# Range Operating New Mexico, Inc. SCB #3 Battery Section 23, Township 23 South, Range 28 East Eddy County, New Mexico

#### **Delineation Report/ Work Plan**

February 19, 2011



#### Prepared for:

Range Operating New Mexico, Inc. 281 North New Mexico Highway 248/ P.O. 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

Representative	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 SCB #3 Battery. This is an active battery located in Section 23, Township 23 South, and Range 28 East. Pump failure with vibrated union loose and release 250 BBLS of produced fluids and recovered 210 BBLS of produced fluids.

On September 24, 2009, SESI conducted a background sampling investigation to determine the chloride concentrations of the surrounding area. Soil samples were collected from the adjacent fields at the Range 4B, 23-11 and 23-7 locations. A water sample was also collected from and irrigation system in the adjacent field from the Range 23-6 location. The samples were transported under chain of custody to Cardinal Labs of Hobbs, New Mexico for Chloride (Method 4500-Cl¯B).

The results of the analysis are as follows:

Sample ID	Cl (ppm)
4B	6,320
23-11	3,280
23-7	8,000
23-6	3,040

#### III. Surface and Ground Water

According to the temporary monitor well installed on August 18, 2009 located in the northwest corner of the South Culebra 23 Well #7 location, the depth to water is estimated to be approximately 28' below ground level (bgl) accounting for an increase of 8' in elevation at the SCB #3 Battery.

#### IV. Work Performed

On January 27, 2011, SESI was onsite to assess the affected area. The area was mapped using a Trimble Geo XM GPS. SESI observed that the release had stayed inside active battery.

On February 19, 2011, SESI was onsite with M&J Backhoe Services to attempt to delineate the spill area. A total of two (2) test trenches were installed to a depth of 6'bgs within the affected area. Due to the numerous lines inside battery berm walls and possible buried lines at 6'bgs, the affected area was unable to be fully delineated.

Samples were collected at 1'bgs, 3'bgs, and 6'bgs in each test trenches. The samples were transported under chain of custody to Cardinal Laboratories of Hobbs, New Mexico for Chloride (EPA Method 4500-Cl¯B), Total Petroleum Hydrocarbons (TPH EPA Method

418.1), and Benzene, Toluene, Ethyl Benzene, and Total Xylenes (BTEX EPA Method 8021B).

The results of the analysis are as follows:

Sample ID	CI (mg/kg)	TPH (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl Benzene (mg/kg)	Total Xylenes (mg/kg)
TT #1 1'bgs	1,920	6,660	<0.050	<0.050	<0.050	<0.150
TT #1 3'bgs	1,520	2,700	<0.050	<0.050	<0.050	<0.150
TT #1 6'bgs	2,200	<100	<0.050	<0.050	<0.050	<0.150
TT #2 1'bgs	24,400	<100	<0.050	<0.050	<0.050	<0.150
TT #2 3'bgs	25,200	<100	<0.050	<0.050	<0.050	<0.150
TT #2 6'bgs	7,600	<100	<0.050	<0.050	<0.050	<0.150

#### V. Action Plan

This is an active tank battery and it is requested that the affected area be excavated to a depth of 1' below ground surface and disposed of at a New Mexico Oil Conservation Division (NMOCD) approved facility. The area will then be backfilled with fresh caliche. The operator is aware that at such time the tank battery becomes inactive further action may be required; a full remediation plan will then be submitted.

#### VI. Figures & Appendices

Figure 1 – Vicinity Map

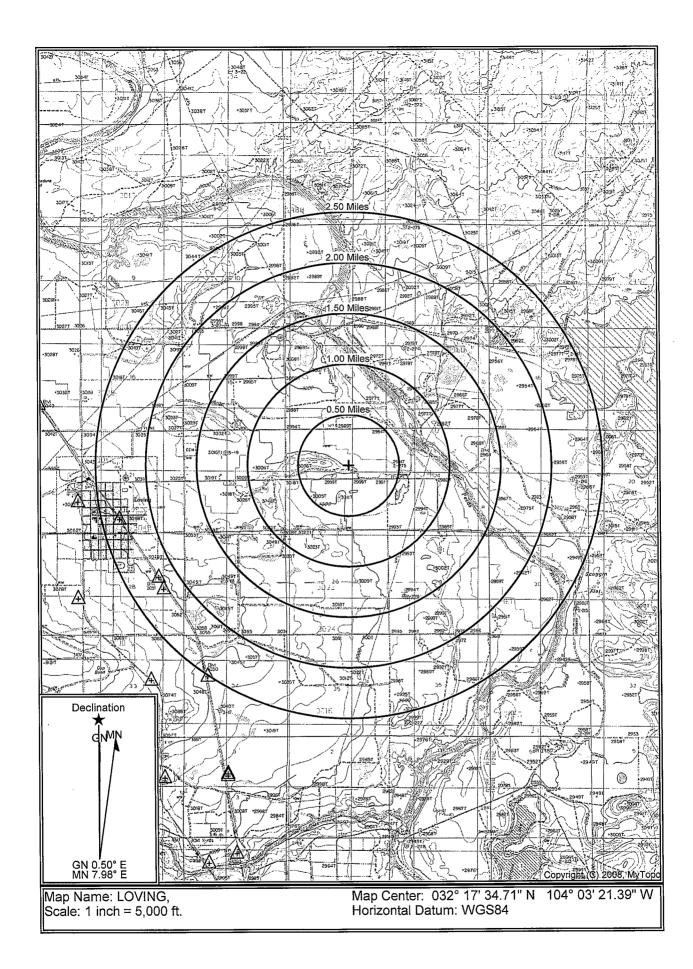
Figure 2 – Site Plan

Appendix A – Analytical Results

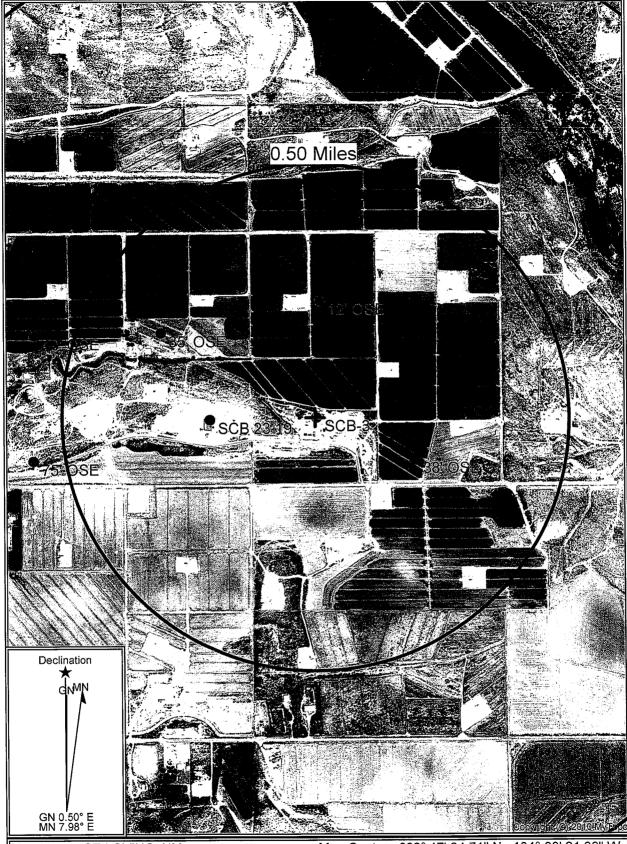
Appendix B -Site Photos

Appendix C - C-141

# Figure 1 Vicinity Map



# Figure 2 Site Map



Map Name: SE LOVING, NM Scale: 1 inch = 1,000 ft.

Map Center: 032° 17' 34.71" N 104° 03' 21.39" W Horizontal Datum: WGS84

# Appendix A Analytical Results



February 15, 2011

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: RAN-11-002

Enclosed are the results of analyses for samples received by the laboratory on 02/10/11 16:50.

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 Hydorcarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accreditated 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 524.4

Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

Celey D. Keine



Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

Fax To:

(575) 393-4388

Received: Reported: 02/10/2011

02/15/2011 RAN-11-002

Project Name: Project Number:

SCB WELL #3 BATTERY

Project Location:

Analyte

**TPH 418.1** 

LOVING, NEW MEXICO

Reporting Limit

1000

Result

6660

Sampling Date:

Sampling Type:

02/10/2011 Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: TT #1 1' BGS (H100272-01)

BTEX 8021B	mg/l	kg	Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2011	ND	2.07	104	2.00	1.92	
Toluene*	<0.050	0.050	02/11/2011	ND	1.96	98.0	2,00	7.26	
Ethylbenzene*	<0.050	0.050	02/11/2011	ND	2.00	100	2.00	7.51	
Total Xylenes*	<0.150	0.150	02/11/2011	ND	5.91	98.6	6.00	9.05	
Surrogate: 4-Bromofluorobenzene (PIL	95.4 %	6 70-130							
Chloride, SM4500Cl-B	mg/l	(g	Analyze	d By: LR					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1920	16.0	02/11/2011	ND	432	108	400	0.00	
TPH 418.1	mg/l	кg	Analyze	d By: AB					

Analyzed

02/14/2011

Method Blank

ND

1320

#### Cardinal Laboratories

\*=Accredited Analyte

RPD

2.99

True Value OC

1190

% Recovery

111

Qualifier



Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240 Fax.To: (575) 393-4388

Received:

02/10/2011

Reported:

02/15/2011

Project Name:

RAN-11-002

Project Number:

SCB WELL #3 BATTERY

Project Location:

LOVING, NEW MEXICO

Sampling Date:

02/10/2011

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

#### Sample ID: TT #1 3' BGS (H100272-02)

BTEX 8021B	mg/kg		Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2011	ND	2.07	104	2.00	1.92	
Toluene*	<0.050	0.050	02/11/2011	ND	1.96	98.0	2.00	7.26	
Ethylbenzene*	<0.050	0.050	02/11/2011	ND	2.00	100	2.00	7.51	
Total Xylenes*	<0.150	0.150	02/11/2011	ND	5.91	98.6	6.00	9.05	
Surrogate: 4-Bromofluorobenzene (PIL	92.5	% 70-130	)						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: LR					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1520	16.0	02/11/2011	ND	432	108	400	0.00	
TPH 418.1	mg,	/kg	Analyze	d By: AB			· · · · · · · · · · · · · · · · · · ·		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
TPH 418.1	2700	100	02/14/2011	ND	1320	111	1190	2.99	•

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Celey D. Keine



Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received:

02/10/2011

Reported:

02/15/2011

Project Name:

RAN-11-002

Project Number: Project Location:

SCB WELL #3 BATTERY

LOVING, NEW MEXICO

Sampling Date:

02/10/2011

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

#### Sample ID: TT #1 6' BGS (H100272-03)

BTEX 8021B	mg/kg		Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2011	ND	2.07	104	2.00	1.92	
Toluene*	<0.050	0.050	02/11/2011	ND	1.96	98.0	2.00	7.26	
Ethylbenzene*	<0.050	0.050	02/11/2011	ND	2.00	100	2.00	7.51	
Total Xylenes*	<0.150	0.150	02/11/2011	ND	5.91	98.6	6.00	9.05	
Surrogate: 4-Bromofluorobenzene (PIL	99.4	% 70-130	)						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: LR					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2200	16.0	02/11/2011	ND	432	108	400	0.00	
TPH 418.1	mg,	/kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<100	100	02/14/2011	ND	1320	111	1190	2.99	

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Celey & Keine



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Fax To:

(575) 393-4388

Received:

02/10/2011

Sampling Date:

02/10/2011

Reported:

02/15/2011

Sampling Type:

Project Name:

RAN-11-002

Sampling Condition:

Cool & Intact

SCB WELL #3 BATTERY

Sample Received By:

Jodi Henson

Project Number:

Project Location:

LOVING, NEW MEXICO

Sample ID: TT #2 1' BGS (H100272-04)

BTEX 8021B	mg/	kg	Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2011	ND	2.07	104	2.00	1.92	
Toluene*	<0.050	0.050	02/11/2011	ND	1.96	98.0	2.00	7.26	
Ethylbenzene*	<0.050	0.050	02/11/2011	ND	2.00	100	2.00	7.51	
Total Xylenes*	<0.150	0.150	02/11/2011	ND	5.91	98.6	6.00	9.05	
Surrogate: 4-Bromofluorobenzene (PIL	97.3 9	% 70-130	)						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: JM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	24400	16.0	02/11/2011	ND	432	108	400	0.00	
TPH 418.1	mg/	kg	Analyze	d By: AB			· · · · · · · · · · · · · · · · · · ·		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<100	100	02/14/2011	ND	1320	111	1190	2.99	

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Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:

02/10/2011

Reported:

02/15/2011 RAN-11-002

Project Name: Project Number:

SCB WELL #3 BATTERY

Project Location:

LOVING, NEW MEXICO

100

<100

Sampling Date:

02/10/2011

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: TT #2 3' BGS (H100272-05)

BTEX 8021B	mg/kg		Analyzed By: CMS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2011	ND	2.07	104	2.00	1.92	
Toluene*	<0.050	0.050	02/11/2011	ND	1.96	98.0	2.00	7.26	
Ethylbenzene*	<0.050	0.050	02/11/2011	ND	2.00	100	2.00	7.51	
Total Xylenes*	<0.150	0.150	02/11/2011	ND	5.91	98.6	6.00	9.05	
Surrogate: 4-Bromofluorobenzene (PIL	108	% 70-130	)						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: LR					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	25200	16.0	02/11/2011	ND	432	108	400	0.00	
TPH 418.1	mg,	/kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

ND

1320

111

1190

2.99

02/14/2011

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TPH 418.1

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Received:

02/10/2011

Sampling Date:

02/10/2011

Reported:

02/15/2011

Soil

Project Name:

RAN-11-002

Sampling Type: Sampling Condition:

Cool & Intact

Project Number:

SCB WELL #3 BATTERY

Sample Received By:

Jodi Henson

Project Location:

LOVING, NEW MEXICO

Sample ID: TT #2 6' BGS (H100272-06)

BTEX 8021B	mg/kg		Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2011	ND	2.07	104	2.00	1.92	
Toluene*	<0.050	0.050	02/11/2011	ND	1.96	98.0	2.00	7.26	
Ethylbenzene*	<0.050	0.050	02/11/2011	ND	2.00	100	2.00	7.51	
Total Xylenes*	<0.150	0.150	02/11/2011	ND	5.91	98.6	6.00	9.05	
Surrogate: 4-Bromofluorobenzene (PIL	107	% 70-130	)						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: LR					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7600	16.0	02/11/2011	ND	432	108	400	0.00	
TPH 418,1	mg,	/kg	Analyze	d By: AB			<u></u>		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
TPH 418.1	<100	100	02/14/2011	ND	1320	111	1190	2.99	

#### Cardinal Laboratories

\*=Accredited Analyte





#### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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\*=Accredited Analyte

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Celey D. Keine

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ть П

ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240

111 002.70	505) 393-2326 Fax (505) 393-2476
East Malialiu, House, 1916	5
-	õ
2	10
3	
Ö	~
Ξ.	ii.
÷	to
=	~
Ö	3
Ξ	Ü
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analyses. An claims Including those for incigligance and any other cause milatopere size in the degree where universe in the second of the cause and any other cause milatopere size including without knalkfore, bushakes interruptions, how or use of politic incurred by claims the cause of the conceptual decreages, including without knalkfores.

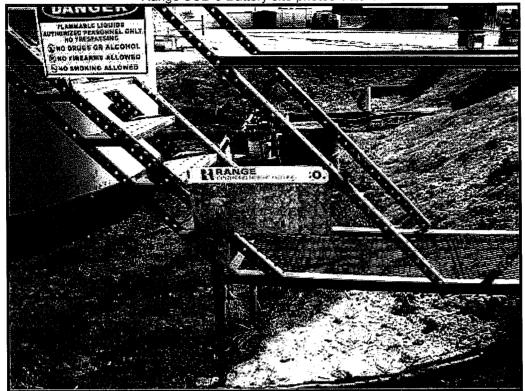
Phone Result: | Fax Result: | RemARKS: Sample Condition Cool Intact F yes Yes Received By: 300 remp. Time: (652) Date: Time: Sampler UPS - Bus - Other: Delivered By: (Circle One)

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

PO #

## Appendix B Site Photos

Range SCB-3 Battery site photos 1-25-11



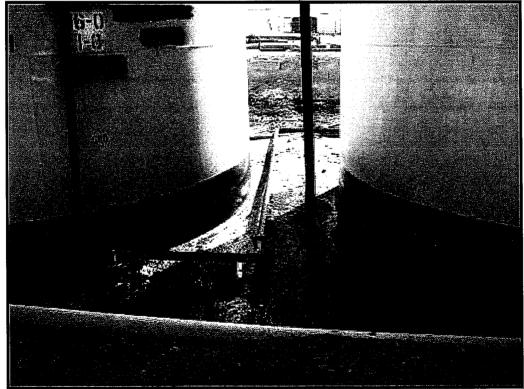
Well sign



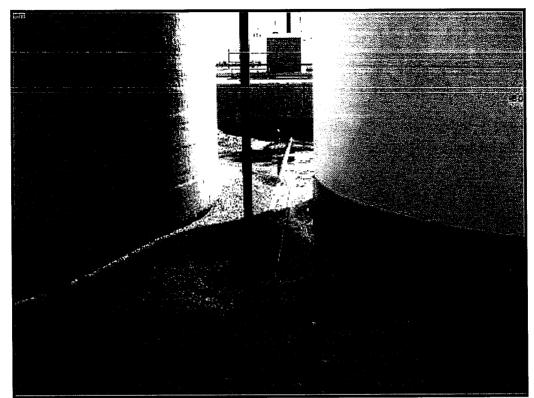
Release area facing south



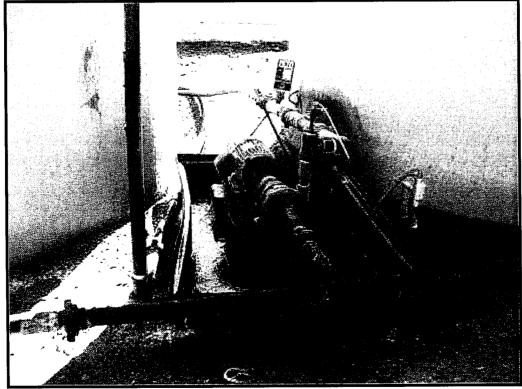
Release area facing south



Release area facing south



Release area facing south



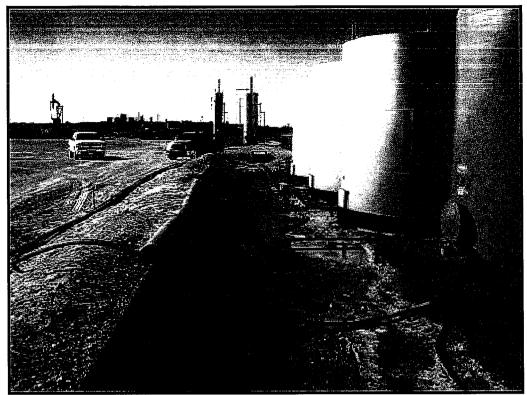
Release point



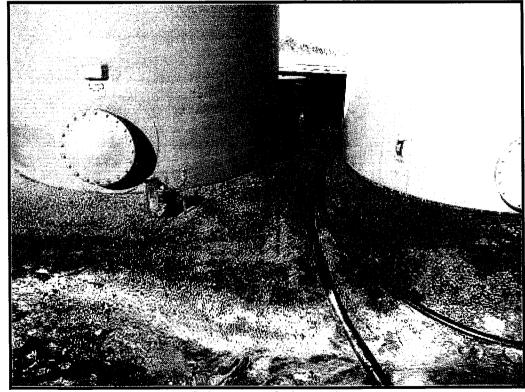
Release area facing south



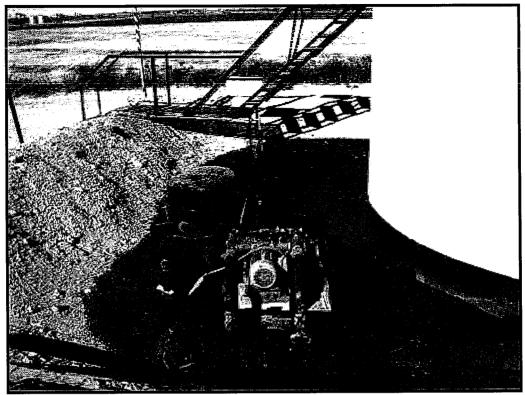
Release area facing west



Release area facing east



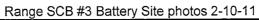
Release area facing north

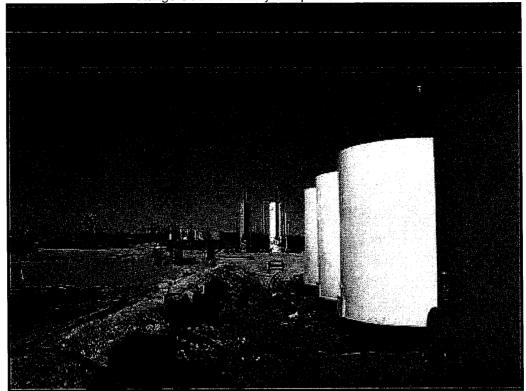


Release area facing north

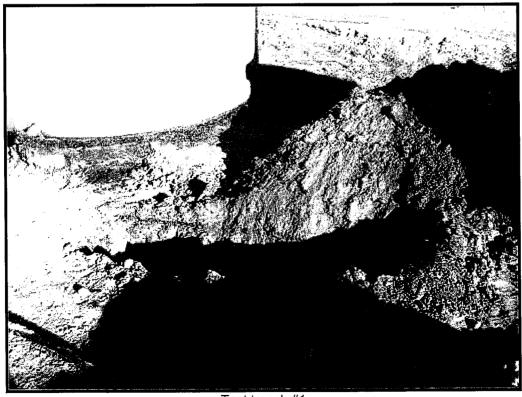


Release area facing east





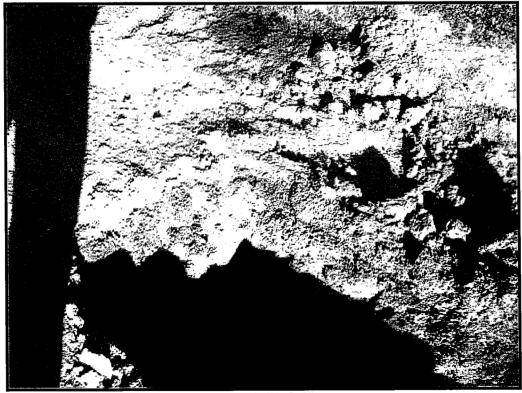
Tank battery area facing west



Test trench #1



Test trench #1 @6'bgs



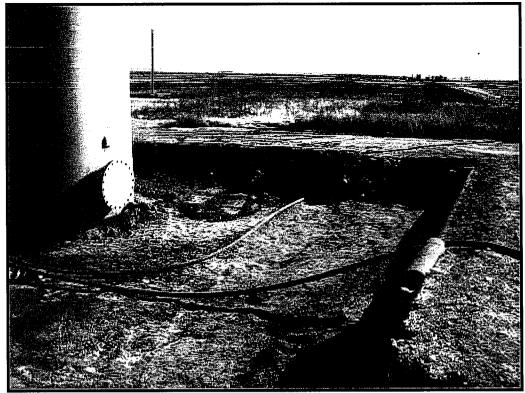
Test trench #1 @ 6'bgs



Test trench #2 area



Test trench #2 @6'bgs



Test trench #1 backfilled



Test trench #2 backfilled

### Appendix C C-141

District I
1625 N French Dr., Hobbs. NM 88240
District II
1301 W Grand Avenuc, Artesia, NM 88210
District III
1000 Rio Brazos Road. Aztec, NM 87410
District IV
1220 S St. Francis Dr., Santa Fc, 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-14 ( 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											
						OPERA*			al Report	□ n'in	
Name of Company Range Resources Corporation							ve Almager	<u>1011</u>	al Report	Final Repor	
Address: 100 Throckmorton Ste 1200						Telephone No. (575)394-1485					
Facility Name: SCB #3						Facility Type: Battery					
Surface Owner Mineral Owner						er I			No.		
LOCATI						ON OF RELEASE					
Light Letter   Caction   Township   Days   France   Township   Days   Days									County		
	23	23 S	28 E				r out wom the	County			
									Eddy		
Latitude: <u>32,29299 N Longitude</u> : <u>104,05589W</u>											
NATURE OF RELEASE											
Type of Release Produced Fluids Vulumo of Palesco 250 kbl.										10111	
Source of Release: Eroded Union; Pump Failure						Date and F	our of Occurrence		Date and Hour of Discovery		
Was Immediate Notice Given?						1/25/11 6	aun	1/25/11	1/75/11 6-20 cm		
Was immediate Notice Criven?  □ No □ Not Required						If YES, To Whom? Mike Bratcher, NMOCD					
By Whom? Sergio Contreras, SESI						Date and Hour 1/25/11 2:30 pm					
Was a Watercourse Reached?						If YES, Volume Impacting the Watercourse.					
If a Watercourse was Impacted, Describe Fully.*											
Describe Cause of Problem and Remedial Action Taken.*											
The union of the tank eroded off, causing the pump to fail and shut off. As a result of the pump failure, approximately 250 bbls of produced fluids was released within the firewalls of the tank battery.											
Describe Area Affected and Cleanup Action Taken.											
SESI was contacted for assessment. Area will be delineated and an appropriate work plan submitted upon results.											
public health of	or the environerations ha ment. In ad	onment. The average failed to act	eceptance lequately i	of a C-141 repor	t by th	e NMOCD ma	rked as "Final Re in that pose a threa the operator of re	derstand that pursi ive actions for refe port" does not relie at to ground water, espansibility for co	ases which neve the opera surface water mpliance with	nay endanger tor of liability er, human health th any other	
Signature:						OIL CONSERVATION DIVISION					
Printed Name: Steve Almager						Approved by District Supervisor:					
Title: Production Supervisor II						Approval Date	:	Expiration 1	Expiration Date:		
E-mail Address: salmager@rangeresources.com						Conditions of	<del>-</del>	Attached			

Date: 1/25/11 Phone: (575) 394-[485]
\* Attach Additional Sheets If Necessary