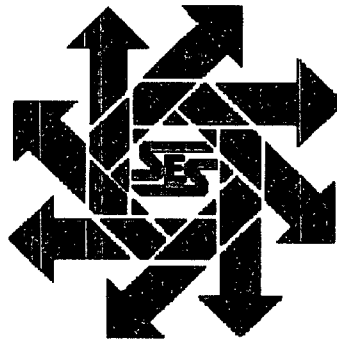


**Navajo Refining Company  
MCA #4 Line Leak  
(Lynx Petroleum Lateral)  
Remediation/Cleanup Work Plan  
Section 16, Township 17S, Range 32E  
Lea County, New Mexico**

**May 8, 2003**

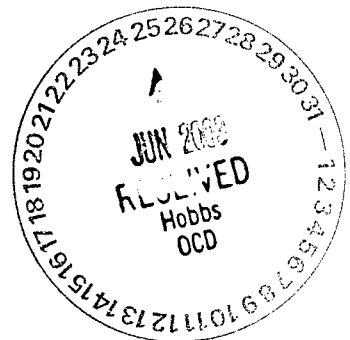


**Prepared for:**

**Navajo Refining Company  
P.O. Box 159  
Artesia, New Mexico 88211**

**By:**

**Safety & Environmental Solutions, Inc.  
703 E. Clinton Suite 102  
Hobbs, New Mexico 88240  
(505) 397-0510**



*Navajo - 94081  
facility - FPAC0603930846  
incident - NPAC0603930930  
application - PPAC0603931079*

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**I. Purpose**

The purpose of this work plan is to propose a plan for the cleanup of the area impacted by the spillage of approximately 23 barrels of produced crude oil from a gathering line associated with production in the area. The subject area is located in Section 16, Township 17S Range 32E in Lea County, New Mexico. This plan will allow closure in a manner that will protect the population, environment and groundwater of the area surrounding the subject location. The site is a relatively level site located on Bureau of Land Management (BLM) land.

**II. Background**

The subject site is adjacent to the west side of County Road 126A.

**III. Contaminant and Size of Area**

The suspected contaminant is crude oil, which leaked from a gathering line associated with production in the area. The approximate size of the impacted area is approximately 800 sq. ft. No evidence of other contaminants was observed.

**IV. Vertical and Horizontal Extent of Contamination**

Vertical and horizontal extent of the contamination will be determined at the time of excavation.

**V. Groundwater**

The nearest groundwater of record with the New Mexico State Engineer's Office is in Section 11 and 12 of 17S, 32E. The depth to water in Section 11 is 105.86 feet. The depth to water in Section 12 is 120.13 feet.

**VI. Action Plan**

*Closure*

Based on visual observations, the cleanup level reached by the application of the "Guidelines for Remediation of Leaks, Spills and Releases" *New Mexico Oil Conservation Division* – August 13, 1993 (Guidelines) to this site is 5000 ppm TPH. Application of the NMOCD's ranking criteria for contaminated soils at this site is presented below.

Depth to Ground Water:	0 points
Distance to Well Head or Water Source:	0 points
Distance to Surface Water/Waterways:	0 points
Total Score:	0 points

The site will be excavated both horizontally and vertically for the removal all highly contaminated and/or saturated soils as defined in the Guidelines. The excavated soils will be blended on-site with adjacent clean soils to a level no greater than 5000 ppm TPH.

The bottom and sides of the excavation will be sampled at the final excavation depths. Field-testing for Total Petroleum Hydrocarbons (TPH) will be performed on soil samples (EPA Method 418.1) using a GAC Mega Total Petroleum Hydrocarbon analyzer. The final samples collected will be preserved on ice and delivered along with Chain of Custody to Cardinal Laboratories, of Hobbs, New Mexico, for testing. Laboratory samples will be analyzed for Total Petroleum Hydrocarbons (EPA Method 600/4-79-020 418.1), BTEX (EPA Method SW-846-8260) and Chlorides (EPA methods 4500-Cl<sup>-</sup>B).

Following the final sampling, the excavation will be backfilled with the blended soils and returned to natural grade. The site will be reseeded with BLM #4.

After completion of the project, the appropriate reports will be filed with the NMOCD in the closure report.

## **VII. Figures & Appendices**

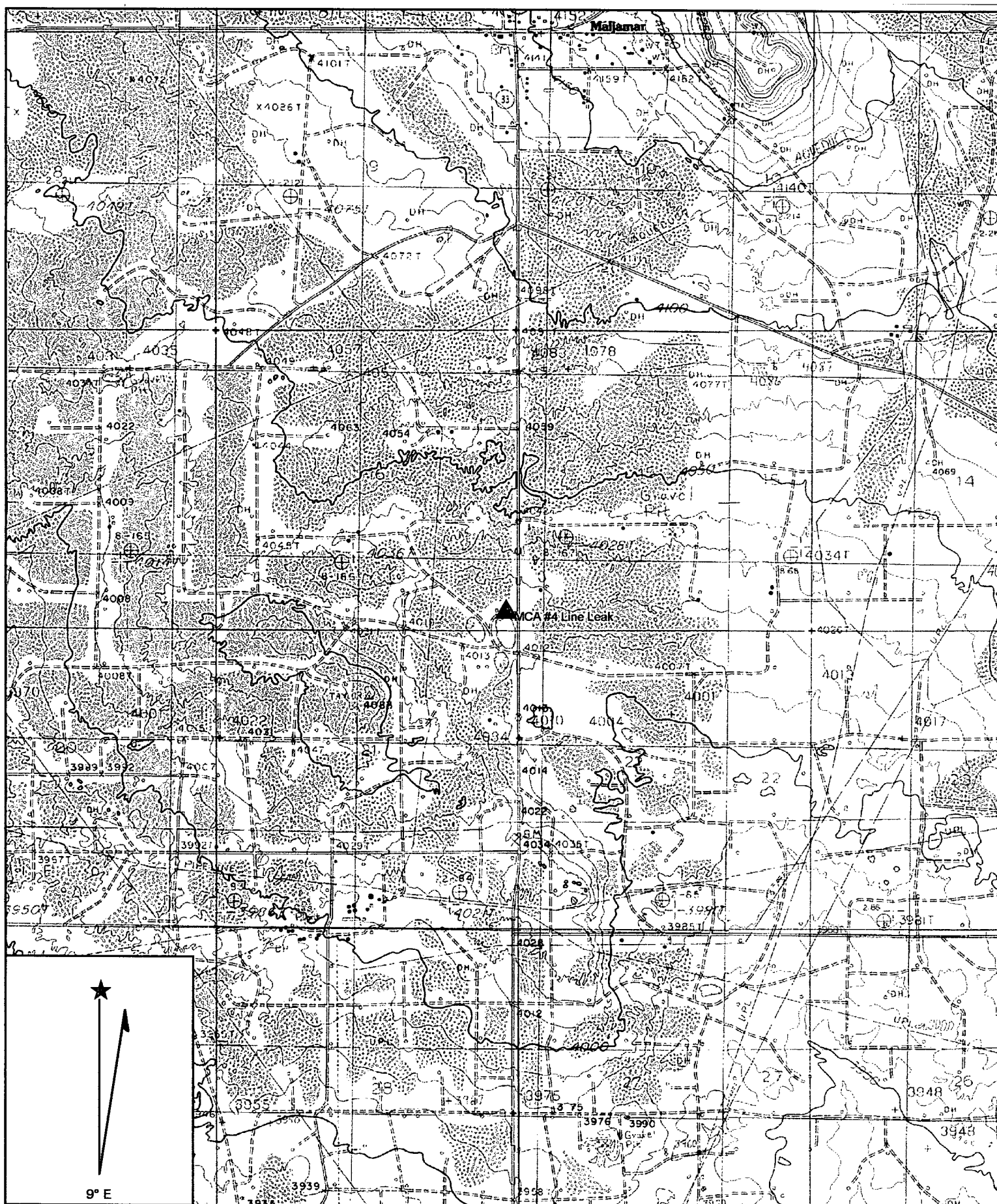
Figure 1. - Vicinity Map

Figure 2. - Site Plan

Appendix A. - C-141

Appendix B. - Site Photos

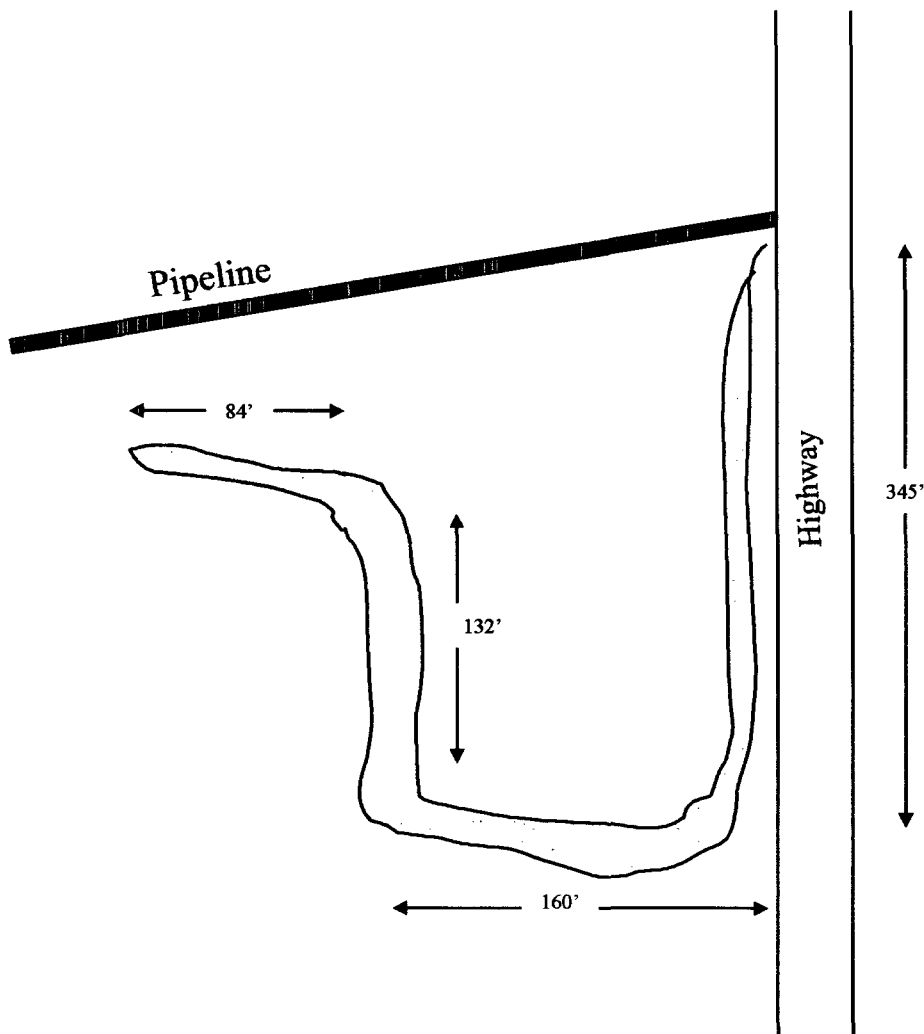
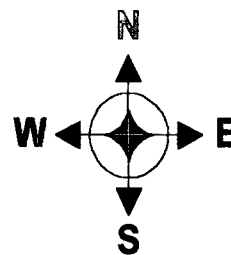
**Figure 1**  
**Vicinity Map**



Name: MALJAMAR  
 Date: 5/9/2003  
 Scale: 1 inch equals 2222 feet

Location: 032° 49' 41.3" N 103° 45' 46.8" W  
 Caption: Navajo Refining Company  
 S16, T17S, 32E  
 Lea County, New Mexico

**Figure 2**  
**Site Plan**



Date 5-08-03  
Not To Scale

**Navajo Refining  
Company**

**MCA #4 Line Leak  
S16, T17S, R32E  
Lea County, New Mexico**

**Safety & Environmental  
Solutions, Inc.**





## **Appendix A**

### **C-141**

**DISTRICT I**  
1625 N. French Dr., Hobbs, NM 88240

**DISTRICT II**  
811 South 1st, Artesia, NM 88211-0718

**DISTRICT III**  
1000 Rio Brazos Rd., Aztec, NM 87410

**DISTRICT IV**  
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals and Natural Resources

FORM C-141  
Revised March 17, 1999

OIL CONSERVATION DIVISION  
2040 South Pacheco  
Santa Fe, New Mexico 87505

Submit 2 copies to appropriate  
District Office in accordance  
with Rule 118 on back  
side of form.

Release Notification and Corrective Action  
OPERATOR

☒ Initial Report ☐ Final Report

Name	Navajo Refining Company	Contact	Dickie Townley
Address	P.O. Box 159, Artesia, New Mexico 88211	Telephone No.	(505) 746-6712
Facility Name	Mitchell Mainline	Facility Type	Pipeline
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
	16	17S	32E					Lea

NATURE OF RELEASE

Type of Release	Crude Oil	Volume of Release	23 bbls	Volume Recovered	18 bbls
Source of Release	Lynx Petrol Lateral	Date & Hour of Occurrence	1/23/03 77777	Date & Hour of Discovery	1/23/2003 8:30
Was Immediate Notice Given?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not required	If YES, to whom?			
By Whom?	Date & 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. * NONE					

Describe Cause of Problem and Remedial Action Taken. \* The cause of the leak was external corrosion. The pipe was cut, drained (vacuumed), and taken out of service.

\* The source is in casing under the pavement (This prompted us to drain the line & take it out of service)

Describe Area Affected and Cleanup Action Taken. \* The affected area 150 yds long 2 ft wide forming 3 pools 20' x 20'. The standing oil was vacuumed up. The saturated area will be tested for saturation depth and a determination made as to the best remediation method.

Maps attached

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 poses 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.

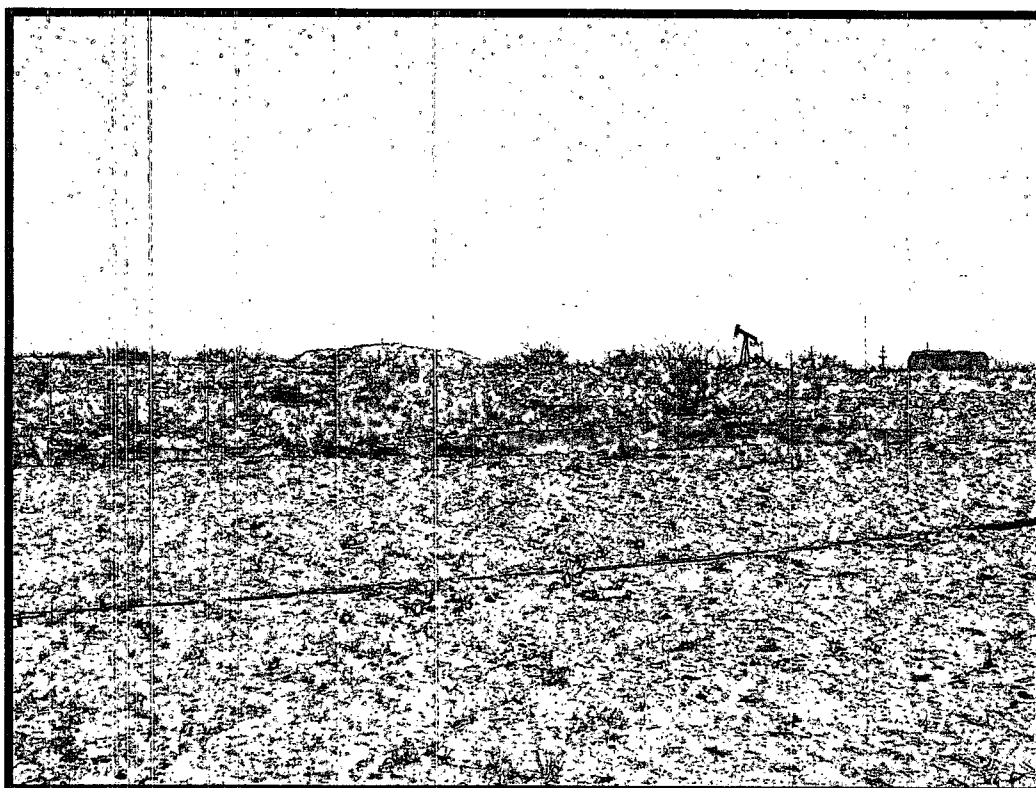
Signature: <i>Dickie Townley</i>	OIL CONSERVATION DIVISION	
Printed Name: Dickie Townley	Approved By:	
Title: Regulatory Coordinator	District Supervisor:	
Date: 1/31/2003	Approval Date:	Expiration Date:
Phone: (505) 746-6712	Conditions of Approval:	Attached

\* Attach Additional Sheets if Necessary

2-3-03  
Cert. Mail 7001-0320-0002-8432-2552

## **Appendix B**

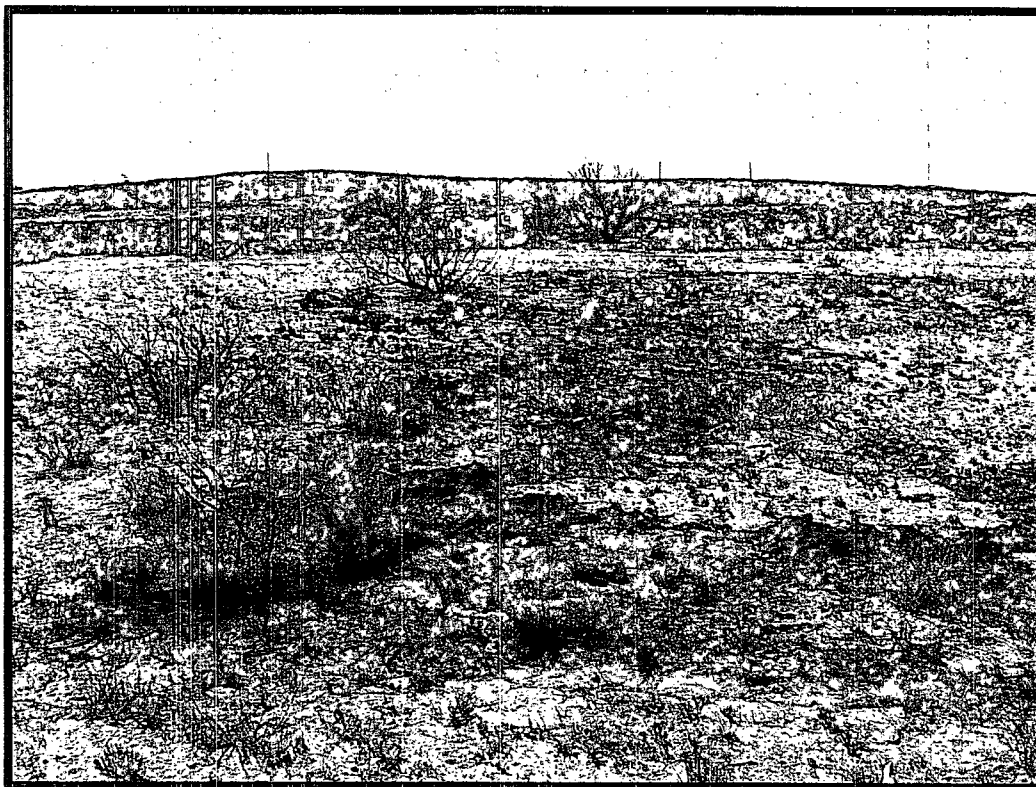
## **Site Photos**



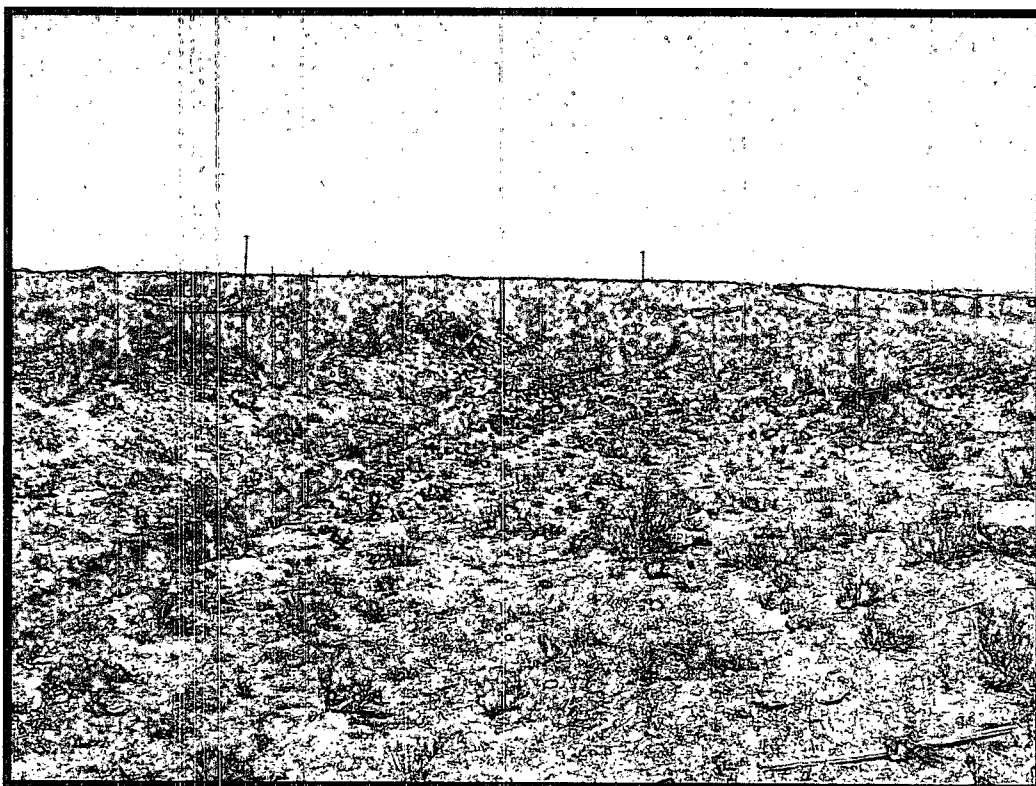
Bottom Run Area Looking East



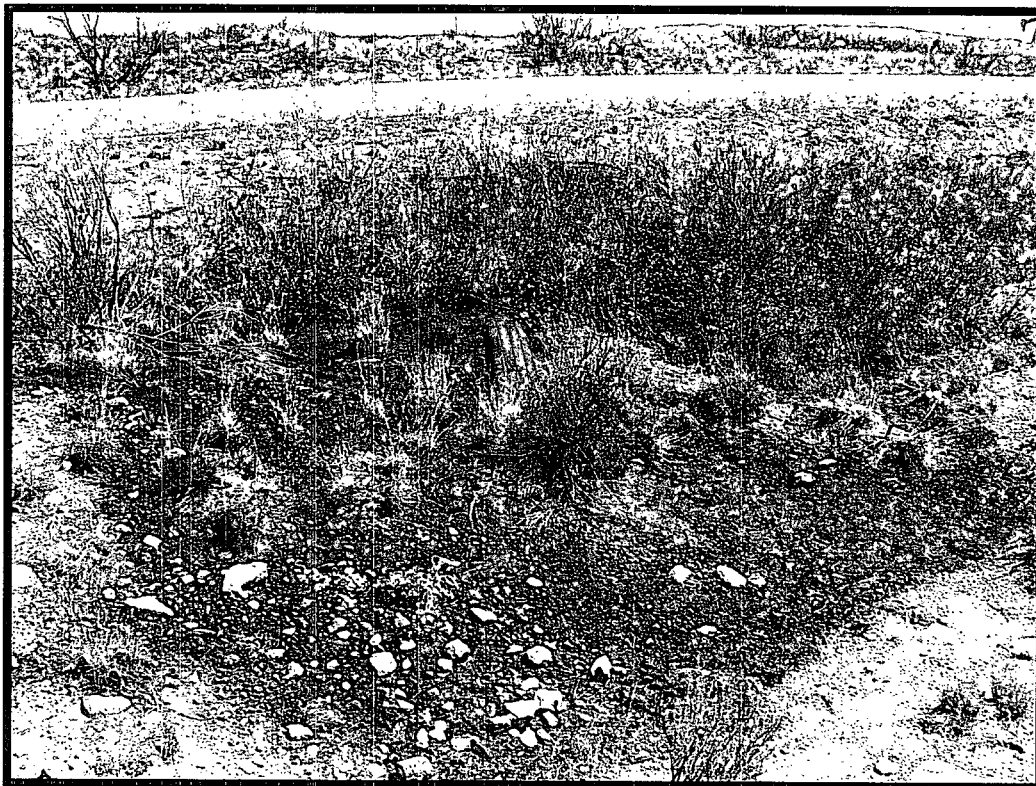
Western-most Extent



Run Area Looking West



Run Area Along Highway



Leak Source



Run Area Along Highway Looking South