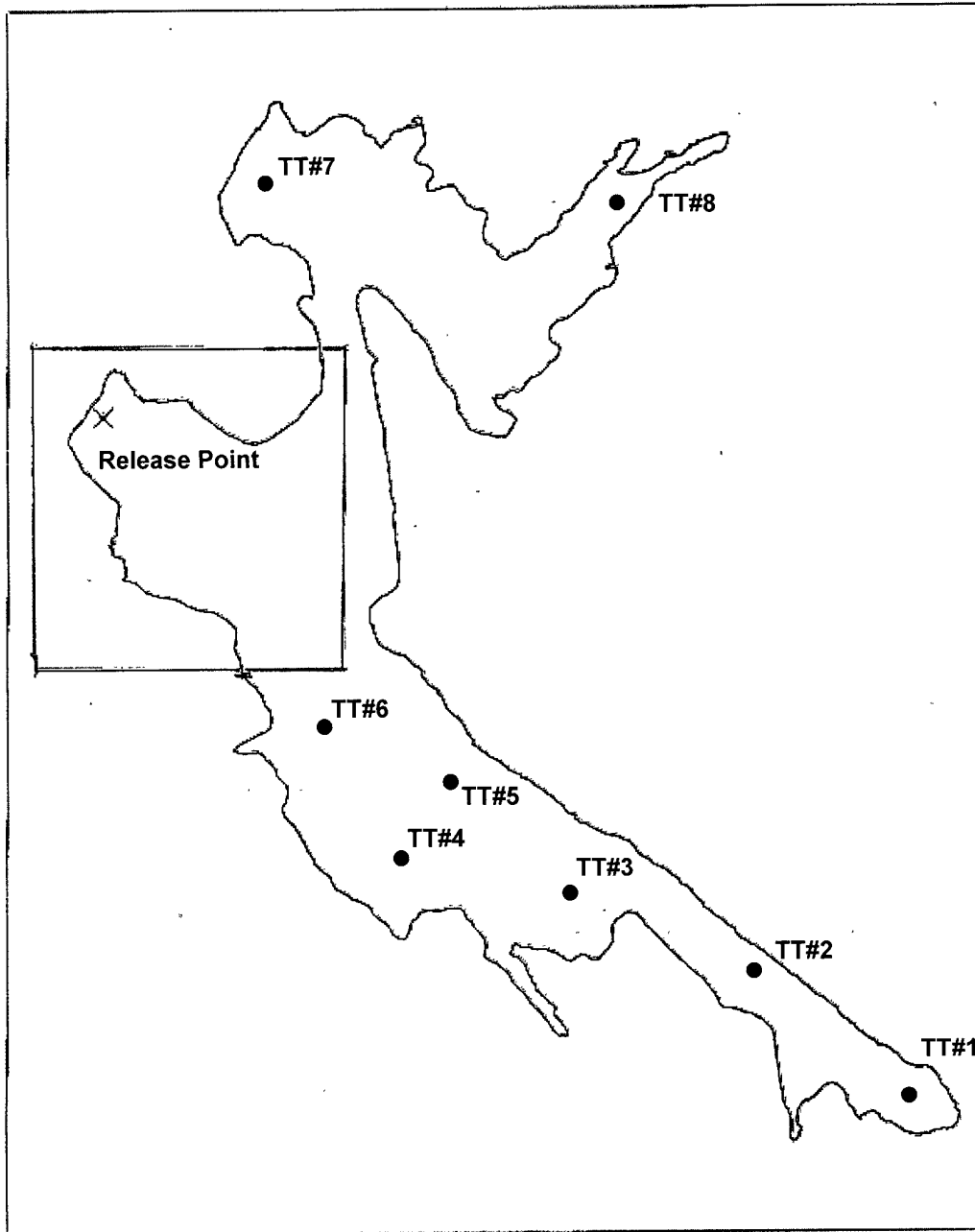
Image © 2009 DigitalGlobe  
© 2009 Google  
© 2009 Europa Technologies

Google

Eye on 5442 ft

Imagery Date: Oct 22, 2002

32° 43' 11.29" N, 106° 05' 33.08" W, Elev 3885 ft



XTO-09-014

Lat/Long  
WGS 1984



Scale 1:2,000  
0 0.040  
Miles

XTO-09-014.cor  
12/29/2009

GPS Pathfinder Office







# ARDINAL LABORATORIES

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

January 5, 2010

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

Re: Section 27 SWD #2 (XTO-09-014)

Enclosed are the results of analyses for sample number H18974, received by the laboratory on 12/31/09 at 3:00 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: 3 (includes Chain of Custody)

Sincerely,

Celey D. Keene  
Laboratory Director

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This report conforms with NELAP requirements.



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

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

Receiving Date: 12/31/09  
Reporting Date: 01/04/10  
Project Number: XTO-09-014 (XTO ENERGY)  
Project Name: SECTION 27 SWD #2  
Project Location: BUCKEYE, NM

Analysis Date: 01/04/10  
Sampling Date: 12/31/09  
Sample Type: SOIL  
Sample Condition: COOL & INTACT @ 4°C  
Sample Received By: CK  
Analyzed By: HM

LAB NO.	SAMPLE ID	Cl <sup>-</sup> (mg/kg)
H18974-1	TT #1 2'	80
H18974-2	TT #2 2'	832
H18974-3	TT #3 2'	736
H18974-4	TT #4 1'	< 16
H18974-5	TT #5 1 1/2'	1,500
H18974-6	TT #6 2'	2,040
H18974-7	TT #7 2'	1,400
H18974-8	TT #8 1'	32
Quality Control		510
True Value QC		500
% Recovery		102
Relative Percent Difference		2.0

**METHOD:** Standard Methods

4500-CFB

Note: Analyses performed on 1:4 w:v aqueous extracts.

Chemist

Date \_\_\_\_\_

H18974 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 analysis. 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.

**CARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

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

Page \_\_\_\_ of \_\_\_\_

Company Name: <u>SESE</u>				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																											
Project Manager: <u>Bob Allen</u>				P.O. #:																															
Address: <u>705 E Clinton</u>				Company:																															
City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88240</u>				Attn:																															
Phone #: <u>575-392-0510</u> Fax #:				Address: <u>Same</u>																															
Project #: <u>X70-09-014</u> Project Owner: <u>X70 Energy</u>				City:																															
Project Name: <u>Section 27 SW #2</u>				State: Zip:																															
Project Location: <u>Buckeye, NM</u>				Phone #:																															
Sampler Name: <u>ISGAC Kincaid</u>				Fax #:																															
FOR LAB USE ONLY:				MATRIX				PRESERV				SAMPLING																							
Lab I.D.				Sample I.D.				(GRAB OR C/COMP. # CONTAINERS)				GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER				ACID/BASE ICE / COOL OTHER				DATE TIME															
H18974-1				TT#1 2'				6				✓				✓				12/31/09 0745				Chlorides ✓											
-2				TT#2 2'				1				✓				✓				0830															
-3				TT#3 2'				1				✓				✓				0906															
-4				TT#4 1'				1				✓				✓				0940															
-5				TT#5 1 1/2'				1				✓				✓				1010															
-6				TT#6 2'				1				✓				✓				1100															
-7				TT#7 2'				1				✓				✓				1125															
-8				TT#8 1'				1				✓				✓				1140															

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

Sampler Relinquished By:		Date: <u>12/31/09</u>	Received By:		Phone Result: <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:		Date: <u>1/5/10</u>	Received By:		Fax Result: <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One)		Temp. <u>40C</u>	Sample Condition		CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other:			Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			

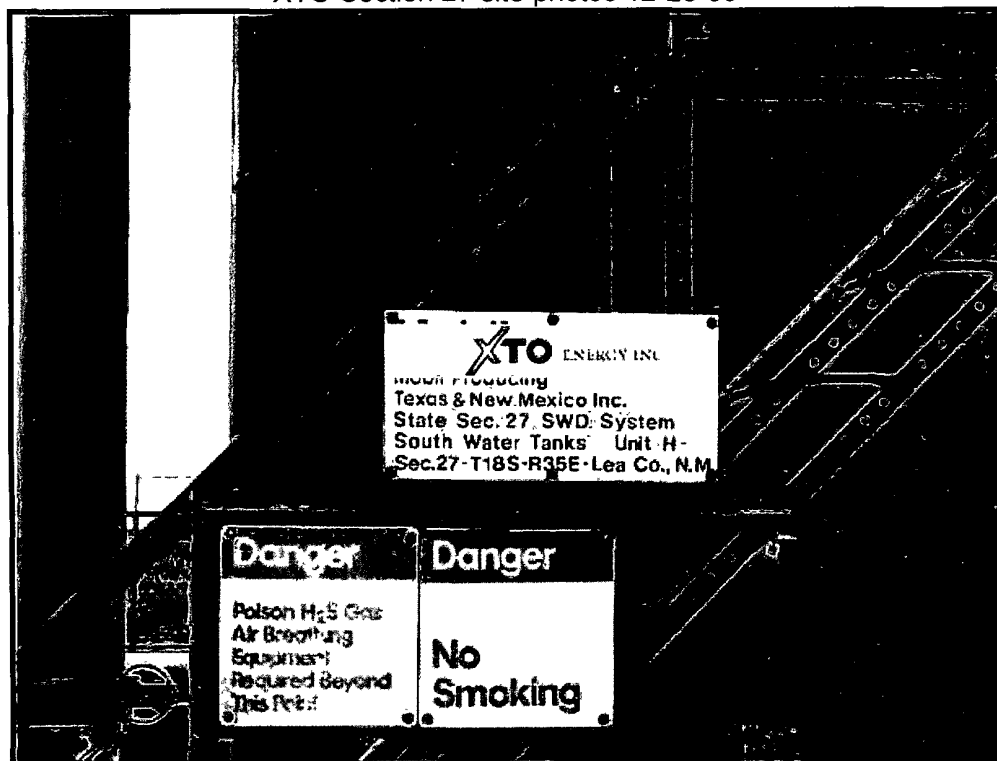
† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.

#26

## **Appendix B**

### **Site Photos**

XTO Section 27 site photos 12-28-09



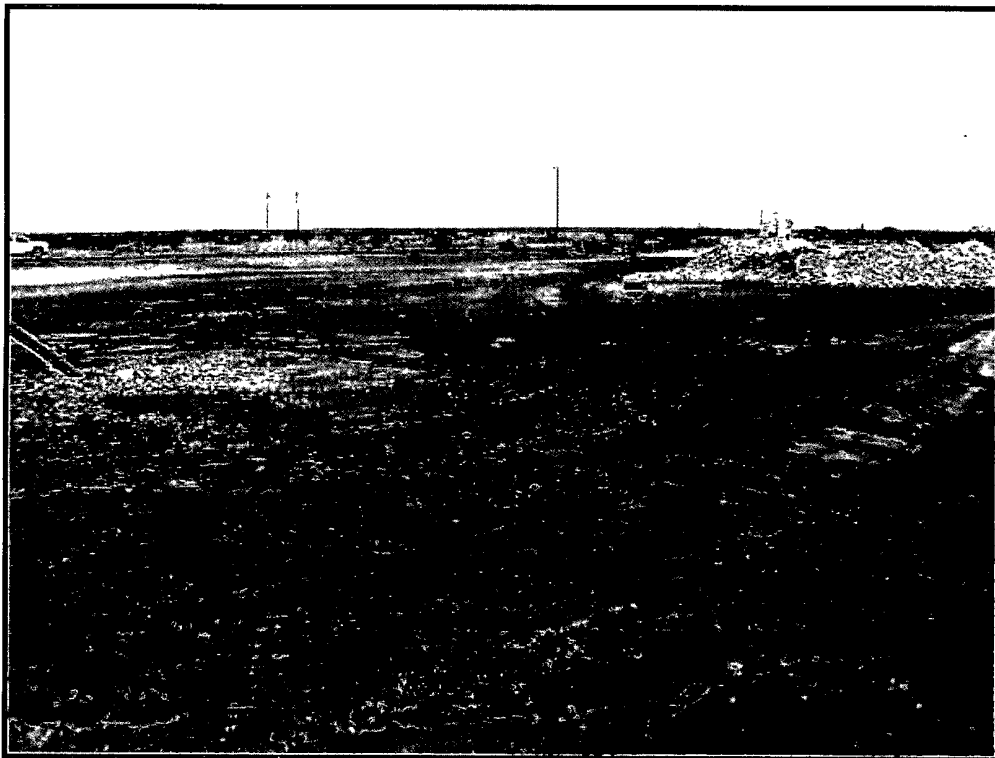
Well Sign



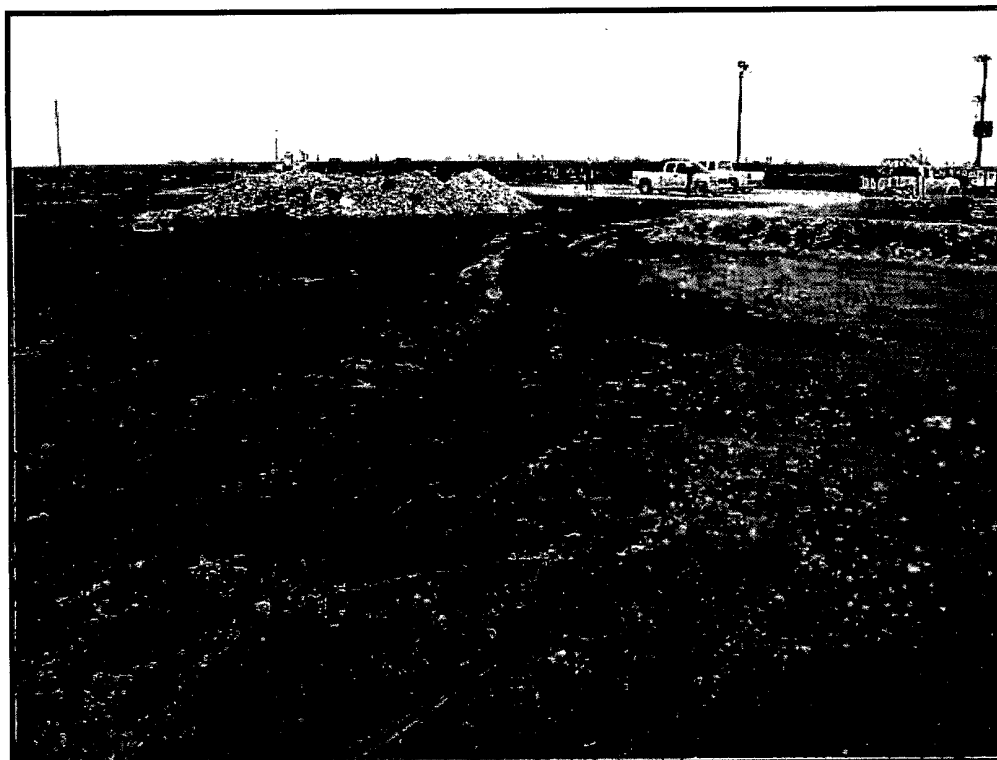
Release point



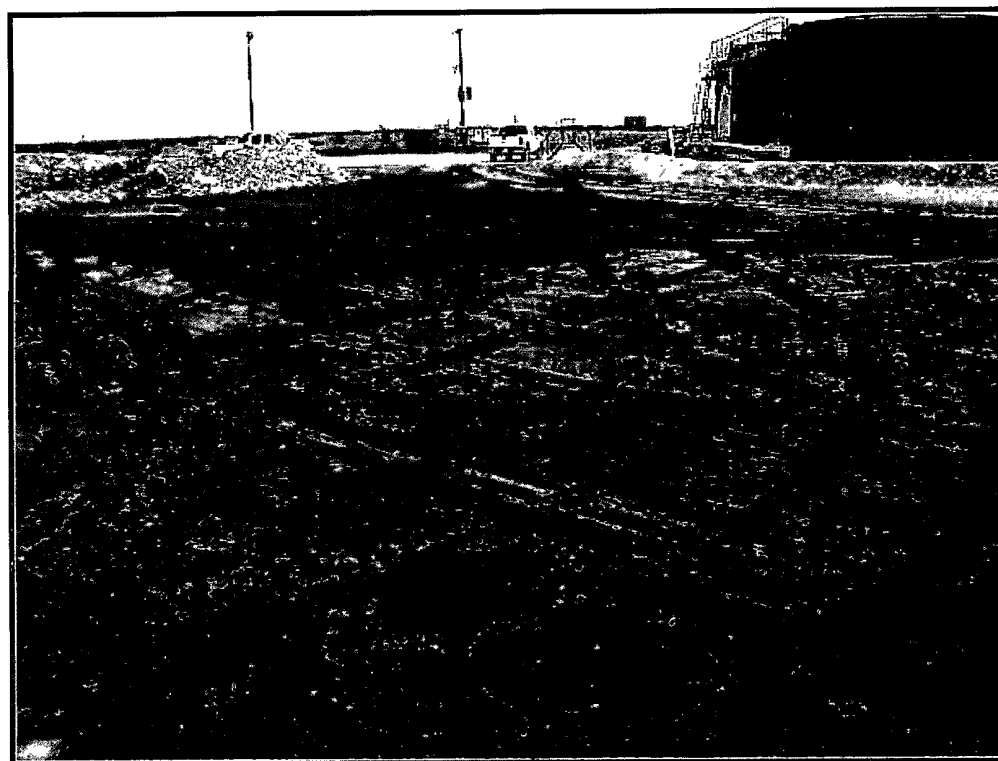
Release area facing east



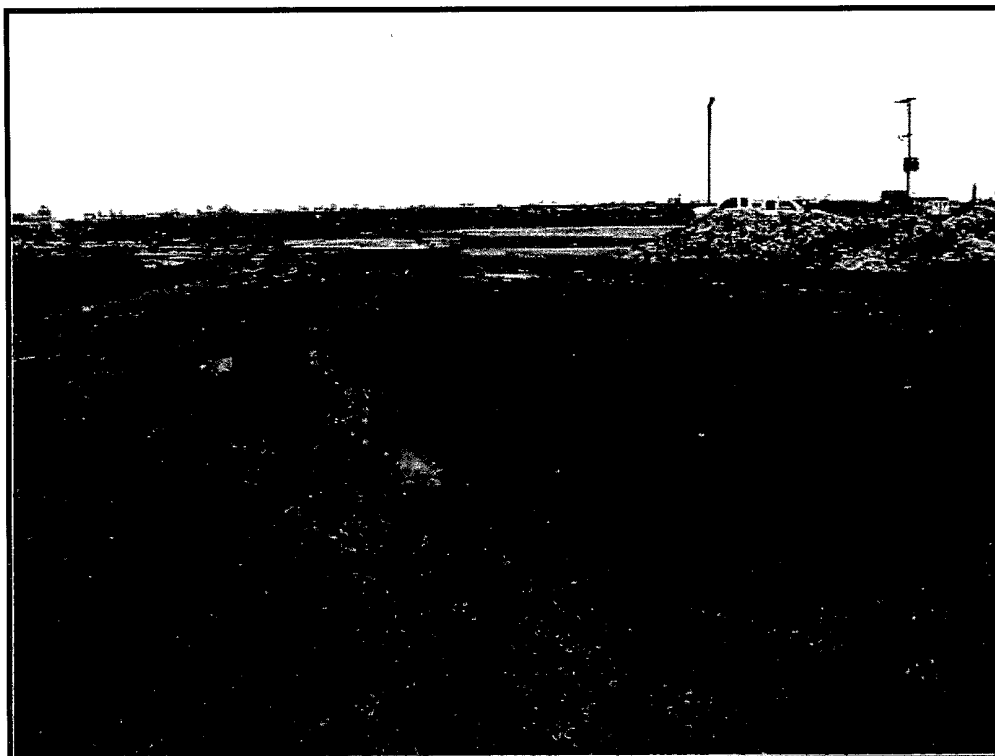
Release area facing southeast



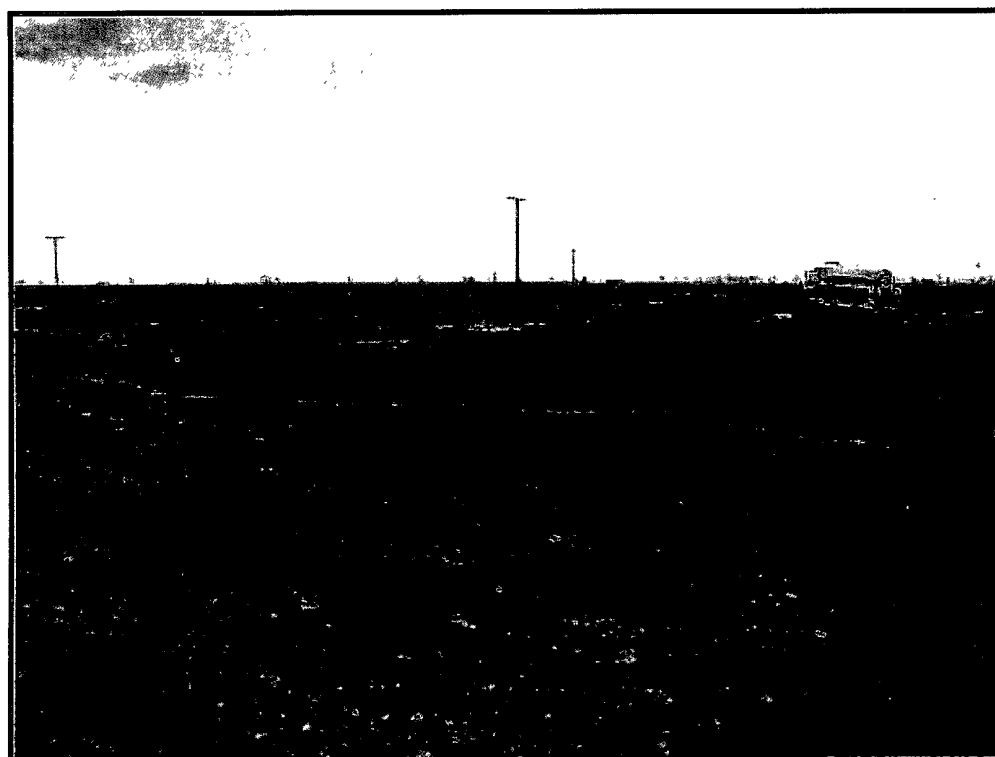
Release area facing southeast



Release area facing south



Release area facing south



Release area facing southeast

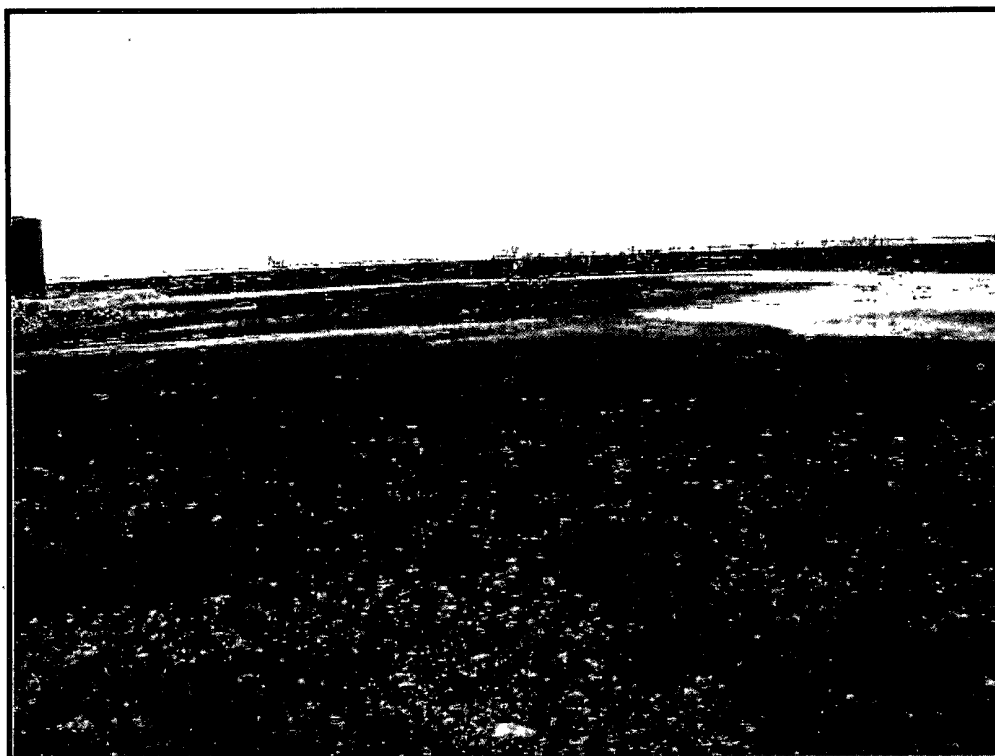




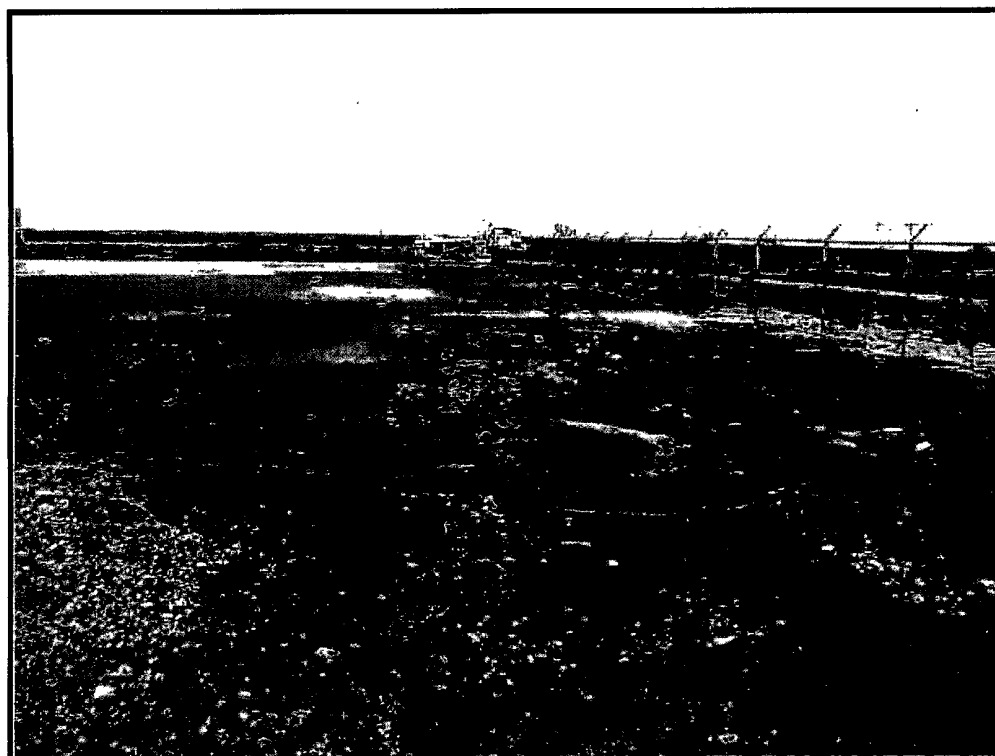
Release area facing west



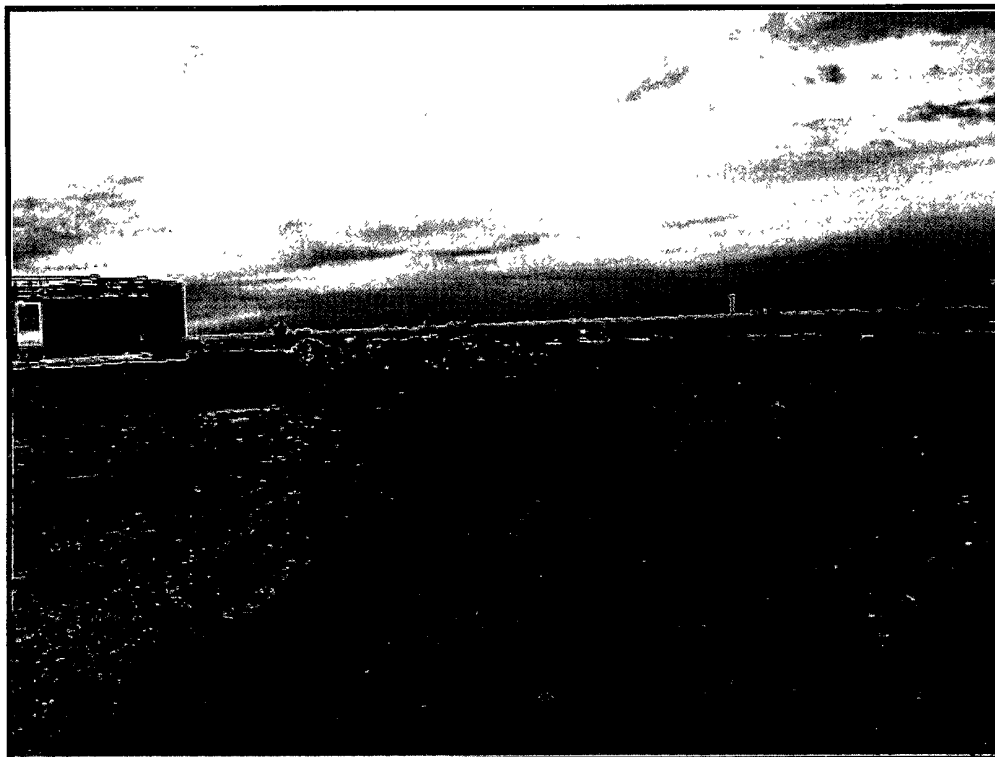
Release area facing northeast



Release area facing northwest



Release area facing north



Release area facing west



Release area facing south



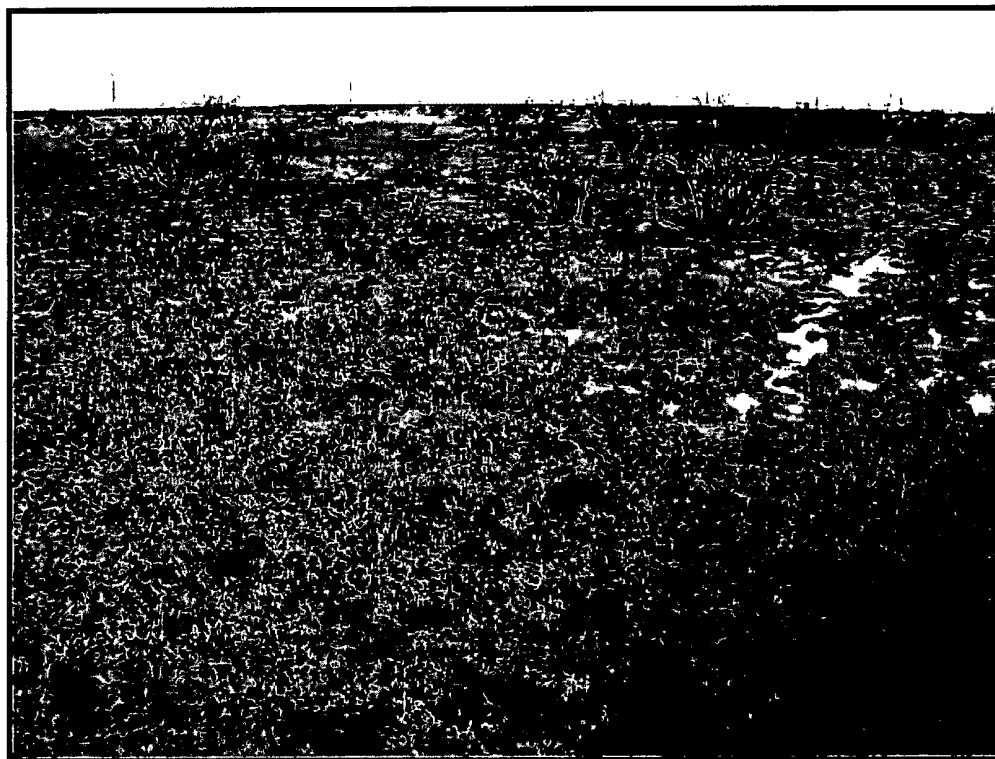
Release area facing west



South release area facing south



South release area facing west



South release area facing south



South release area facing south



South release area facing east



South release area facing east



South release area facing east



South release area facing north



South release area facing west





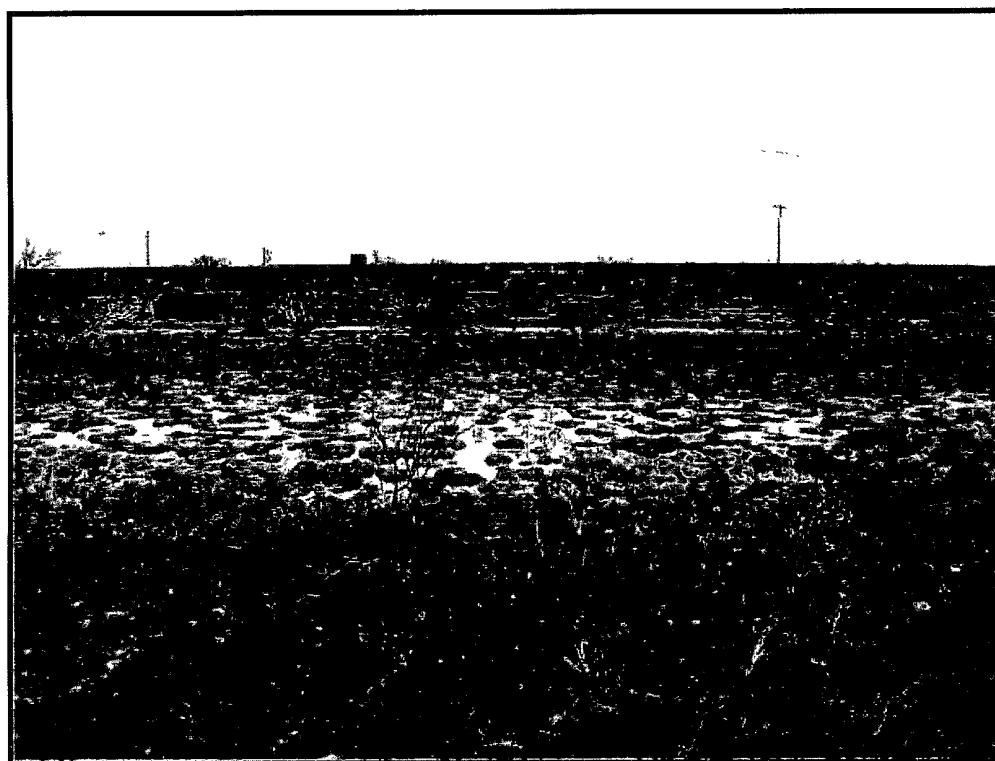
Release area facing northwest



North release area facing north



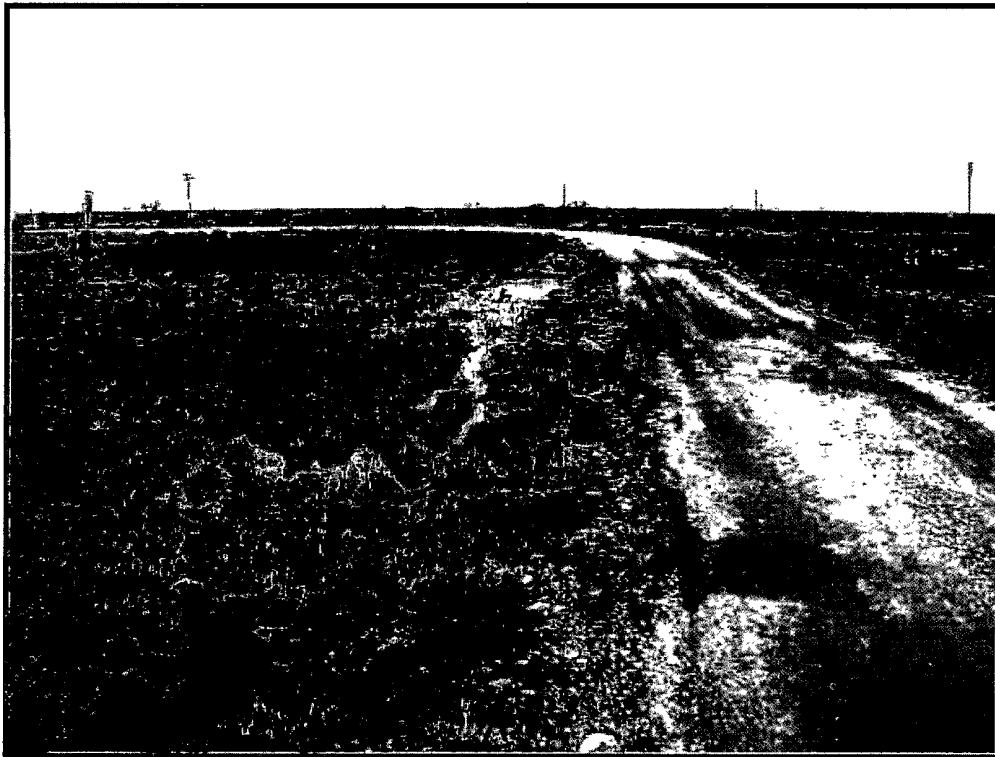
North release area facing east



North release area facing east



North release area facing east



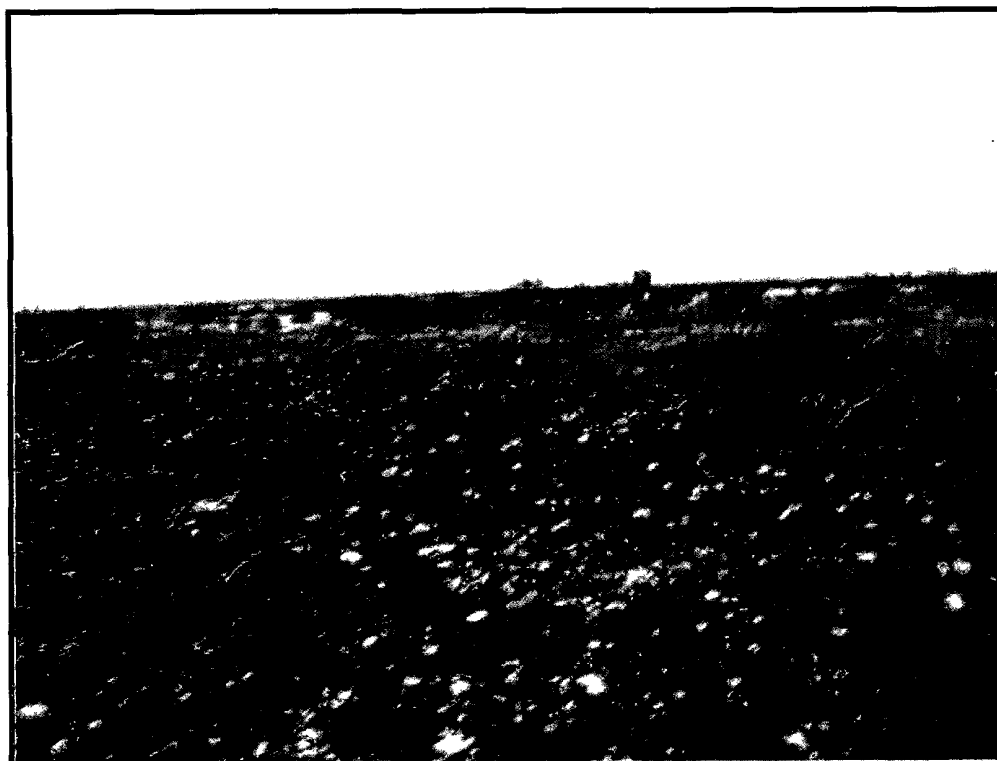
North release area facing north



North release area facing east



North release area facing east



North release area facing east