

QUANTUM RESOURCES

5 Houston Center
1401 McKinney Street, Suite 2400
Houston, TX 77010
Phone 713.452.2200

State E 1288 Battery

Termination Request

Unit Letter F, Section 27, Township 18S, Range 28E

Rice Environmental Consulting & Safety

P.O. Box 2948, Hobbs, NM 88241

Phone 575.393.2967

August 20th, 2013

Mike Bratcher

New Mexico Energy, Minerals, & Natural Resources

Oil Conservation Division, Environmental Bureau – District 2

811 S. First St.

Artesia, NM 88210

RE: Termination Request

Quantum Resources – State E 1288 Battery

UL/F sec. 27 T18S R28E

Mr. Bratcher:

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

Background and Previous Work

The site is located approximately 12.5 miles southwest of Loco Hills, New Mexico at UL/F sec. 27 T18S R28E. NM OSE and BLM records indicate that the depth to groundwater at the site is approximately 145 ft bgs. However, soil bore installation at the site found no groundwater in the area.

RECS personnel were on site beginning on October 31st, 2012 to take initial samples of the release. Samples were taken at the surface and at depth and field tested for chlorides and hydrocarbons (Figure 1). The samples were taken to a commercial laboratory for confirmation of field numbers. Laboratory readings showed elevated chlorides results which decreased with depth. GRO readings at all points and at all depth were non-detect. DRO readings were slightly elevated, especially with depth. The exception to this was at Pt. 5 where the DRO readings decreased with depth (Appendix A).

Five verticals were installed at the site to determine the extent of contamination in the vadose zone (Figure 2). Vertical #1 was excavated to a depth of 16 ft bgs where the field chloride reading was 922 mg/kg. Vertical #2 was excavated to a depth of 4 ft bgs. The 3 ft and 4 ft samples were taken to a commercial laboratory for analysis of chlorides and hydrocarbons. The samples returned laboratory chloride readings below 250 mg/kg and GRO readings of non-detect. The 3 ft sample returned a DRO reading of 3,240 mg/kg and the 4 ft sample returned a DRO reading of 3,760 mg/kg. Vertical #3 was excavated to a depth of 5 ft bgs. The 4 ft and 5 ft samples were taken to a commercial laboratory for analysis of chlorides and hydrocarbons. The samples returned laboratory chloride readings below 250 mg/kg and GRO and DRO readings of non-detect. Vertical #4 was excavated to a depth of 3 ft bgs. The 2 ft and 3 ft samples were taken to a commercial laboratory for analysis of chlorides and hydrocarbons. The 2 ft sample returned a laboratory chloride reading of 480 mg/kg and the 3 ft reading returned a laboratory

chloride reading of 48 mg/kg. Both samples returned GRO and DRO readings of non-detect. Vertical #5 was excavated to a depth of 3 ft bgs. The 2 ft and 3 ft samples were taken to a commercial laboratory for analysis of chlorides and hydrocarbons. The samples returned laboratory chloride readings below 250 mg/kg and GRO and DRO readings of non-detect (Appendix B).

On December 18th, 2012, four soil bores were installed at the site (Figure 3). The bores were sampled at regular intervals as they were being installed and the samples were field tested for chlorides and hydrocarbons. Representative samples from each bore were taken to a commercial laboratory for analysis (Appendix C). SB-1 returned laboratory chloride results of 400 mg/kg at 3 ft bgs and 48 mg/kg at 6 ft bgs. SB-2 returned laboratory chloride results of 32 mg/kg at 9 ft and 12 ft bgs. SB-3 returned laboratory chloride results of 8,720 mg/kg at the surface and 2,380 mg/kg at 65 ft bgs. At 66 ft bgs, red bed clay was encountered, which indicates the bottom of the aquifer. The bore was drilled down to approximately 76 ft bgs and left open to allow groundwater to accumulate. On December 22nd, 2012, ARC Environmental checked the bore with a Solinst Water Level Meter for water accumulation. The meter indicated no water within the borehole to a depth of 68.3 feet. SB-4 returned laboratory chloride results of 128 mg/kg at 6 ft bgs and 192 mg/kg at 9 ft bgs. GRO and DRO results in all bores at all depth were non-detect, except for SB-3 where the DRO reading and the surface was 161 mg/kg.

RECS personnel met with NMOCD – District 2 on May 21st, 2013. NMOCD required that the entire release area be scraped down 18 inches. At SB-3, the area was to be scraped down to 1 ft bgs and the soil exported to a NMOCD approved facility. Then the area was to be excavated down another 2 ft bgs and that soil be stockpiled on the site. At 3 ft bgs, a 1 ft thick clay layer was to be installed and then backfilled with the stockpiled soil. In the pasture, to the southwest, the area was to be scraped down 2 ft bgs (Figure 4).

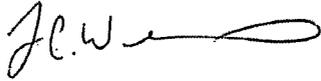
On June 20th, 2013, RECS personnel were on site to begin the scraping and excavation actions (Figure 5). The areas were scraped down as required by NMOCD. A total of 420 yards of excavated soil was taken to NMOCD approved facility for disposal. A total of 440 yards of soil and 12 yards of red clay was imported to the site. The scraped areas were backfilled with the clean, imported soil. At SB-3 at a depth of 3 ft bgs, a 1 ft thick clay layer was installed and properly seated into the excavation. On June 28th, 2013, Pettigrew & Associates was on site to conduct a clay compaction test on the clay layer (Appendix D). The Dry Density Percent Max result was 95.9 and the Percent Moisture result was 11.3. The excavation was then backfilled with the stockpiled soil to bring the excavation back to surface level.

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

Due to the removal of the impacted soils and the installation of the clay layer as directed by NMOCD District-2 and given the lack of groundwater at the site, RECS, on behalf of Quantum Resources, submits the final C-141 (Appendix F) and respectfully requests the closure of the regulatory file for this site.

RECS appreciates the opportunity to work with you on this project. Please call Hack Conder at (575) 631-6432 if you wish to discuss the site.

Sincerely,

A handwritten signature in black ink, appearing to read "Lara Weinheimer". The signature is fluid and cursive, with a long horizontal flourish extending to the right.

Lara Weinheimer
Project Scientist
RECS
(575) 441-0431

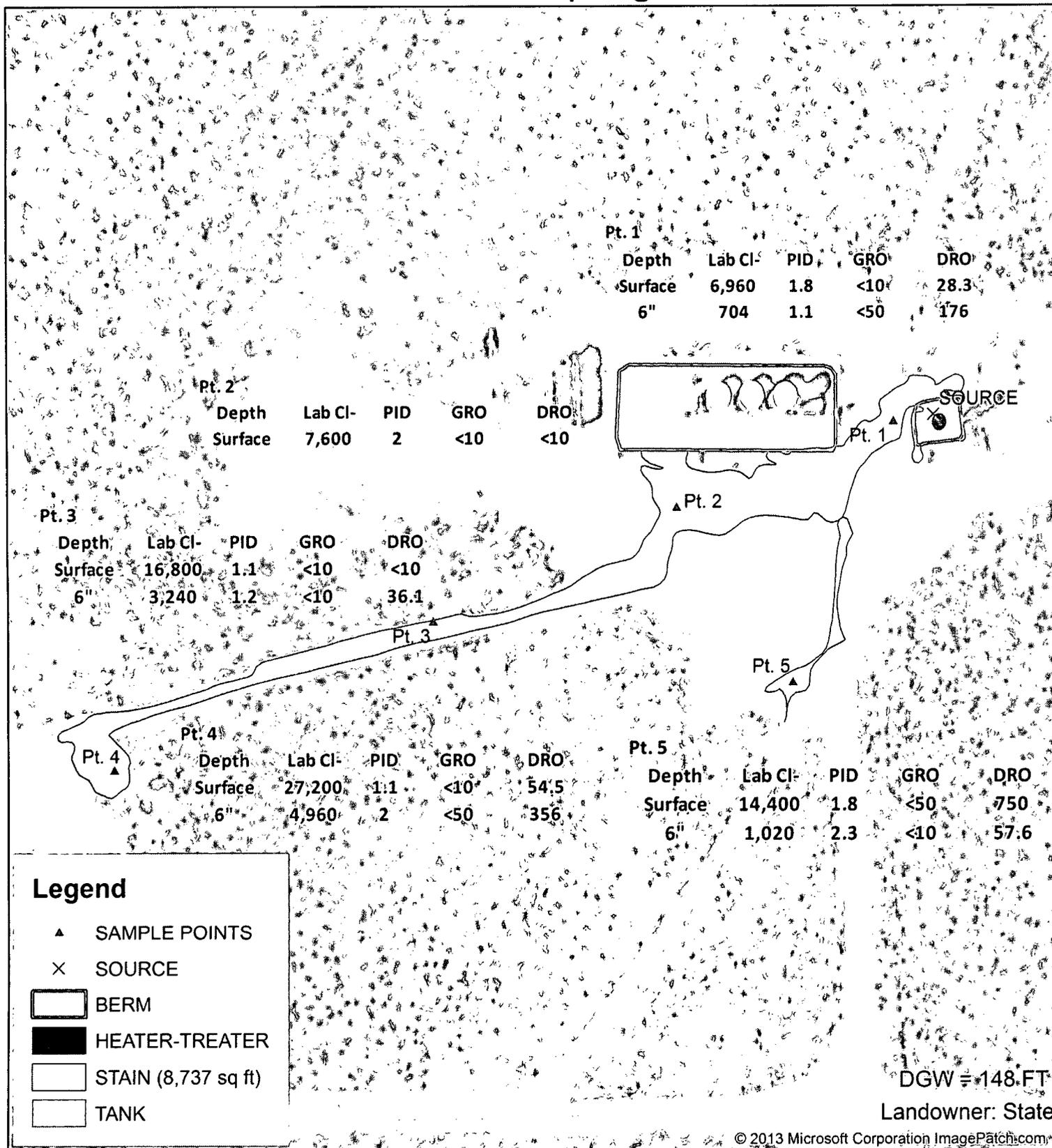
Attachments:

- Figure 1 – Initial Lab Sampling Data
- Figure 2 – Vertical Sampling Data
- Figure 3 – Soil Bore Installation Map
- Figure 4 – NMOCD Approved Corrective Actions
- Figure 5 – Excavation Data
- Appendix A – Initial Sampling Laboratory Analyses
- Appendix B – Vertical Sampling Laboratory Analyses
- Appendix C – Soil Bore Installation Documentation
- Appendix D – Clay Compaction Test
- Appendix E – Photo Documentation
- Appendix F – Final C-141

Figures

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

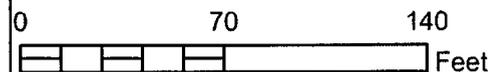
Initial Lab Sampling Data



QUANTUM STATE E 1288 BATTERY

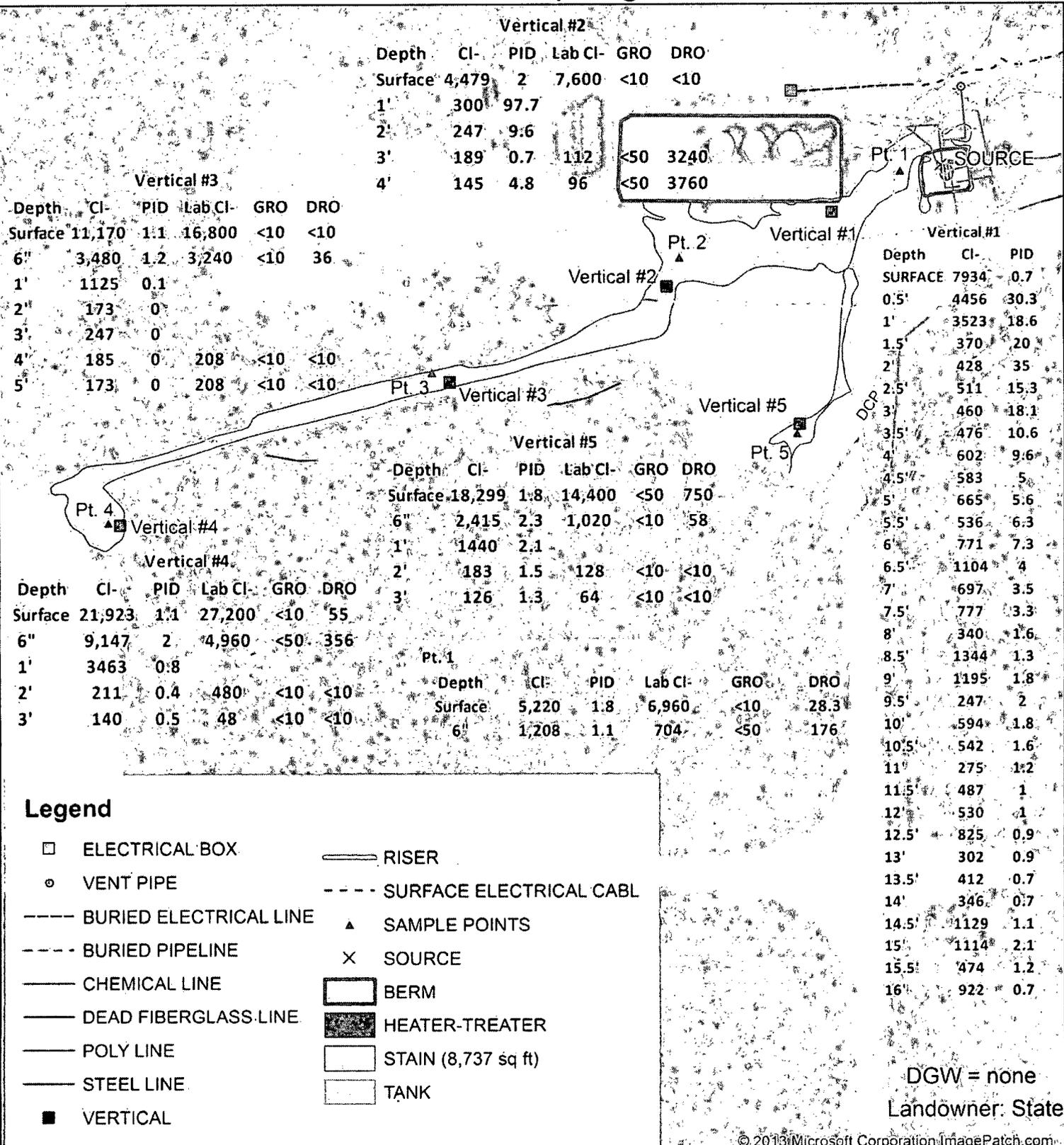
LEGALS: UL/F sec. 27
T-18-S R-28-E
EDDY COUNTY, NM

Figure 1



GPS date: 10/31/12 DH
Drawing date: 11/5/12
Drafted by: A.C. Ruth

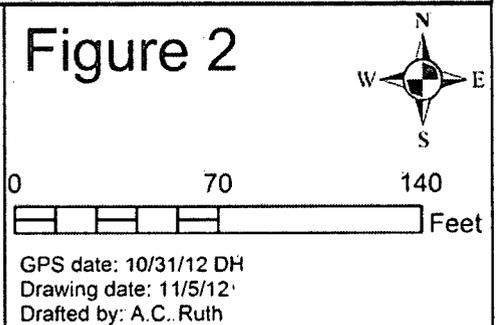
Vertical Sampling Data



**QUANTUM STATE
E 1288 BATTERY**

LEGALS: UL/F sec. 27
T-18-S R-28-E
EDDY COUNTY, NM

Figure 2



Soil Bore Installation

SB-1					
Depth	Cl-	PID	LAB Cl-	GRO	DRO
SS	4491	1.6			
3	214	3.9	400	<50	<50
6	139	2	48	<10	<10

SB-2					
Depth	Cl-	PID	LAB Cl-	GRO	DRO
SS	2682	1.2			
3	250	1.2			
6	1170	1.4			
9	132	1.3	32	<10	<10
12	115	1.5	32	<10	<10

SB-3					
Depth	Cl-	PID	LAB Cl-	GRO	DRO
SS	9057	0.8	8720	<50	161
3	861	4.3			
6	344	1.9			
9	445	1.5			
12	3049	1.3			
15	4178	1.1			
18	3880	1.6			
21	3078	1.2			
24	3965	1.1			
27	3235	1.6			
30	3239	1			
33	2924	0.6			
36	3145	0.7			
40	2533	1.1			
45	3453	1.2			
50	2863	1.1			
55	1826	2			
60	1864	0.9			
65	1147	0.5	2380	<10	<10
66-76	RED BED CLAY				

SB-4					
Depth	Cl-	PID	LAB Cl-	GRO	DRO
SS	30573	0.7			
3	679	0.7			
6	192	1	128	<10	<10
9	247	0.9	192	<10	<10

Legend

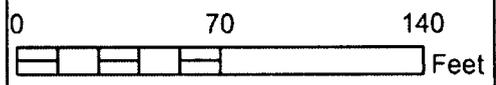
- ⊙ SOIL BORES
- ELECTRICAL BOX
- VENT PIPE
- BURIED ELECTRICAL LINE
- BURIED PIPELINE
- CHEMICAL LINE
- DEAD FIBERGLASS LINE
- POLY LINE
- STEEL LINE
- RISER
- SURFACE ELECTRICAL CABL
- X SOURCE
- ▭ BERM
- ▬ HEATER-TREATER
- ▭ STAIN (8,737 sq ft)
- ▭ TANK



QUANTUM STATE E 1288 BATTERY

LEGALS: UL/F sec. 27
T-18-S R-28-E
EDDY COUNTY, NM

Figure 3

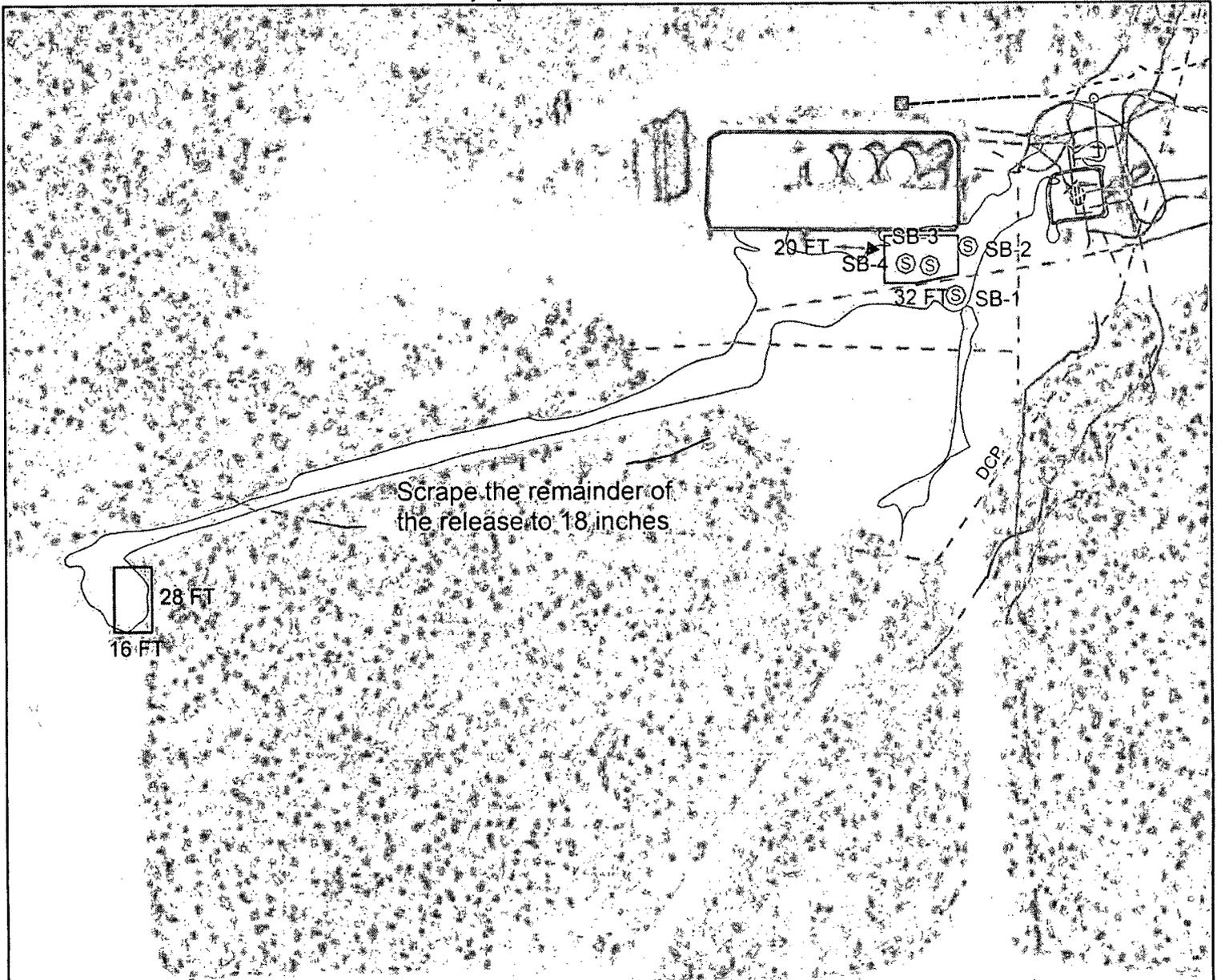


GPS date: 10/31/12 DH
Drawing date: 11/5/12
Drafted by: A.C. Ruth

DGW = None
Landowner: State

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NMOCD Approved Corrective Actions



Legend

- | | | |
|----------------------------|--------------------------------|------------------------------|
| ⊙ SOIL BORES | — CHEMICAL LINE | ▭ BERM |
| ⊠ ELECTRICAL BOX | — DEAD FIBERGLASS LINE | ▭ EXCAVATION TO 2 FT |
| ○ VENT PIPE | — POLY LINE | ▭ EXCAVATION WITH CLAY LINER |
| --- BURIED ELECTRICAL LINE | — STEEL LINE | ▨ HEATER-TREATER |
| - - - BURIED PIPELINE | — RISER | ▭ STAIN (8,737 sq ft) |
| | - - - SURFACE ELECTRICAL CABLE | ▭ TANK |
| | × SOURCE | |

DGW = None
Landowner: State

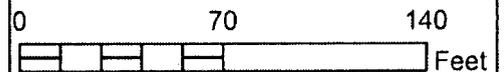
ImagePatch.com



QUANTUM STATE E 1288 BATTERY

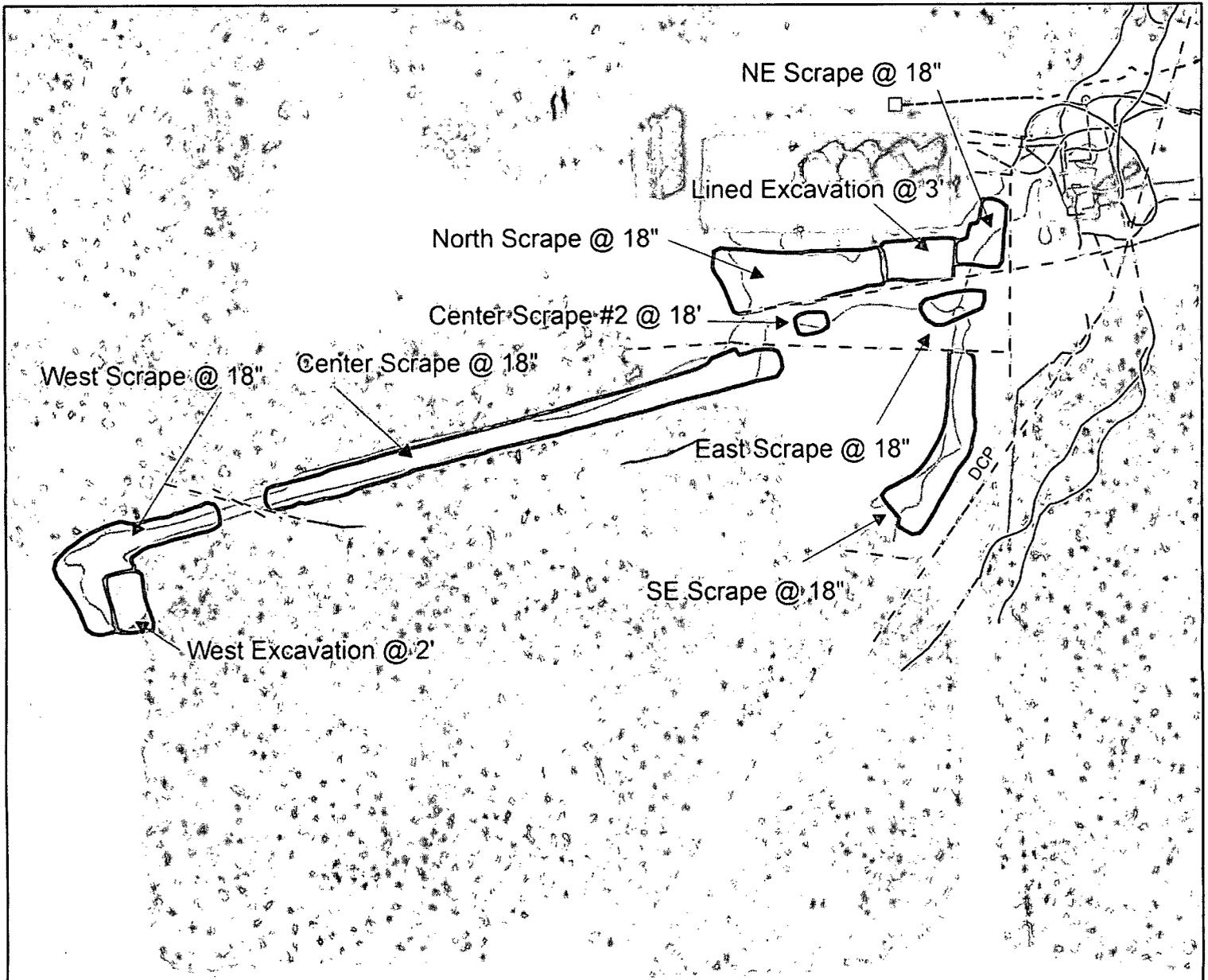
LEGALS: UL/F sec. 27
T-18-S R-28-E
EDDY COUNTY, NM

Figure 4



GPS date: 10/31/12 DH
Drawing date: 5/22/13
Drafted by: L. Weinheimer

Excavation Data



Legend

- | | |
|----------------------------|-----------------------------|
| □ ELECTRICAL BOX | --- SURFACE ELECTRICAL CABL |
| ○ VENT PIPE | ▭ SCRAPER |
| --- BURIED ELECTRICAL LINE | ▭ BERM |
| --- BURIED PIPELINE | ▭ HEATER-TREATER |
| — CHEMICAL LINE | ▭ STAIN (8,737 sq ft) |
| — DEAD FIBERGLASS LINE | ▭ TANK |
| — POLY LINE | |
| — STEEL LINE | |
| — RISER | |

Landowner: State

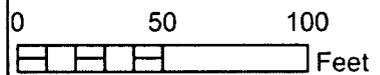
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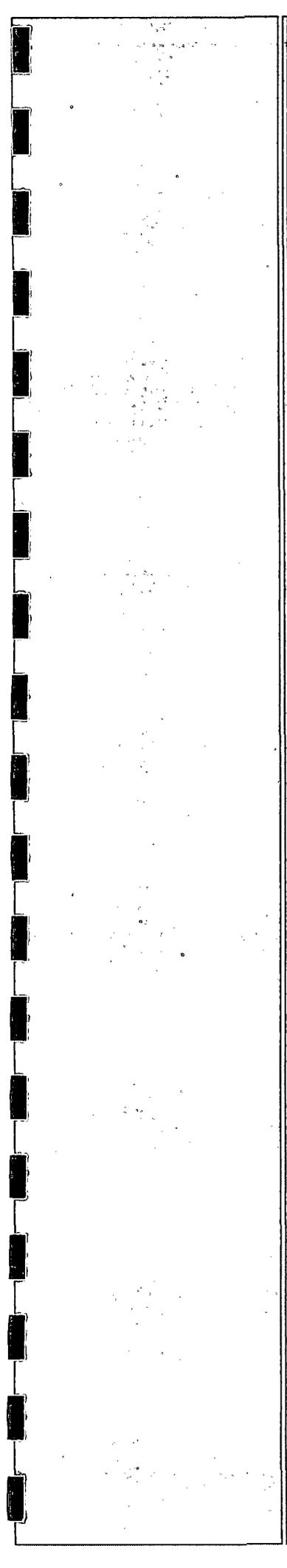
QUANTUM STATE E 1288 BATTERY

LEGALS: UL/F sec. 27
T-18-S R-28-E
EDDY COUNTY, NM

Figure 5



GPS date: 6/21/13 CF, 6/26/13 CF
Drawing date: 6/24/13, 6/27/13
Drafted by: L. Weinheimer



Appendix A

Initial Sampling Laboratory Analyses

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

November 05, 2012

BRUCE BAKER

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

112 W. TAYLOR

HOBBS, NM 88240

RE: STATE 1288 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 11/01/12 11:07.

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/ga/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,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 RICE ENVIRONMENTAL CONSULTING & SAFETY
 BRUCE BAKER
 112 W. TAYLOR
 HOBBS NM, 88240
 Fax To: (575) 397-1471

 Received: 11/01/2012
 Reported: 11/05/2012
 Project Name: STATE 1288 BATTERY
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 10/31/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: PT. 1 SURFACE (H202661-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6960	16.0	11/05/2012	ND	400	100	400	3.92	
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	11/03/2012	ND	204	102	200	8.19	
DRO >C10-C28	28.3	10.0	11/03/2012	ND	218	109	200	8.81	
<i>Surrogate: 1-Chlorooctane</i>	<i>91.1 %</i>	<i>65.2-140</i>							
<i>Surrogate: 1-Chlorooctadecane</i>	<i>103 %</i>	<i>63.6-154</i>							

Sample ID: PT. 1 @ 6" (H202661-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	11/05/2012	ND	400	100	400	3.92	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	11/03/2012	ND	204	102	200	8.19	
DRO >C10-C28	176	50.0	11/03/2012	ND	218	109	200	8.81	
<i>Surrogate: 1-Chlorooctane</i>	<i>88.7 %</i>	<i>65.2-140</i>							
<i>Surrogate: 1-Chlorooctadecane</i>	<i>103 %</i>	<i>63.6-154</i>							

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

RICE ENVIRONMENTAL CONSULTING & SAFETY
 BRUCE BAKER
 112 W. TAYLOR
 HOBBS NM, 88240
 Fax To: (575) 397-1471

Received: 11/01/2012
 Reported: 11/05/2012
 Project Name: STATE 1288 BATTERY
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 10/31/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: PT. 2 SURFACE (H202661-03)

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7600	16.0	11/05/2012	ND	416	104	400	3.77	

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	11/03/2012	ND	204	102	200	8.19	
DRO >C10-C28	<10.0	10.0	11/03/2012	ND	218	109	200	8.81	

Surrogate: 1-Chlorooctane 93.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 105 % 63.6-154

Sample ID: PT. 3 SURFACE (H202661-04)

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16800	16.0	11/05/2012	ND	416	104	400	3.77	

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	11/03/2012	ND	204	102	200	8.19	
DRO >C10-C28	<10.0	10.0	11/03/2012	ND	218	109	200	8.81	

Surrogate: 1-Chlorooctane 94.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 106 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

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RICE ENVIRONMENTAL CONSULTING & SAFETY
 BRUCE BAKER
 112 W. TAYLOR
 HOBBS NM, 88240
 Fax To: (575) 397-1471

Received: 11/01/2012
 Reported: 11/05/2012
 Project Name: STATE 1288 BATTERY
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 10/31/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: PT. 3 @ 6" (H202661-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3240	16.0	11/05/2012	ND	416	104	400	3.77		
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	11/03/2012	ND	204	102	200	8.19		
DRO >C10-C28	36.1	10.0	11/03/2012	ND	218	109	200	8.81		

Surrogate: 1-Chlorooctane 91.0 % 65.2-140
 Surrogate: 1-Chlorooctadecane 107 % 63.6-154

Sample ID: PT. 4 SURFACE (H202661-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	27200	16.0	11/05/2012	ND	416	104	400	3.77		
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	11/03/2012	ND	204	102	200	8.19		
DRO >C10-C28	54.5	10.0	11/03/2012	ND	218	109	200	8.81		

Surrogate: 1-Chlorooctane 91.4 % 65.2-140
 Surrogate: 1-Chlorooctadecane 107 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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 112 W. TAYLOR
 HOBBS NM, 88240
 Fax To: (575) 397-1471

 Received: 11/01/2012
 Reported: 11/05/2012
 Project Name: STATE 1288 BATTERY
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 10/31/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: PT. 4 @ 6" (H202661-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4960	16.0	11/05/2012	ND	416	104	400	3.77		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<50.0	50.0	11/03/2012	ND	204	102	200	8.19		
DRO >C10-C28	356	50.0	11/03/2012	ND	218	109	200	8.81		

Surrogate: 1-Chlorooctane 94.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 123 % 63.6-154

Sample ID: PT. 5 SURFACE (H202661-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	14400	16.0	11/05/2012	ND	416	104	400	3.77		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<50.0	50.0	11/03/2012	ND	204	102	200	8.19		
DRO >C10-C28	750	50.0	11/03/2012	ND	218	109	200	8.81		

Surrogate: 1-Chlorooctane 93.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 133 % 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
 BRUCE BAKER
 112 W. TAYLOR
 HOBBS NM, 88240
 Fax To: (575) 397-1471

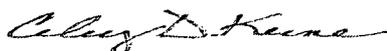
Received:	11/01/2012	Sampling Date:	10/31/2012
Reported:	11/05/2012	Sampling Type:	Soil
Project Name:	STATE 1288 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: PT. 5 @ 6" (H202661-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1020	16.0	11/05/2012	ND	416	104	400	3.77		
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	11/03/2012	ND	204	102	200	8.19		
DRO >C10-C28	57.6	10.0	11/03/2012	ND	218	109	200	8.81		

Surrogate: 1-Chlorooctane 91.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 109 % 63.6-154



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

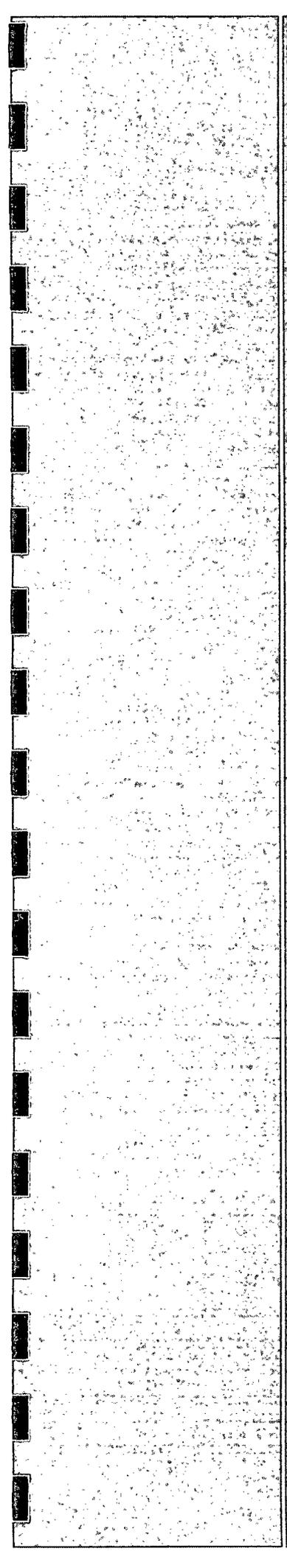
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Celey D. Keene, Lab Director/Quality Manager



Appendix B

Vertical Sampling Laboratory Analyses

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

November 16, 2012

BRUCE BAKER

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

112 W. TAYLOR

HOBBS, NM 88240

RE: QUANTUM STATE E 1288 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 11/14/12 16:26.

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.

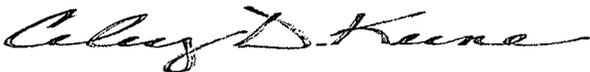
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

RICE ENVIRONMENTAL CONSULTING & SAFETY
 BRUCE BAKER
 112 W. TAYLOR
 HOBBS NM, 88240
 Fax To: (575) 397-1471

Received:	11/14/2012	Sampling Date:	11/14/2012
Reported:	11/16/2012	Sampling Type:	Soil
Project Name:	QUANTUM STATE E 1288 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: VERT 2 @ 3' (H202765-01)

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	11/16/2012	ND	416	104	400	3.92		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<50.0	50.0	11/15/2012	ND	187	93.7	200	1.91		
DRO >C10-C28	3240	50.0	11/15/2012	ND	205	103	200	2.87		

Surrogate: 1-Chlorooctane 82.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 168 % 63.6-154

Sample ID: VERT 2 @ 4' (H202765-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	11/16/2012	ND	432	108	400	3.77		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<50.0	50.0	11/15/2012	ND	187	93.7	200	1.91		
DRO >C10-C28	3760	50.0	11/15/2012	ND	205	103	200	2.87		

Surrogate: 1-Chlorooctane 83.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 167 % 63.6-154

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Celestine D. Keene, Lab Director/Quality Manager

Analytical Results For:

 RICE ENVIRONMENTAL CONSULTING & SAFETY
 BRUCE BAKER
 112 W. TAYLOR
 HOBBS NM, 88240
 Fax To: (575) 397-1471

Received:	11/14/2012	Sampling Date:	11/14/2012
Reported:	11/16/2012	Sampling Type:	Soil
Project Name:	QUANTUM STATE E 1288 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: VERT 3 @ 4' (H202765-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	11/16/2012	ND	432	108	400	3.77		
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	11/15/2012	ND	187	93.7	200	1.91		
DRO >C10-C28	<10.0	10.0	11/15/2012	ND	205	103	200	2.87		

Surrogate: 1-Chlorooctane 78.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 83.4 % 63.6-154

Sample ID: VERT 3 @ 5' (H202765-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	11/16/2012	ND	432	108	400	3.77		
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	11/15/2012	ND	187	93.7	200	1.91		
DRO >C10-C28	<10.0	10.0	11/15/2012	ND	205	103	200	2.87		

Surrogate: 1-Chlorooctane 77.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 82.4 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 RICE ENVIRONMENTAL CONSULTING & SAFETY
 BRUCE BAKER
 112 W. TAYLOR
 HOBBS NM, 88240
 Fax To: (575) 397-1471

Received:	11/14/2012	Sampling Date:	11/14/2012
Reported:	11/16/2012	Sampling Type:	Soil
Project Name:	QUANTUM STATE E 1288 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: VERT 4 @ 2' (H202765-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	480	16.0	11/16/2012	ND	432	108	400	3.77		
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	11/15/2012	ND	187	93.7	200	1.91		
DRO >C10-C28	<10.0	10.0	11/15/2012	ND	205	103	200	2.87		

Surrogate: 1-Chlorooctane 76.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 82.8 % 63.6-154

Sample ID: VERT 4 @ 3' (H202765-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	11/16/2012	ND	432	108	400	3.77		
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	11/15/2012	ND	187	93.7	200	1.91		
DRO >C10-C28	<10.0	10.0	11/15/2012	ND	205	103	200	2.87		

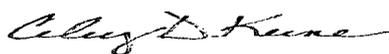
Surrogate: 1-Chlorooctane 79.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 82.5 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 RICE ENVIRONMENTAL CONSULTING & SAFETY
 BRUCE BAKER
 112 W. TAYLOR
 HOBBS NM, 88240
 Fax To: (575) 397-1471

Received:	11/14/2012	Sampling Date:	11/14/2012
Reported:	11/16/2012	Sampling Type:	Soil
Project Name:	QUANTUM STATE E 1288 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: VERT 5 @ 2' (H202765-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	11/16/2012	ND	432	108	400	3.77		
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	11/15/2012	ND	195	97.7	200	1.85		
DRO >C10-C28	<10.0	10.0	11/15/2012	ND	211	105	200	3.20		

Surrogate: 1-Chlorooctane 82.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 90.0 % 63.6-154

Sample ID: VERT 5 @ 3' (H202765-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	11/16/2012	ND	432	108	400	3.77		
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	11/15/2012	ND	195	97.7	200	1.85		
DRO >C10-C28	<10.0	10.0	11/15/2012	ND	211	105	200	3.20		

Surrogate: 1-Chlorooctane 83.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 93.3 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

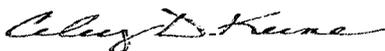
Notes and Definitions

- 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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Celey D. Keene, Lab Director/Quality Manager



Appendix C

Soil Bore Installation Documentation

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

Logger:	Kyle Norman			
Driller:	Harrison & Cooper, Inc.			
Drilling Method:	Air Rotary			
Start Date:	12/18/2012			
End Date:	12/18/2012			
Comments: All samples were from cuttings.		Location: UL/F sec. 27 T-18-S R-28-E	Project Name: Quantum St. E #1288 AD	Well ID: SB-1
TD = 6 FT DRAFTED BY: L. Weinheimer GW = NONE		Lat: 32°43'15.823"N Long: 104°9'53.319"W	County: Eddy State: NM	

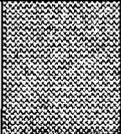
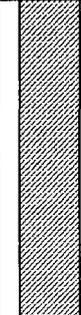
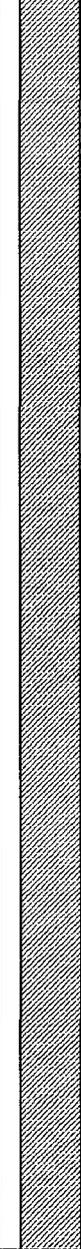
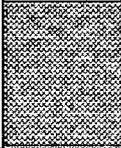
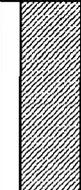
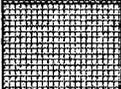
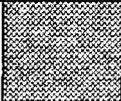
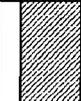
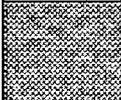
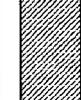
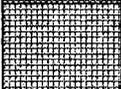
Depth (feet)	Chloride field tests	LAB	PID	Description	Lithology	Well Construction
				Red Sand with Caliche		
SS	4494		1.6			
				Tan Sand with Some Caliche		
3 ft	214	Cl-400	3.9			
		GRO <50				
		DRO <50				
6 ft	139	Cl-48	2.0			
		GRO <10				
		DRO <10				

Logger:	Kyle Norman			
Driller:	Harrison & Cooper, Inc.			
Drilling Method:	Air Rotary		Project Name:	Well ID:
Start Date:	12/18/2012		Quantum St. E #1288 AD	SB-2
End Date:	12/18/2012	Comments: All samples were from cuttings.		
DRAFTED BY: L. Weinheimer		Location: UL/F sec. 27 T-18-S R-28-E		
TD = 12 FT		Lat: 32°43'16.03"N		
GW = NONE		County: Eddy		
		Long: 104°9'53.255"W		
		State: NM		

Depth (feet)	Chloride field tests	LAB	PID	Description	Lithology	Well Construction
				Brown Sand		
SS	2682		1.2			
				Tan Sand with Some Caliche		
3 ft	250		1.2			
6 ft	1170		1.4			
				Tan/Red Sand with Caliche		
9 ft	132	Cl-32	1.3			
		GRO <10				
		DRO <10				
12 ft	115	Cl-32	1.5			
		GRO <10				
		DRO <10				

Logger:	Kyle Norman		
Driller:	Harrison & Cooper, Inc.		
Drilling Method:	Air Rotary		
Start Date:	12/18/2012		
End Date:	12/18/2012		
Project Name: Quantum St. E #1288 AD Well ID: SB-3		Location: UL/F sec. 27 T-18-S R-28-E Lat: 32°43'15.947"N County: Eddy Long: 104°9'53.448"W State: NM	
Comments: All samples were from cuttings. DRAFTED BY: L. Weinheimer TD = 76 FT GW = NONE			

Depth (feet)	Chloride field tests	LAB	PID	Description	Lithology	Well Construction
				Tan Sand with Caliche		
SS	9057	CI-8720	0.8			
		GRO <50		Tan/Brown Sand		
3 ft	861	DRO 161	4.3			
				Red/Tan Sand with Some Caliche		
6 ft	344		1.9			
9 ft	445		1.5			
12 ft	3049		1.3			
				Red Sand		
15 ft	4178		1.1			
18 ft	3880		1.6			
21 ft	3965		1.1			

Depth (feet)	Chloride field tests	LAB	PID	Description	Lithology	Well Construction
				Red Sandy Clay		
24 ft	3235		1.6			
				Red Sand		
27 ft	3239		1.0			
30 ft	2924		1.0			
33 ft	3145		0.6			
36 ft	2533		0.7			
				Red Sandy Clay		
40 ft	3453		1.1			
45 ft	2863		1.2			
50 ft	1826		1.1			
				RED BED CLAY		
55 ft	1826		2.0			
				Red Sandy Clay		
60 ft	1864		0.9			
				Red Sandy Clay		
65 ft	1147	CI-2380 GRO <10 DRO <10	0.5			
				RED BED CLAY		
66 FT						
76 FT						

Logger:	Kyle Norman		
Driller:	Harrison & Cooper, Inc.		
Drilling Method:	Air Rotary		
Start Date:	12/18/2012		
End Date:	12/18/2012		
Project Name: Quantum St. E #1288 AD		Well ID: SB-4	
Comments: All samples were from cuttings. DRAFTED BY: L. Weinheimer TD = 9 FT GW = NONE		Location: UL/F sec. 27 T-18-S R-28-E Lat: 32°43'15.96"N County: Eddy Long: 104°9'53.568"W State: NM	

Depth (feet)	Chloride field tests	LAB	PID	Description	Lithology	Well Construction
				Tan Sand with Some Caliche		
SS	30573		0.7			
				Tan/Brown Sand		
3 ft	697		0.7			
				Tan Sand		
6 ft	192	Cl-128	1.0			
		GRO <10				
		DRO <10				
9 ft	247	Cl-192	0.9			
		GRO <10				
		DRO <10				

December 26, 2012

BRUCE BAKER

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

112 W. TAYLOR

HOBBS, NM 88240

RE: STATE E #1288

Enclosed are the results of analyses for samples received by the laboratory on 12/19/12 13:40.

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,



Hope Moreno

Inorganic Technical Director

Analytical Results For:

 RICE ENVIRONMENTAL CONSULTING & SAFETY
 BRUCE BAKER
 112 W. TAYLOR
 HOBBS NM, 88240
 Fax To: (575) 397-1471

 Received: 12/19/2012
 Reported: 12/26/2012
 Project Name: STATE E #1288
 Project Number: NOT GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 12/18/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SB 1 @ 3' (H203057-01)

Chloride, SM4500Cl-B		mg/L		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride*	400	4.00	12/26/2012	ND	416	104	400	7.41		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<50.0	50.0	12/22/2012	ND	198	98.8	200	1.02		
DRO >C10-C28	<50.0	50.0	12/22/2012	ND	223	111	200	1.72		
<i>Surrogate: 1-Chlorooctane</i>		<i>80.7 %</i>	<i>65.2-140</i>							
<i>Surrogate: 1-Chlorooctadecane</i>		<i>88.8 %</i>	<i>63.6-154</i>							

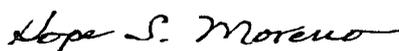
Sample ID: SB 1 @ 6' (H203057-02)

Chloride, SM4500Cl-B		mg/L		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride*	48.0	4.00	12/26/2012	ND	416	104	400	7.41		
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	12/22/2012	ND	198	98.8	200	1.02		
DRO >C10-C28	<10.0	10.0	12/22/2012	ND	223	111	200	1.72		
<i>Surrogate: 1-Chlorooctane</i>		<i>84.6 %</i>	<i>65.2-140</i>							
<i>Surrogate: 1-Chlorooctadecane</i>		<i>95.0 %</i>	<i>63.6-154</i>							

Cardinal Laboratories

* = Accredited Analyte

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Hope Moreno, Inorganic Technical Director

Analytical Results For:

 RICE ENVIRONMENTAL CONSULTING & SAFETY
 BRUCE BAKER
 112 W. TAYLOR
 HOBBS NM, 88240
 Fax To: (575) 397-1471

 Received: 12/19/2012
 Reported: 12/26/2012
 Project Name: STATE E #1288
 Project Number: NOT GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 12/18/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SB 2 @ 9' (H203057-03)

Chloride, SM4500CI-B		mg/L		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride*	32.0	4.00	12/26/2012	ND	416	104	400	7.41		
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	12/22/2012	ND	198	98.8	200	1.02		
DRO >C10-C28	<10.0	10.0	12/22/2012	ND	223	111	200	1.72		
<i>Surrogate: 1-Chlorooctane</i>		<i>77.9 %</i>	<i>65.2-140</i>							
<i>Surrogate: 1-Chlorooctadecane</i>		<i>87.6 %</i>	<i>63.6-154</i>							

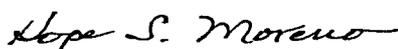
Sample ID: SB 2 @ 12' (H203057-04)

Chloride, SM4500CI-B		mg/L		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride*	32.0	4.00	12/26/2012	ND	416	104	400	7.41		
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	12/22/2012	ND	198	98.8	200	1.02		
DRO >C10-C28	<10.0	10.0	12/22/2012	ND	223	111	200	1.72		
<i>Surrogate: 1-Chlorooctane</i>		<i>77.4 %</i>	<i>65.2-140</i>							
<i>Surrogate: 1-Chlorooctadecane</i>		<i>85.6 %</i>	<i>63.6-154</i>							

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*=Accredited Analyte

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Hope Moreno, Inorganic Technical Director

Analytical Results For:

 RICE ENVIRONMENTAL CONSULTING & SAFETY
 BRUCE BAKER
 112 W. TAYLOR
 HOBBS NM, 88240
 Fax To: (575) 397-1471

Received:	12/19/2012	Sampling Date:	12/18/2012
Reported:	12/26/2012	Sampling Type:	Soil
Project Name:	STATE E #1288	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SB 3 @ SURFACE (H203057-05)

Chloride, SM4500Cl-B		mg/L		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride*	8720	4.00	12/26/2012	ND	416	104	400	7.41		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<50.0	50.0	12/22/2012	ND	198	98.8	200	1.02		
DRO >C10-C28	161	50.0	12/22/2012	ND	223	111	200	1.72		
<i>Surrogate: 1-Chlorooctane</i>	<i>80.9 %</i>	<i>65.2-140</i>								
<i>Surrogate: 1-Chlorooctadecane</i>	<i>100 %</i>	<i>63.6-154</i>								

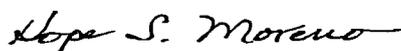
Sample ID: SB 3 @ 65' (H203057-06)

Chloride, SM4500Cl-B		mg/L		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride*	2380	4.00	12/26/2012	ND	416	104	400	7.41		
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	12/22/2012	ND	198	98.8	200	1.02		
DRO >C10-C28	<10.0	10.0	12/22/2012	ND	223	111	200	1.72		
<i>Surrogate: 1-Chlorooctane</i>	<i>80.4 %</i>	<i>65.2-140</i>								
<i>Surrogate: 1-Chlorooctadecane</i>	<i>89.2 %</i>	<i>63.6-154</i>								

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*=Accredited Analyte

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Hope Moreno, Inorganic Technical Director

Analytical Results For:

 RICE ENVIRONMENTAL CONSULTING & SAFETY
 BRUCE BAKER
 112 W. TAYLOR
 HOBBS NM, 88240
 Fax To: (575) 397-1471

 Received: 12/19/2012
 Reported: 12/26/2012
 Project Name: STATE E #1288
 Project Number: NOT GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 12/18/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SB 4 @ 6' (H203057-07)

Chloride, SM4500Cl-B		mg/L		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride*	128	4.00	12/26/2012	ND	416	104	400	7.41		
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	12/22/2012	ND	198	98.8	200	1.02		
DRO >C10-C28	<10.0	10.0	12/22/2012	ND	223	111	200	1.72		

Surrogate: 1-Chlorooctane 84.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 91.1 % 63.6-154

Sample ID: SB 4 @ 9' (H203057-08)

Chloride, SM4500Cl-B		mg/L		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride*	192	4.00	12/26/2012	ND	416	104	400	7.41		
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	12/22/2012	ND	198	98.8	200	1.02		
DRO >C10-C28	<10.0	10.0	12/22/2012	ND	223	111	200	1.72		

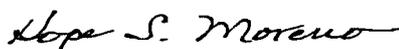
Surrogate: 1-Chlorooctane 81.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 91.8 % 63.6-154

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*=Accredited Analyte

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Hope Moreno, Inorganic Technical Director

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

Cardinal Laboratories

*=Accredited Analyte

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Hope S. Moreno

Hope Moreno, Inorganic Technical Director

Arc Environmental

P. O. Box 1772
Lovington, New Mexico 88260
(575) 631-9310
Rozanne Johnson ~ rozanne@valornet.com

December 24, 2012

Mr. Hack Conder
RICE Environmental Consulting and Safety
112 West Taylor
Hobbs, New Mexico 88240

Re: Quantum State E 1288 Battery

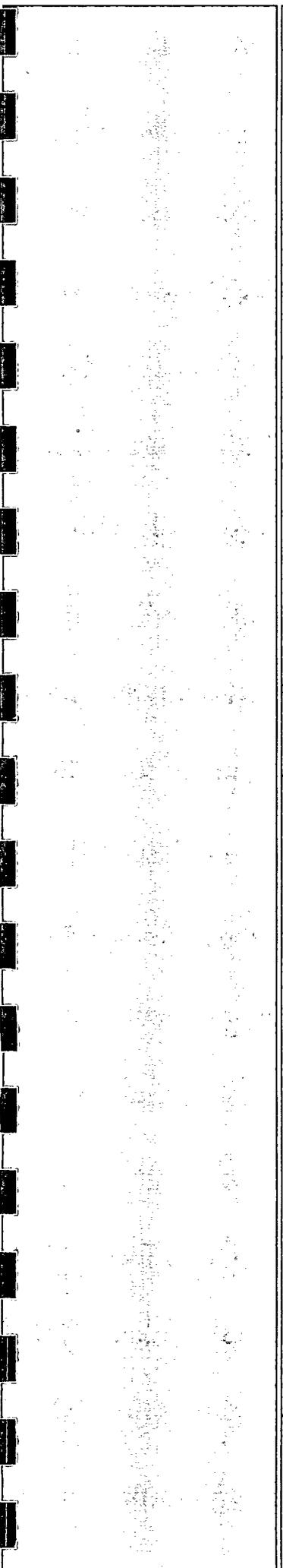
Mr. Conder,

On Saturday December 22, 2012 soil bore #1 at the Quantum State E 1288 Battery, Eddy County T18S, R28E, Sec 27 UL/F was checked with a Solinist Water Level Meter for water accumulation within the borehole. The meter indicated no water within the borehole at the total depth of 68.30 feet.

Sincerely,
Arc Environmental

Rozanne Johnson
Rozanne Johnson

Electronic Copy: Hack Conder
Bruce Baker
Katie Jones



Appendix D

Clay Compaction Test

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



LABORATORY TEST REPORT
PETTIGREW & ASSOCIATES, P.A.

100 E. Navajo, Suite 100
Hobbs, NM 88240
(575) 393-9827



DEBRA P. HICKS, P.E./L.S.I.
WILLIAM M. HICKS, III, P.E./P.S.

To: Rice Environmental Consulting
& Safety, LLC
419 W. Cain
Hobbs, NM 88240

Material: Red Clay

Project: Quantum State E-1288 Battery
Project No. 2013.1182

Test Method: ASTM: D 6938

Date of Test: June 28, 2013

Depth: See Below

Depth of Probe: 12"

Test No.	Location	Dry Density % Max	% Moisture	Depth
SG 1	Battery Pad 3' N. & 5' E. of SW Corner	95.5	11.3	FSG

Control Density: 100.6
ASTM: D 698

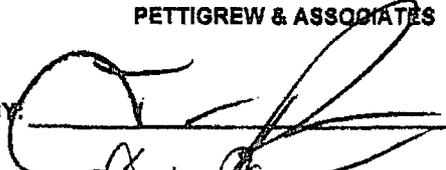
Optimum Moisture: 19.6%
STD/STAT 3570/468

Required Compaction: 90-95%

Densometer ID: 5572

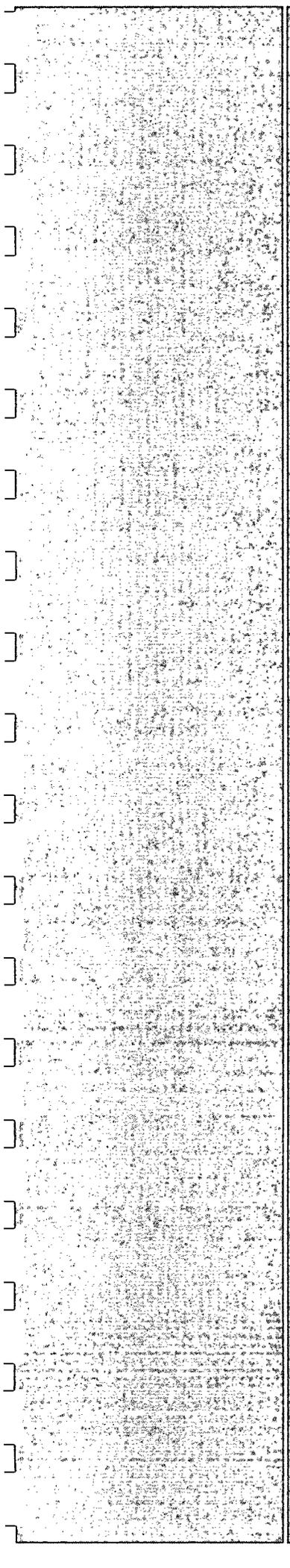
PETTIGREW & ASSOCIATES

Lab No.: 13 4196 4198

BY: 

Copies To: Jacob Kamplain

BY:  **P.E.**



Appendix E

Photo Documentation

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

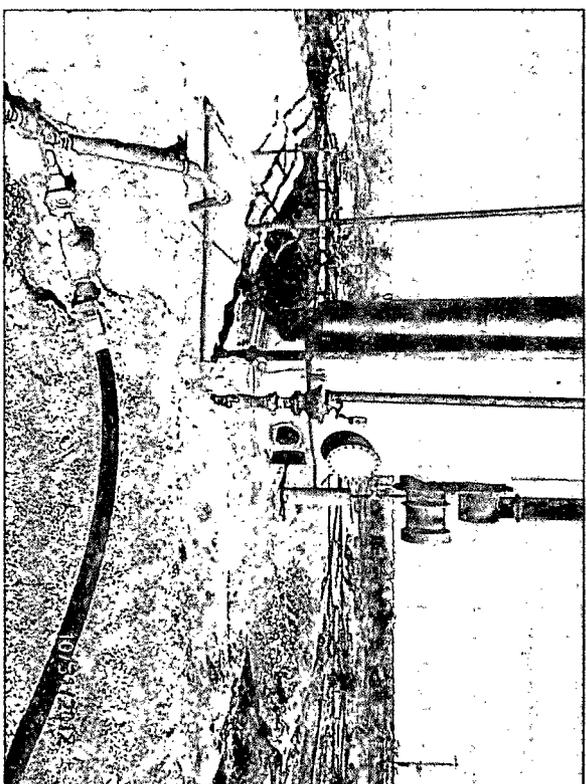
Quantum State E 1288 Battery

Unit Letter F, Section 27, T18S, R28E



Source of release, facing east

10/31/12



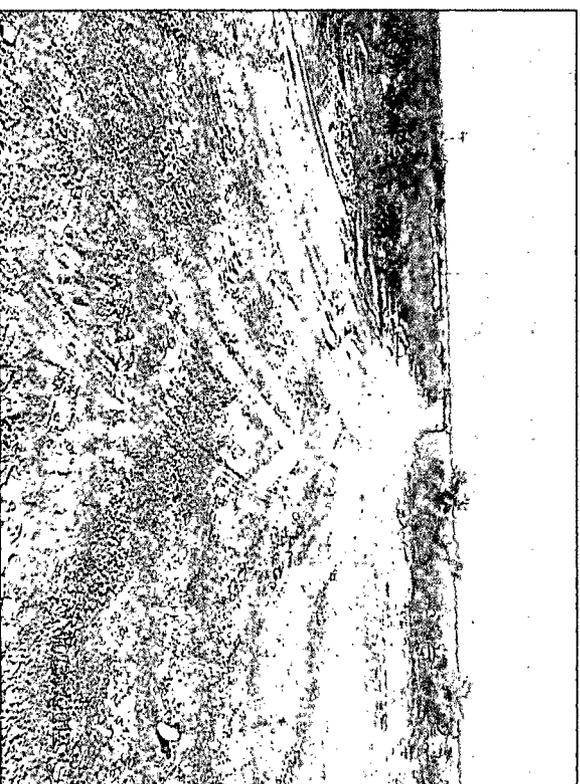
Initial release area, facing east

10/31/12



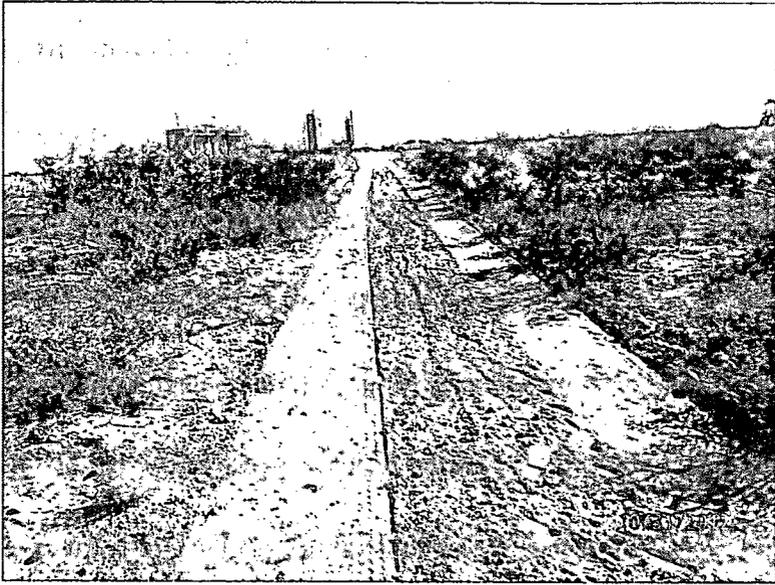
Initial release area, facing west

10/31/12



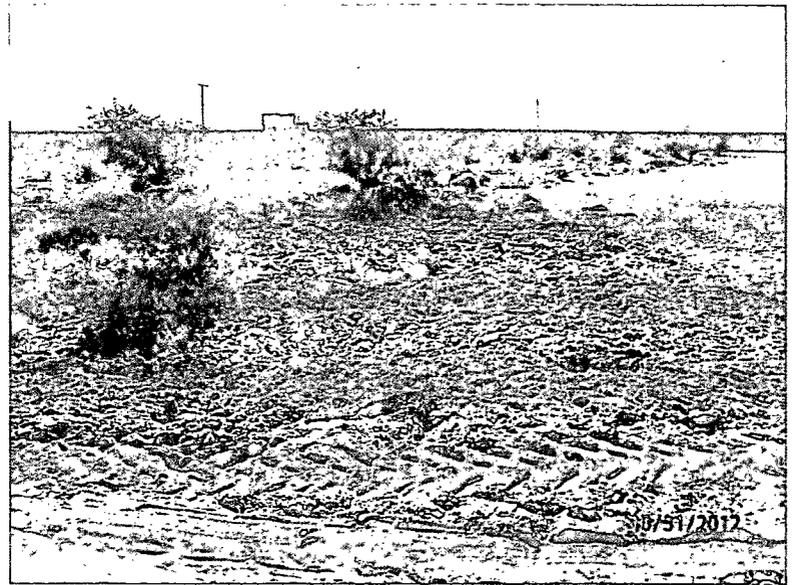
Initial release area, facing west

10/31/12



Initial release area, facing east

10/31/12



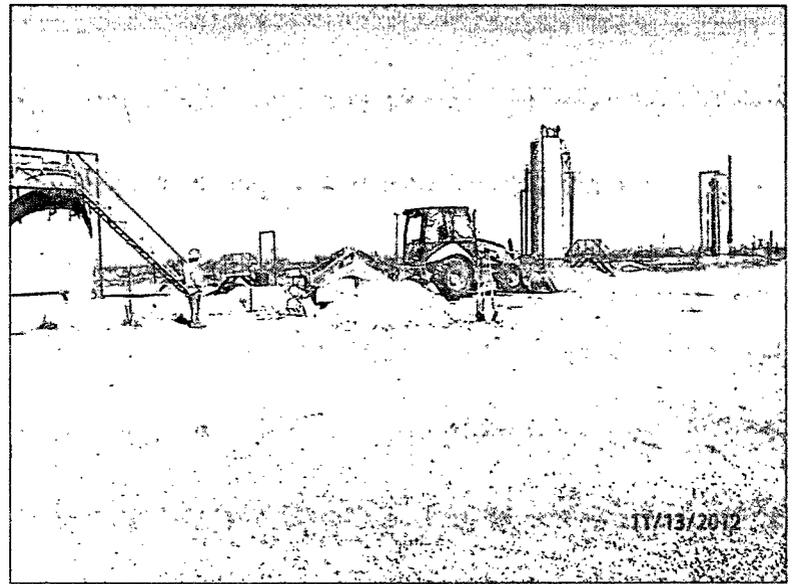
Initial release area, facing south

10/31/12



Initial release area, facing east

10/31/12

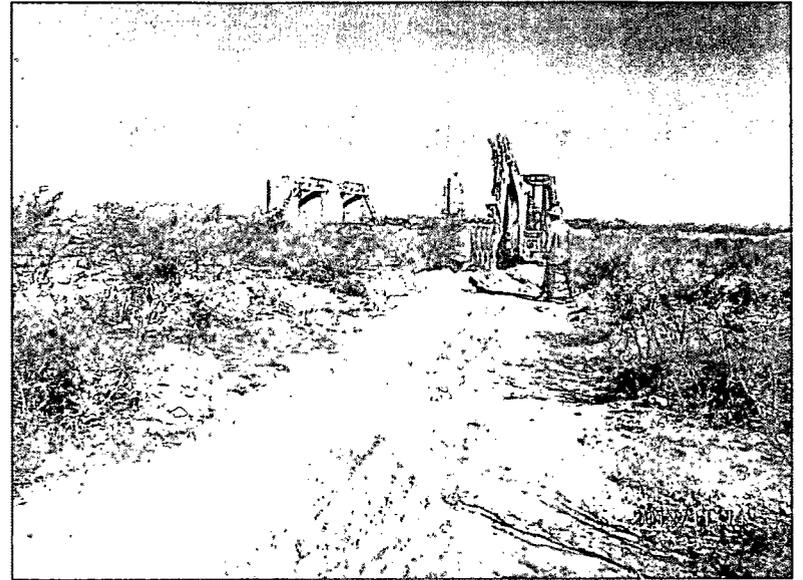


Digging Vertical #1, facing northeast

11/13/12



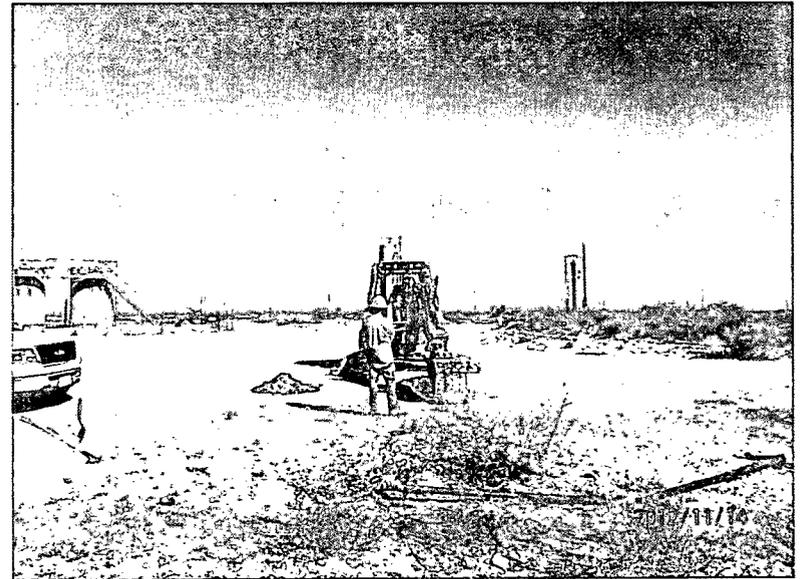
Digging Vertical #2, facing southeast 11/14/12



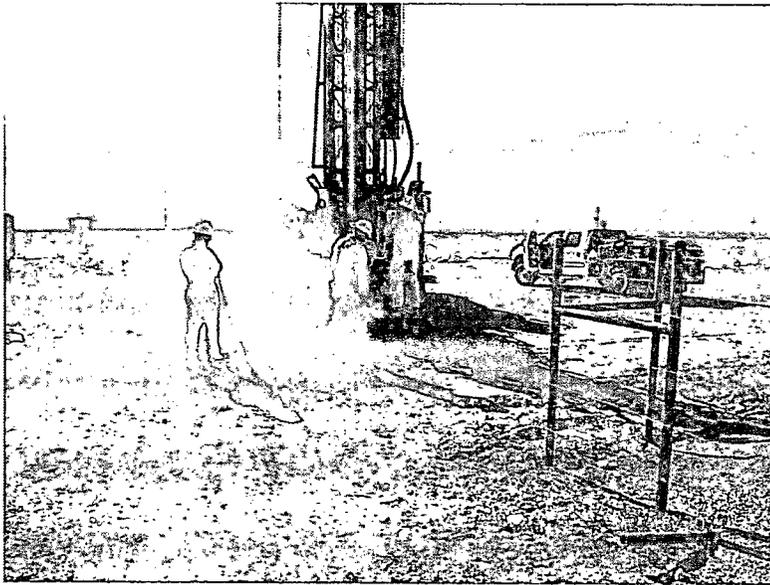
Digging Vertical #3, facing northeast 11/14/12



Digging Vertical #4, facing north east 11/14/12



Digging Vertical #5, facing northeast 11/14/12



Drilling SB-1, facing south

12/18/12



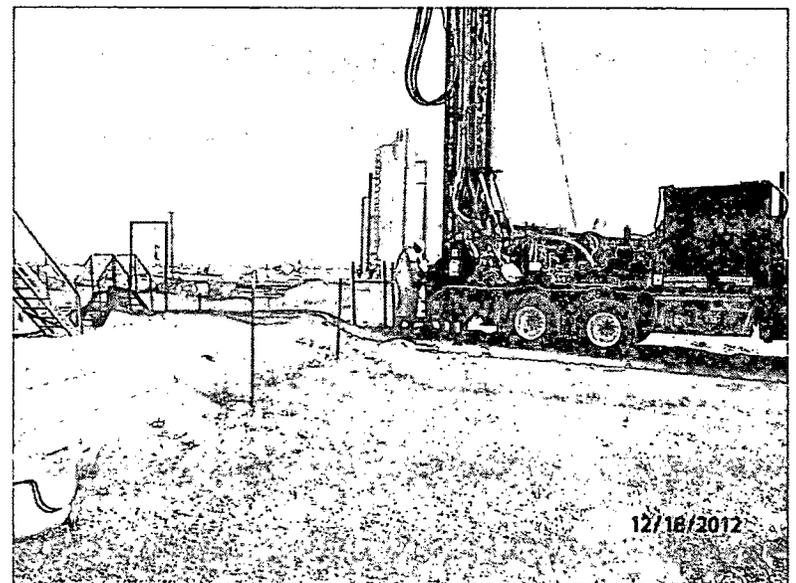
Plugging SB-1 in total with bentonite

12/18/12



Completed SB-1, facing north

12/18/12



Installing SB-2, facing east

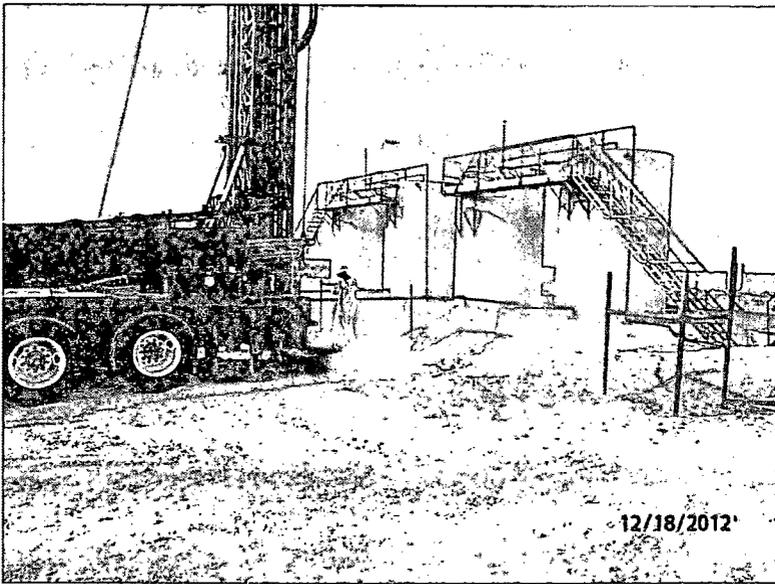
12/18/12



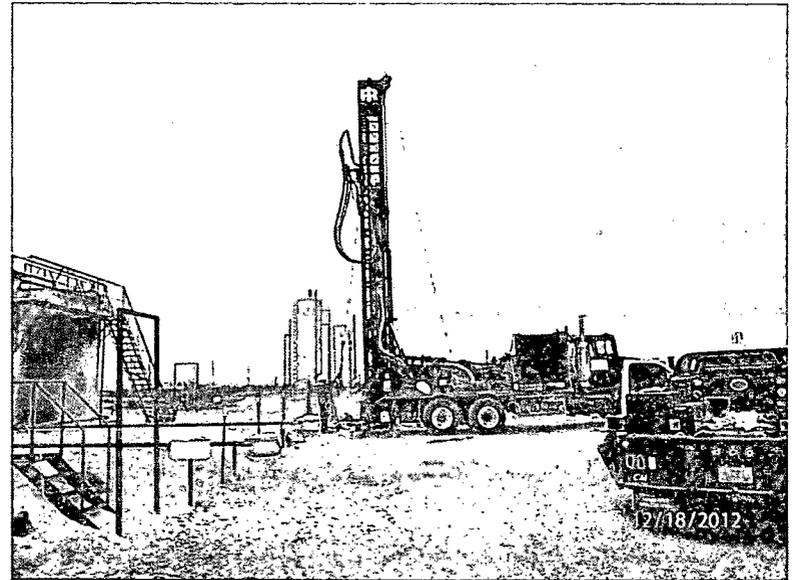
Plugging SB-2 in total with bentonite 12/18/12



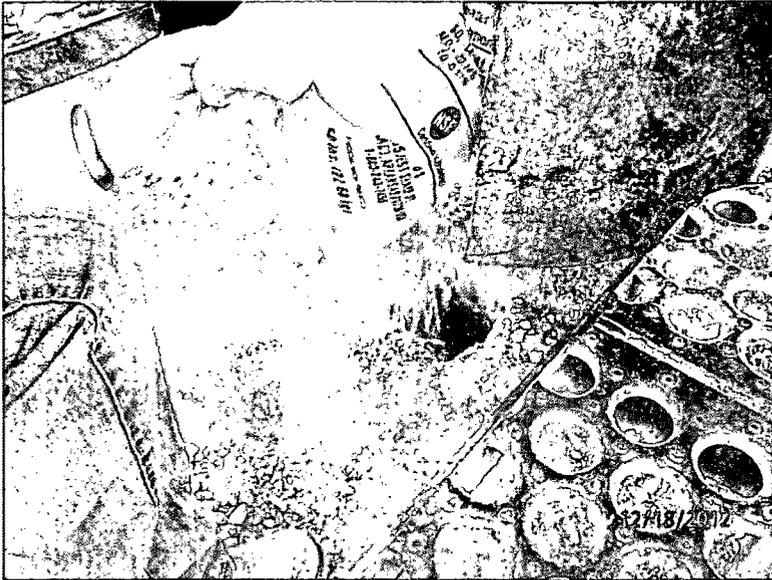
Completed SB-2, facing north 12/18/12



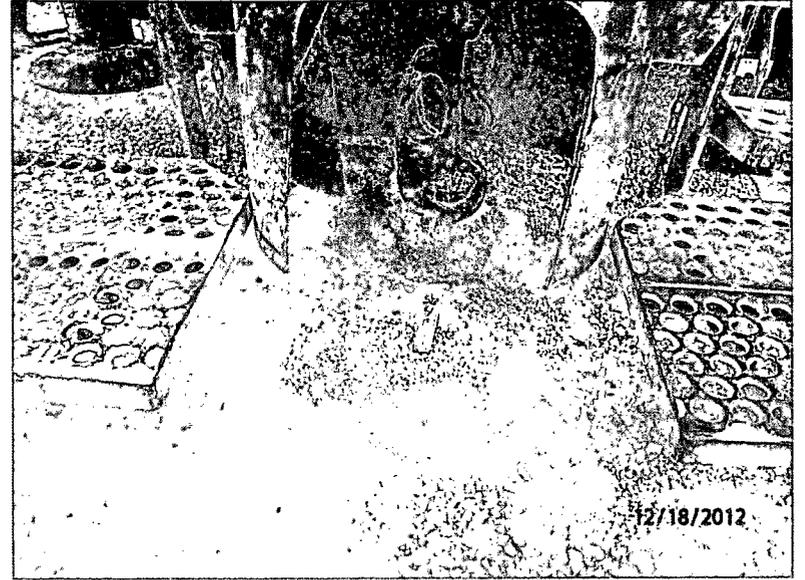
Installing SB-3, facing northwest 12/18/12



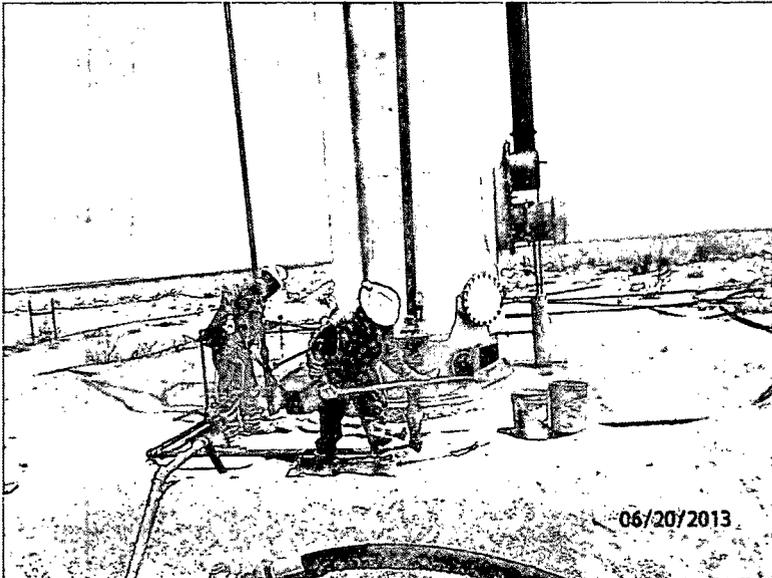
Installing SB-4, facing east 12/28/12



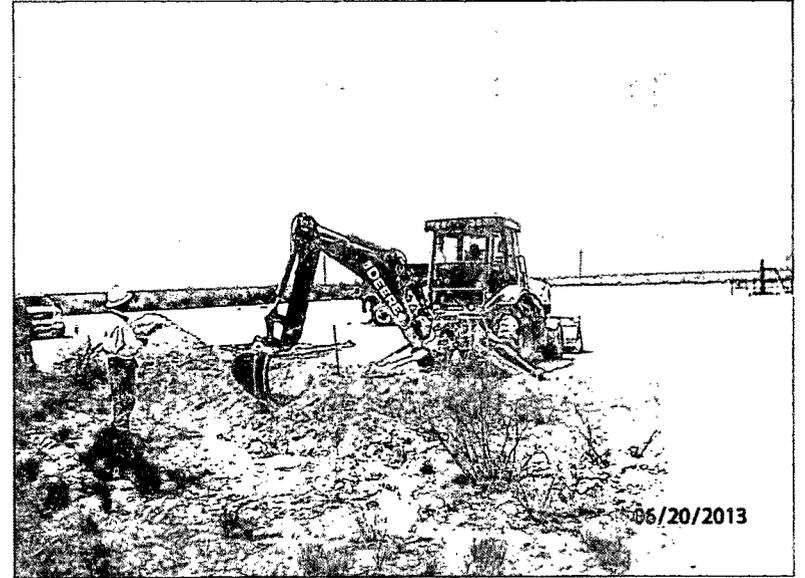
Plugging SB-4 in total with bentonite 12/18/12



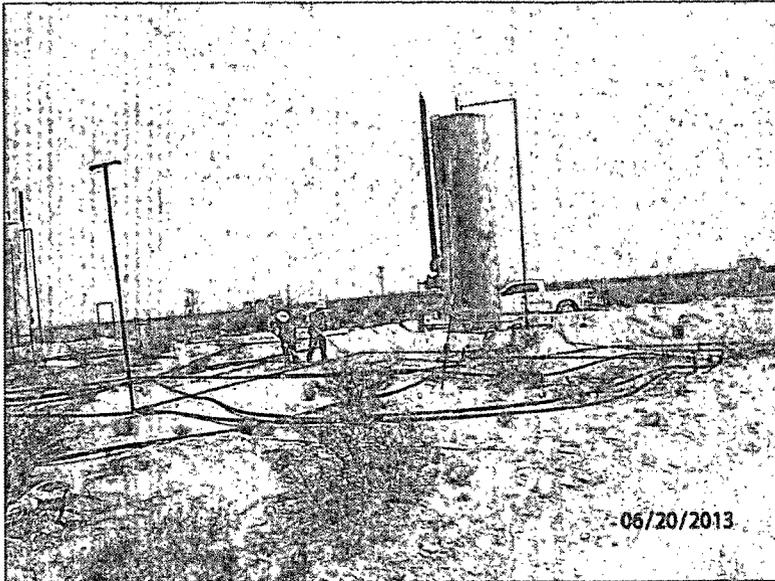
Completed SB-4, facing south 12/18/12



Excavating heater-treater area, facing east 6/20/13

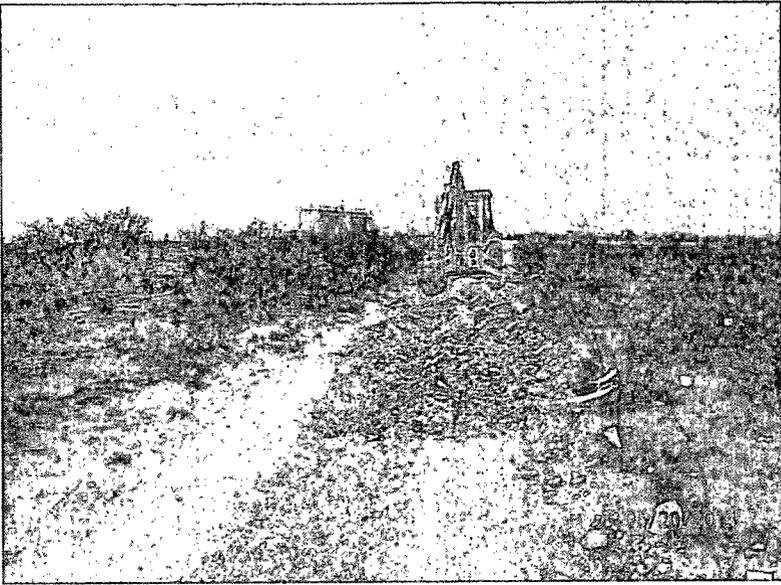


Excavating the west excavation, facing SW 6/20/13



06/20/2013

Excavating heater-treater area, facing south 6/20/13

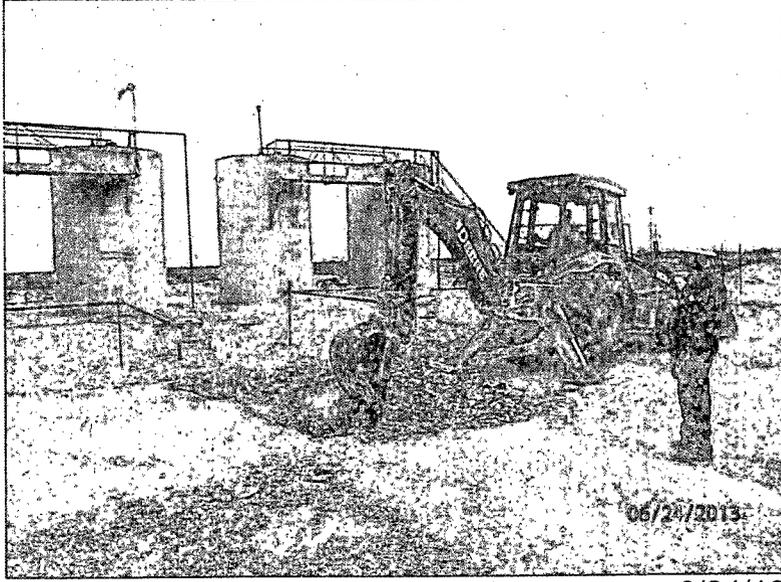


Scraping center scrape, facing northeast 6/20/13



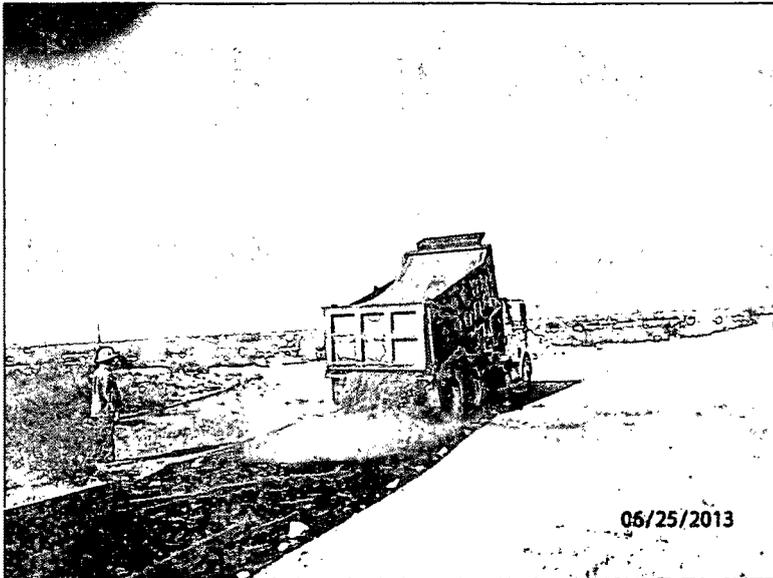
06/21/2013

Exporting soil, facing north 6/21/13



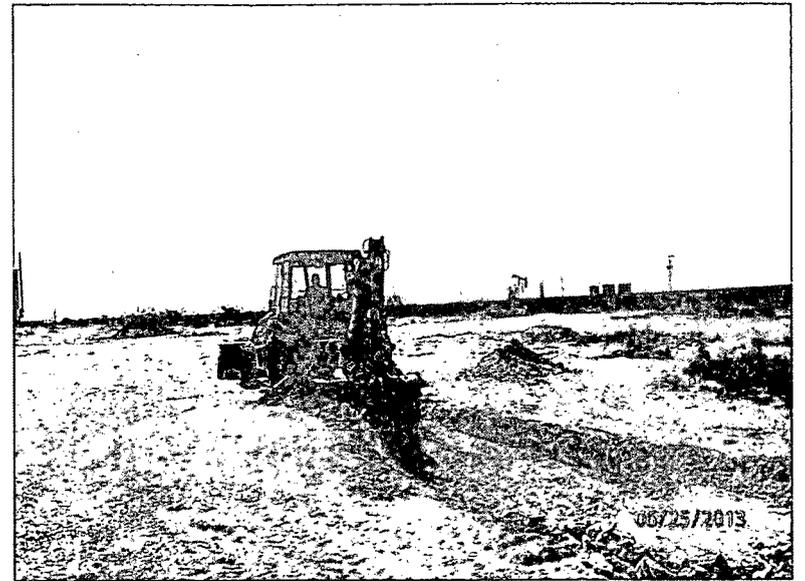
06/24/2013

Scraping north scrape, facing northeast 6/24/13



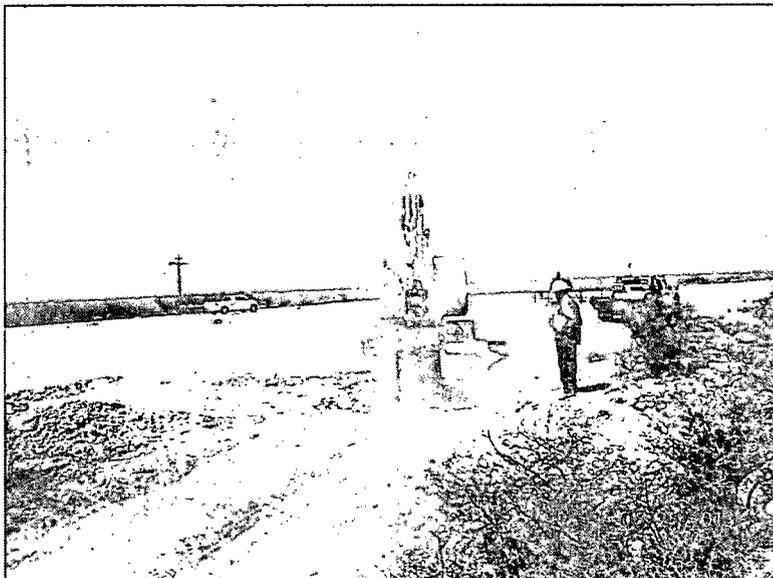
Importing clay, facing south

6/25/13



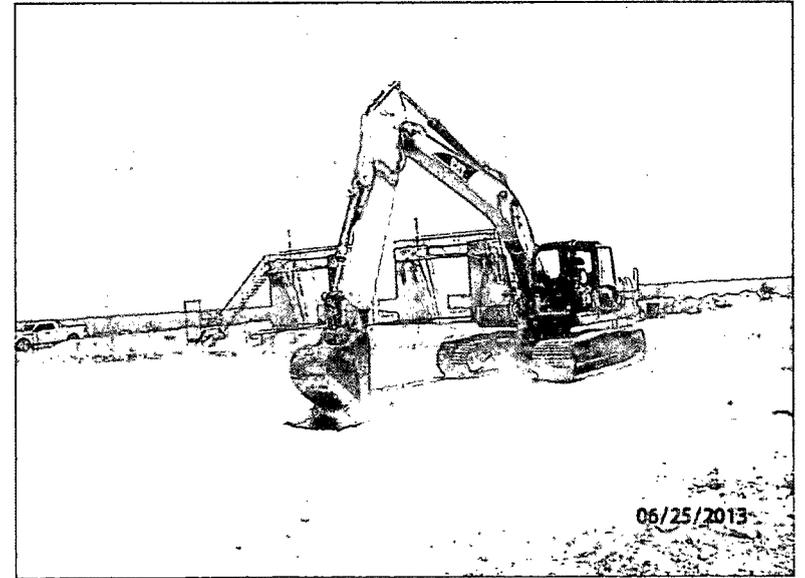
Scraping SE scrape, facing southeast

6/25/13



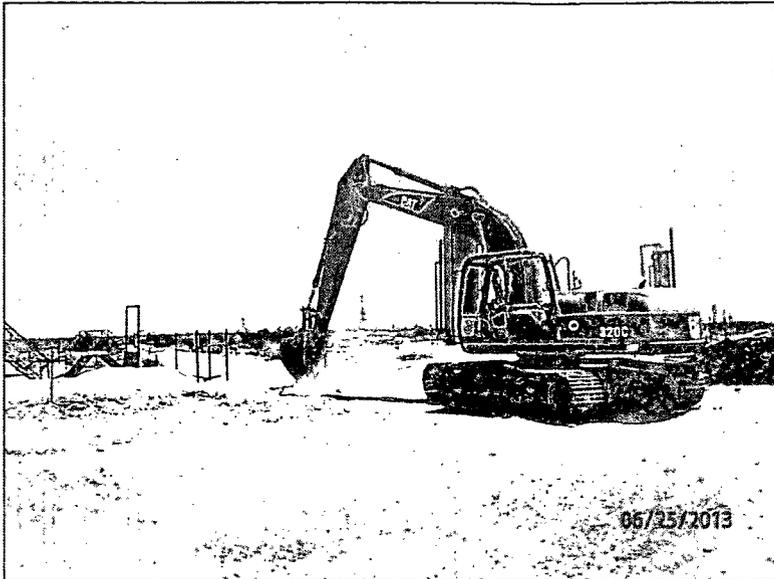
Scraping west scrape, facing west

6/25/13

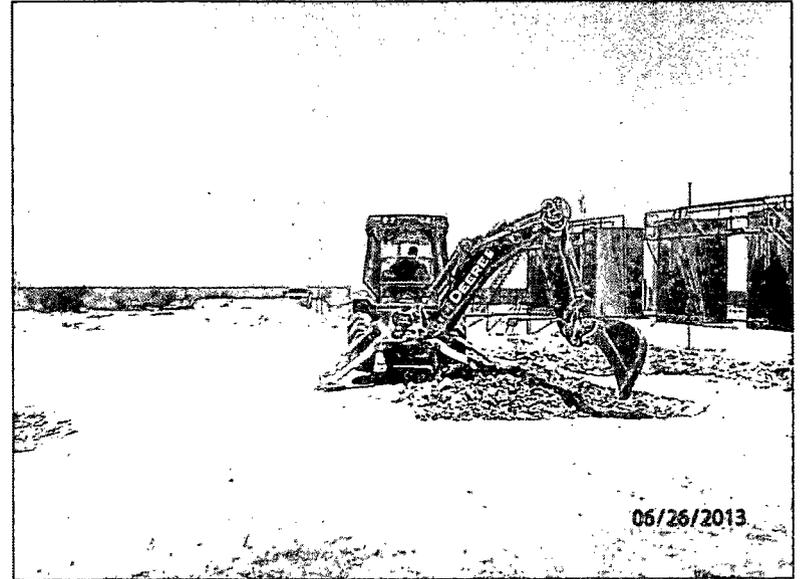


Scraping east scrape, facing northwest

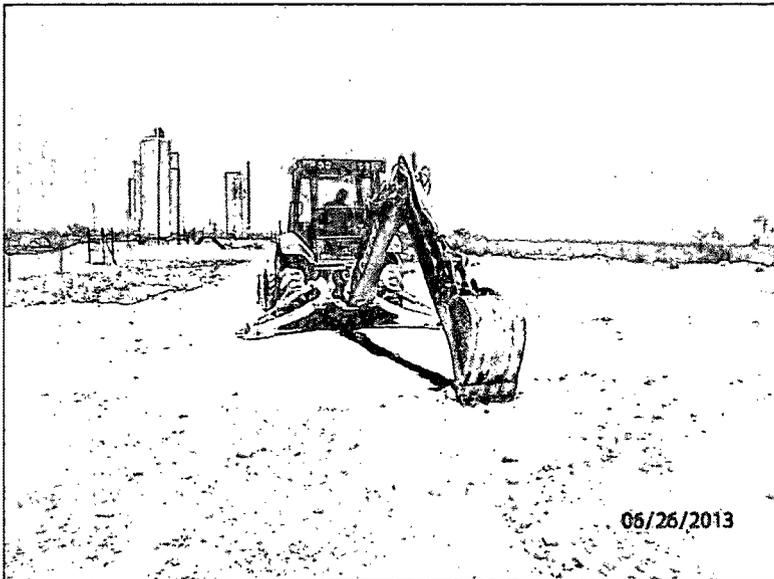
6/25/13



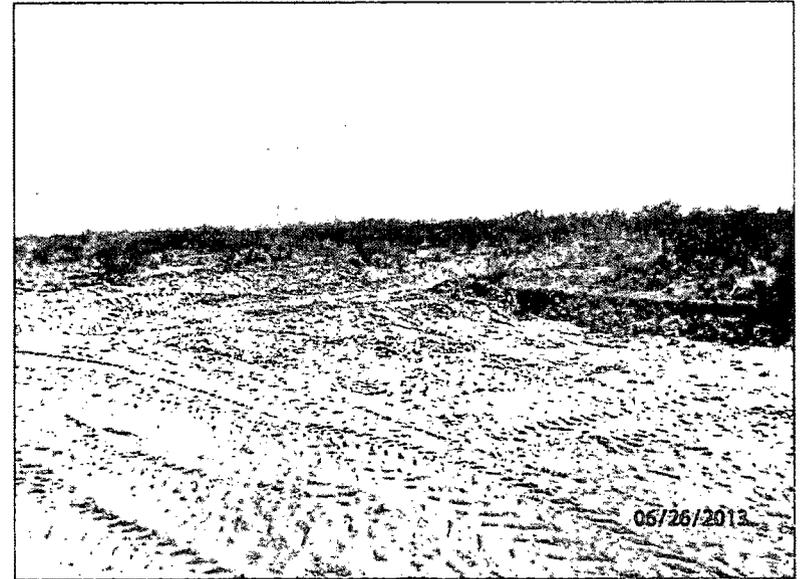
Scraping NE scrape, facing northeast 6/25/13



Scraping east scrape, facing northwest 6/26/13



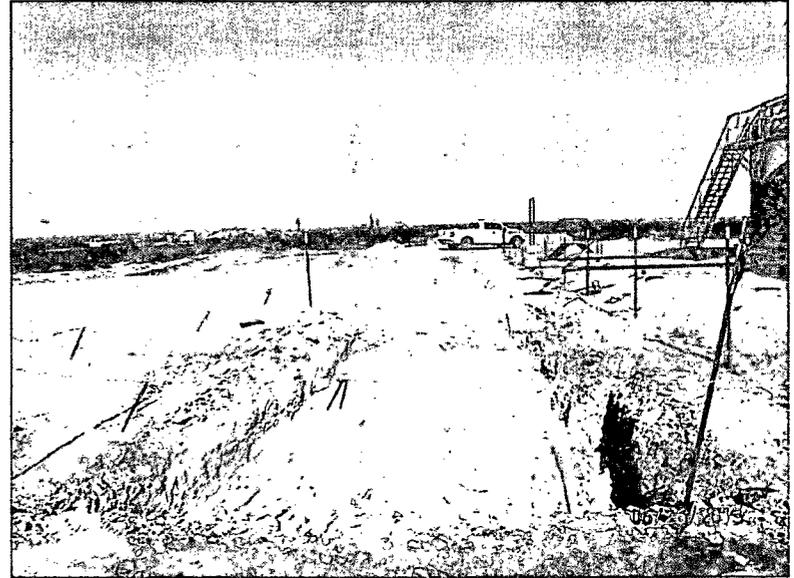
Scraping center scrape #2, facing east 6/26/13



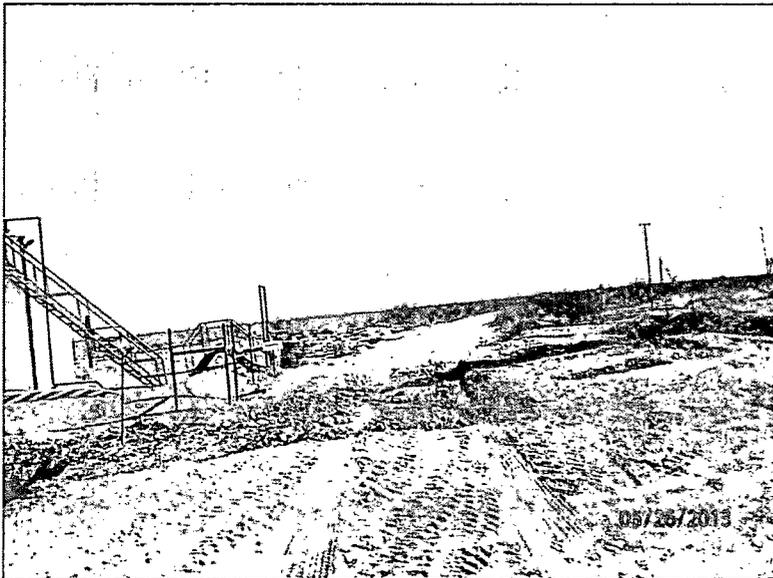
West scrape and excavation completed, facing NE 6/26/13



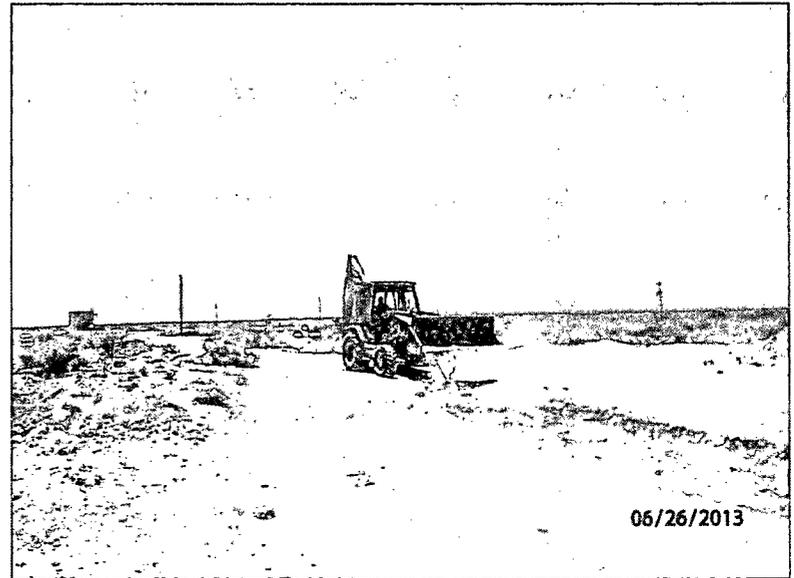
Center scrape completed, facing southwest 6/26/13



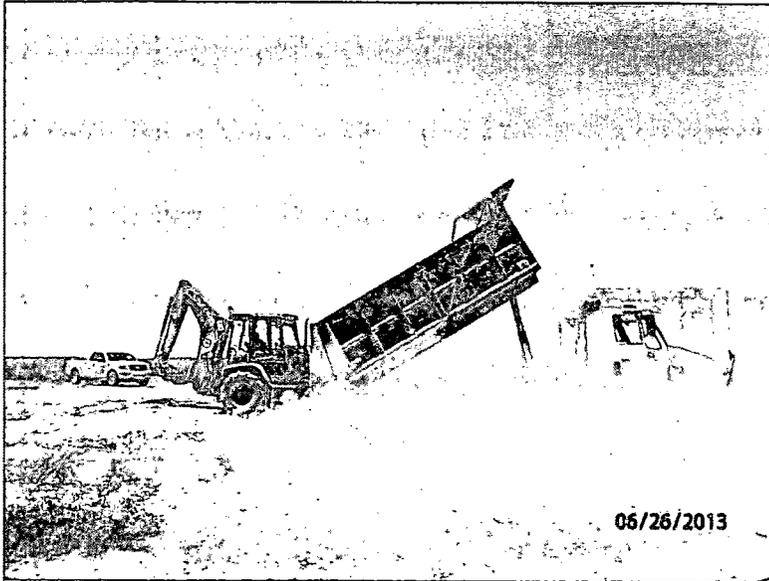
Lined excavation and north scrape completed, facing west 6/26/13



Northeast scrape completed, facing north 6/26/13

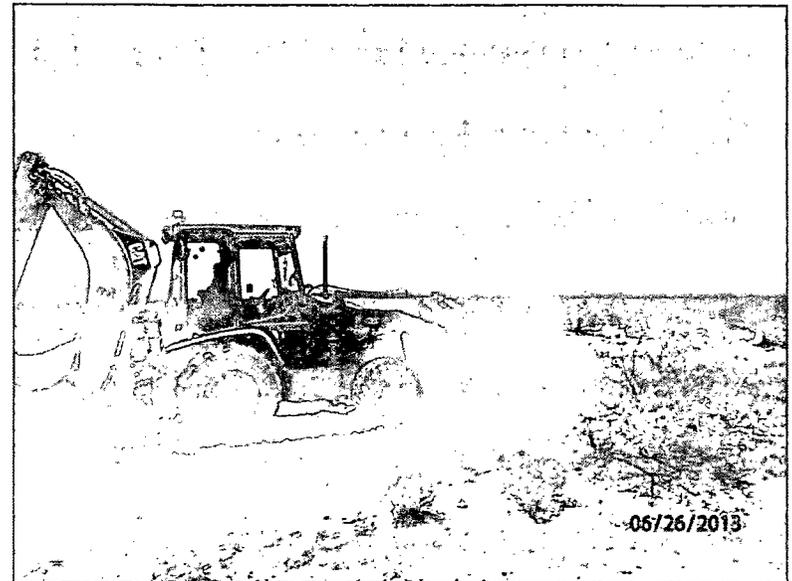


Backfilling southeast scrape, facing south 6/26/13



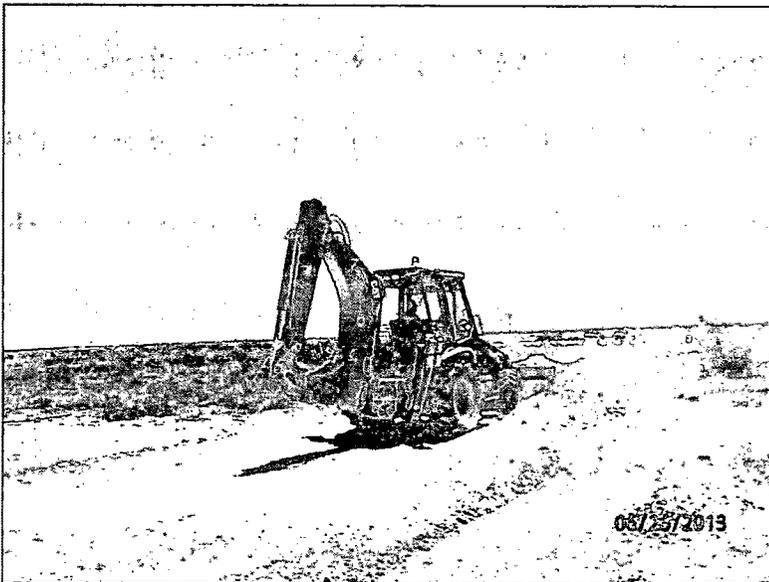
Importing caliche, facing north

6/26/13



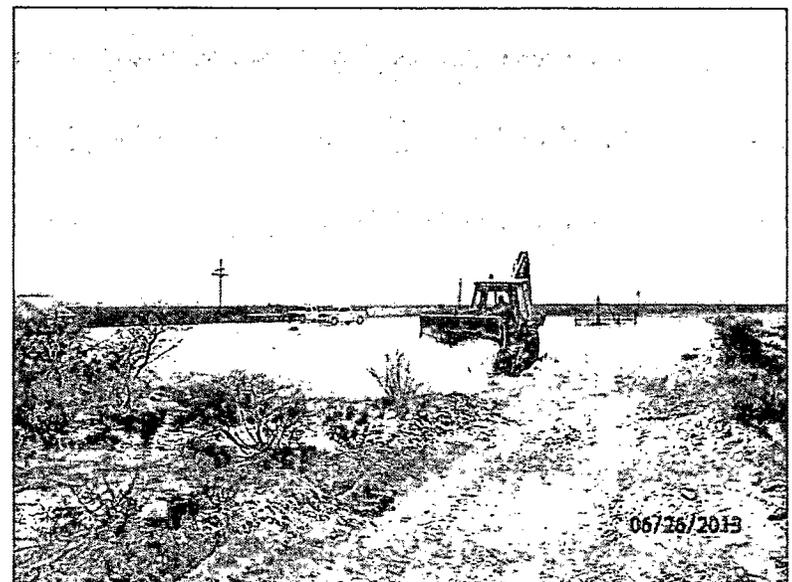
Backfilling west excavation, facing north

6/26/13



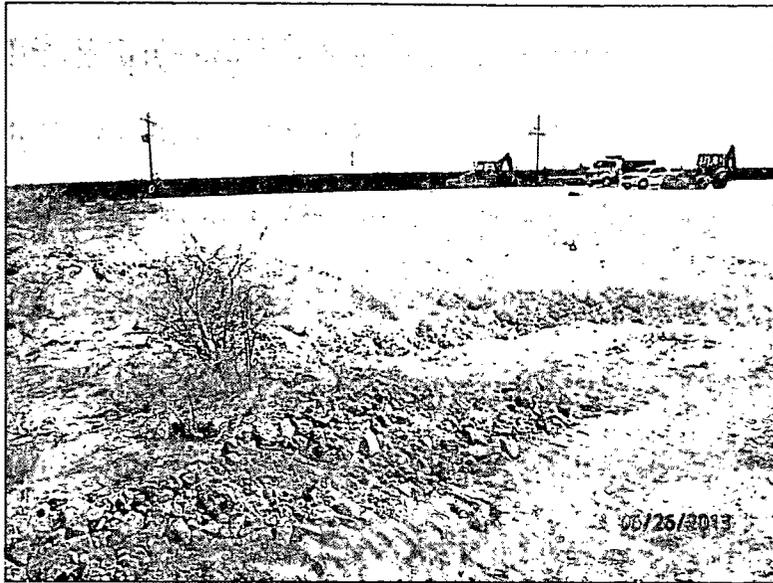
Backfilling center scrape, facing southwest

6/28/13

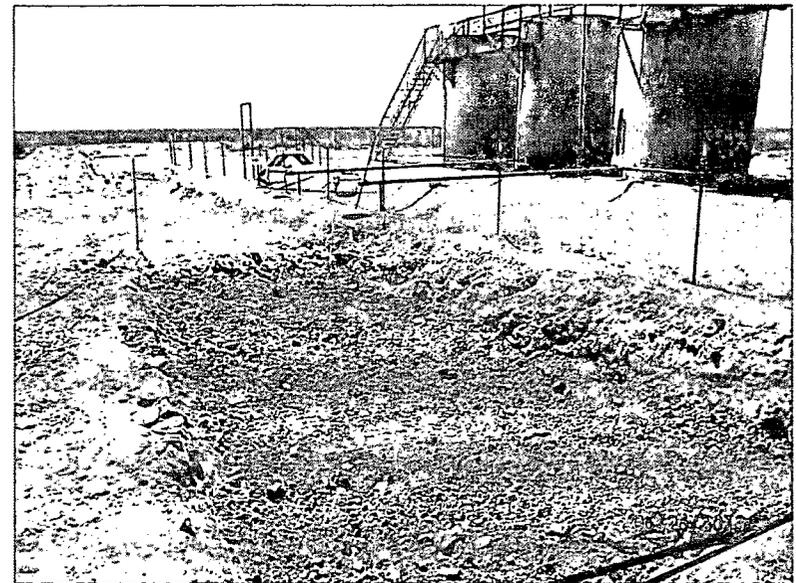


Backfilling west scrape, facing southwest

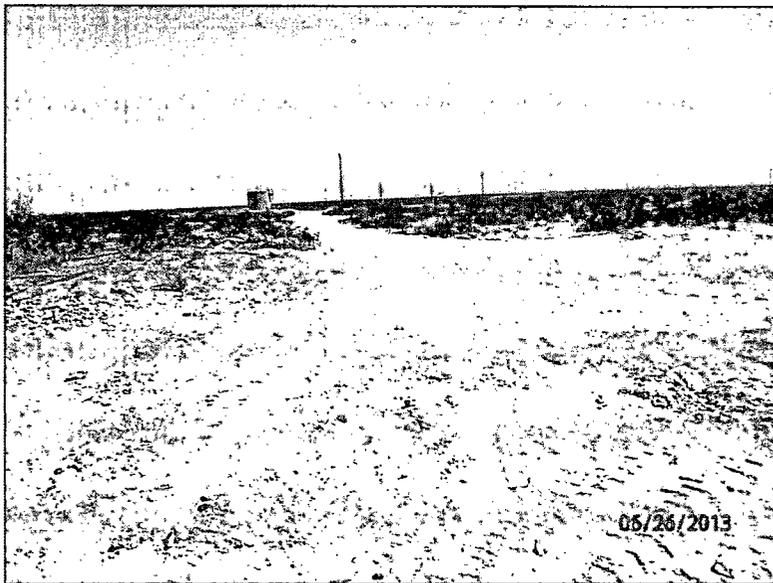
6/26/13



West excavation completed, facing southwest 6/26/13



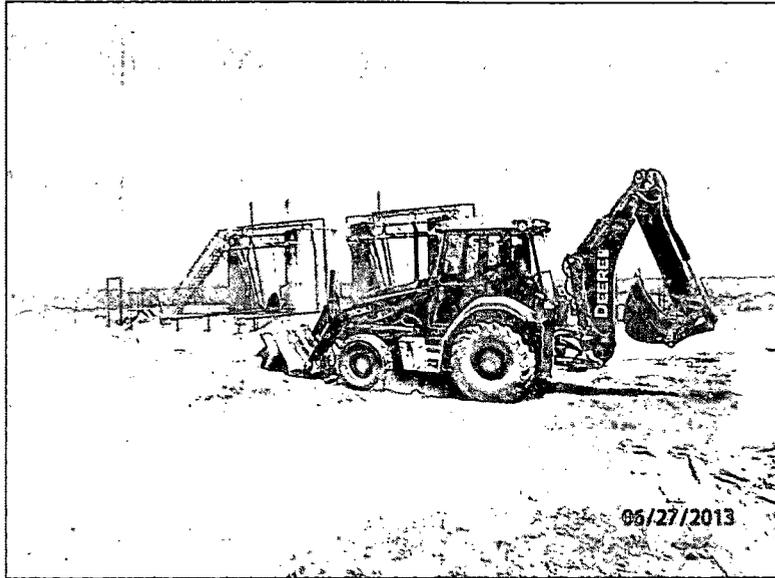
Clay layer installed, facing northwest 6/26/13



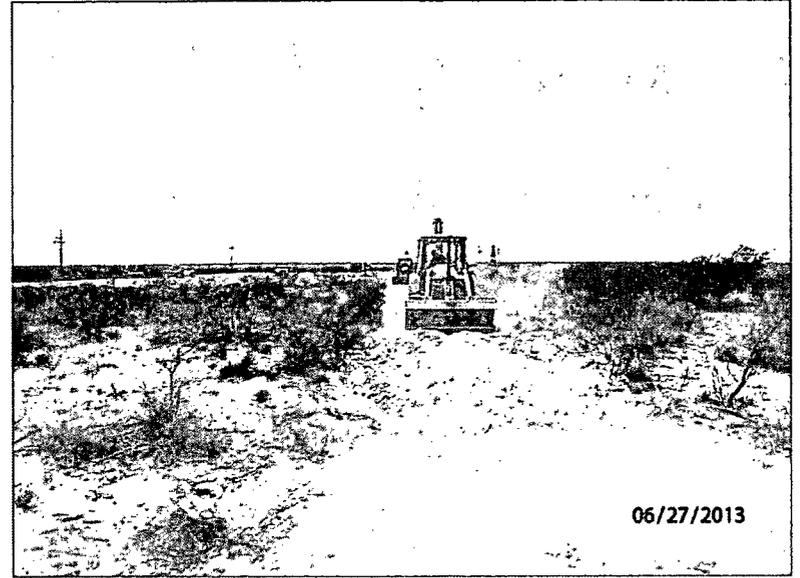
Southeast scrape completed, facing south 6/26/13



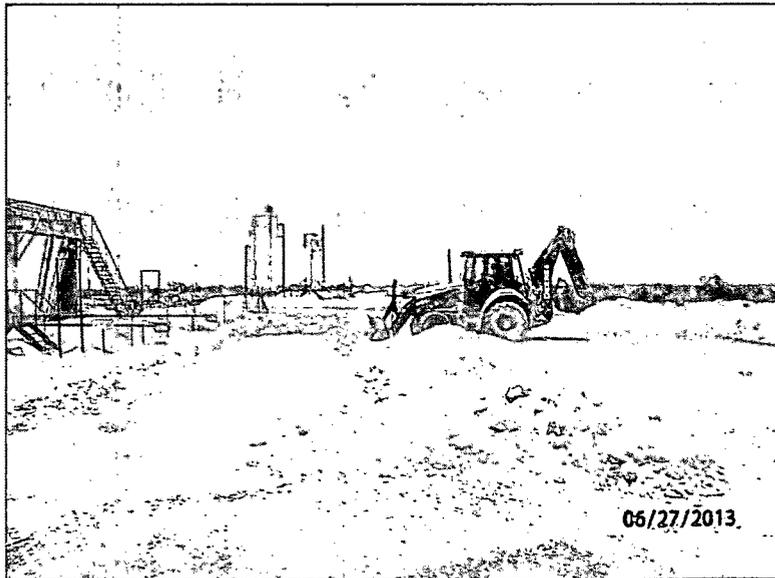
Backfilling NE scrape, facing northeast 6/27/13



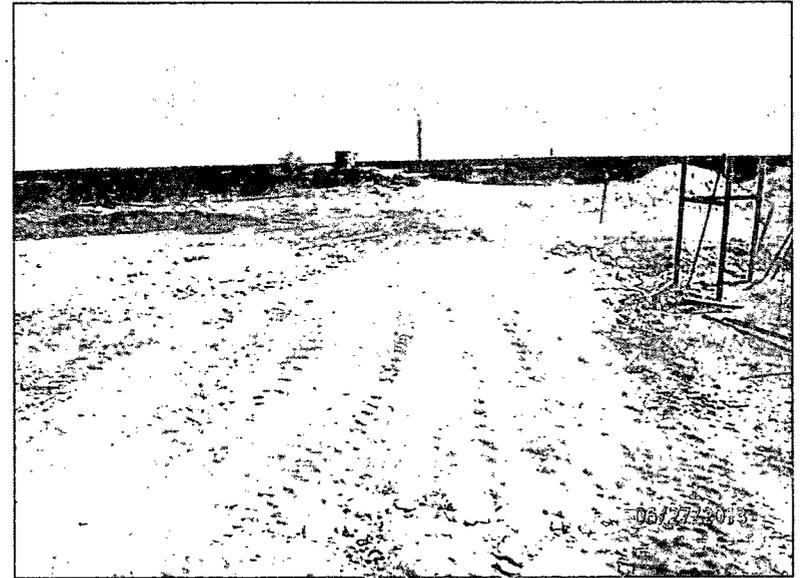
Backfilling east scrape, facing northwest 6/27/13



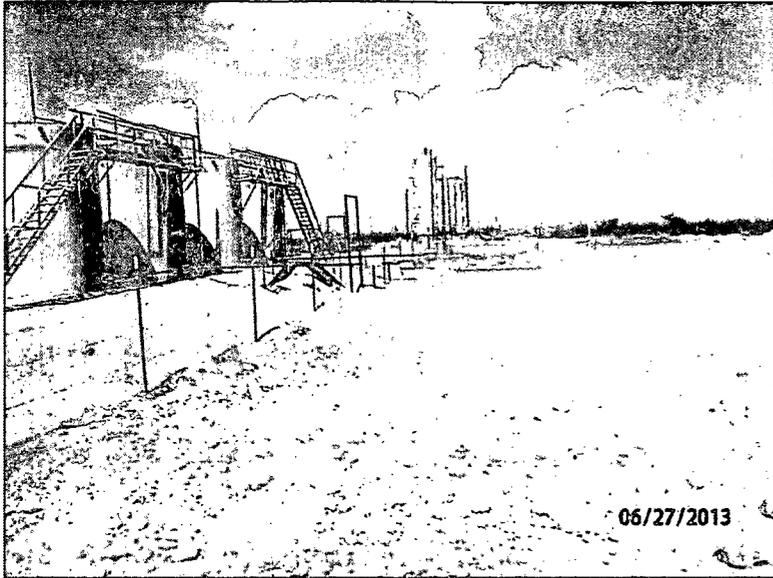
Backfilling center scrape, facing west 6/27/13



Backfilling north scrape, facing east 6/27/13



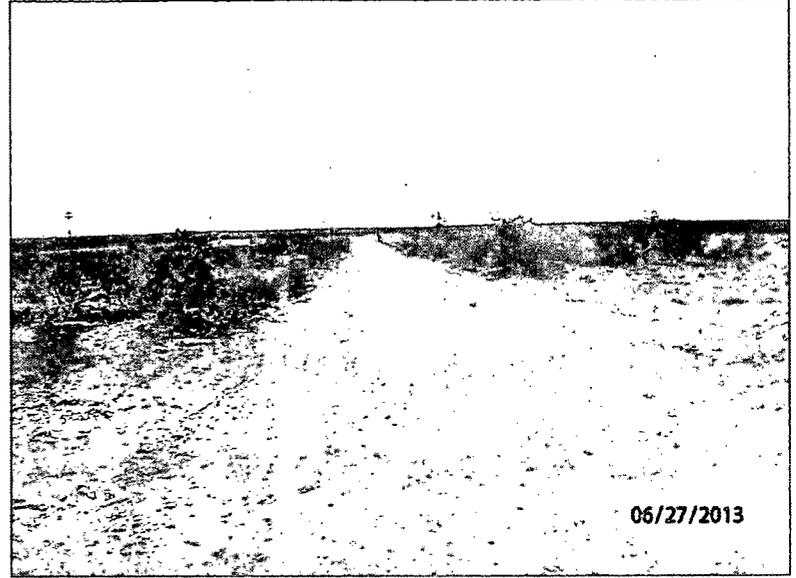
NE scrape completed, facing south 6/27/13



06/27/2013

North scrape completed, facing east

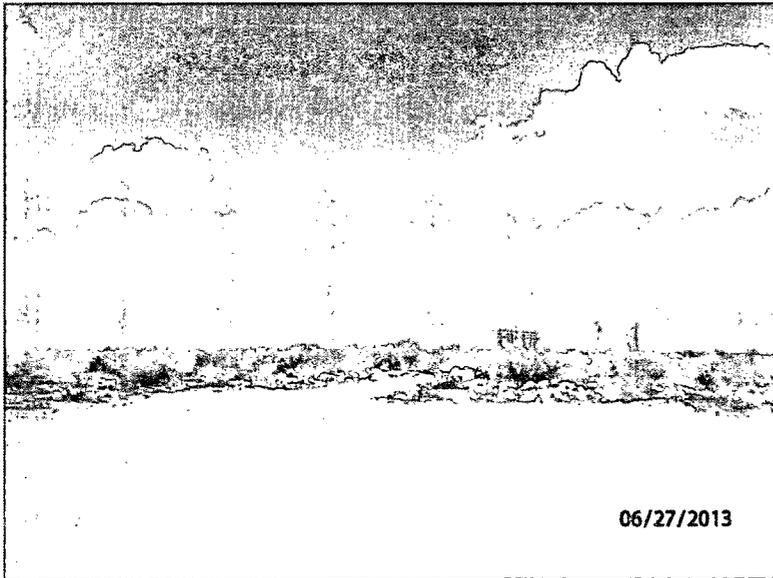
6/27/13



06/27/2013

Center scrape completed, facing west

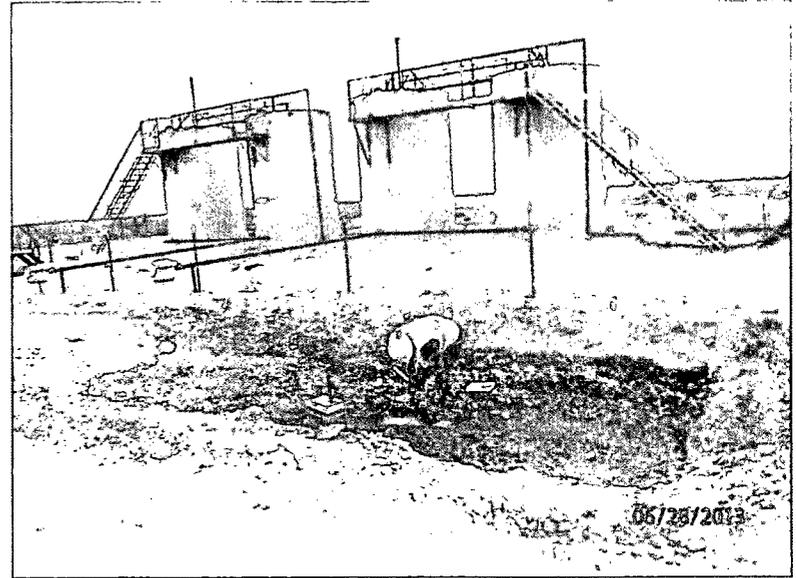
6/27/13



06/27/2013

West scrape and excavation completed, facing NE

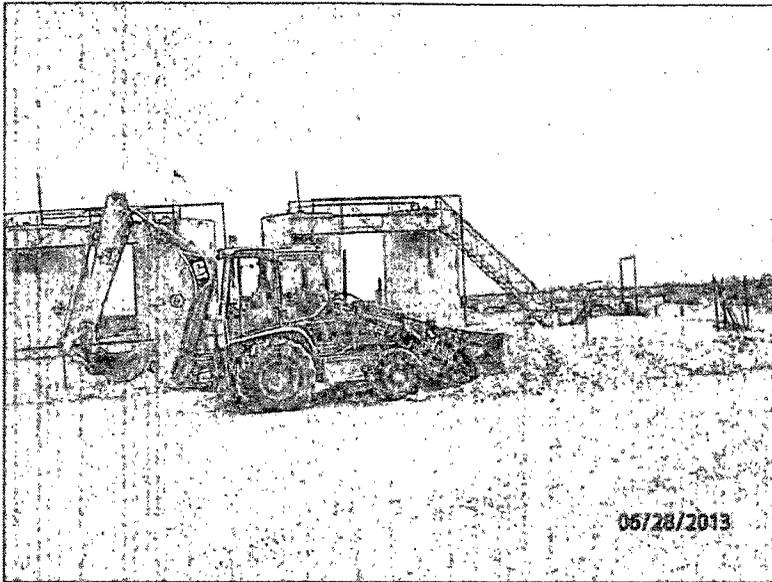
6/27/13



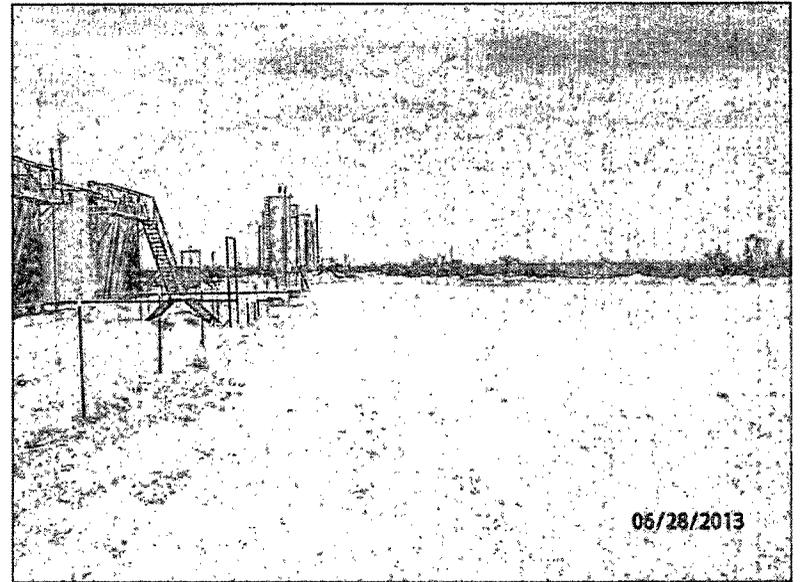
06/28/2013

Clay compaction test, facing north

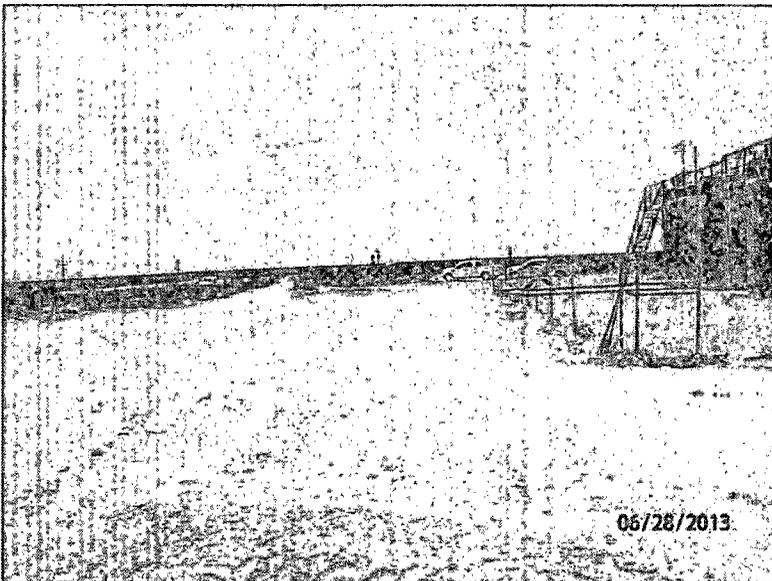
6/28/13



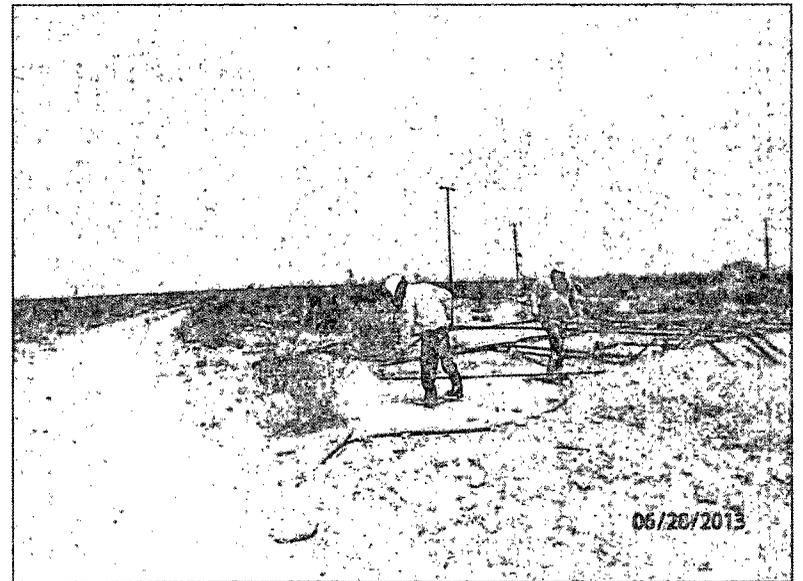
Backfilling lined excavation, facing northeast 6/28/13



Backfilling north scrape and lined excavation completed, Facing east 6/28/13



Center scrape #2 and east scrape completed, facing west 6/28/13



Backfilling around heater-treater facing north 6/28/13

Appendix F

Final 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
811 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

Form C-141
Revised August 8, 2011

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company	Quantum Resources	Contact	Martin Williams
Address	400 N. Big Spring, Suite 305 Midland, TX 79705	Telephone No.	(432) 269-8667
Facility Name	State E 1288 Battery	Facility Type	Battery
Surface Owner	State of New Mexico	Mineral Owner	
		API No.	

LOCATION OF RELEASE

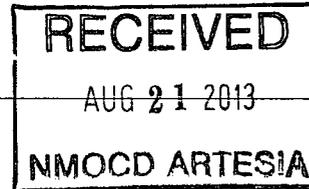
Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
F	27	18S	28E					

Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release	Produced water/oil	Volume of Release	Volume Recovered
Source of Release	Heater-treater	Date and Hour of Occurrence	Date and Hour of Discovery
Was Immediate Notice Given?	<input type="checkbox"/> Yes <input 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.*

Describe Area Affected and Cleanup Action Taken.* A total of 8,737 sq ft of battery pad, lease road and pasture was affected. RECS personnel were on site beginning on October 31st, 2012 to take initial samples of the release, which were taken to a commercial laboratory for analysis. Based on this data, 5 verticals and 4 soil bores were installed at the site. RECS personnel met with NMOCD - District 2 on May 21st, 2013 and agreed on a path forward. On June 20th, 2013, RECS personnel were on site to begin the scraping and excavation actions. The areas were scraped down as required by NMOCD. A total of 420 yards of excavated soil was taken to NMOCD approved facility for disposal. A total of 440 yards of soil and 12 yards of red clay was imported to the site. The scraped areas were backfilled with the clean, imported soil. At SB-3 at a depth of 3 ft bgs, a 1 ft thick clay layer was installed and properly seated into the excavation. On June 28th, 2013, Pettigrew & Associates were on site to conduct a clay compaction test on the clay layer. The excavation was then backfilled with the stockpiled soil to bring the excavation back to surface level.

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:	OIL CONSERVATION DIVISION		
Printed Name: Martin Williams	Approved by Environmental Specialist:		
Title: Safety and Environmental Coordinator	Approval Date:	Expiration Date:	
E-mail Address: Mwilliams@qracq.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 8-20-13	Phone: (432) 269-8667		

Attach Additional Sheets If Necessary