

RECEIVED

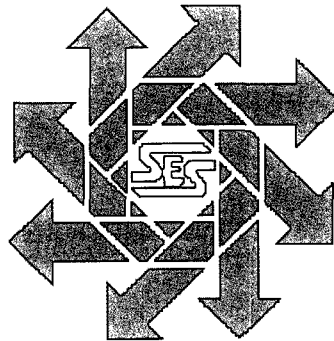
SEP 01 2010
HOBBSOCD

Fasken Oil and Ranch, LTD.

**Denton SWD Emergency Pit Overflow
Closure Report**

**Unit Letter D, Section 13 of Township 15 South,
Range 37 East, Lea County, New Mexico**

August 10, 2010



Prepared for:

**Fasken Oil and Ranch, LTD.
303 West Wall, Suite 1800
Midland, Texas 79701-5116**

By:

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

*Approved by
Jeffrey L. Lacey
Environmental Engineer
NMOCB-Hobbs
09/23/10*

TABLE OF CONTENTS

I. COMPANY CONTACTS.....	1
II. BACKGROUND.....	1
III. SURFACE AND GROUND WATER.....	1
IV. SOILS.....	1
V. WORK PERFORMED.....	1
VI. CONCLUSION.....	2
VII. FIGURES & APPENDICES.....	3
Figure 1 – Vicinity Map.....	4
Figure 2 – Site Plan.....	5
Appendix A – Analytical Results	6
Appendix B – Site Photographs	7
Appendix C – C-141	8

I. Company Contacts

Representative	Company	Telephone	E-mail
Jimmy Carlile	Fasken	432-818-0210	jimmyc@forl.com
Bob Allen	SESI	575-397-0510	ballen@sesi-nm.com

II. Background

Safety and Environmental Solutions, Inc. (SESI) was engaged by Fasken Oil and Ranch, LTD. to perform cleanup services at the Denton SWD Emergency Pit. The facility was affected by an overflow in of the emergency pit. Approximately 680 barrels of produced fluid were released, 640 barrels were recovered.

III. Surface and Ground Water

There are (3) three monitoring wells located on the north and east side of the Denton SWD facility. Depth to water measurements collected from these monitor wells on February 2, 2010 indicated an average ground water depth of 60.06 ft.

IV. Soils

The surface soils in the area are predominantly sand and sandy loam.

V. Work Performed

On February 22, 2010 SESI was onsite with Eco Enviro Drilling LLC. A total of four (4) boreholes were installed within the spill area to determine the vertical extent of the contamination. Borehole #1 was installed to depth of 17' below ground surface (bgs), borehole #2 & #3 were installed to a depth of 20' bgs. Due to auger refusal, borehole #4 was installed to a depth of 35' bgs. Samples were retrieved in five (5) foot intervals from all boreholes. All 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⁻ B).

The results of the analysis are as follows:

Date	Sample ID	Cl ⁻ (mg/kg)
2/22/10	BH #1-5'	2,640
2/22/10	BH #1-10'	624
2/22/10	BH #1-15'	16
2/22/10	BH #1-17'	48
2/22/10	BH #2-5'	624
2/22/10	BH #2-10'	32
2/22/10	BH #2-15'-16'	32
2/22/10	BH #3-5'	1,360
2/22/10	BH #3-10'	832
2/22/10	BH #3-15'	304
2/22/10	BH #3-20'	96
2/22/10	BH #4-5'	2,760

Date	Sample ID	Cl ⁻ (mg/kg)
2/22/10	BH #4-10'	1,140
2/22/10	BH #4-15'	176
2/22/10	BH #4-20'	368
2/22/10	BH #4-25'	608
2/22/10	BH #4-30'	1,040
2/22/10	BH #4-35'	768

All borings were backfilled from total depth to surface with bentonite and hydrated.

On June 22-24, 2010 SESI was onsite with Watson Construction to begin remediation of the affected area. The entire area between the lease road leading to the battery and the overflow pit was excavated to a depth of 4' below ground level (bgl). A total of six (6) grab samples were retrieved from the west wall of the excavation. All 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⁻ B).

The results of the analysis are as follows:

Date	Sample ID	Cl ⁻ (mg/kg)
6/22/10	WW #1	96
6/22/10	WW #2	32
6/24/10	WW #3	<16
6/24/10	WW #4	32
6/22/10	WW #5	48
6/24/10	WW #6	<16

On June 30, 2010 through July 28, 2010, the floor of the excavation was padded and domed with one (1) foot of clean topsoil. Akome, Inc. was onsite to install the 20-mil reinforced geo-membrane liner. Upon completion, the area was padded with an additional one (1) foot of clean topsoil then backfilled with like soils and contoured to grade.

A total of 5,100 yards of contaminated soil were transported to Sundance Services for disposal.

VI. Conclusion

Remedial actions at this site have all been performed with the approval of, and in accordance with all NMOCD requirements. The area will be reseeded in the spring as per landowner's specifications.

As a result, we respectfully submit this closure report for your consideration and approval.

VII. Figures & Appendices

Figure 1 – Vicinity Map

Figure 2 – Site Plan

Appendix A – Analytical Results

Appendix B – Site Photographs

Appendix C –C-141

Figure 1
Vicinity Map

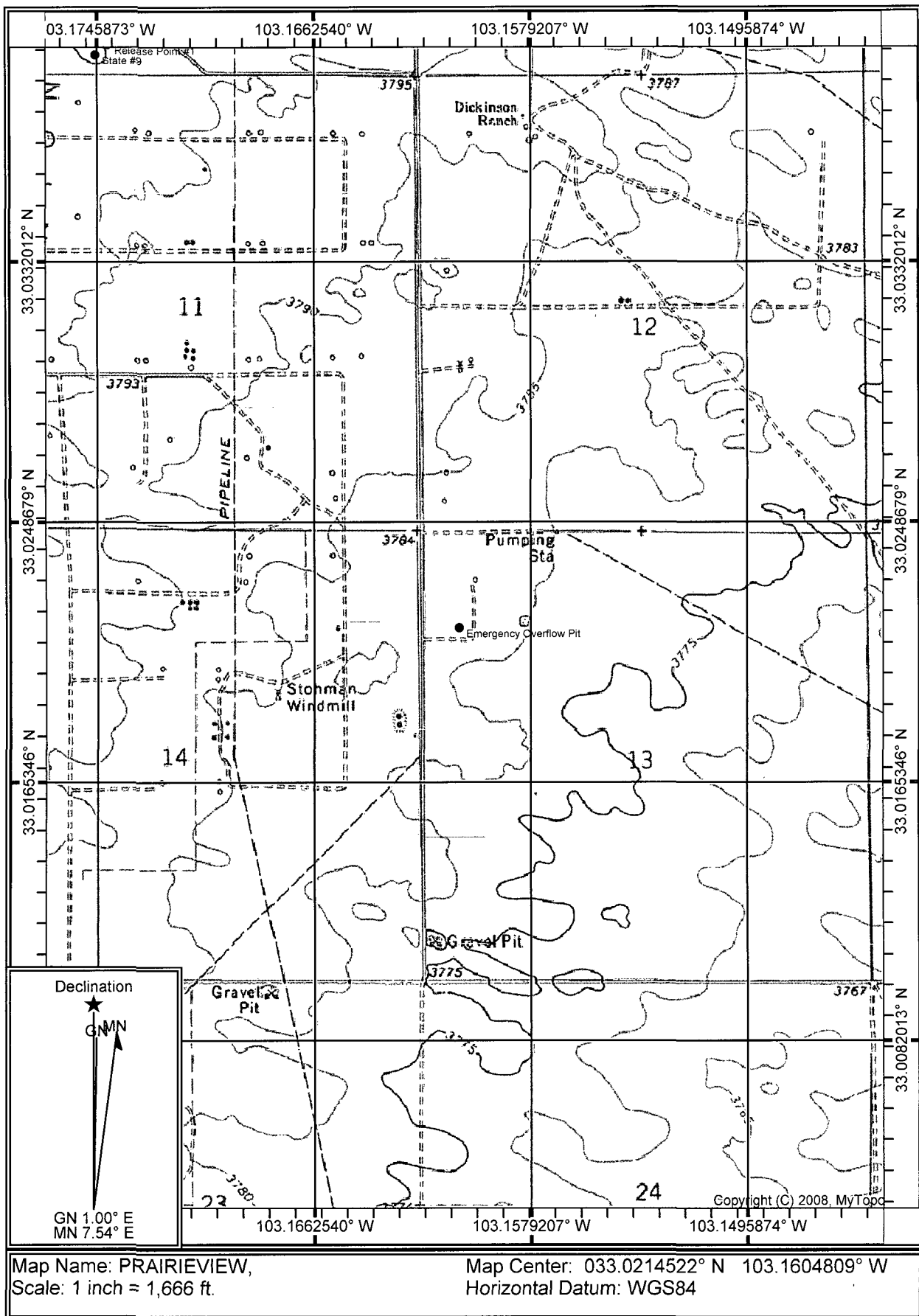
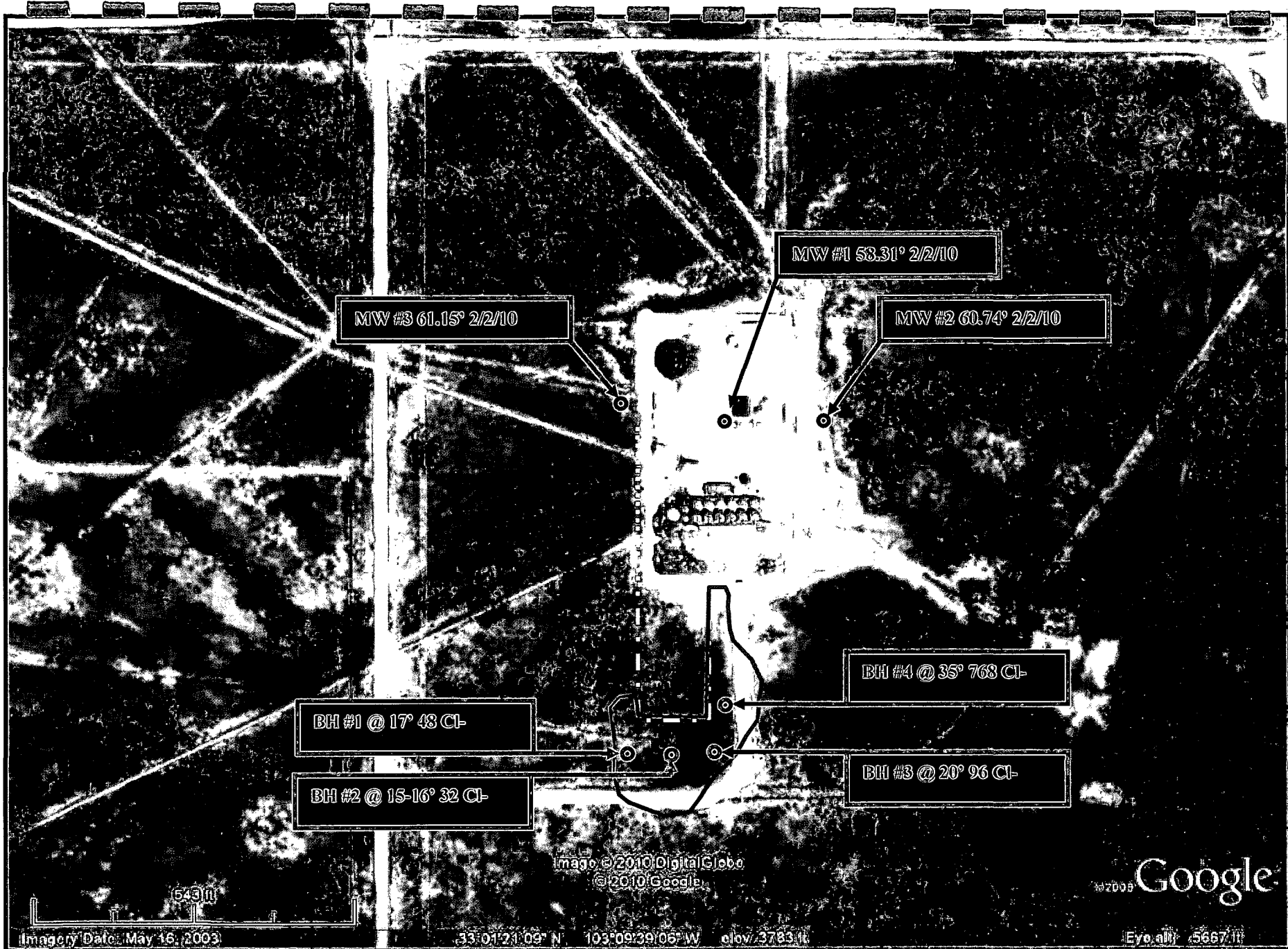


Figure 2
Site Plan



MW #3 61.15° 2/2/10

MW #1 58.31° 2/2/10

MW #2 60.74° 2/2/10

WW#1: 96 CI-

WW#2: 32 CI-

WW#3: <16 CI-

WW#4: 32 CI-

WW#5: 48 CI-

WW#6: <16 CI-

Image © 2010 DigitalGlobe
© 2010 Google

2009 Google

Image Date: May 16, 2003

33°01'20.81" N 103°09'37.36" W elev 3783 ft

Eye alt 5981 ft

Appendix A

Analytical Results

Appendix B

Site Photographs



Affected area facing north



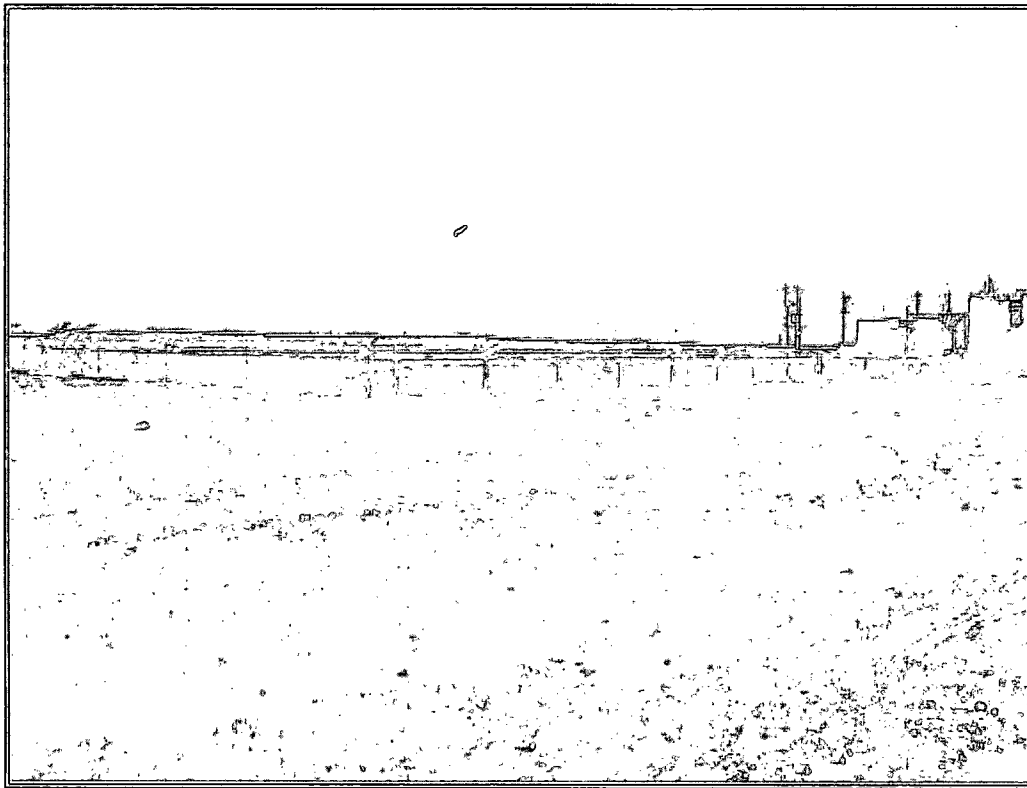
Affected area facing north



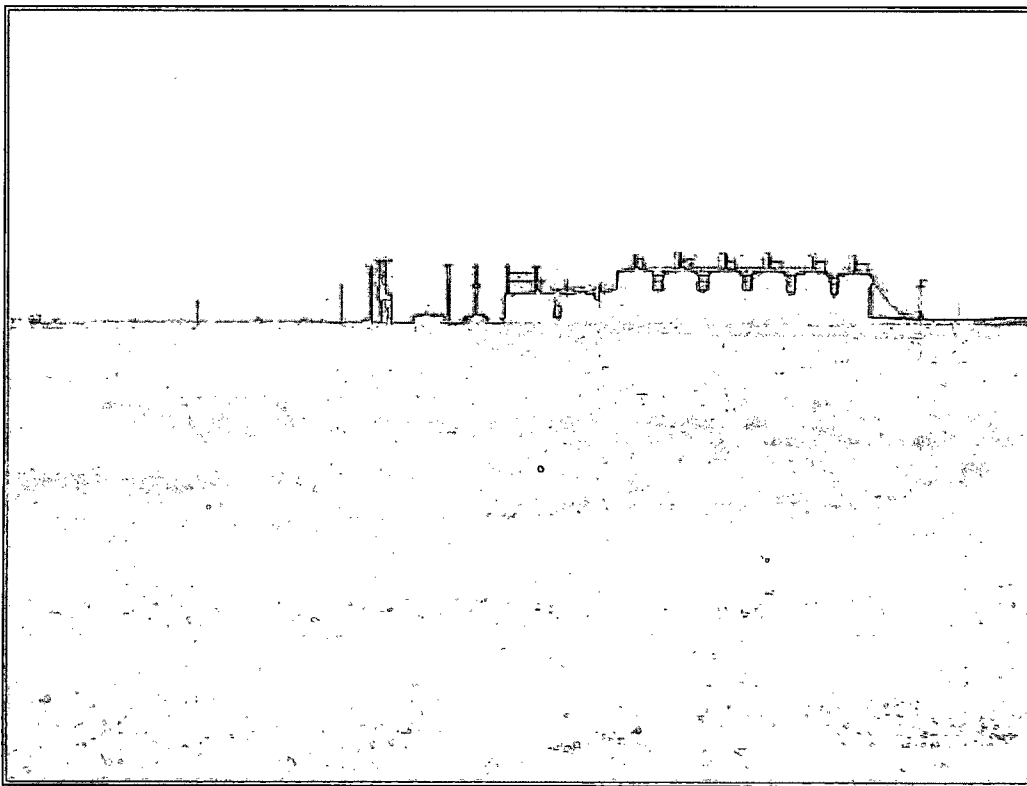
Affected area facing west



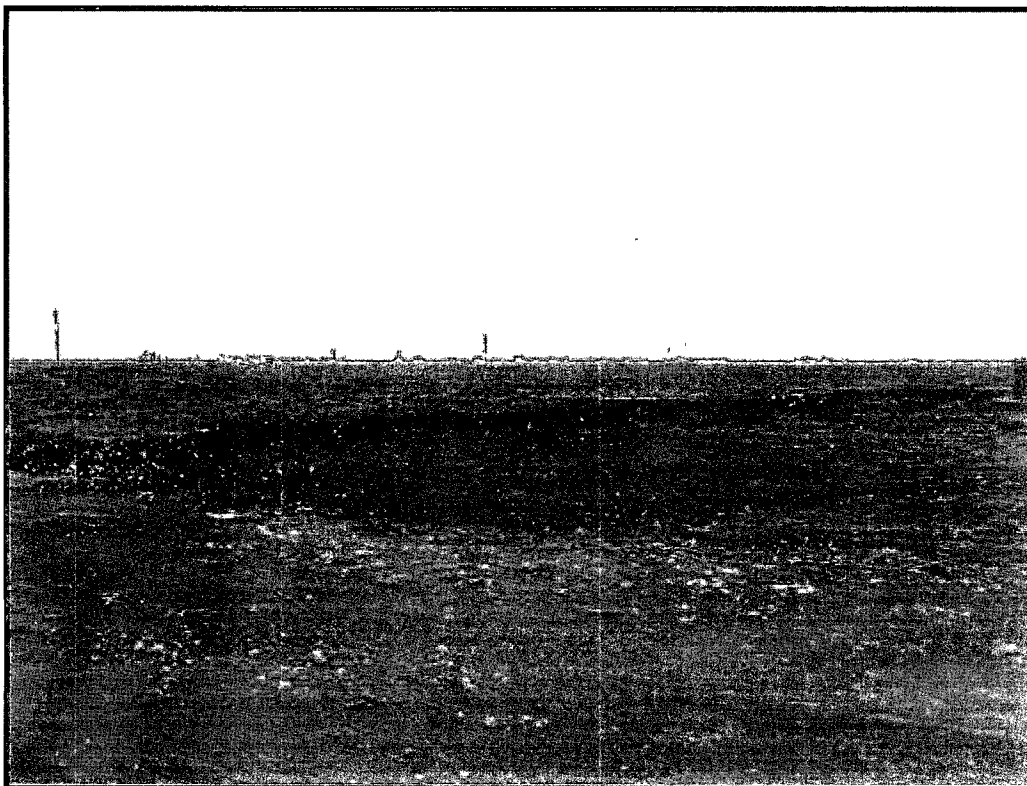
Affected area facing northwest



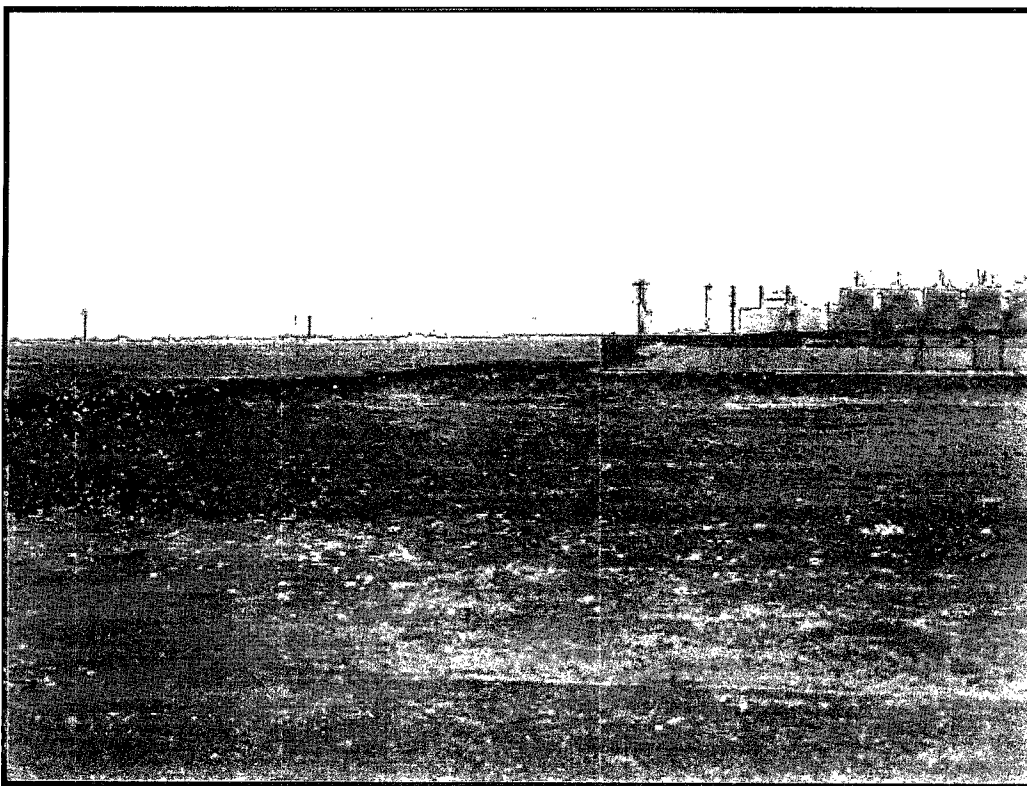
Affected area facing northwest



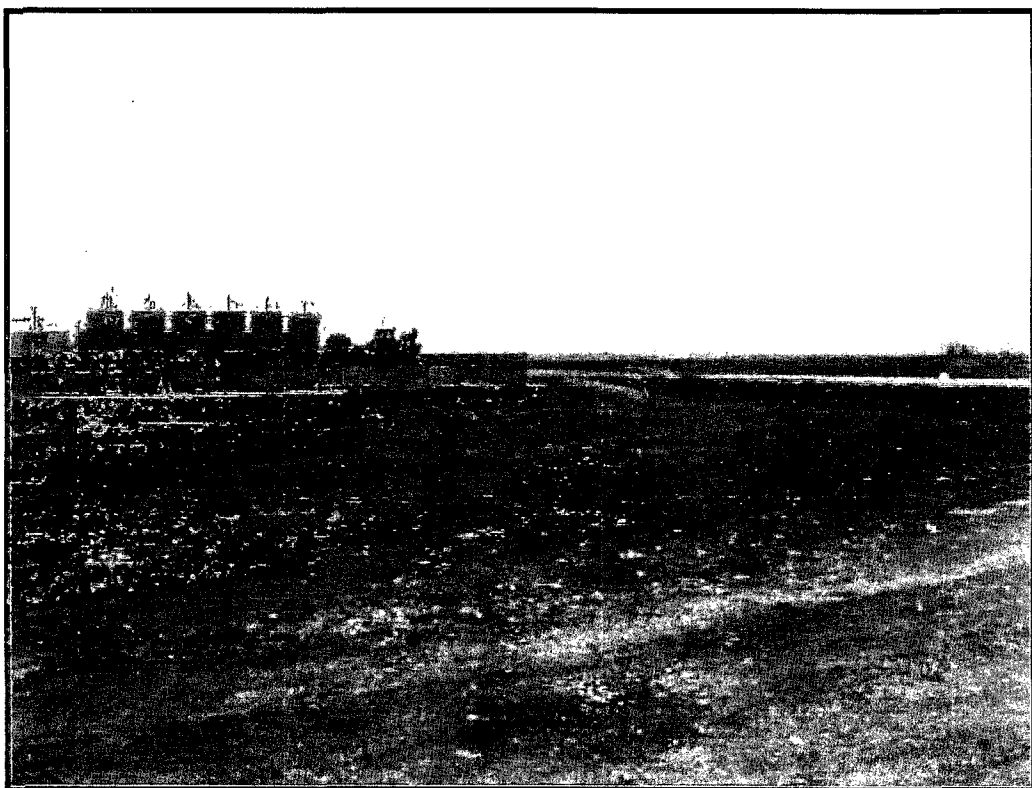
Affected area facing north



Excavated area facing northwest



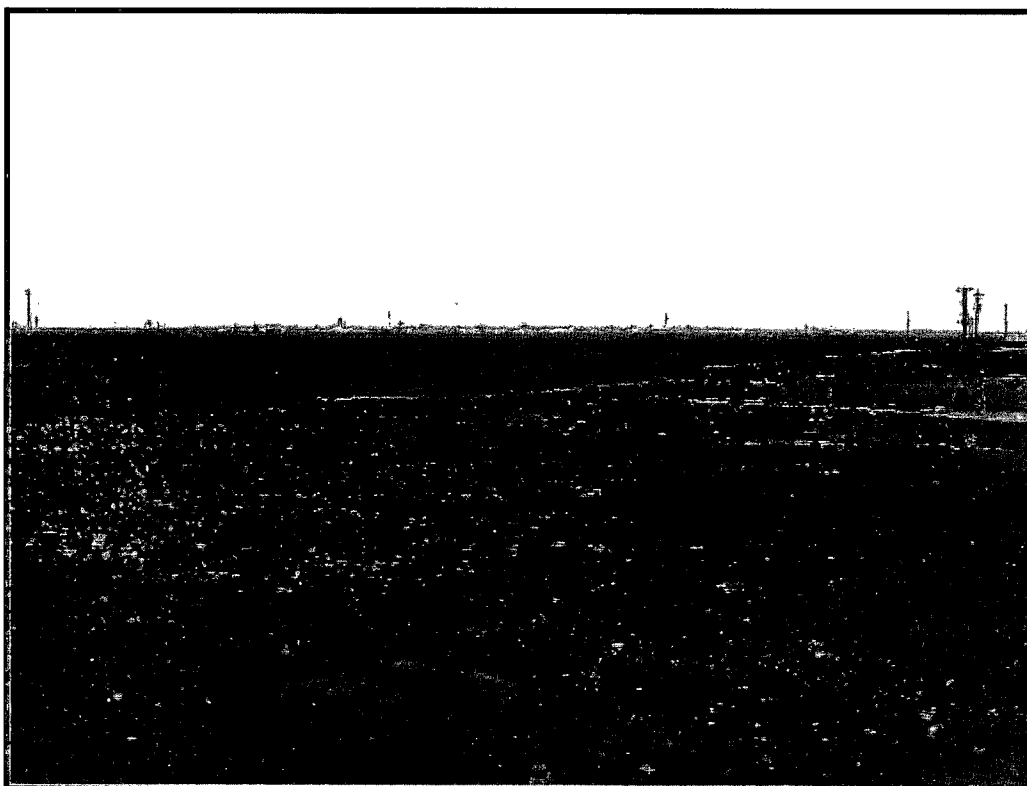
Excavated area facing north



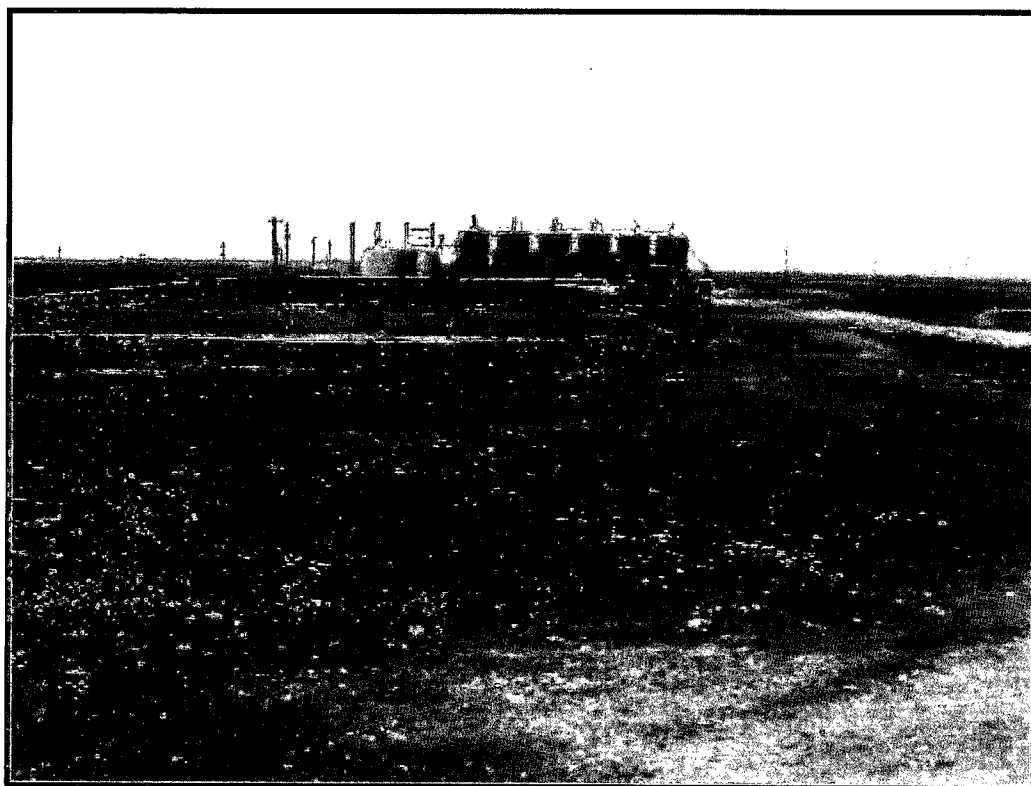
Excavated area facing northeast



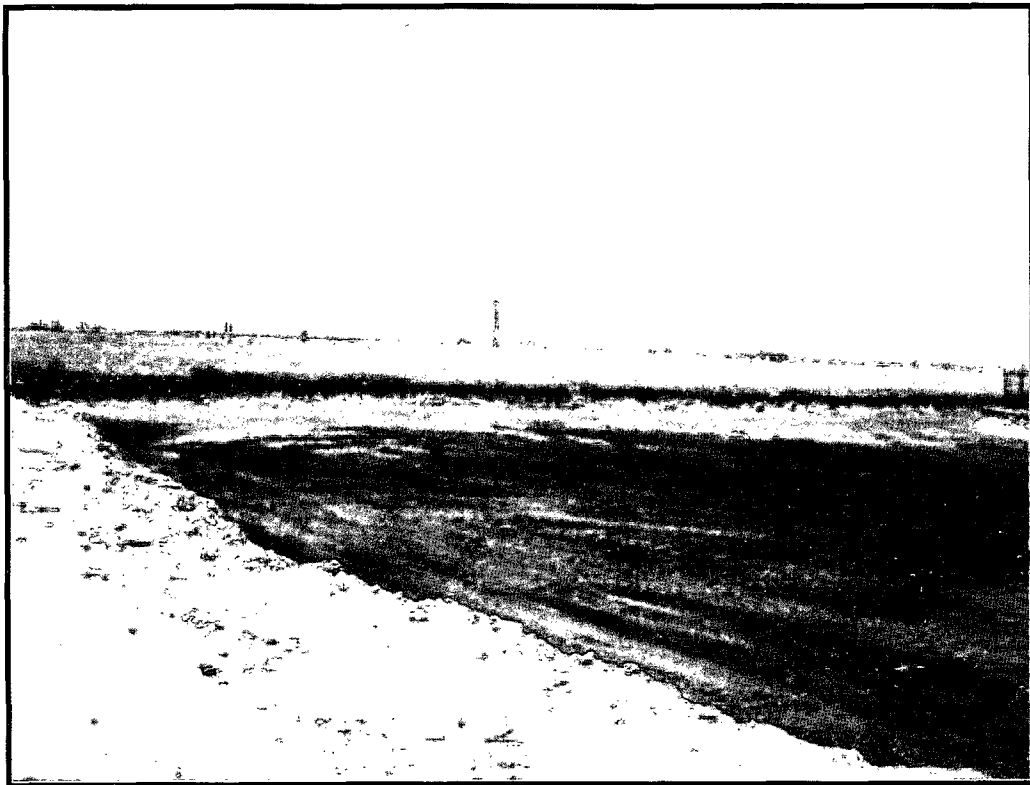
Excavated area facing east



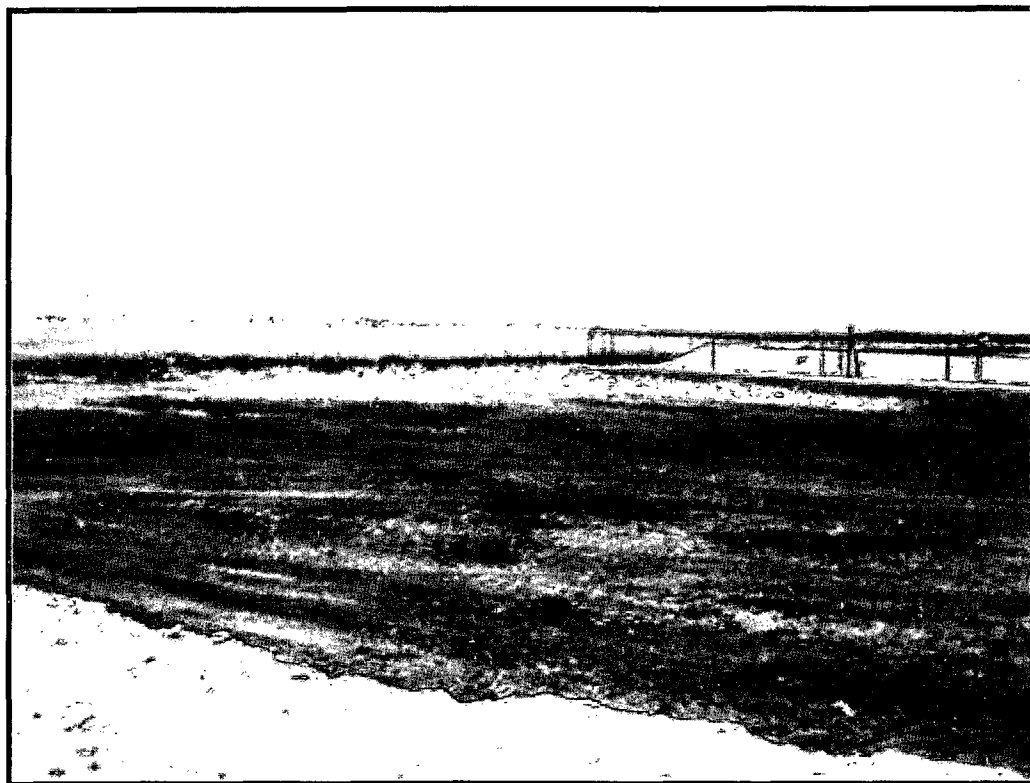
Excavated area facing northwest



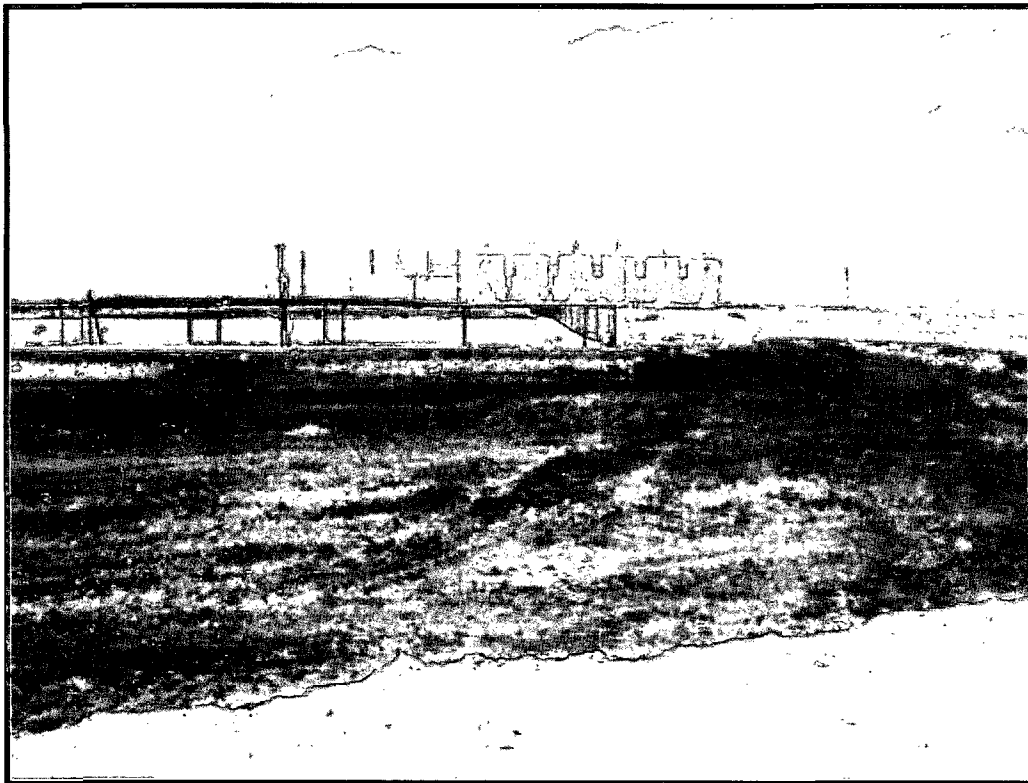
Excavated area facing north



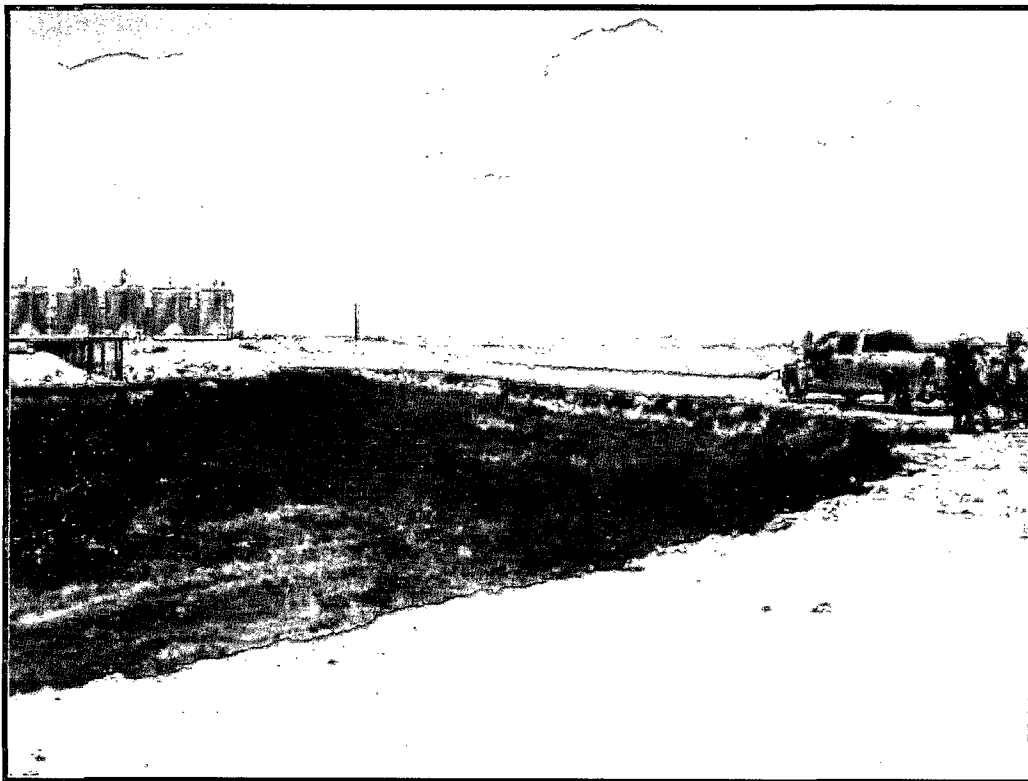
Excavation padded with top soil facing west



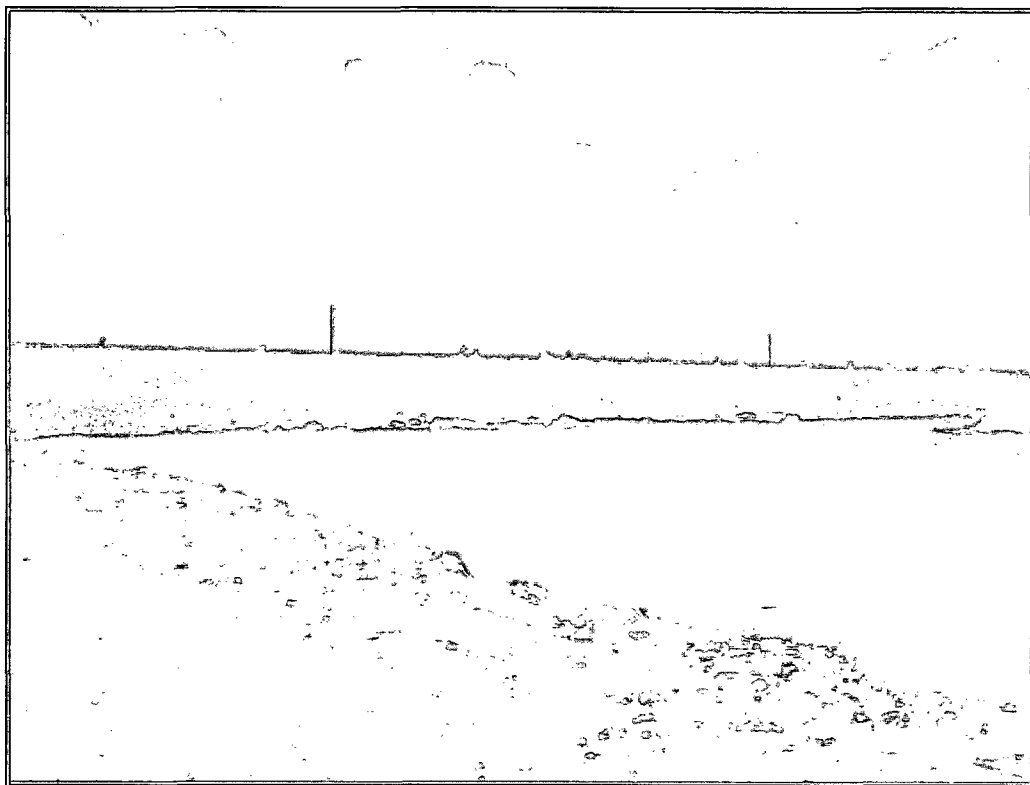
Excavation padded with top soil facing northwest



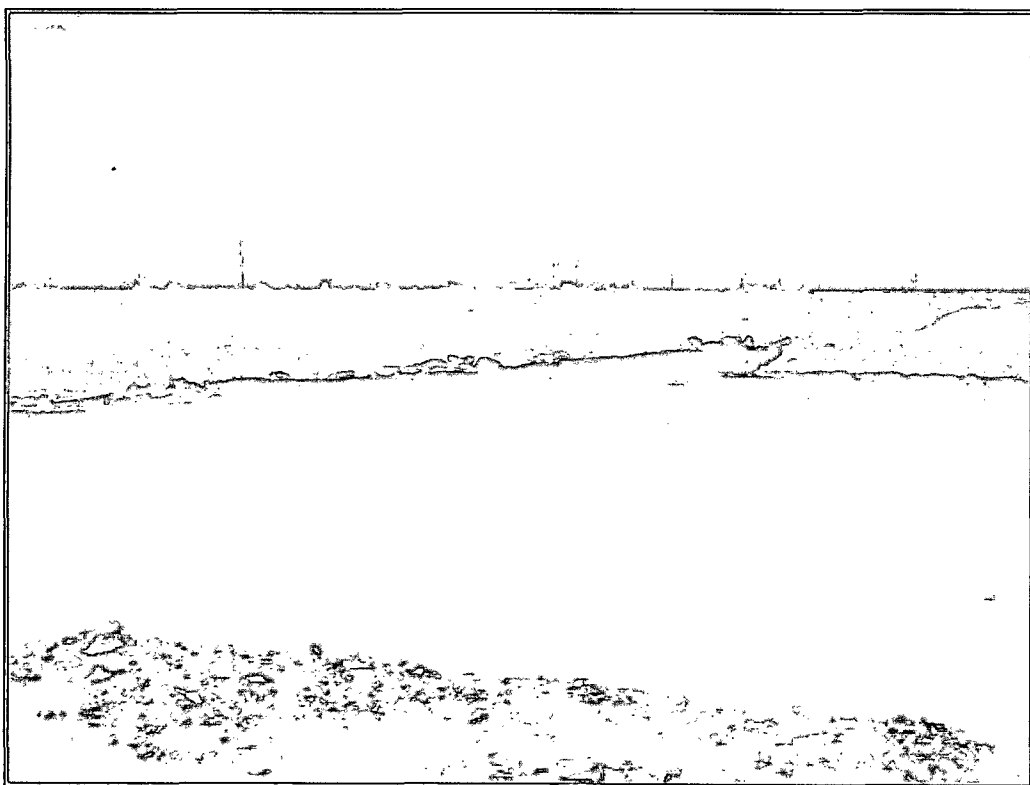
Excavation padded with top soil facing north



Excavation padded with top soil facing northeast



Excavation with 20 mil liner installed facing northwest



Excavation with 20 mil liner installed facing northwest



Excavation with 20 mil liner installed facing north



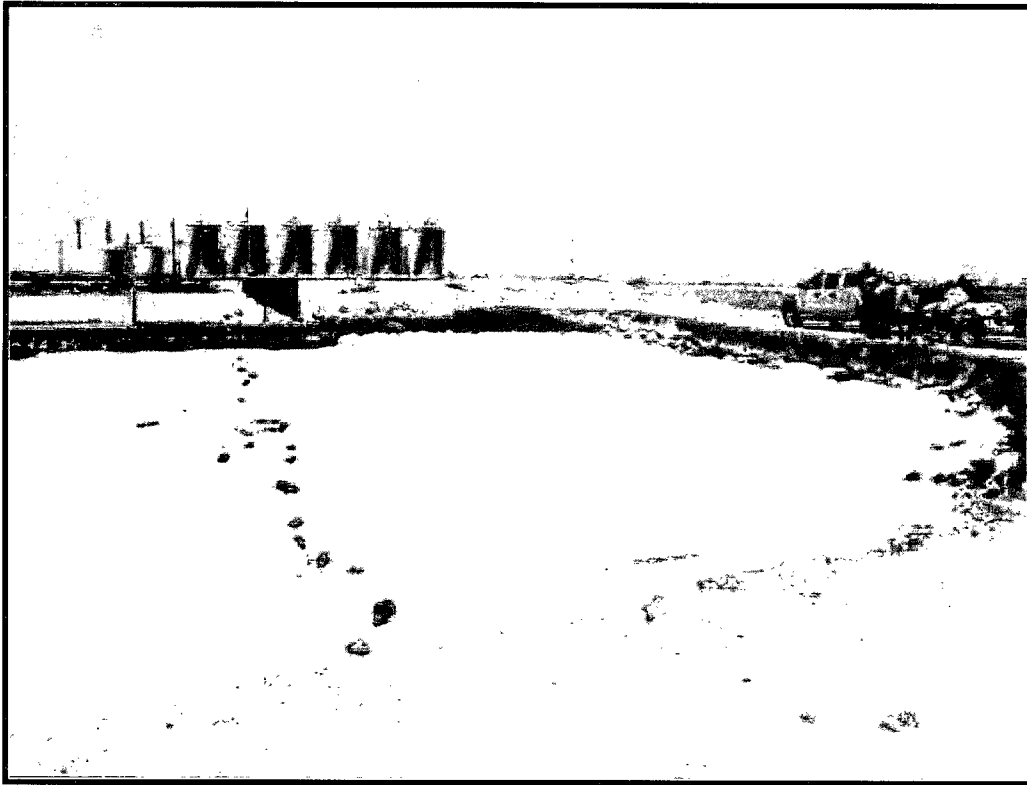
Excavation with 20 mil liner installed facing northeast



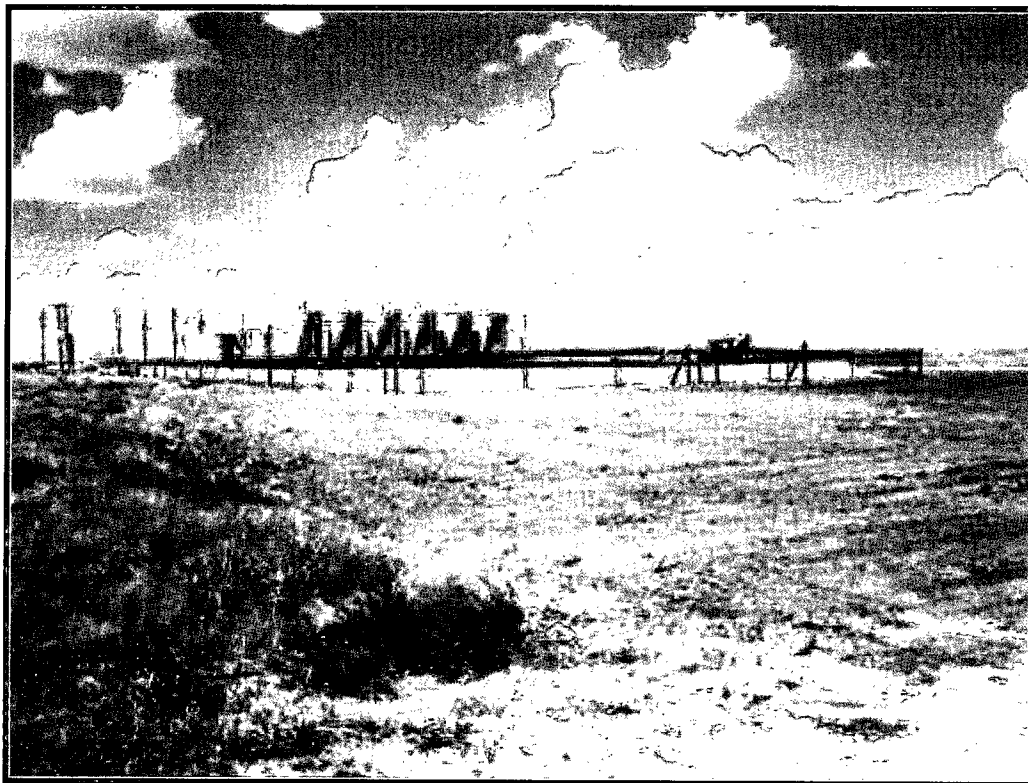
Excavation with 20 mil liner installed facing east



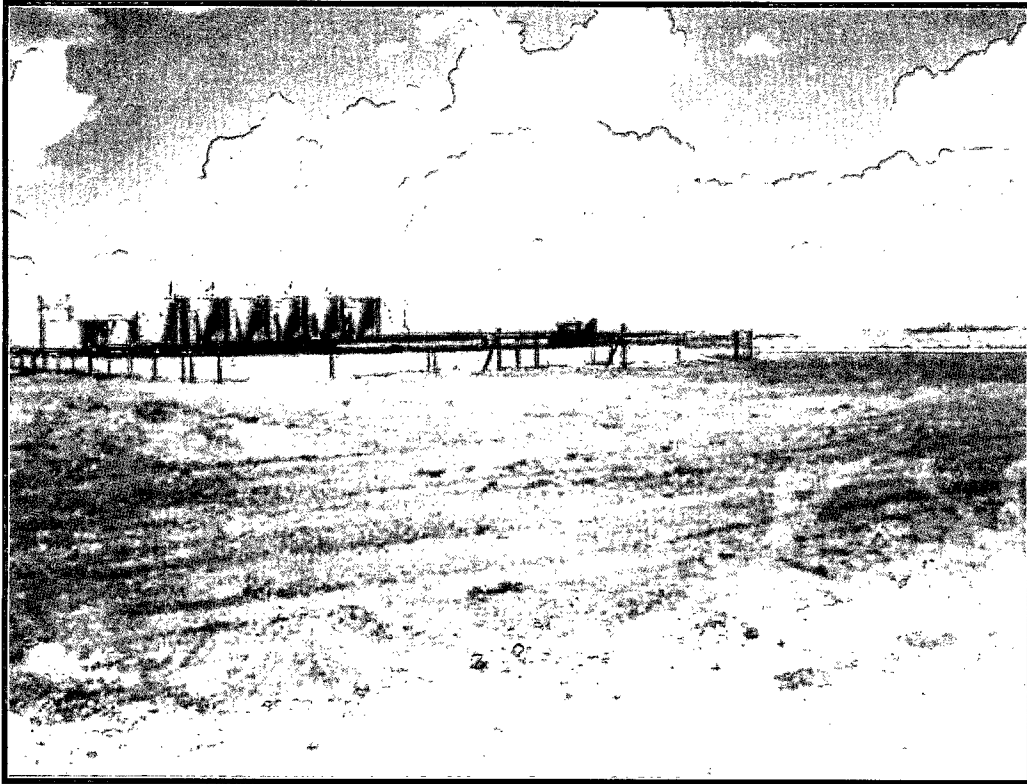
Excavation with 20 mil liner installed facing northeast



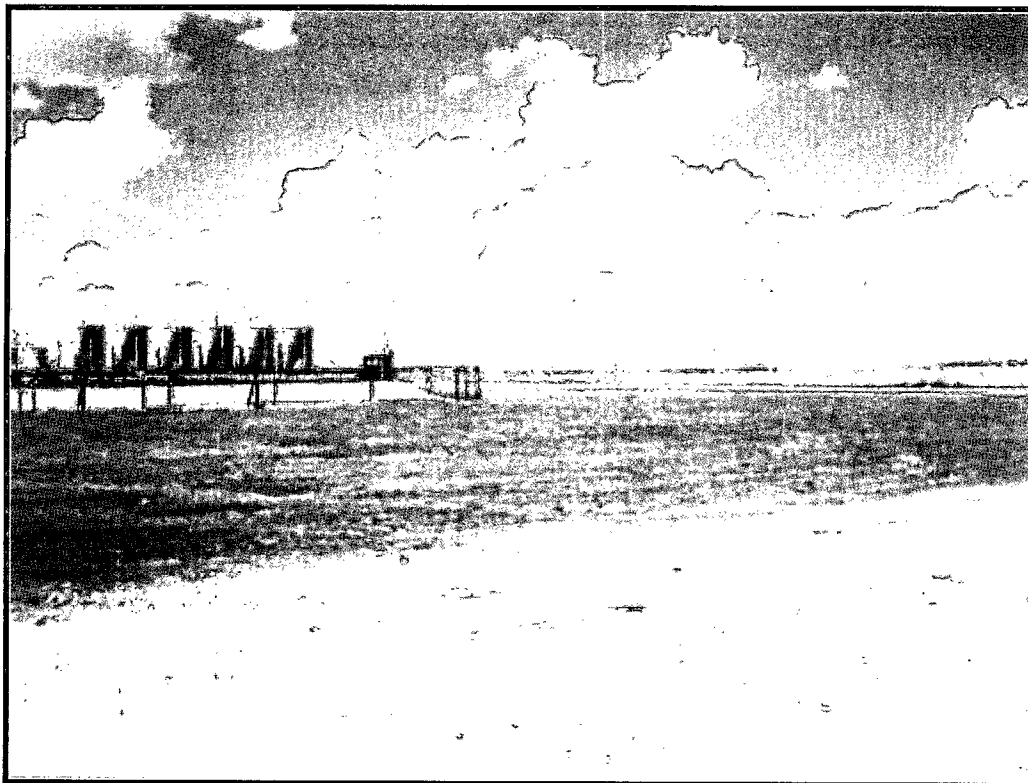
Excavation with 20 mil liner installed facing north



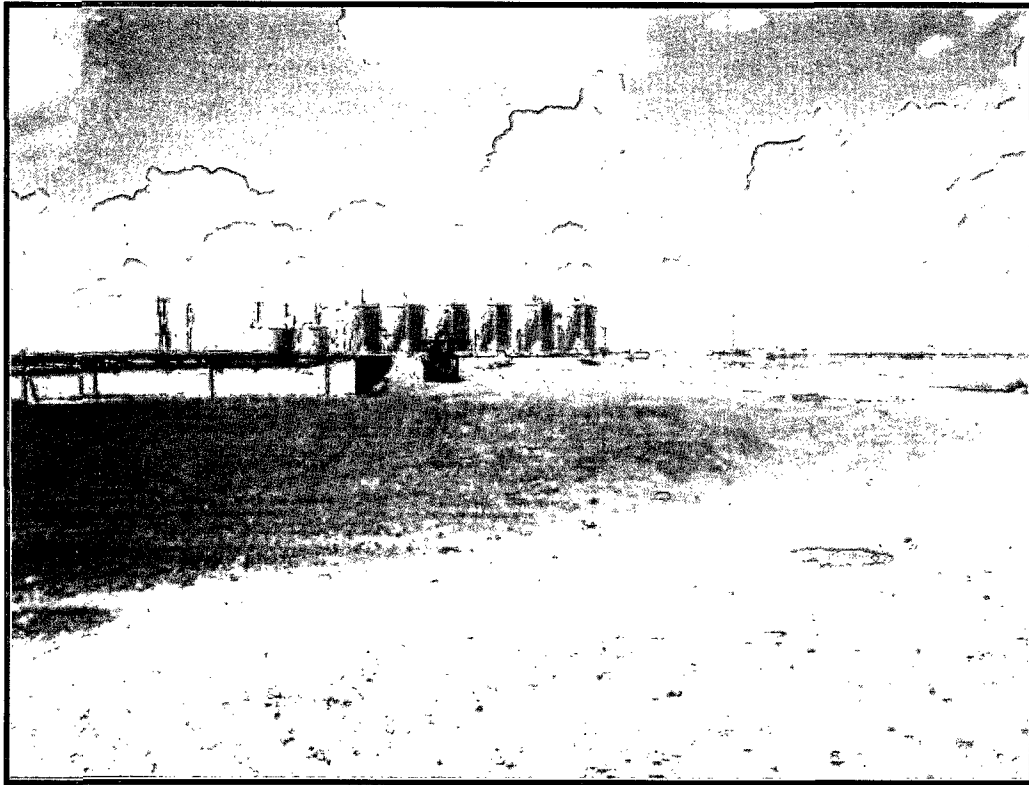
Backfilled excavation facing northeast



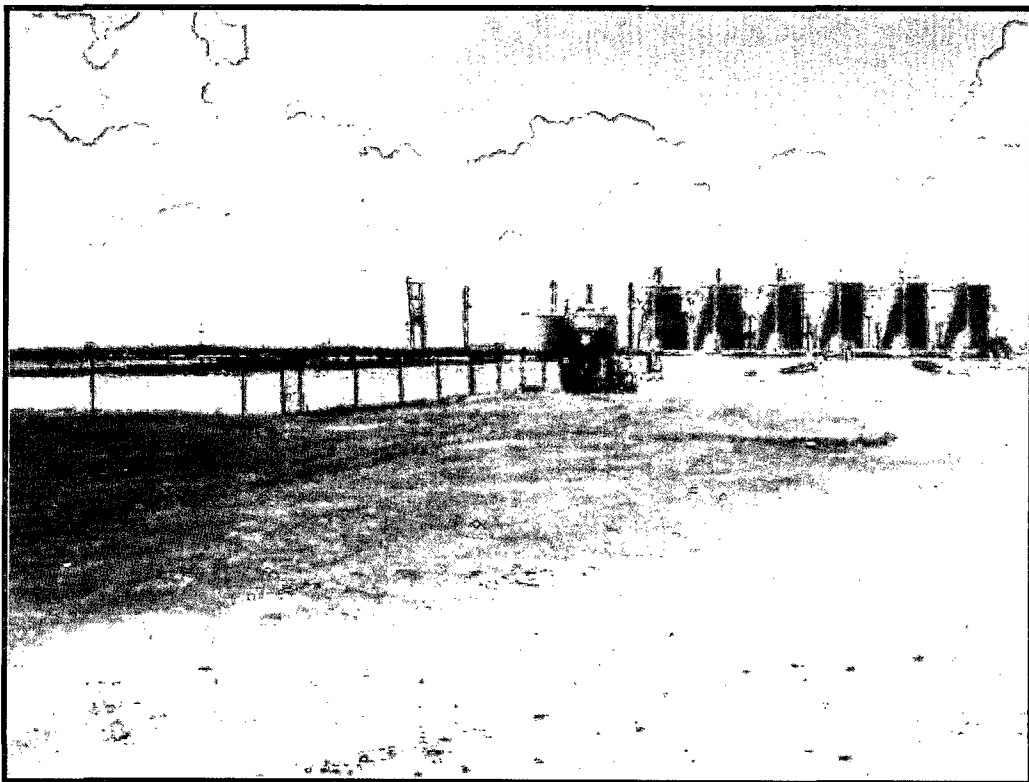
Backfilled excavation facing northeast



Backfilled excavation facing northeast



Backfilled excavation facing north



Backfilled excavation 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	Wasken Oil and Ranch, Ltd.	Contact	Jimmy Carlile
Address	303 W. Wall, Ste. 318001, Midland, TX	Telephone No.	432-687-1777
Facility Name	Denton SWD Main Battery	Facility Type	SWD Emergency Pit

Surface Owner	Darr Angell	Mineral Owner	Fee	Lease No.
---------------	-------------	---------------	-----	-----------

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
D	13	15S	37E					Lea

Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release	Salt Water	Volume of Release	680	Volume Recovered	640
Source of Release	Emergency Pit Overflow	Date and Hour of Occurrence		Date and Hour of Discovery	
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	1-2-10 5:30 pm	1-3-10 10:00 am	
By Whom?	Jimmy Carlile	Date and Hour	1-4-10 8:47 am	Geoff Leking, voicemail	
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	N/A		

If a Watercourse was Impacted, Describe Fully.*

N/A

Describe Cause of Problem and Remedial Action Taken.*

Injection pump went down on low suction pressure. Alarms failed due to blown fuse in Alltel callout board and Leaco cellular phone weak signal. Re-set pump. Replaced phone board and cellular phone.

Describe Area Affected and Cleanup Action Taken.*

115' X 200' south of pit and 70' X 100' east of pit.

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.

OIL CONSERVATION DIVISION

Signature: *Jimmy Carlile*

Printed Name: Jimmy Carlile

Approved by District Supervisor:

Title: Regulatory Affairs Coordinator

Approval Date:

Expiration Date:

E-mail Address: jimmyc@for1.com

Conditions of Approval:

Attached ☐

Date: 1-4-10

Phone: 432-687-1777

* Attach Additional Sheets If Necessary