Range Operating New Mexico, Inc. Greenwood Battery Section 9, Township 22S, Range 37E Lea County, New Mexico

Closure Report

July 27, 2009



Prepared for:

Range Operating New Mexico, Inc. 281 North New Mexico Highway 248 PO Box 1570 Eunice, New Mexico 88231

By:

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

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I. Company Contacts

NAME Company		Telephone	E-mail
Steve Almager	Range Operating NM, Inc.	575-394-1485	salmager@rangeresources.com
Sergio Contreras	SESI	575-397-0510	scontreras@sesi-nm.com

II. Background

Safety and Environmental Solutions, Inc. (SESI) was engaged by Range Operating NM, Inc. to perform a site assessment at the Greenwood Battery. This is an active battery located in Section 9, Township 22 South, Range 37 East. On June 26, 2009 an over pressured flowline spilt releasing an unknown amount of produced fluids.

III. Surface and Ground Water

According the database provided by the Office of State Engineer (OSE) online database, the average depth of water in this area is 94'.

IV. Work Performed

On June 26, 2009, SESI was onsite to map the affected area. The area was mapped using a Trimble Geo XM GPS. SESI observed overspray to the North of the battery with minor staining to vegetation and soil. Produced fluid ran off location and mixed with rain water on lease road. Two (2) vacuum trucks were utilized to recover 200 barrels of produced fluid, which included the standing rain water on the lease road.

SESI utilized a hand auger to attempt to delineate the spill area at the release point. Auger refusal was encountered at a depth of 3'7" below ground level (bgl) due to the hard caliche layer. Grab samples were collected and transported under chain of custody to Cardinal Laboratories of Hobbs New Mexico, for analysis. In compliance to the New Mexico Oil Conservation Division (NMOCD) set of required sampling conditions, the samples were analyzed for Chlorides (EPA Method 4500-Cl¯B), Total Petroleum Hydrocarbons (EPA Method 418.1), and Benzene, Toluene, Ethyl Benzene, and Xylenes (BTEX) (EPA Method SWA-846 8021 B).

The results are as follows:

Sample ID	Chlorides (mg/kg)	TPH (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl Benzene (mg/kg)	Xylenes (mg/kg)
AH#1 1' BGL	272	<100	<0.050	0.063	<0.050	<0.300
AH#1 2' BGL	432	949	<0.050	<0.050	0.117	0.309
AH#1 3' BGL	384	<100	<0.050	<0.050	<0.050	<0.300
AH#1 3'7" BGL	448	-	+	-	-	_

On July 1, 2009, SESI was onsite with Environmental Plus Inc (EPI). A test trench was installed in the center of the pooling area, the release point (See Figure 2). Grab samples were collected at 1' intervals from within the trench 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 lab analysis are as follows:

Sample ID	Chlorides (mg/kg)
TT#1 4' BGL	624
TT#1 5' BGL	352
TT#1 6' BGL	336
TT#1 7' BGL	48

Based upon the analytical results, the vertical extent of TPH contamination was determined at a depth of 7'. Therefore, the entire pooling area was excavated to a depth of 7' bgl.

The overspray area surrounding the pooling area was excavated from a depth of 6" to 12" bgl. Grab samples were collected from the excavated areas and transported under chain of custody to Cardinal Laboratories for analysis. The samples were analyzed for Chlorides (EPA Method 300.0), Total Petroleum Hydrocarbons (EPA Method 418.1), and BTEX (EPA Method SWA-846 8021B).

The results of the lab analysis are as follows:

Sample ID	Chlorides (mg/kg)	TPH (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl Benzene (mg/kg)	Xylenes (mg/kg)
SP#2 1' BGL	64	<100	<0.050	<0.050	<0.050	<0.300
SP#3 1' BGL	48	155	<0.050	<0.050	< 0.050	< 0.300
SP#4 Surface	64	422	<0.050	< 0.050	< 0.050	<0.300
SP#4 6" BGL	-	<100	-	-	-	-
SP#5 Surface	<16	<100	<0.050	<0.050	<0.050	< 0.300
SP#6 1' BGL	32	<100	<0.050	<0.050	<0.050	<0.300

On July 2, 2009 SESI was onsite. Composite samples were collected from each of the walls and from the bottom of the test trench. Field analysis indicated the chloride levels to be below 250 ppm. Comparative samples were collected 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 lab analysis are as follows:

Sample ID	Chlorides (mg/kg)
West Wall	16
North Floor	32
Floor 7' BGL	32
South Wall	16
East Wall	192

On July 6-7, 2009, SESI was onsite with EPI. A total of 378 yards of contaminated soil was transported to Sundance Services, a New Mexico Oil Conservation Division (NMOCD) approved facility for disposal. The pooling area was then backfilled to 3' bgl with a total of 112 yards of caliche, then from 3' bgl to surface with 238 yards of topsoil. The excavated overspray areas were also backfilled with topsoil and contoured to grade.

V. Conclusion

It is requested that no further action be required.

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

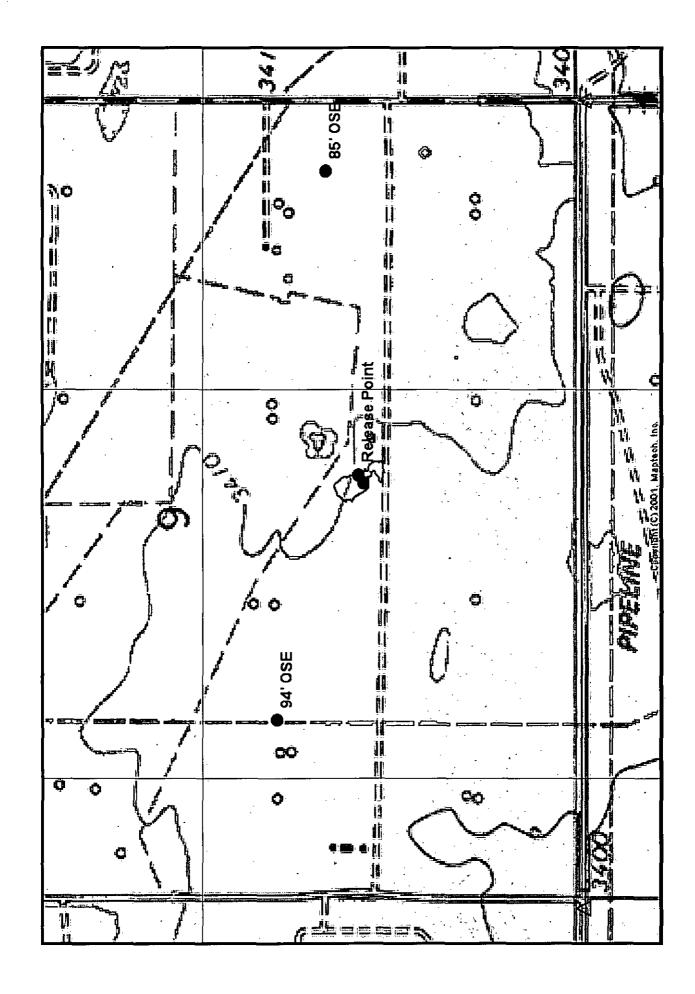
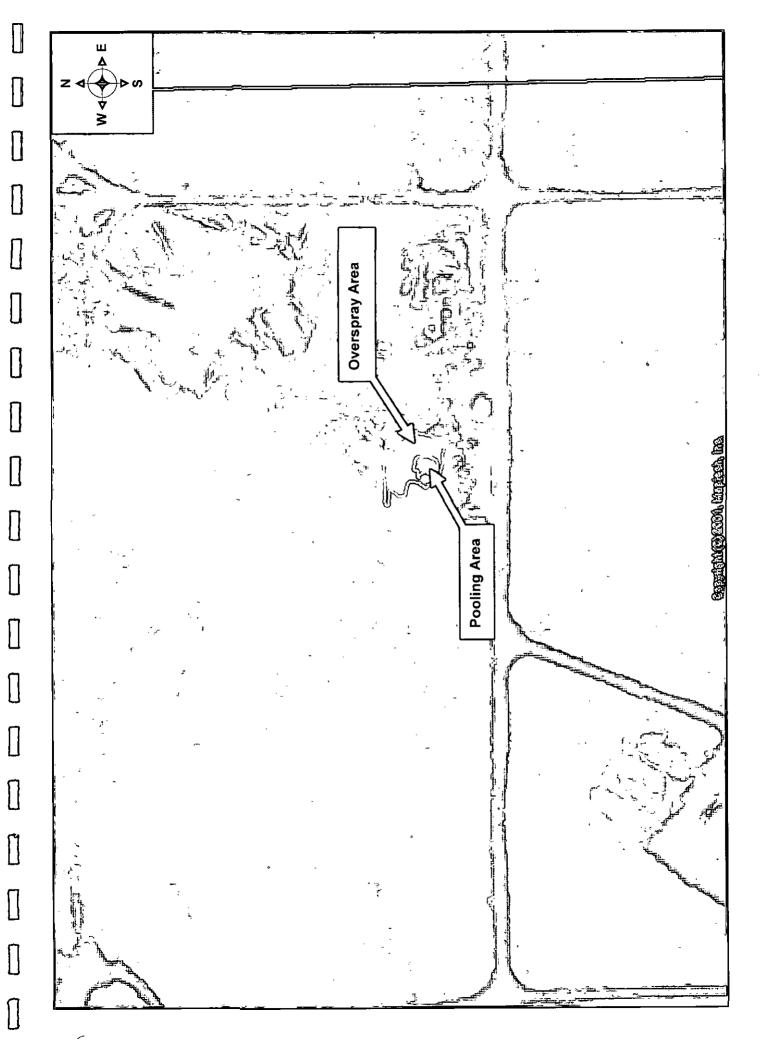
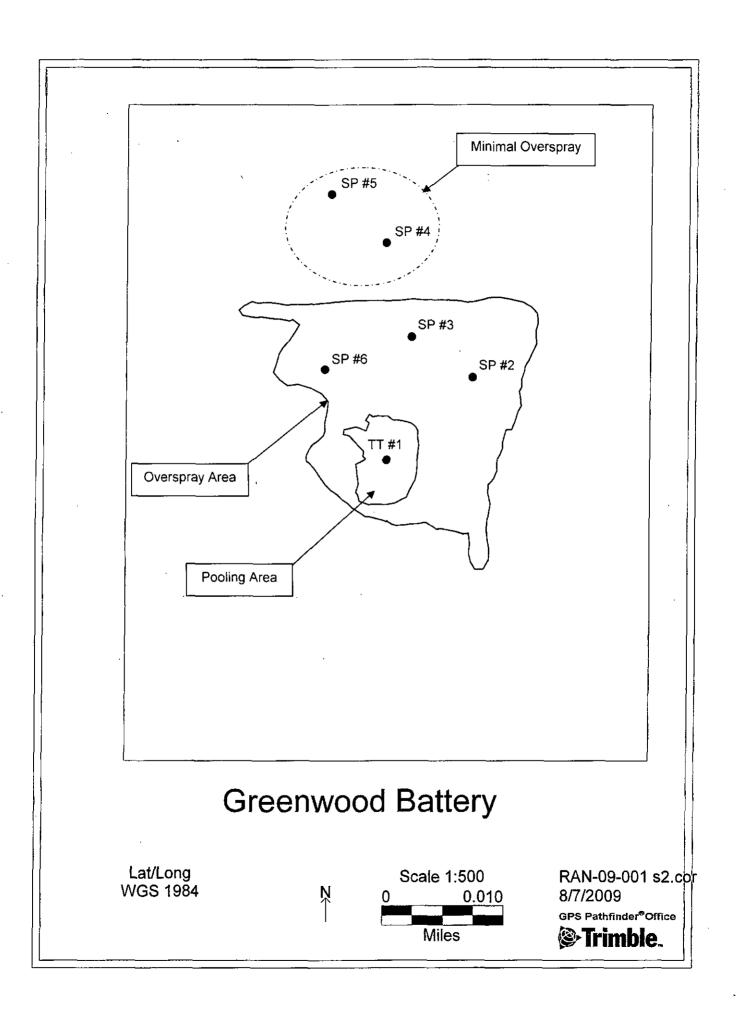


Figure 2 Site Plan





Appendix A Analytical Results



SAFETY & ENVIRONMENTAL SOLUTIONS, INC.

ATTN: BOB ALLEN 703 E. CLINTON, #102 HOBBS, NM 88241 FAX TO: (575) 393-4388

Receiving Date: 07/02/09

Reporting Date: 07/03/09

Project Number: RAN-09-001

Project Name: GREENWOOD BATTERY

Project Location: EUNICE, NM

Sampling Date: 06/26/09, 07/01/09 & 07/02/09

Sample Type: SOIL

Sample Condition: COOL & INTACT @ 5°C

Sample Received By: AB

Analyzed By: HM

	•	CI*
LAB NUMBER	SAMPLE ID	 (mg/kg)

	 	1 3 37	
ANALYSIS D		07/02/09	
H17747-1	AH#1. 1' BGL	272	
H17747-2	AH#1. 2' BGL	432	
H17747-3	AH#1. 3' BGL	384	
H17747-4	AH#1, 3' 7" BGL	448	
H17747-5	TT#1. 4' BGL	624	
H17747-6	TT#1. 5' BGL	352	
H17747-7	TT#1. 6' BGL	336	
H17747-8	TT#1. 7' BGL	48	
H17747-9	SP#2. 1' BGL	64	
H17747-10	SP#3, 1' BGL	48	
H17747-11	SP#4. SURFACE	64	
H17747-12	SP#5. SURFACE	<16	
H17747-13	SP#6. 1' BGL	32	
H17747-14	WEST WALL	16	
H17747-15	NORTH WALL	32	
H17747-16	FLOOR 7' BGL	32	
H17747-17	SOUTH WALL	16	
H17747-18	EAST WALL	192	
Quality Contro	ol ·	500	
True Value Q0	500 100		
% Recovery	% Recovery		
Relative Perce	<0.1		

METHODS: CI-Std. Methods 4500-CIB

*Analyses performed on 1:4 w;v aqueous extracts. Chloride is not

NELAP accredited.

Chemist

H17747 CL SESI

<u>07/03/09</u>

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SAFETY & ENVIRONMENTAL SOLUTIONS, INC.

ATTN: BOB ALLEN 703 E. CLINTON, #102 HOBBS, NM 88240 FAX TO: (575) 393-4388

Receiving Date: 07/02/09

Reporting Date: 07/06/09

Project Number: RAN-09-001

Project Name: GREENWOOD BATTERY

Project Location: EUNICE, NM

Sampling Date: 06/26/09, 07/01/09 & 07/02/09

Sample Type: SOIL

Sample Condition: COOL & INTACT @ 5 °C

Sample Received By: AB

Analyzed By: ZL

LAB NO.	SAMPLE ID	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)
ANALYSIS I	DATE:	07/03/09	07/03/09	07/03/09	07/03/09
H17747-1	AH#1. 1' BGL	<0.050	0.063	<0.050	<0.300
H17747-2	AH#1. 2' BGL	<0.050	<0.050	0.117	0.309
H17747-9	SP#2. 1' BGL	<0.050	<0.050	<0.050	<0.300
H17747-10	SP#3. 1' BGL	<0.050	<0.050	<0.050	<0.300
H17747-11	SP#4. SURFACE	<0.050	<0.050	<0.050	<0.300
H17747-12	SP#5. SURFACE	<0.050	<0.050	<0.050	<0.300
H17747-13	SP#6. 1' BGL	<0.050	<0.050	<0.050	<0.300
Quality Cont	rol	0.054	0.054	0.057	0.163
True Value (JC .	0.050	0.050	0.050	0.150
% Recovery		108	108	114	109
Relative Per	cent Difference	3.6	3.7	1.7	3.7
METHODS	RTEY - SIM-846 8021R		<u> </u>		

METHODS: BTEX - SW-846 8021B

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

AND TOTAL ATLENES. Reported on wet weight

Chemist

Date

H17747 BTEX SESI

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SAFETY & ENVIRONMENTAL SOLUTIONS, INC.

ATTN: BOB ALLEN 703 E. CLINTON, #102 HOBBS, NM 88240 FAX TO: (575) 393-4388

Receiving Date: 07/02/09

Reporting Date: 07/06/09

Project Number: RAN-09-001

Project Name: GREENWOOD BATTERY

Project Location: EUNICE, NM

Analysis Date: 07/06/09

Sampling Date: 06/26/09, 07/01/09, & 07/02/09

Sample Type: SOIL

Sample Condition: COOL & INTACT @ 5°C

Sample Received By: AB

Analyzed By: AB

418.1 LAB NUMBER SAMPLE ID TPH (mg/kg)

AH#1. 1' BGL	<100			
AH#1. 2' BGL	949			
SP#2. 1' BGL	<100			
SP#3. 1' BGL	155			
SP#4. SURFACE	422			
SP#5. SURFACE	<100			
SP#6, 1' BGL	<100			
	326			
	300			
% Recovery				
nt Difference	3.7			
	AH#1. 2' BGL SP#2. 1' BGL SP#3. 1' BGL SP#4. SURFACE SP#5. SURFACE SP#6. 1' BGL			

METHOD: EPA 418.1. Reported on wet weight. Not accredited

through NELAP for TPH 418.1

Chemist

Date

07/06/09



SAFETY & ENVIRONMENTAL SOLUTIONS, INC.

ATTN: BOB ALLEN 703 E. CLINTON, #102 HOBBS, NM 88240 FAX TO: (575) 393-4388

Receiving Date: 07/02/09 Reporting Date: 07/10/09 Project Number: RAN-09-001

Project Name: GREENWOOD BATTERY

Project Location: EUNICE, NM

Analysis Date: 07/09/09 Sampling Date: 06/26/09 Sample Type: SOIL

Sample Condition: COOL & INTACT @ 5°C

Sample Received By: ML

Analyzed By: AB

LAB NUMBER SAMPLE ID TPH (mg/kg)

H17747-3	AH#1. 3' BGL	<100
<u> </u>		
·		
<u>.</u>	<u> </u>	,
Quality Control		320
True Value QC	· · · · · · · · · · · · · · · · · · ·	300
% Recovery		107
Relative Percent	Difference	6.5

METHOD: EPA 418.1. Reported on wet weight. Not NELAP accredited for 418.1 TPH.

Chemist

Date



SAFETY & ENVIRONMENTAL SOLUTIONS, INC.

ATTN: BOB ALLEN 703 E. CLINTON, #102 HOBBS, NM 88240 FAX TO: (575) 393-4388

Receiving Date: 07/02/09

Reporting Date: 07/06/09

Project Number: RAN-09-001

Project Name: GREENWOOD BATTERY Project Location: EUNICE, NM

Sampling Date: 06/26/09

Sample Type: SOIL

Sample Condition: COOL & INTACT @ 5 °C

Sample Received By: AB

Analyzed By: ZL

LAB NO.	SAMPLE ID	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)
ANALYSIS	DATE:	07/03/09	07/03/09	07/03/09	07/03/09
H17747-3	AH#1. 3' BGL	<0.050	<0.050	<0.050	<0.300
Quality Cont	trol	0.057	0.052	0.05	0.156
True Value (QC	0.050	0.050	0.050	0.150

114

<0.1

METHODS: BTEX - SW-846 8021B

Relative Percent Difference

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

Chemis

% Recovery

104

2.0

100

2.0

104

0.7

H17747-3 BTEX SESI

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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SAFETY & ENVIRONMENTAL SOLUTIONS, INC.

ATTN: BOB ALLEN 703 E. CLINTON, #102 HOBBS, NM 88240 FAX TO: (575) 393-4388

Receiving Date: 07/13/09

Reporting Date: 07/13/09

Project Owner: RANGE OPERATING (RAN-09-001)

Project Name: GREENWOOD BATTERY

Project Location: EUNICE, NM

Analysis Date: 07/13/09

Sampling Date: 07/13/09 Sample Type: SOIL

Sample Condition: COOL & INTACT @ 5.5°C

Sample Received By: ML

Analyzed By: AB

418.1

LAB NUMBER SAMPLE ID

TPH (mg/kg)

H17794-1 S	P#4. 6" BGL	′ <100
H17794-2 S	P# 9 . 1' BGL	<100
Quality Control	· <u>,-</u>	326
True Value QC		300
% Recovery		109
Relative Percent Dif	ference	3.6

METHOD: EPA 418.1. Reported on wet weight.

Chemist

Date

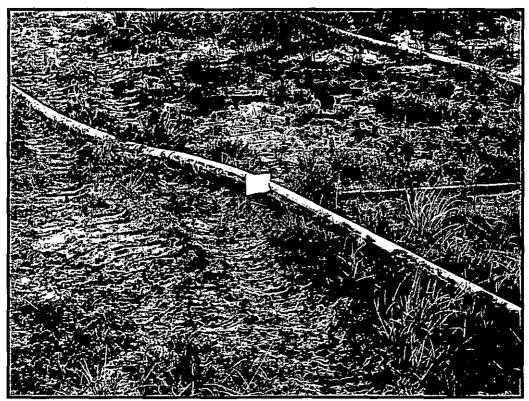
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ARDINAL LABORATORIES, INC.

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Tomp, C Intact? Buch claim is break upon any of the above SPOORS ange Oper. Received By: (Lab Staff) † Cardinal cannot accept verbal changes. Please fax written changes to (915) 673-7020. 710 MATRIX Nosir SOLUTIONS (505) 393-4388 Тоща, "С .zip: 88240 MASTEWATER 65% яэтамаичоя Received 4MO(0) 80 8AR(8) 2111 Beechwood, Abllene, TX 79603 (915) 673-7001 Fax (915) 673-7020 SAFETY & ENVIRONMENTAL 8 Project Owner: State: NM Bathers Fax# Time: Time: D Re #102 ₹ 2 Sample I.D. 703 E.CLINTON, (505) 397-0510 Bob Allen Project Name: (Freen Wood Projects: RAN-U9-00 (Sampler - UPS - Bus - Other: Delivered By: (Circle One) Sampler Relinquished Project Manager: CIN: HOBBS Project Location: Company Name: Sampler Name: Rallnquished By: FOR LAB USE ONLY H17794. Lab I.D. Address:

Appendix B Site Photos



Auger Hole #1 Facing West



Impacted Area Facing NW



Impacted Area Facing North



Impacted Area Facing North



Excavating Test Trench Facing West



Impacted Area Facing West



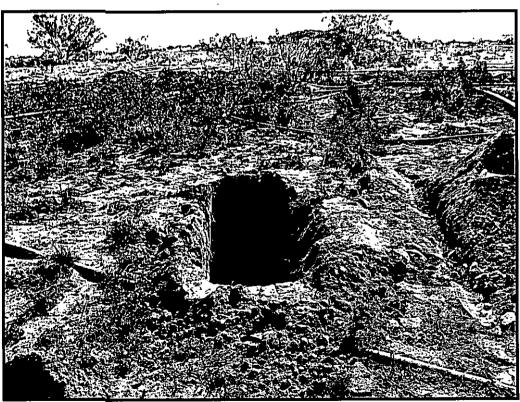
Impacted Area Facing NW



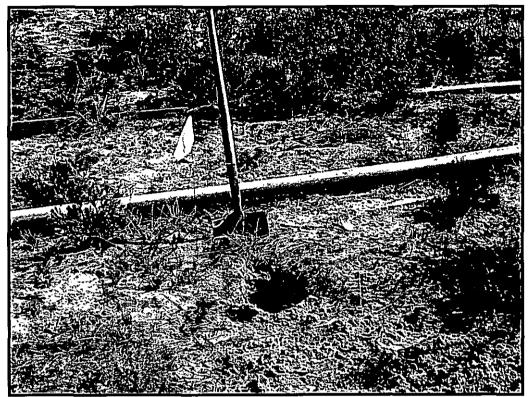
Run Off Area on Location Pad



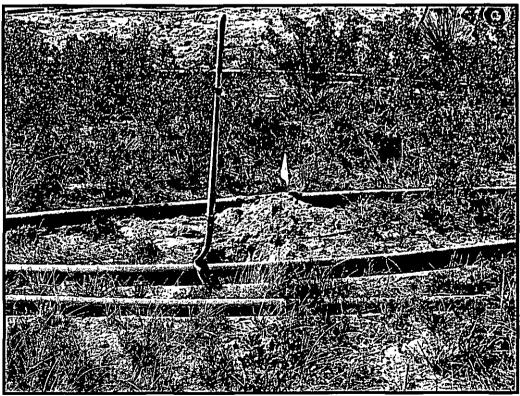
Run Off Area on Location Pad and Edge of Road



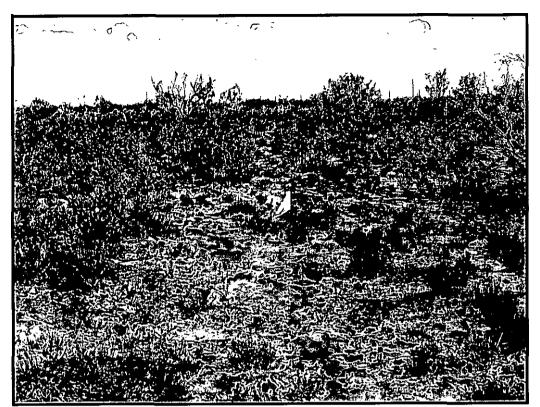
Test Trench #1



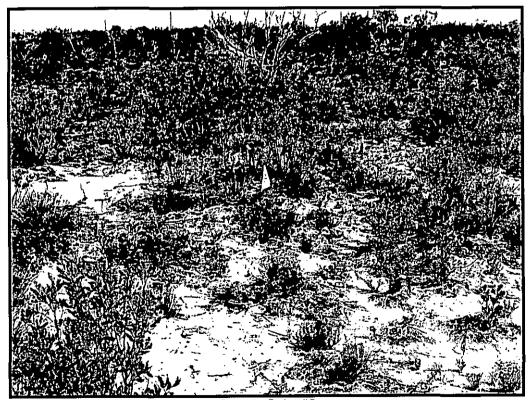
Sample Point #2



Sample Point #3



Sample Point #4



Sample Point #5



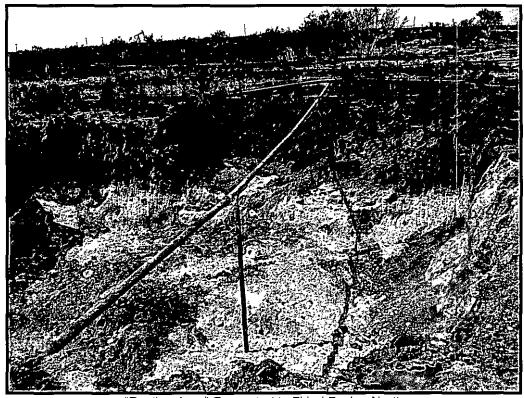
Excavating "Pooling Area" Facing West



Excavating "Pooling Area" Facing East



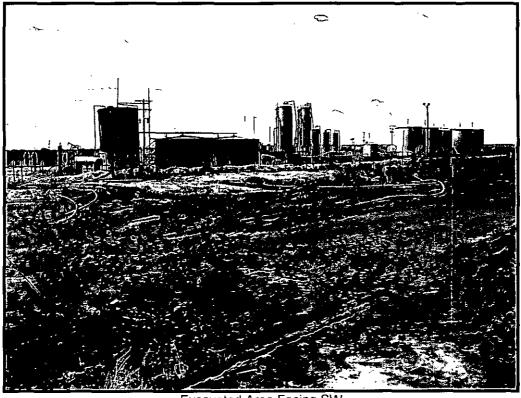
"Pooling Area" Excavated to 7' bgl Facing North



"Pooling Area" Excavated to 7' bgl Facing North



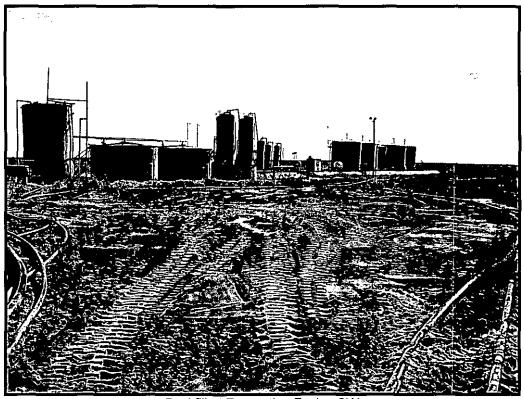
Excavated Area Facing West



Excavated Area Facing SW



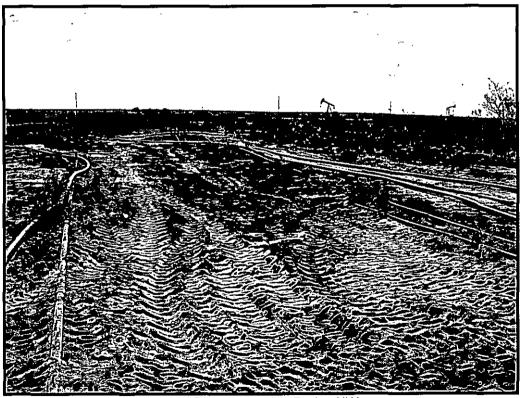
Excavated Area Facing South



Backfilled Excavation Facing SW



Backfilled Excavation Facing West



Backfilled Excavation Facing NW

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