AE Order Number Banner

Report Description

This report shows an AE Order Number in Barcode format for purposes of scanning. The Barcode format is Code 39.

App Number: pGRL0828255263

1RP - 1968

FASKEN OIL & RANCH LTD

7/25/2016

Fasken Oil and Ranch, LTD.
Denton SWD #5
Delineation Report/Workplan
Unit N, Section 2, Township 15S, Range 37E
Lea County, New Mexico

December 22, 2008

Prepared for:

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

By:

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

575 370 3184 393-6161

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I. Company Contacts

NAME	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 #5 Tank Battery. The facility was affected by an overflow caused by the separation of a polyline from the fiberglass tee. Approximately 80 barrels of produced fluid were released, 5 barrels were recovered.

III. Surface and Ground Water

The closest groundwater of record listed with the New Mexico office of the state engineer is located in the same section, range and township. The depth of water in this well was 47' in 1974. SESI has a monitor well installed approximately 3,634 northeast of this site. The depth of water in this well was 69.41' in March of 2007.

IV Soils

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

V. Work Performed

On December 2, 2008 SESI installed two (2) soil borings inside the spill area to determine the vertical extent of contamination. Borehole #1 was drilled to a depth of 30' and Borehole #2 was drilled to a depth of 28'. Samples were retrieved in 5' intervals from both boreholes. All samples were properly preserved and transported under Chain of Custody to Argon Laboratories of Hobbs, New Mexico for analysis. The samples were analyzed for Chlorides (EPA Method 300.0).

The results of the analysis are as follows:

Date	Sample ID	Cl^- (mg/kg)
12/2/08	BH #1-Surface	4600
12/2/08	BH #1-5'	4600
12/2/08	BH #1-10'	4500
12/2/08	BH #1-15'	4200
12/2/08	BH #1-20'	1400
12/2/08	BH #1-25'	900
12/2/08	BH #1-30'	240
12/2/08	BH #2-Surface	56
12/2/08	BH #2-5'	3600
12/2/08	BH #2-10'	1500
12/2/08	BH #2-15'	1000
12/2/08	BH #2-20'	600
12/2/08	BH #2-25'	360

Date	Sample ID	Cl^- (mg/kg)
12/2/08	BH #2-28	180

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

V. Closure Plan

It is requested that the top 3' of soil be excavated from the spill area and transported to an NMOCD approved facility for disposal. The excavation will be lined with a 40-mil impervious liner and backfilled with clean soils. 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
Figure 3 – Logs of Boring
Appendix A – Analytical Results
Appendix B – Site Photos
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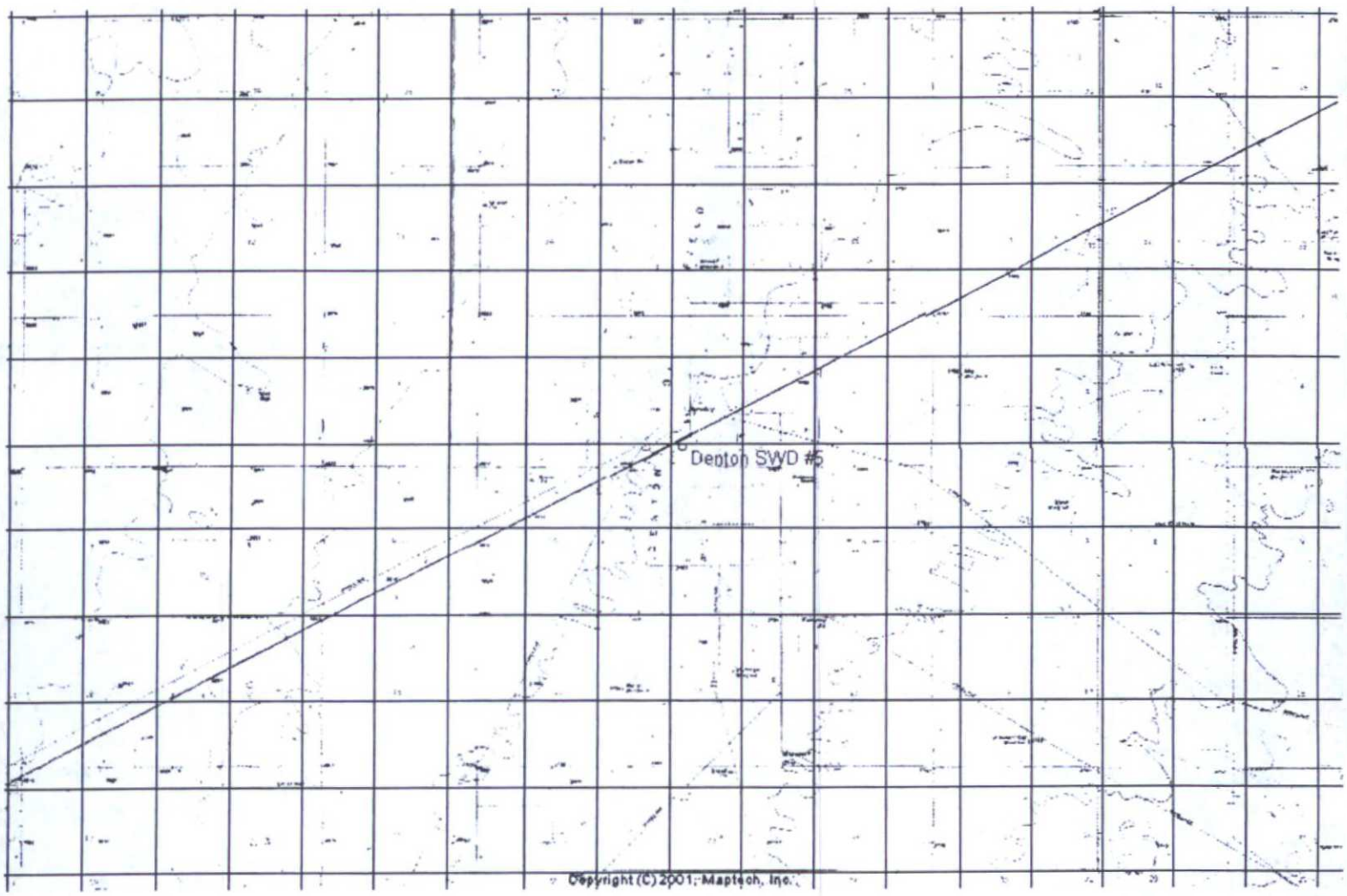
Figure 1
Vicinity Map


Denton SWD #5
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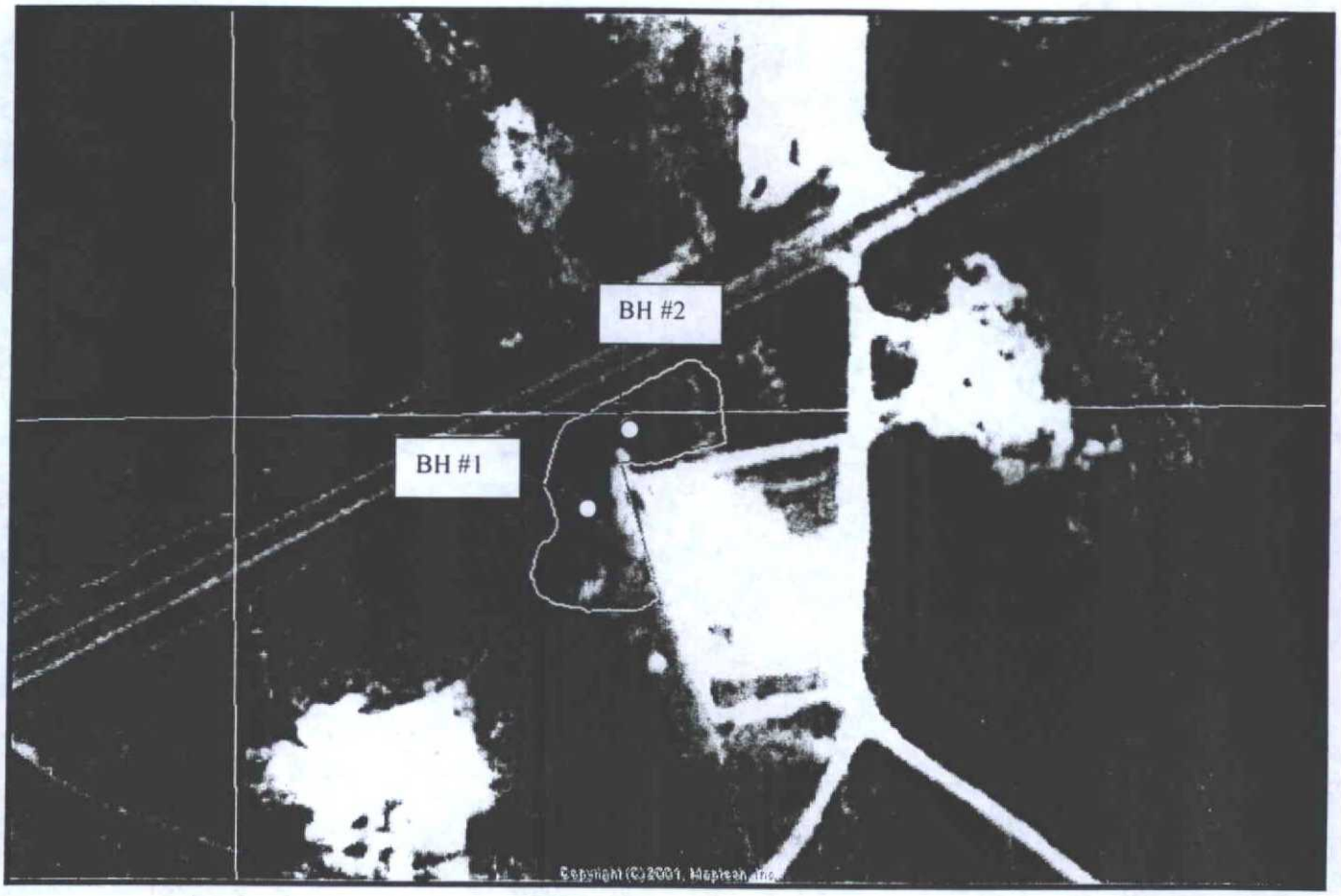
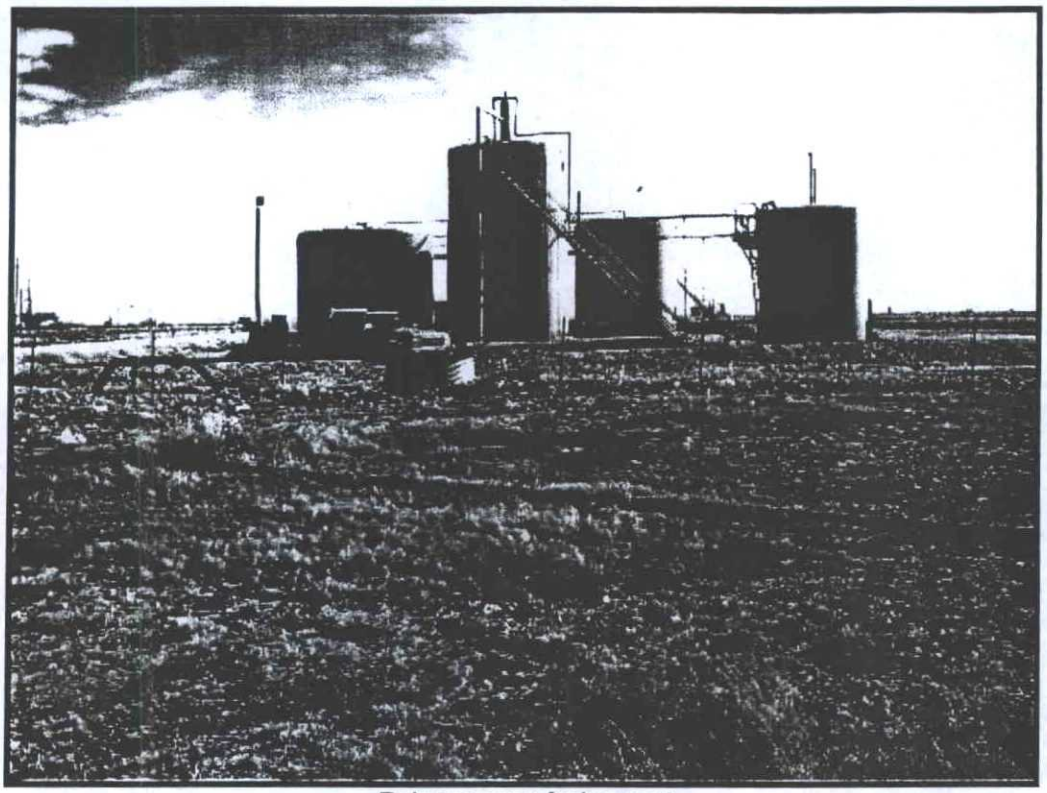

BH #2
BH #1
Copyright (C) 2001, Maptech Inc.

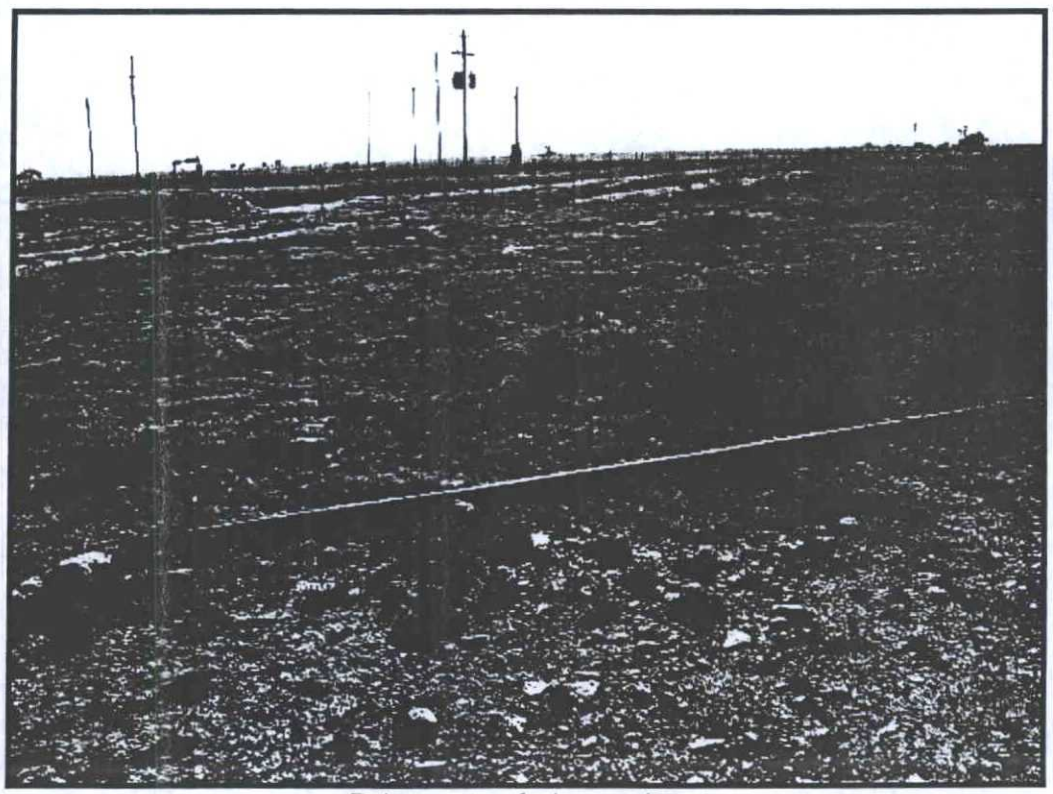
Figure 3
Logs of Boring

Appendix A
Analytical Results

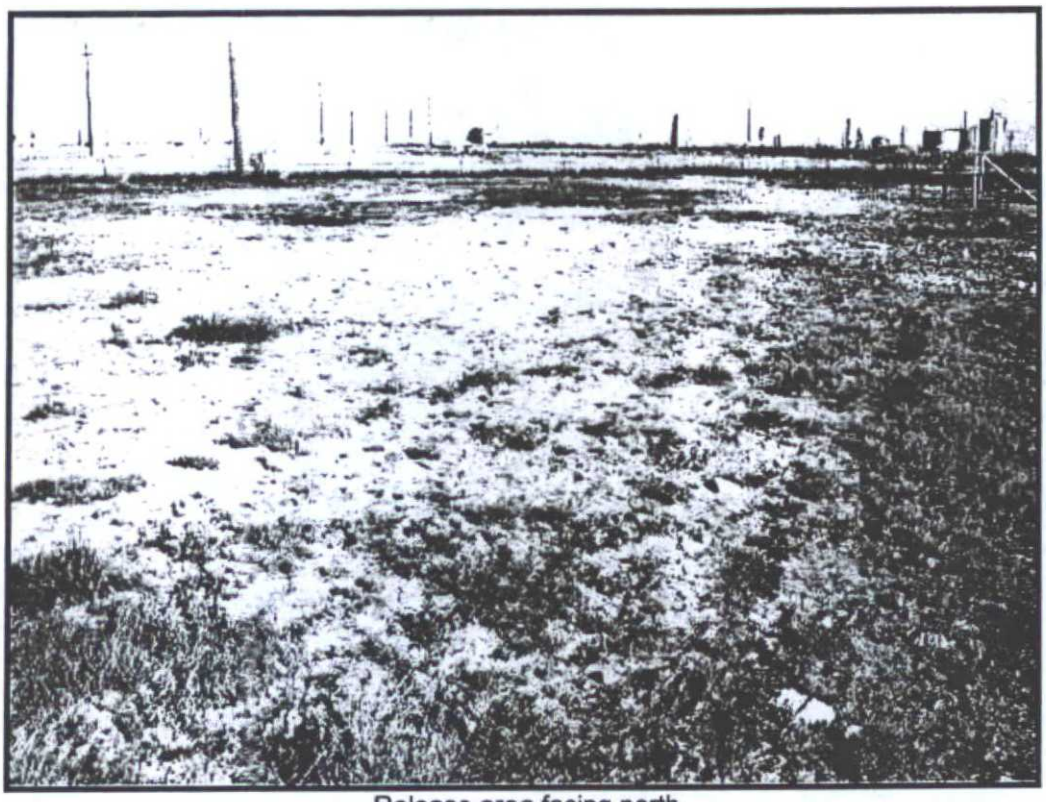
Appendix B
Site Photos



Release area facing east

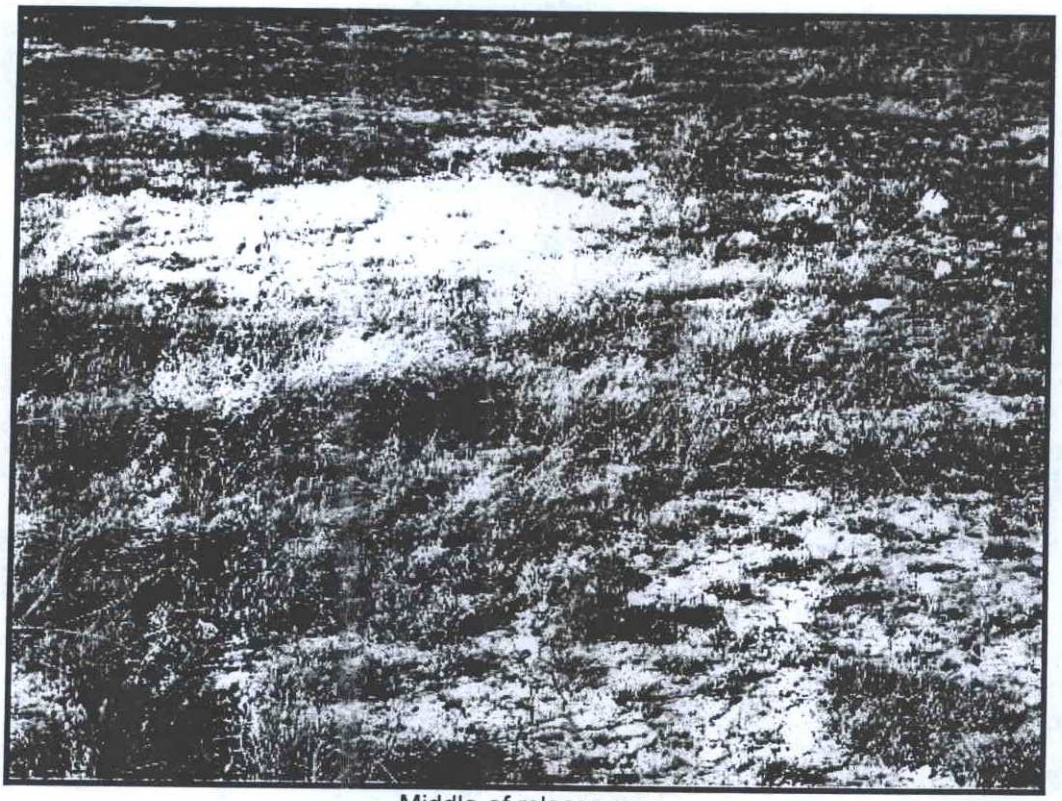


Release area facing southeast

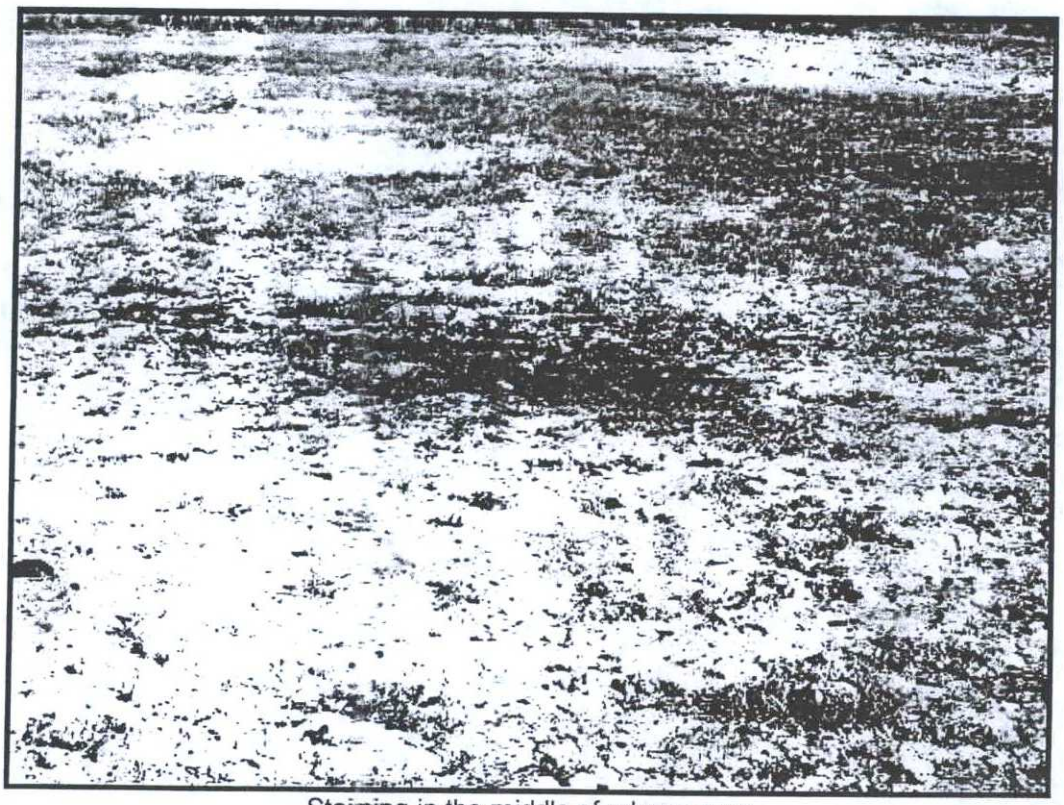


Release area facing north

Release area facing northeast



Middle of release area



Staining in the middle of release area

Release area facing northeast

Release area facing north

Appendix C
C-141