

Rice Environmental Consulting & Safety

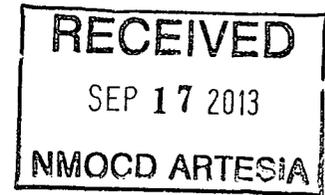
P.O. Box 2948, Hobbs, NM 88241

Phone 575.393.2967

CERTIFIED MAIL

RETURN RECEIPT NO. 7007 2560 0000 4569 8364

September 16th, 2013



Mike Bratcher

New Mexico Energy, Minerals, & Natural Resources

Oil Conservation Division, Environmental Bureau – District 2

811 S. First St.

Artesia, NM 88210

RE: Corrective Action Plan (CAP)

Linn Energy – Max Friess MA Battery (2RP-1898)

UL/G sec. 30 T17S R31E

API No. 3001526882

Mr. Bratcher:

Linn Energy (Linn) has retained Rice Environmental Consulting and Safety (RECS) to address potential environmental concerns at the above-referenced site.

Background and Previous Work

On January 31st, 2013, a release at the battery occurred which discharged a total of 5-10 barrels of produced water and oil. An initial C-141 detailing this release was sent to NMOCD and BLM on September 5th, 2013 (Appendix A). The site is located 4.5 miles east of Loco Hills in UL/G sec. 30 T17S R31E in Eddy County, NM. The site is in an area of no known groundwater.

RECS met with BLM on July 29th, 2013. BLM stated that a vertical needed to be conducted at the site. To prepare for the vertical, the berm in the southeast corner was removed and disposed of at a NMOCD approved facility. On August 5th, 2013 a vertical was installed to a depth of 15 ft bgs (Figure 1). Samples were taken at regular intervals and field tested for chlorides and hydrocarbons. Representative samples were taken to a commercial laboratory for analysis (Appendix B). As the vertical was advanced, laboratory chloride readings dropped until they reached 608 mg/kg at 15 ft bgs. GRO, DRO and BTEX laboratory readings were non-detect, except for at the surface where the DRO reading was 4,100 mg/kg.

On August 6th, 2013 BLM approved soil bore installation activities at the site that occurred on August 20th, 2013. One soil bores was installed at the site to a depth of 35 ft bgs (Figure 1). Field samples were taken at regular intervals as the bore was advanced and representative samples from the bore were taken to a commercial laboratory for analysis (Appendix C). The laboratory chloride readings dropped from 1,660 mg/kg at

18 ft bgs to 112 mg/kg at 30 and 35 ft bgs. GRO, DRO and BTEX readings in all samples were non-detect.

Photo documentation of these activities can be found in Appendix D.

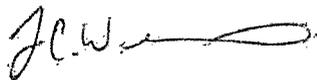
Corrective Action Plan

Since there is no groundwater at the site, the residual chlorides in the vadose zone will not in any way affect groundwater beneath the site. However, to mitigate any chance that the residual chlorides could affect groundwater in the future, RECS recommends that Linn excavate the site to 18 ft x 38 ft to a depth of 3 ft bgs (Figure 2). The excavation will avoid the tanks and other facilities in the battery that could cause safety hazards. At 3 ft bgs, a 20-mil reinforced poly liner will be installed throughout the excavation. The excavated soil will be transported to a NMOCD approved facility. Once the liner is installed, the excavation will be backfilled with clean, imported soil. The site will not need to be seeded since the release occurred in an active battery.

Once the CAP activities have been completed, Linn will submit a request for 'remediation termination' or similar closure status of the regulatory file.

RECS appreciates the opportunity to work with you on this project. Please call Hack Conder at (575) 393-2967 or me if you have any questions or wish to discuss the site.

Sincerely,



Lara Weinheimer
Project Scientist
RECS
(575) 441-0431

cc. Mike Burton, BLM

Attachments:

- Figure 1 – Vertical and SB Installation Data
- Figure 2 – Proposed Liner Installation
- Appendix A – Initial C-141
- Appendix B – Vertical Laboratory Analyses
- Appendix C – Soil Bore Documentation
- Appendix D – Photo Documentation

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SEP 17 2013
NMOCD ARTESIA

Figures

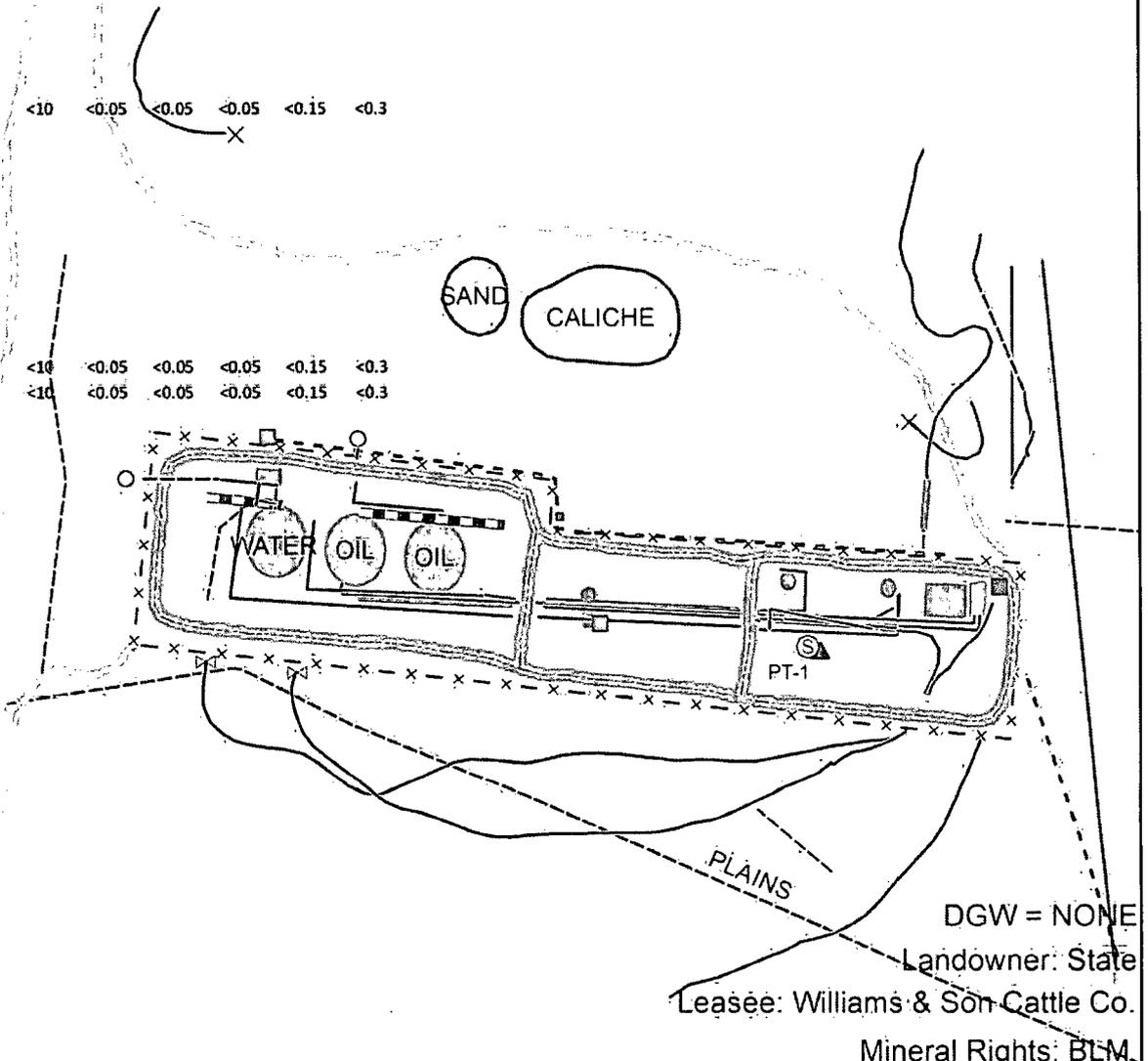
RICE Environmental Consulting and Safety (RECS)
P.O. Box 2948, Hobbs, NM 88241
Phone 575.393.2967

Vertical and SB Installation Data

Vertical Pt. 1										Soil Bore									
Depth	CI-	PID	GRO	DRO	B	T	E	X	BTEX	Depth	CI-	PID	GRO	DRO	B	T	E	X	BTEX
SS	6400	391.4	<50	4100	<0.2	<0.2	<0.2	<0.6	<1.2	18'	1660	2.3	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3
6"	1840	15000								21'	815	1							
1'	1695	332								24'	837	4.4							
1.5'	1466	2301								30'	112	2.5	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3
2'	1356	1155								35'	112	3.7	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3
2.5'	1013	1792																	
3'	909	457.5																	
3.5'	649	348.2																	
4'	713	376.5																	
4.5'	2884	83.6																	
5'	1889	80.9																	
5.5'	1556	148.6																	
6'	2320	54.8	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3										
6.5'	1457	82.6																	
7'	1903	1345																	
7.5'	2181	1067																	
8'	1671	693.1																	
8.5'	1857	28.9																	
9'	562	32.8																	
9.5'	2840	24.4	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3										
10'	1007	26.2																	
10.5'	762	2.7																	
11'	457	95.5																	
11.5'	807	18.5																	
12'	492	16.7																	
12.5'	423	44.7																	
13'	193	49.5																	
13.5'	428	12.7																	
14'	627	547																	
14.5'	560	400	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3										
15'	608	76.8	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3										

Legend

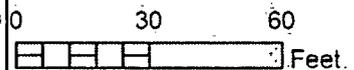
- ⊙ SOIL BORE
- ▲ VERTICAL POINT
- CONTAINMENT
- CONTROL BOX
- ⊥ ELECTRIC POLE
- ELECTRICAL BOX
- ⊙ SUMP
- ⊗ VALVE
- ⊗ PIPE END
- BERM
- - - BURIED ELECTRIC
- - - BURIED PIPELINE
- ⊗ FENCE
- HEADER
- - - LINEFINDER HIT
- OVERHEAD ELECTRIC LINE
- PAD/ROAD EDGE
- ⊥ RISER
- STAIRS/CATWALK
- SURFACE PIPELINE



LINN MAX FRIESS MA BATTERY AD (2RP-1898)

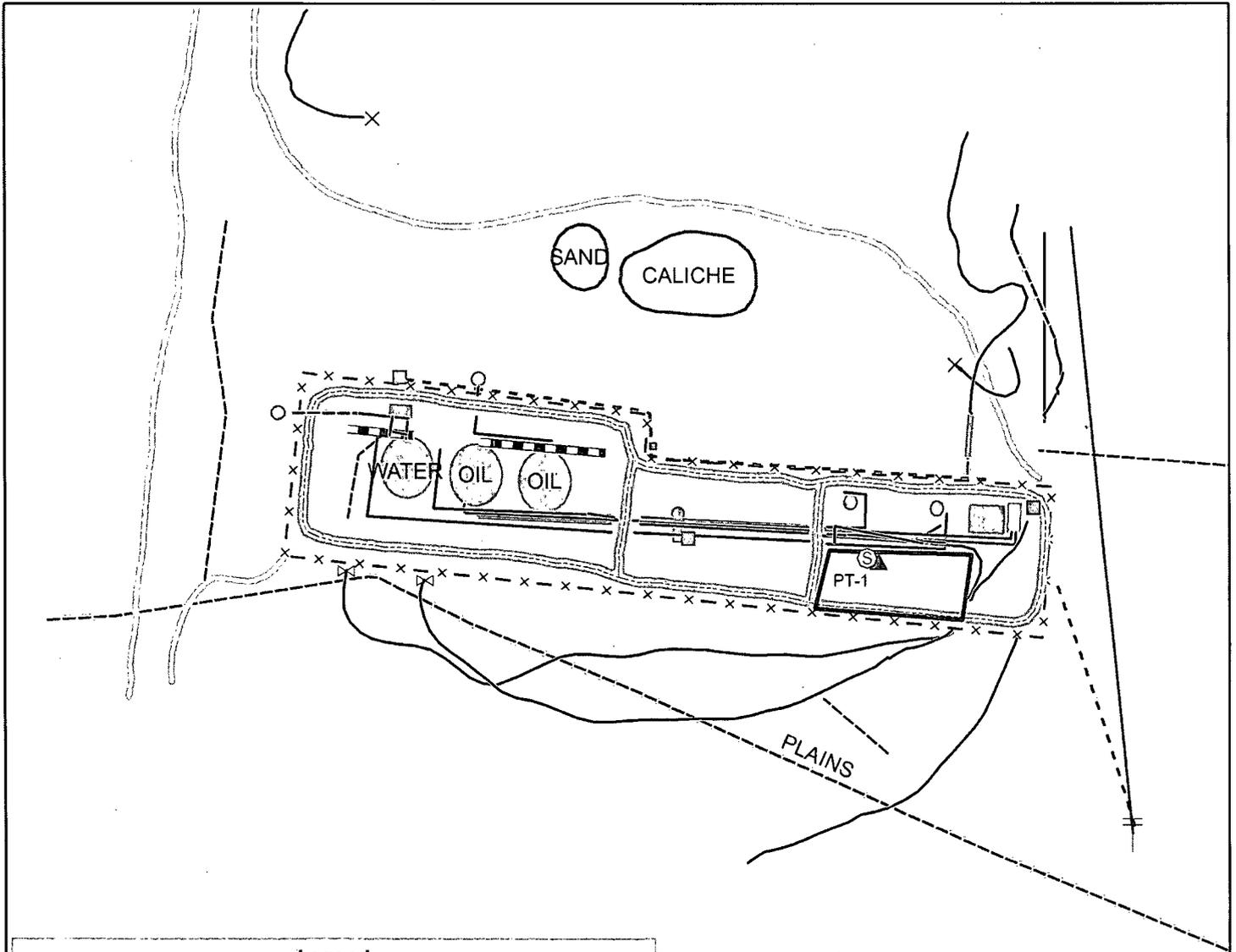
LEGALS: UL/G sec. 30
T-17-S-R-31-E
EDDY COUNTY, NM

Figure 1



GPS date: 8/20/13
Drawing date: 9/12/13
Drafted by: L. Weinheimer

Proposed Liner Installation



Legend		
⊙	SOIL BORE	BERM
▲	VERTICAL POINT	--- BURIED ELECTRIC
□	PROPOSED 18' x 38' 20-mil POLY LINER @ 3 FT	--- BURIED PIPELINE
○	CONTAINMENT	x - x FENCE
■	CONTROL BOX	--- HEADER
⊕	ELECTRIC POLE	--- LINEFINDER HIT
⊞	ELECTRICAL BOX	— OVERHEAD ELECTRIC LINE
⊗	SUMP	— PAD/ROAD EDGE
⊗	VALVE	— RISER
⊗	PIPE END	— STAIRS/CATWALK
		— SURFACE PIPELINE
		□ PUMP
		□ SPOIL PILE
		□ STORAGE TANK
		□ TREATER

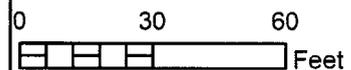
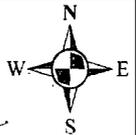
DGW = NONE
 Landowner: State
 Leasee: Williams & Son Cattle Co.
 Mineral Rights: BLM



LINN MAX FRIESS MA BATTERY AD (2RP-1898)

LEGALS: UL/G sec. 30
 T-17-S R-31-E
 EDDY COUNTY, NM

Figure 2



GPS date: 8/20/13
 Drawing date: 9/12/13
 Drafted by: L. Weinheimer

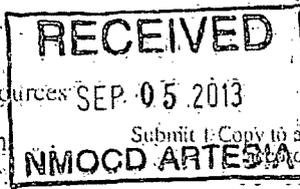
Appendix A

Initial C-141

RICE Environmental Consulting and Safety (RECS)
P.O. Box 2948 Hobbs, NM 88241
Phone 575.393.2967

District I
1625 N. French Dr., Hobbs, NM 88240
District II
511 S. First St., 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 August 8, 2011

Release Notification and Corrective Action

JMW 1324954645 OPERATOR Initial Report Final Report

Name of Company: <u>Linn Energy</u>	Contact: <u>Brian Wall</u>
Address: <u>2130 W. Bender Blvd., Hobbs, NM 88240</u>	Telephone No.: <u>(806) 367-0645</u>
Facility Name: <u>Max Friess "MA" Battery</u>	Facility Type: <u>Battery</u>
Surface Owner: <u>State</u>	Mineral Owner: <u>BLM</u>
API No. <u>3001526882</u>	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
G	30	17S	31E	1682	FWL	1479	FEL	Eddy

Latitude: 32°48'29.354"N Longitude: 103°54'19.52"W

NATURE OF RELEASE

Type of Release: <u>Produced Water and Oil</u>	Volume of Release: <u>5-10 barrels</u>	Volume Recovered: <u>0 barrels</u>
Source of Release: <u>Battery release</u>	Date and Hour of Occurrence: <u>1/31/13</u>	Date and Hour of Discovery: <u>1/31/13</u>
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and 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:

Describe Cause of Problem and Remedial Action Taken:

A release in the battery of produced water and oil occurred. A total of 5-10 barrels were released.

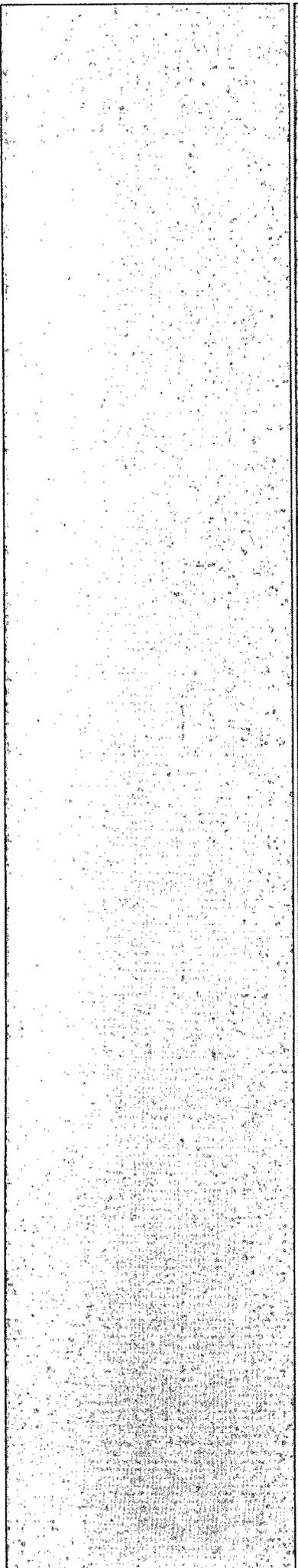
Describe Area Affected and Cleanup Action Taken: The release remained inside the fenced area of the battery. RECS met with BLM on July 29th, 2013. BLM stated that a vertical needed to be conducted at the site. On August 5th, 2013 a vertical was installed to a depth of 15 ft bgs. Samples were taken at regular intervals and field tested for chlorides and hydrocarbons. Representative samples were taken to a commercial laboratory for analysis. As the vertical was advanced, laboratory chloride readings dropped until they reached 608 mg/kg at 15 ft bgs. GRO, DRO and BTEX laboratory readings were non-detect, except for at the surface where the DRO reading was 4,100 mg/kg. On August 6th, 2013 BLM approved soil bore installation activities at the site that occurred on August 20th, 2013. One soil bore was installed at the site to a depth of 35 ft bgs. Field samples were taken at regular intervals as the bore was advanced and representative samples from the bore were taken to a commercial laboratory for analysis. A Corrective Action Plan will be submitted to NMOCD and BLM with a path forward to remedy the site.

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.

Signature: <i>[Signature]</i>	OIL CONSERVATION DIVISION	
Printed Name: <u>Brian Wall</u>	Approved by Environmental Specialist:	Signed By: <i>[Signature]</i>
Title: <u>Construction Foreman II</u>	Approval Date: SEP 06 2013	Expiration Date:
E-mail Address: <u>Bwall@linnenergy.com</u>	Conditions of Approval: Remediation, per OCC Rule & Guidelines, & like approval by BLM. SUBMIT REMEDIATION!	Attached <input type="checkbox"/>

Attach Additional Sheets If Necessary

PROPOSAL NO LATER THAN:
October 6, 2013 *ZRP-1898*



Appendix B

Vertical Laboratory Analyses

RICE Environmental Consulting and Safety (RECS)
P.O. Box 2948 Hobbs, NM 88241
Phone 575.393.2967



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

August 13, 2013

JACOB KAMPLAIN

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: MAX FRIESS MA BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 08/06/13 16:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited 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 (V1, 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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, prominent initial "C".

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 RICE ENVIRONMENTAL CONSULTING & SAFETY
 JACOB KAMPLAIN
 419 W. CAIN
 HOBBS NM, 88240
 Fax To: (575) 397-1471

Received:	08/06/2013	Sampling Date:	08/05/2013
Reported:	08/13/2013	Sampling Type:	Soil
Project Name:	MAX FRIESS MA BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: EXC 1 @ SURFACE (H301838-01)

BTEX 8260B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.200	0.200	08/10/2013	ND	2.17	108	2.00	3.04		
Toluene*	<0.200	0.200	08/10/2013	ND	1.97	98.7	2.00	2.03		
Ethylbenzene*	<0.200	0.200	08/10/2013	ND	1.97	98.5	2.00	2.23		
Total Xylenes*	<0.600	0.600	08/10/2013	ND	5.82	97.0	6.00	2.41		
Total BTEX	<1.20	1.20	08/10/2013	ND						

Surrogate: Dibromofluoromethane 98.1 % 61.3-142

Surrogate: Toluene-d8 93.0 % 71.3-129

Surrogate: 4-Bromofluorobenzene 107 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6400	16.0	08/13/2013	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	<50.0	50.0	08/09/2013	ND	191	95.5	200	0.596			
DRO >C10-C28	4100	50.0	08/09/2013	ND	204	102	200	0.0598			

Surrogate: 1-Chlorooctane 97.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 204 % 63.6-154

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 RICE ENVIRONMENTAL CONSULTING & SAFETY
 JACOB KAMPLAIN
 419 W. CAIN
 HOBBS NM, 88240
 Fax To: (575) 397-1471

Received:	08/06/2013	Sampling Date:	08/05/2013
Reported:	08/13/2013	Sampling Type:	Soil
Project Name:	MAX FRIESS MA BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: EXC 1 @ 6" (H301838-02)

BTEX 8260B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/10/2013	ND	2.17	108	2.00	3.04		
Toluene*	<0.050	0.050	08/10/2013	ND	1.97	98.7	2.00	2.03		
Ethylbenzene*	<0.050	0.050	08/10/2013	ND	1.97	98.5	2.00	2.23		
Total Xylenes*	<0.150	0.150	08/10/2013	ND	5.82	97.0	6.00	2.41		
Total BTEX	<0.300	0.300	08/10/2013	ND						

Surrogate: Dibromofluoromethane 97.2 % 61.3-142

Surrogate: Toluene-d8 93.9 % 71.3-129

Surrogate: 4-Bromofluorobenzene 97.2 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2320	16.0	08/13/2013	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/09/2013	ND	191	95.5	200	0.596		
DRO >C10-C28	<10.0	10.0	08/09/2013	ND	204	102	200	0.0598		

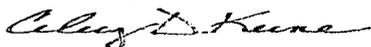
Surrogate: 1-Chlorooctane 103 % 65.2-140

Surrogate: 1-Chlorooctadecane 129 % 63.6-154

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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 RICE ENVIRONMENTAL CONSULTING & SAFETY
 JACOB KAMPLAIN
 419 W. CAIN
 HOBBS NM, 88240
 Fax To: (575) 397-1471

Received:	08/06/2013	Sampling Date:	08/05/2013
Reported:	08/13/2013	Sampling Type:	Soil
Project Name:	MAX FRIESS MA BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: EXC 1 @ 9' 6" (H301838-03)

BTEX 82608		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/08/2013	ND	2.28	114	2.00	1.60		
Toluene*	<0.050	0.050	08/08/2013	ND	2.19	110	2.00	2.07		
Ethylbenzene*	<0.050	0.050	08/08/2013	ND	2.12	106	2.00	1.60		
Total Xylenes*	<0.150	0.150	08/08/2013	ND	6.32	105	6.00	3.00		
Total BTEX	<0.300	0.300	08/08/2013	ND						

Surrogate: Dibromofluoromethane 96.0 % 61.3-142

Surrogate: Toluene-d8 100 % 71.3-129

Surrogate: 4-Bromofluorobenzene 105 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2840	16.0	08/13/2013	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/09/2013	ND	191	95.5	200	0.596		
DRO >C10-C28	<10.0	10.0	08/09/2013	ND	204	102	200	0.0598		

Surrogate: 1-Chlorooctane 102 % 65.2-140

Surrogate: 1-Chlorooctadecane 128 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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 JACOB KAMPLAIN
 419 W. CAIN
 HOBBS NM, 88240
 Fax To: (575) 397-1471

Received:	08/06/2013	Sampling Date:	08/05/2013
Reported:	08/13/2013	Sampling Type:	Soil
Project Name:	MAX FRIESS MA BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: EXC 1 @ 14' 6" (H301838-04)

BTEX 8260B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/08/2013	ND	2.28	114	2.00	1.60		
Toluene*	<0.050	0.050	08/08/2013	ND	2.19	110	2.00	2.07		
Ethylbenzene*	<0.050	0.050	08/08/2013	ND	2.12	106	2.00	1.60		
Total Xylenes*	<0.150	0.150	08/08/2013	ND	6.32	105	6.00	3.00		
Total BTEX	<0.300	0.300	08/08/2013	ND						

Surrogate: Dibromofluoromethane 98.6 % 61.3-142

Surrogate: Toluene-d8 102 % 71.3-129

Surrogate: 4-Bromofluorobenzene 104 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	560	16.0	08/13/2013	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/09/2013	ND	191	95.5	200	0.596		
DRO >C10-C28	<10.0	10.0	08/09/2013	ND	204	102	200	0.0598		

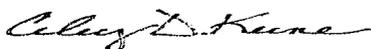
Surrogate: 1-Chlorooctane 105 % 65.2-140

Surrogate: 1-Chlorooctadecane 129 % 63.6-154

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 RICE ENVIRONMENTAL CONSULTING & SAFETY
 JACOB KAMPLAIN
 419 W. CAIN
 HOBBS NM, 88240
 Fax To: (575) 397-1471

Received:	08/06/2013	Sampling Date:	08/05/2013
Reported:	08/13/2013	Sampling Type:	Soil
Project Name:	MAX FRIESS MA BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: EXC 1 @ 15' (H301838-05)

BTEX 8260B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/08/2013	ND	2.28	114	2.00	1.60		
Toluene*	<0.050	0.050	08/08/2013	ND	2.19	110	2.00	2.07		
Ethylbenzene*	<0.050	0.050	08/08/2013	ND	2.12	106	2.00	1.60		
Total Xylenes*	<0.150	0.150	08/08/2013	ND	6.32	105	6.00	3.00		
Total BTEX	<0.300	0.300	08/08/2013	ND						

Surrogate: Dibromofluoromethane 96.0 % 61.3-142

Surrogate: Toluene-d8 99.3 % 71.3-129

Surrogate: 4-Bromofluorobenzene 105 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	608	16.0	08/13/2013	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/09/2013	ND	191	95.5	200	0.596		
DRO >C10-C28	<10.0	10.0	08/09/2013	ND	204	102	200	0.0598		

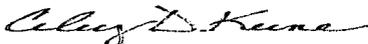
Surrogate: 1-Chlorooctane 103 % 65.2-140

Surrogate: 1-Chlorooctadecane 126 % 63.6-154

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

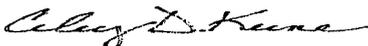
Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- 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. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

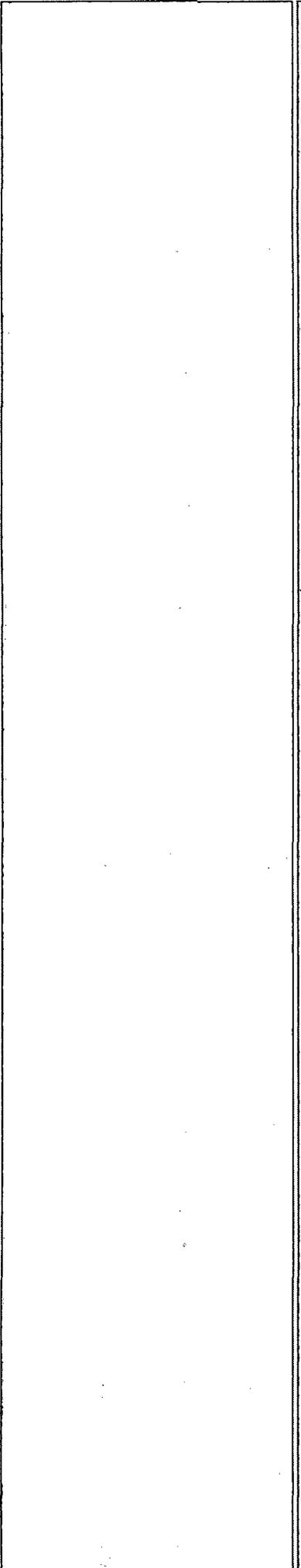
101 East Marland, Hobbs, NM 88240
 (575) 393-2326 FAX (575) 393-2476

Company Name: <u>Lion Energy</u>		BILL TO				ANALYSIS REQUEST																									
Project Manager:		P.O. #:																													
Address:		Company:																													
City:	State:	Zip:	Attn:																												
Phone #:	Fax #:		Address:																												
Project #:	Project Owner:		City:																												
Project Name:		State:		Zip:																											
Project Location: <u>Max Friess MA Battery</u>		Phone #:																													
Sampler Name: <u>Chris Flores</u>		Fax #:																													
FOR LAB USE ONLY																															
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX												PRESERV.			SAMPLING												
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	Chloride	BTEX	TPH														
<u>H30F338</u>																															
<u>1</u>	<u>Excavation 1 @ surface</u>	<u>G</u>	<u>1</u>			<u>/</u>							<u>8-5-2013</u>	<u>2:00 pm</u>	<u>X</u>	<u>X</u>	<u>X</u>														
<u>2</u>	<u>Excavation 1 @ 6"</u>	<u>G</u>	<u>1</u>			<u>/</u>								<u>2:10</u>	<u>X</u>	<u>X</u>	<u>X</u>														
<u>3</u>	<u>" @ 9'6"</u>	<u>G</u>	<u>1</u>			<u>/</u>								<u>2:26</u>	<u>X</u>	<u>X</u>	<u>X</u>														
<u>4</u>	<u>" @ 14'6"</u>	<u>G</u>	<u>1</u>			<u>/</u>								<u>2:30</u>	<u>X</u>	<u>X</u>	<u>X</u>														
<u>5</u>	<u>" @ 15'</u>	<u>G</u>	<u>1</u>			<u>/</u>								<u>2:40 pm</u>	<u>X</u>	<u>X</u>	<u>X</u>														

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Relinquished By: <u>Chris Flores</u>	Date: <u>8-6-2013</u> Time: <u>4:30</u>	Received By: <u>Jodi Benson</u>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date:	Received By:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:			Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	CHECKED BY: <u>[Signature]</u>
REMARKS: <u>J Kamplain</u> <u>I Weinheimer</u> <u>CFlores</u>				

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326
 #54



Appendix C

Soil Bore Installation Documentation

RICE Environmental Consulting and Safety (RECS)
P.O. Box 2948 Hobbs, NM 88241
Phone 575.393.2967



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

August 28, 2013

JACOB KAMPLAIN

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: MAX FRIESS MA BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 08/22/13 8:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited 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 (V1, 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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, looped initial "C".

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 RICE ENVIRONMENTAL CONSULTING & SAFETY
 JACOB KAMPLAIN
 419 W. CAIN
 HOBBS NM, 88240
 Fax To: (575) 397-1471

Received:	08/22/2013	Sampling Date:	08/20/2013
Reported:	08/28/2013	Sampling Type:	Soil
Project Name:	MAX FRIESS MA BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SB 1 @ 18' (H302008-01)

BTEX 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/26/2013	ND	2.20	110	2.00	6.60		
Toluene*	<0.050	0.050	08/26/2013	ND	2.14	107	2.00	6.10		
Ethylbenzene*	<0.050	0.050	08/26/2013	ND	2.18	109	2.00	6.27		
Total Xylenes*	<0.150	0.150	08/26/2013	ND	6.47	108	6.00	6.45		
Total BTEX	<0.300	0.300	08/26/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 104 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1660	16.0	08/26/2013	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: AR/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/26/2013	ND	208	104	200	0.257		
DRO >C10-C28	<10.0	10.0	08/26/2013	ND	195	97.7	200	2.71		

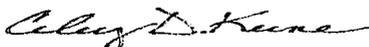
Surrogate: 1-Chlorooctane 98.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 102 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 RICE ENVIRONMENTAL CONSULTING & SAFETY
 JACOB KAMPLAIN
 419 W. CAIN
 HOBBS NM, 88240
 Fax To: (575) 397-1471

Received:	08/22/2013	Sampling Date:	08/20/2013
Reported:	08/28/2013	Sampling Type:	Soil
Project Name:	MAX FRIESS MA BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SB 1 @ 30' (H302008-02)

BTEX 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/26/2013	ND	2.20	110	2.00	6.60		
Toluene*	<0.050	0.050	08/26/2013	ND	2.14	107	2.00	6.10		
Ethylbenzene*	<0.050	0.050	08/26/2013	ND	2.18	109	2.00	6.27		
Total Xylenes*	<0.150	0.150	08/26/2013	ND	6.47	108	6.00	6.45		
Total BTEX	<0.300	0.300	08/26/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 105 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	08/26/2013	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: AR/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/26/2013	ND	208	104	200	0.257		
DRO >C10-C28	<10.0	10.0	08/26/2013	ND	195	97.7	200	2.71		

Surrogate: 1-Chlorooctane 93.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 96.2 % 63.6-154

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 RICE ENVIRONMENTAL CONSULTING & SAFETY
 JACOB KAMPLAIN
 419 W. CAIN
 HOBBS NM, 88240
 Fax To: (575) 397-1471

Received:	08/22/2013	Sampling Date:	08/20/2013
Reported:	08/28/2013	Sampling Type:	Soil
Project Name:	MAX FRIESS MA BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SB 1 @ 35' (H302008-03)

BTEX 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/26/2013	ND	2.20	110	2.00	6.60		
Toluene*	<0.050	0.050	08/26/2013	ND	2.14	107	2.00	6.10		
Ethylbenzene*	<0.050	0.050	08/26/2013	ND	2.18	109	2.00	6.27		
Total Xylenes*	<0.150	0.150	08/26/2013	ND	6.47	108	6.00	6.45		
Total BTEX	<0.300	0.300	08/26/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 104 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	08/26/2013	ND	416	104	400	0.00		

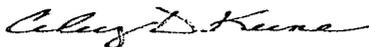
TPH 8015M		mg/kg		Analyzed By: AR/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/26/2013	ND	191	95.7	200	3.91		
DRO >C10-C28	<10.0	10.0	08/26/2013	ND	186	93.0	200	5.56		

Surrogate: 1-Chlorooctane 94.1 % 65.2-140
Surrogate: 1-Chlorooctadecane 97.4 % 63.6-154

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

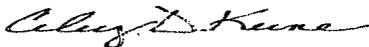
Notes and Definitions

- 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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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
 (575) 393-2326 FAX (575) 393-2476

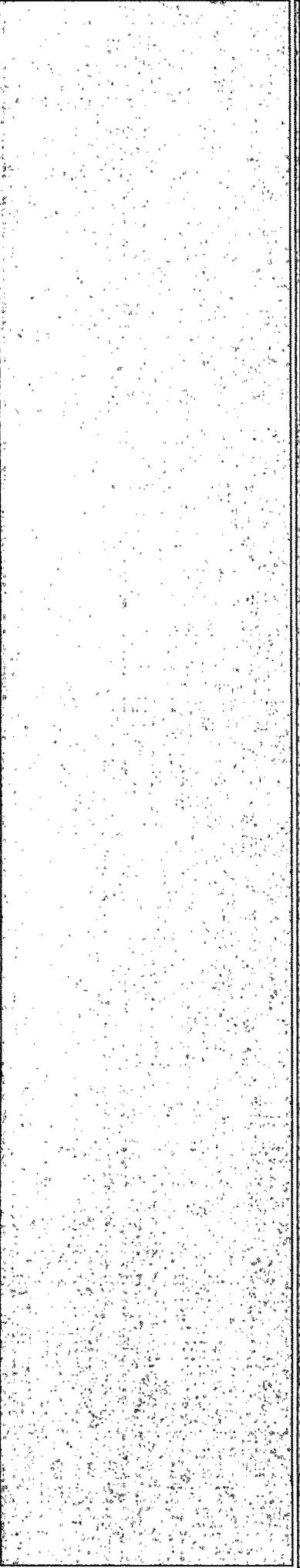
Company Name: RELS		BILL TO				ANALYSIS REQUEST																							
Project Manager: Jacob Kampman		P.O. #:																											
Address:		Company:																											
City: State: Zip:		Attn:																											
Phone #: Fax #:		Address:																											
Project #: Project Owner:		City:																											
Project Name:		State: Zip:																											
Project Location: Max Fries MA battery		Phone #:																											
Sampler Name: Kyle Schmaidt		Fax #:																											
FOR LAB USE ONLY																													
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX														PRESERV.		SAMPLING									
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME															
H302008																													
1	SB1 @ 18'	G	1			X					X		8-20-13	4:00	X	CI	BTEX	TPH											
2	SB1 @ 30'	G	1			X					X		8-20-13	4:05	X	CI	BTEX	TPH											
3	SB1 @ 35'	G	1			X					X		8-20-13	4:10	X	CI	BTEX	TPH											

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Relinquished By: Kyle Schmaidt	Date: 8/22/13	Received By: Jodi Benson	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date:	Received By:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One)	Sample Condition	CHECKED BY:	REMARKS:	
Sampler - UPS - Bus - Other:	Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	[Signature]	hcondor@rice-ecs.com jkumplain@rice-ecs.com knormann@rice-ecs.com lweber@rice-ecs.com kschmaidt@rice-ecs.com	

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

#01



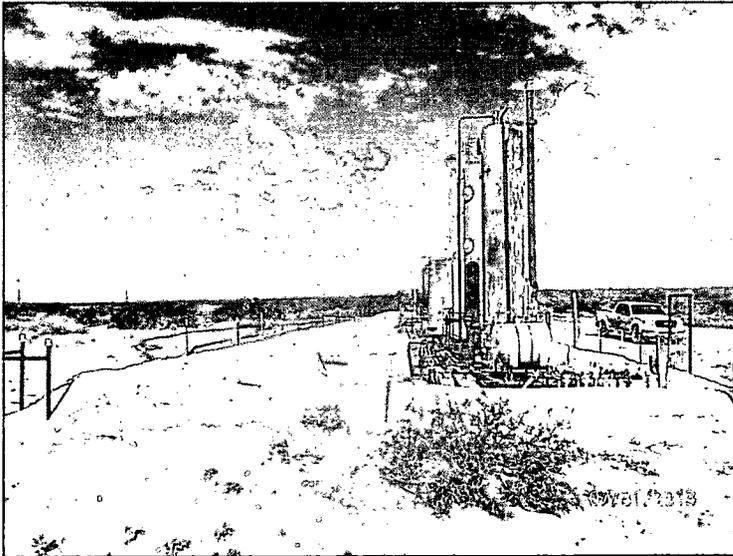
Appendix D

Photo Documentation

RICE Environmental Consulting and Safety (RECS)
P.O. Box 2948 Hobbs, NM 88241
Phone 575.393.2967

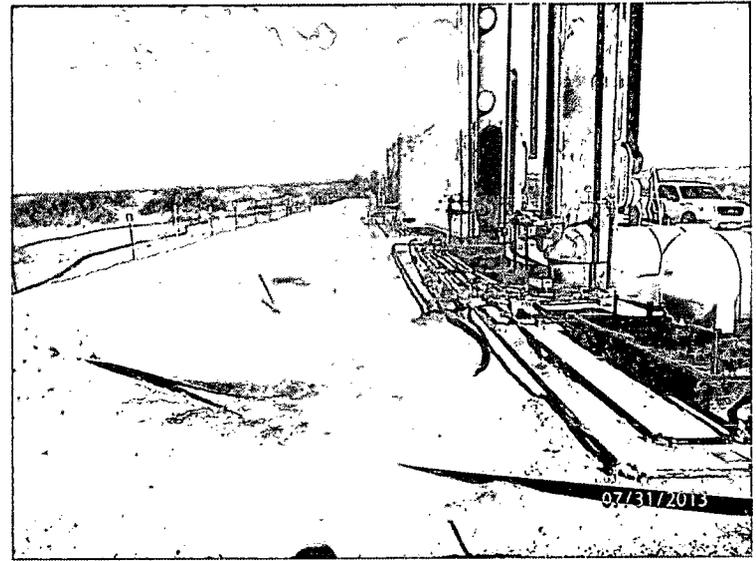
Linn Max Friess MA Battery

Unit Letter G, Section 30, T17S, R31E



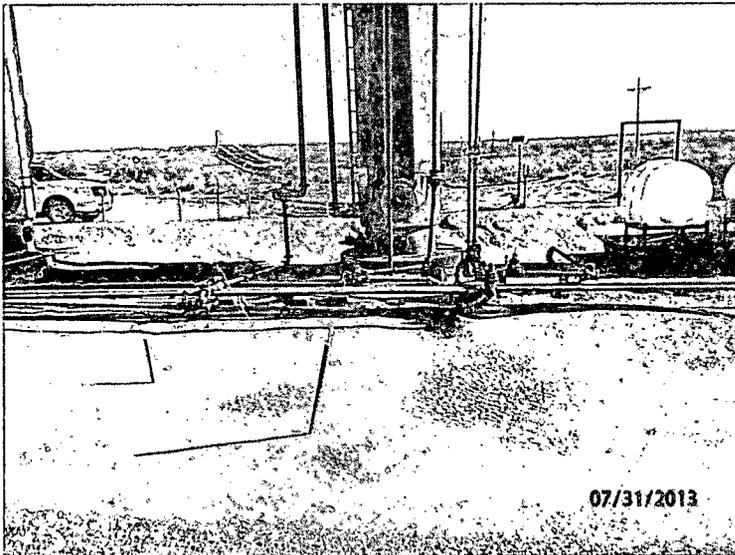
Initial site photo, facing west

7/31/13



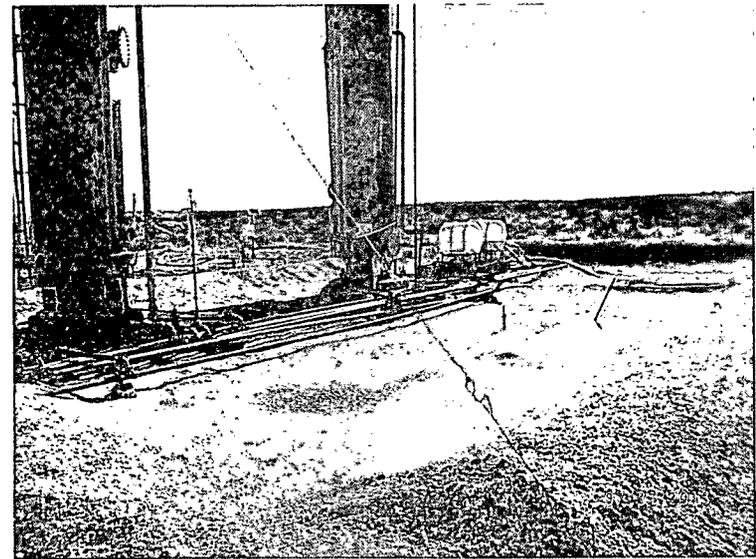
Initial site photo, facing west

7/31/13



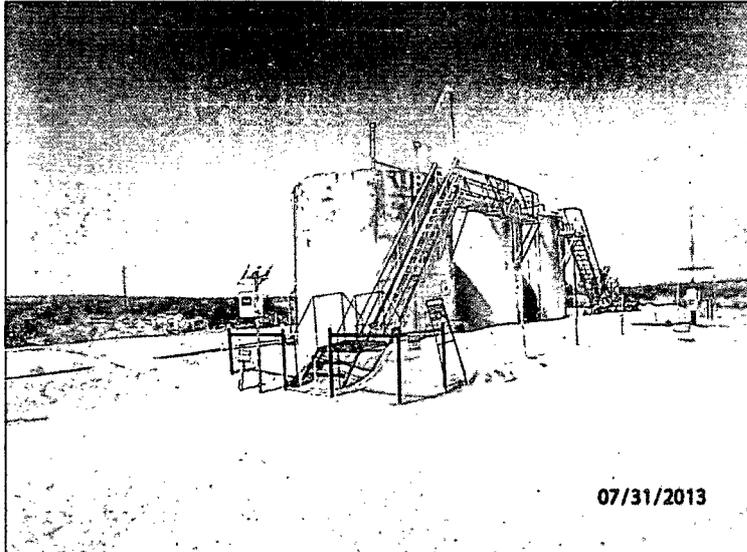
Initial site photo, facing north

7/31/13



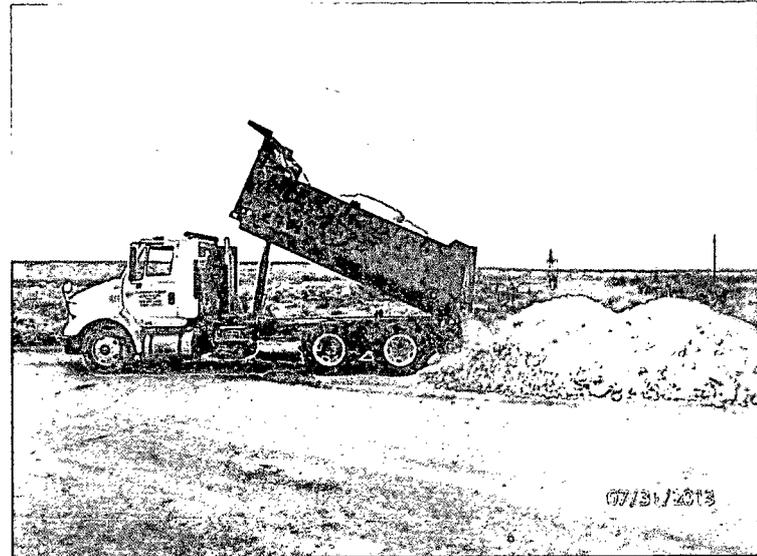
Initial site photo, facing northeast

7/31/13



Initial site photo, facing southwest

7/31/13



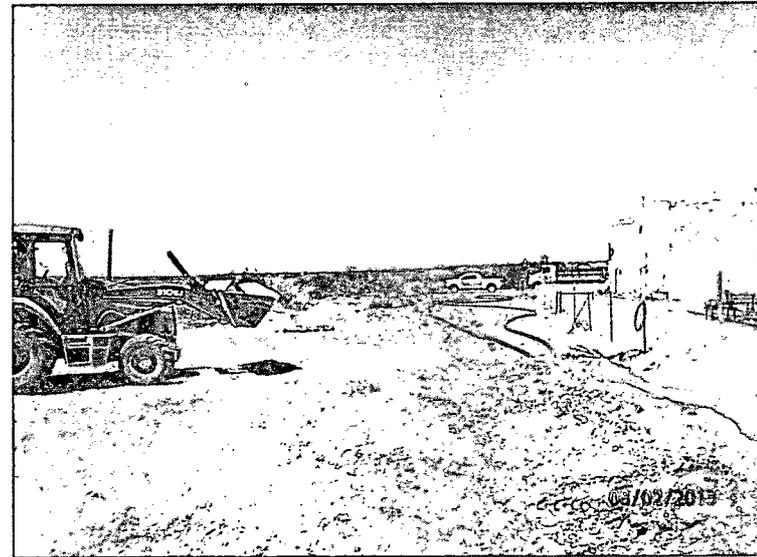
Import caliche, facing northwest

7/31/13

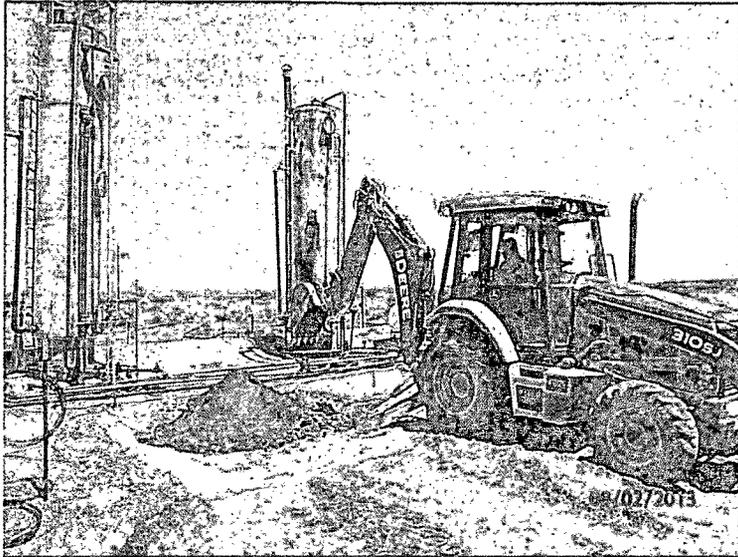


Import top soil, facing northwest

7/31/13

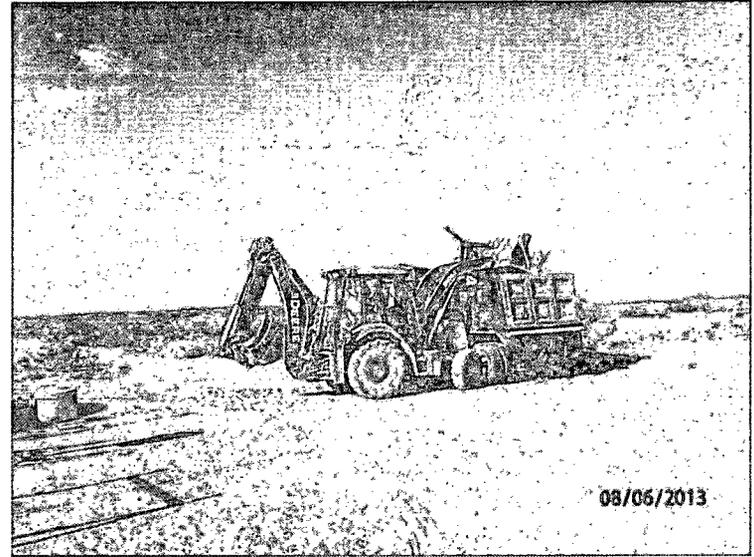


Removing berm on southeast corner, facing west 8/2/13



Install vertical, facing northeast

8/2/13



Exporting soil, facing southwest

8/6/13



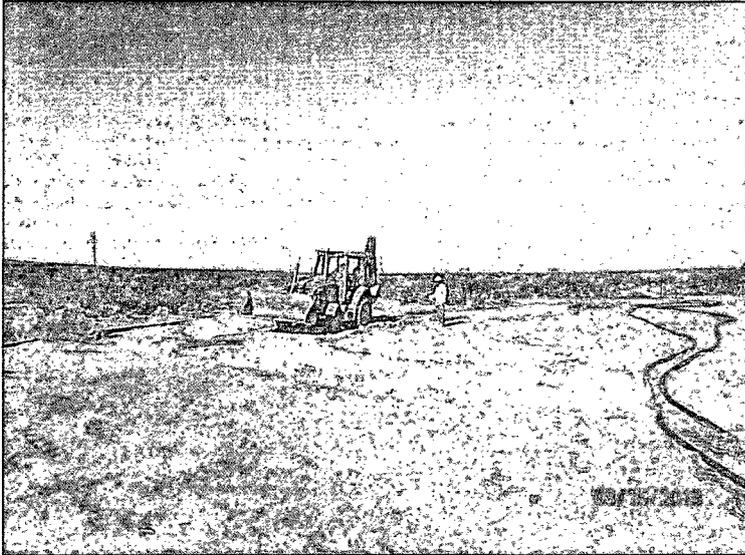
Taking vertical sample, facing northwest

8/2/13

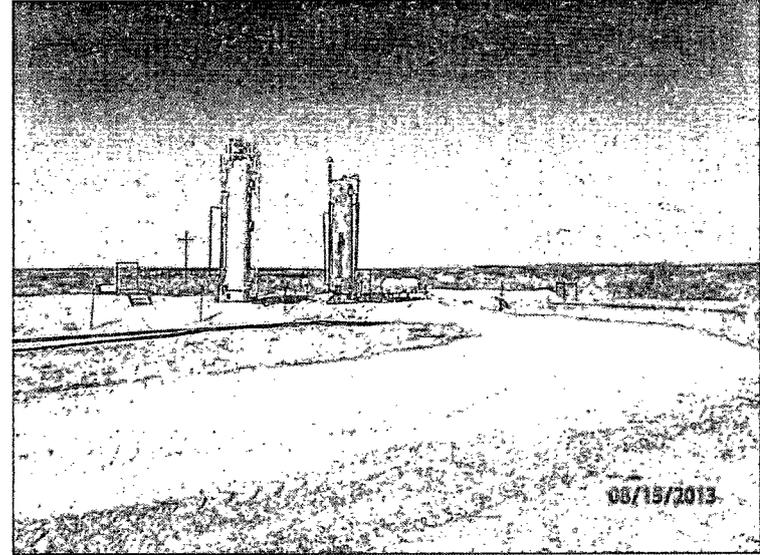


Backfilling vertical, facing west

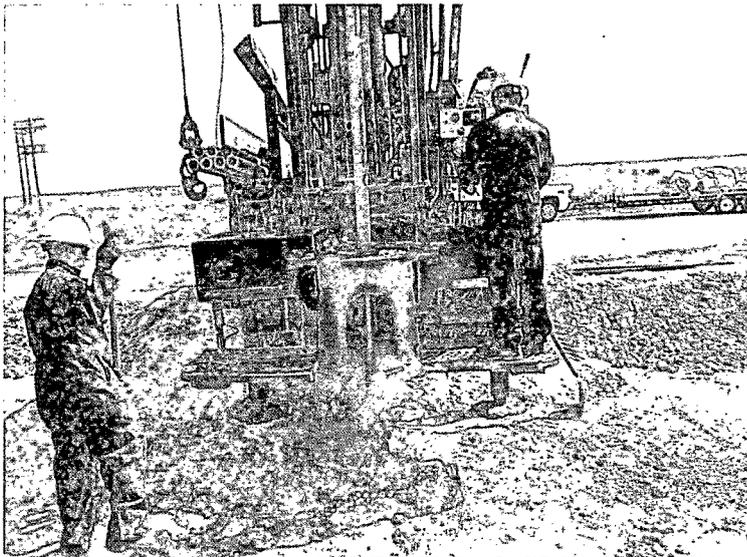
8/5/13



Building caliche road for SB installation, facing SW 8/15/13



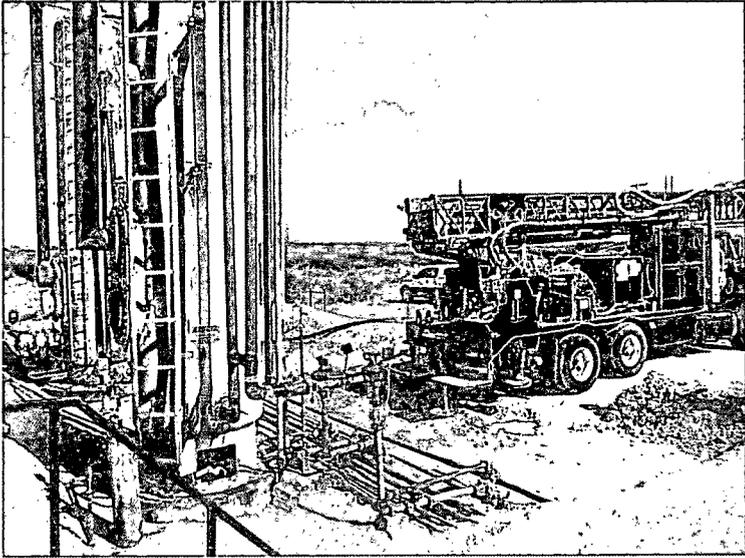
Caliche road completed, facing northeast 8/15/13



Installing soil bore, facing south 8/20/13



Plugging the soil bore in total with bentonite 8/20/13



Completed soil bore, facing southeast

8/20/13