

EXPLORING WHAT'S POSSIBLE

# APACHE CORPORATION

P.O.Box 1849  
Eunice, NM 88231  
Phone 575.394.3159

NB Tween #18 (2RP-1065)

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## Termination Request

API 30-015-39070

Release Date: February 25<sup>th</sup>, 2012

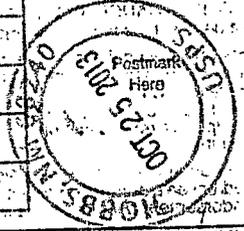
Unit Letter C, Section 25, Township 17S, Range 28E

7007 2560 0003 0323 9018

U.S. Postal Service  
**CERTIFIED MAIL™ RECEIPT**  
(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at [www.usps.com](http://www.usps.com)  
**OFFICIAL USE**

Postage	\$
Certified Fee	3.10
Return Receipt Fee (Endorsement Required)	2.55
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 11.25



Sent to M. Li Bratcher Apache Wash 33  
Street Apt. No. Apache Wash 33  
or PO Box No. Apache No. Tucson  
City, State, ZIP+4 Apache NM 8920 ST #19

SENDER COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<input checked="" type="checkbox"/> Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. <input type="checkbox"/> Print your name and address on the reverse so that we can return the card to you. <input type="checkbox"/> Attach this card to the back of the mailpiece, or on the front if space permits.	A. Signature <u>J. Warren</u> <input type="checkbox"/> Agent <input type="checkbox"/> Addressee B. Received by (Printed Name) <u>J. Warren</u> C. Date of Delivery <u>10-28-13</u>
1. Article Addressed to:  <u>M. Li Bratcher</u> <u>NM 8920</u> <u>811 S. First St.</u> <u>Apache NM 8920</u>	D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No
2. Article Number (Transfer from service label)	3. Service Type <input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input checked="" type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.
4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes	5. Tracking Number <u>7007 2560 0003 0323 9018</u> <u>Apache Wash 33 St #19</u>

# Rice Environmental Consulting & Safety

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P.O. Box 5630 Hobbs, NM 88241  
Phone 575.393.4411 Fax 575.393.0293

**March 14<sup>th</sup>, 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  
Apache Corporation  
NB Tween #18: UL/C sec. 25 T-17-S R-28-E  
API No. 30-015-39070  
2RP-1065**

Mr. Bratcher:

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

## **Background and Previous Work**

On February 25<sup>th</sup>, 2012, an accidental discharge of drilling mud and brine water occurred while drilling a well at the NB Tween #18. The Qmax system overflowed causing the overflow flow bins to overflow. NMOCD was notified of the event on February 27<sup>th</sup>, 2012 and was approved on March 23<sup>rd</sup>, 2012 (Appendix A). The site is located 8.5 miles west of Loco Hills, in unit letter 'C', section 25, T-17-S R-28-E in Eddy County, New Mexico.

RECS personnel were on site on February 27<sup>th</sup>, 2012 to initiate work at the NB Tween #18. Surface samples were collected throughout the release area and representative samples were taken to a commercial laboratory for analysis (Figure 1). Laboratory results showed elevated chloride levels throughout, except for the area near the roll-off bins (Appendix B).

Prior to the installation of the well head, a liner measuring 94 ft x 140 ft was installed at the site. The liner was installed to inhibit the downward migration of drilling constituents to groundwater. Therefore, the release area over the liner was scraped to 6 inches bgs to remove as much contaminated soil as possible without damaging the liner. The remainder of the release area was also scraped down 6 inches and RECS personnel field tested the bottom and the four walls of each scrape for chlorides. A five point bottom composite from each scraped area off the liner and their representative wall samples were taken to a commercial laboratory for analysis of chlorides (Figure 2). The laboratory results for all samples were below 250 mg/kg. The site was backfilled with clean, imported soil and contoured to the surrounding location. Photo documentation of these activities can be found in Appendix C.

Due to the removal of the impacted soils and the presence of the liner, Apache submits the final C-141 (Appendix D) 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) 631-06432 if you have any questions or wish to discuss the site.

Sincerely,

A handwritten signature in black ink, appearing to read 'L. Weinheimer', with a long horizontal flourish extending to the right.

Lara Weinheimer  
Project Scientist  
RECS  
(575) 441-0431

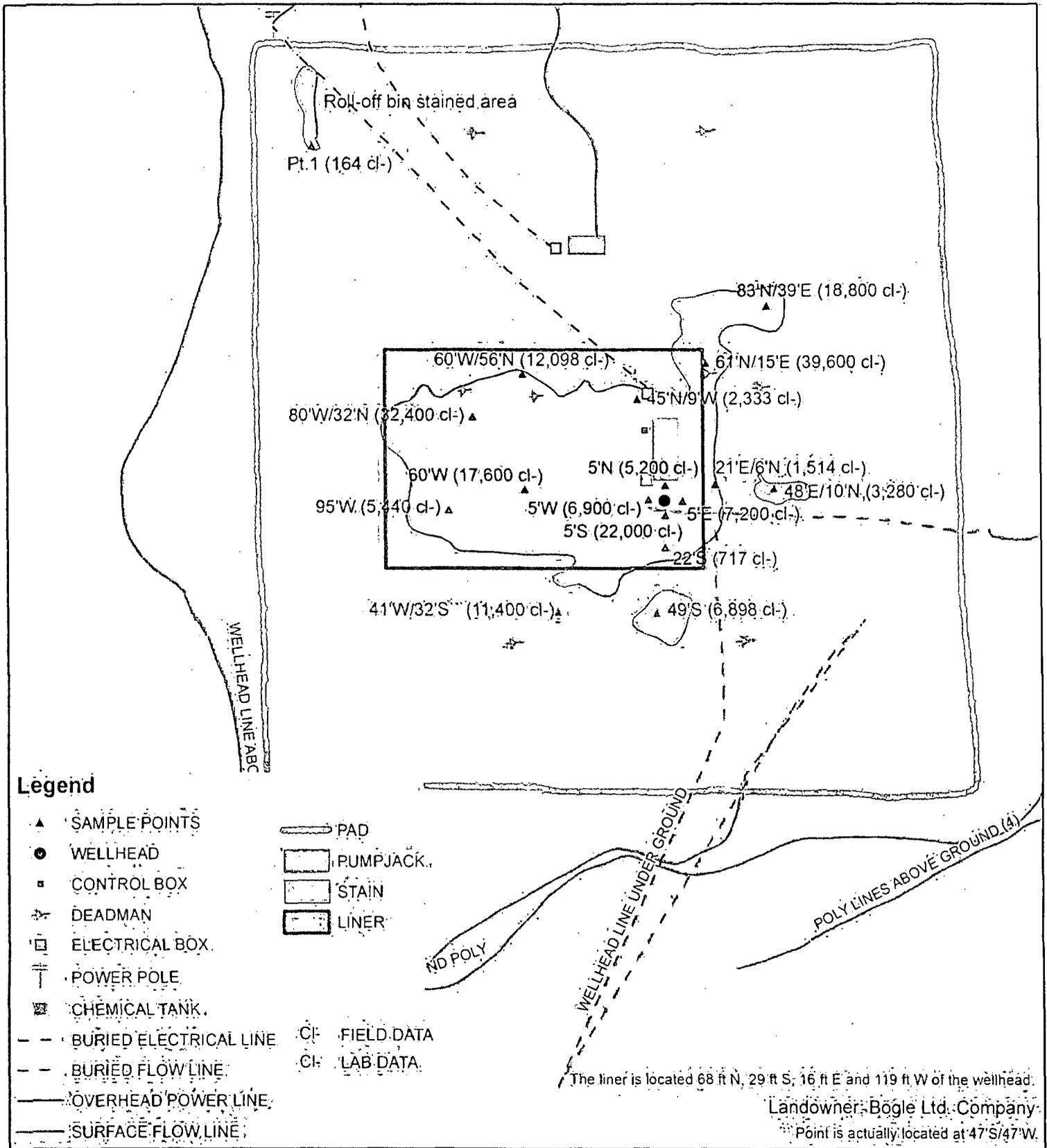
Attachments:

- Figure 1 – Initial Sampling Data
- Figure 2 – Final Sampling Data
- Appendix A – Initial C-141
- Appendix B – Laboratory Analysis
- Appendix C – Photo Documentation
- Appendix D – Final C-141



# Figures

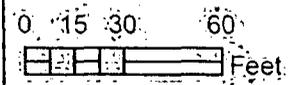
RICE Environmental Consulting and Safety (RECS)  
P.O. Box 2948 Hobbs, NM 88241  
Phone 575.393.2967



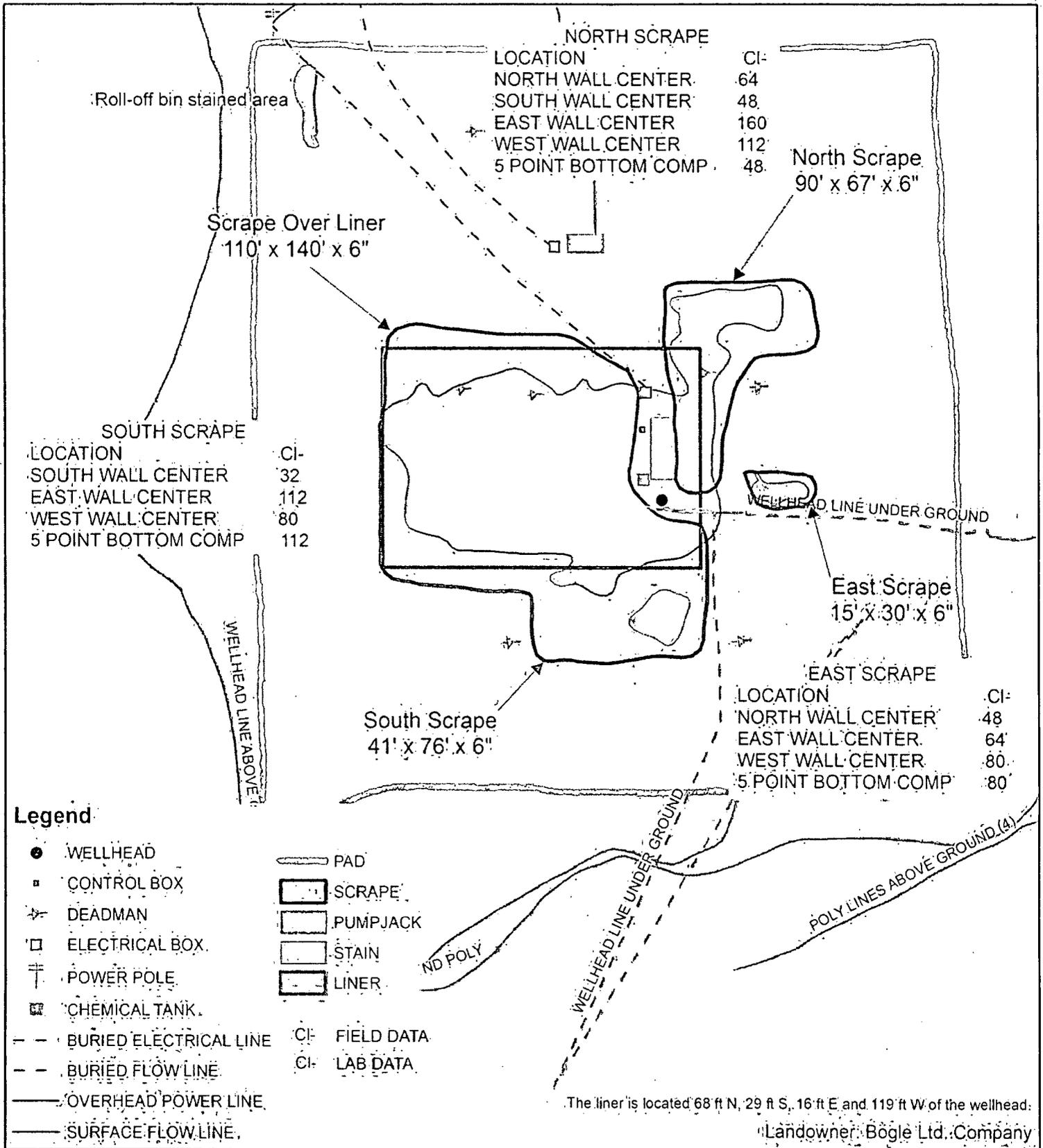
**APACHE NB  
TWEEN ST. #018**

LEGALS: UL/C sec. 25  
T-17-S-R-28-E  
EDDY COUNTY, NM

**Figure 1**



GPS date: 12/31/2012 JK  
Drawing date: 1/2/2013  
Drafted by: L. Weinheimer, A.C. Ruth



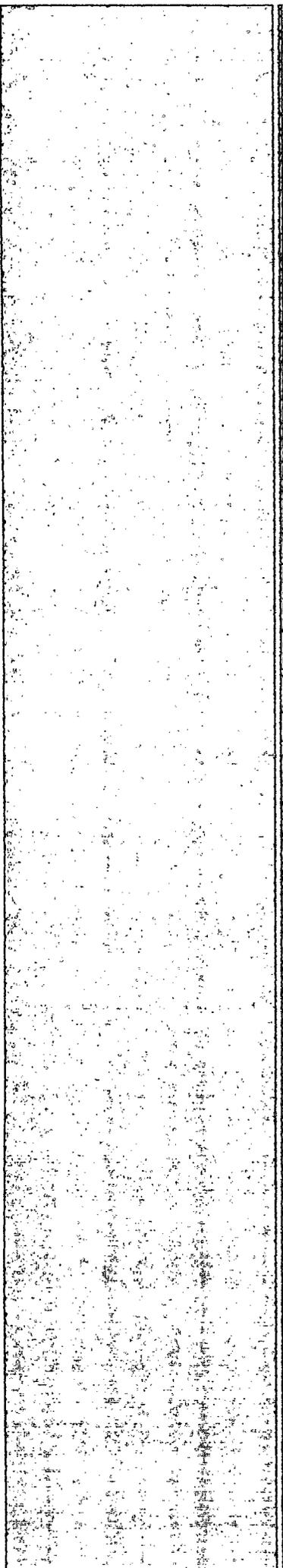
**APACHE NB  
 TWEEN ST. #018**

LEGALS: UL/C sec. 25  
 T-17 S R-28 E  
 EDDY COUNTY, NM

**Figure 2**

0 15 30 60 Feet

GPS date: 12/31/2012 JK  
 Drawing date: 1/2/2013  
 Drafted by: L. Weinheimer, A.C. Ruth



# 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  
1301 W Grand Avenue, 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 October 10, 2003

Submit 2 Copies to appropriate  
District Office in accordance  
with Rule 116 on back  
side of form

**Release Notification and Corrective Action**

nMLB 1208351539

**OPERATOR**

Initial Report  Final Report

Name of Company Apache Corporation	873	Contact Natalie Gladden
Address PO Box 1849 Eunice, NM 88231		Telephone No. 575-390-4186
Facility Name NB Tween #18		Facility Type New drill
Surface Owner unknown	Mineral Owner State	Lease No. 30-015-39070

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
C	25	17S	28E	550'	FNL	2310'	FWL	Eddy

Latitude \_\_\_\_\_ Longitude \_\_\_\_\_

**NATURE OF RELEASE**

Type of Release Drilling mud and brine water	Volume of Release 5-10bbls	Volume Recovered 0
Source of Release Overflow of bins	Date and Hour of Occurrence 2/25/2012	Date and Hour of Discovery Same
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Geoffrey Laking Bratcher	
By Whom? Natalie Gladden	Date and Hour 2/27/12 9am	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse	

**RECEIVED**  
MAR 13 2012  
NMOCD ARTESIA

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\*  
Qmax system overflowed causing the overflow bins to overflow.

Describe Area Affected and Cleanup Action Taken.\*  
No recovery of fluids took place. Location will be remediated to NMOCD Standards.

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>Natalie Gladden</i>	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Natalie Gladden	Signed By <i>Mike Bratcher</i> Approved by District Supervisor:	
Title: EHS Environmental Tech	Approval Date: MAR 23 2012	Expiration Date:
E-mail Address: natalie.gladden@apachecorp.com	Conditions of Approval: Remediation per OCD Rules & Guidelines. <b>SUBMIT REMEDIATION PROPOSAL NOT LATER THAN:</b>	Attached <input type="checkbox"/>
Date: 2/27/12 Phone: 575-390-4186	4/23/2012	

\* Attach Additional Sheets If Necessary

JRP-1065



# Appendix B

## Laboratory Analysis

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

March 05, 2012

NATALIE GLADDEN

APACHE - EUNICE

P. O. BOX 1849

EUNICE, NM 88231

RE: N B TWEEN #018

Enclosed are the results of analyses for samples received by the laboratory on 02/29/12 8:05.

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](http://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:**

 APACHE - EUNICE  
 NATALIE GLADDEN  
 P. O. BOX 1849  
 EUNICE NM, 88231  
 Fax To: 394-2425

 Received: 02/29/2012  
 Reported: 03/05/2012  
 Project Name: N B TWEEN #018  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 02/27/2012  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: 5' NORTH (H200531-01)**

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/02/2012	ND	1.93	96.6	2.00	2.49		
Toluene*	<0.050	0.050	03/02/2012	ND	2.09	104	2.00	2.67		
Ethylbenzene*	<0.050	0.050	03/02/2012	ND	2.14	107	2.00	2.88		
Total Xylenes*	<0.150	0.150	03/02/2012	ND	6.70	112	6.00	3.07		

Surrogate: 4-Bromofluorobenzene (PIE) 110 % 64.4-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>5200</b>	16.0	03/01/2012	ND	432	108	400	7.69		

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	03/02/2012	ND	178	89.1	200	20.0		
<b>DRO &gt;C10-C28</b>	<b>742</b>	10.0	03/02/2012	ND	189	94.4	200	1.15		

Surrogate: 1-Chlorooctane 96.8 % 55.5-154

Surrogate: 1-Chlorooctadecane 120 % 57.6-158

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 APACHE - EUNICE  
 NATALIE GLADDEN  
 P. O. BOX 1849  
 EUNICE NM, 88231  
 Fax To: 394-2425

Received:	02/29/2012	Sampling Date:	02/27/2012
Reported:	03/05/2012	Sampling Type:	Soil
Project Name:	N B TWEEN #018	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: 5' EAST (H200531-02)**

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/02/2012	ND	1.93	96.6	2.00	2.49		
Toluene*	<0.050	0.050	03/02/2012	ND	2.09	104	2.00	2.67		
Ethylbenzene*	<0.050	0.050	03/02/2012	ND	2.14	107	2.00	2.88		
Total Xylenes*	<0.150	0.150	03/02/2012	ND	6.70	112	6.00	3.07		

*Surrogate: 4-Bromofluorobenzene (PIL) 116% 64.4-134*

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>7200</b>	16.0	03/01/2012	ND	432	108	400	7.69		

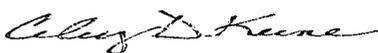
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	03/02/2012	ND	178	89.1	200	20.0		
<b>DRO &gt;C10-C28</b>	<b>366</b>	10.0	03/02/2012	ND	189	94.4	200	1.15		

*Surrogate: 1-Chlorooctane 94.6% 55.5-154*
*Surrogate: 1-Chlorooctadecane 103% 57.6-158*

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 APACHE - EUNICE  
 NATALIE GLADDEN  
 P. O. BOX 1849  
 EUNICE NM, 88231  
 Fax To: 394-2425

Received:	02/29/2012	Sampling Date:	02/27/2012
Reported:	03/05/2012	Sampling Type:	Soil
Project Name:	N B TWEEN #018	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: 5' SOUTH (H200531-03)**

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/02/2012	ND	1.93	96.6	2.00	2.49		
Toluene*	<0.050	0.050	03/02/2012	ND	2.09	104	2.00	2.67		
<b>Ethylbenzene*</b>	<b>0.080</b>	0.050	03/02/2012	ND	2.14	107	2.00	2.88		
<b>Total Xylenes*</b>	<b>0.378</b>	0.150	03/02/2012	ND	6.70	112	6.00	3.07		

*Surrogate: 4-Bromofluorobenzene (PIL) 107% 64.4-134*

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>22000</b>	16.0	03/01/2012	ND	432	108	400	7.69		

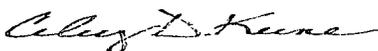
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>11.7</b>	10.0	03/02/2012	ND	178	89.1	200	20.0		
<b>DRO &gt;C10-C28</b>	<b>1870</b>	10.0	03/02/2012	ND	189	94.4	200	1.15		

*Surrogate: 1-Chlorooctane 95.6% 55.5-154*
*Surrogate: 1-Chlorooctadecane 87.7% 57.6-158*

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 APACHE - EUNICE  
 NATALIE GLADDEN  
 P. O. BOX 1849  
 EUNICE NM, 88231  
 Fax To: 394-2425

 Received: 02/29/2012  
 Reported: 03/05/2012  
 Project Name: N B TWEEN #018  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 02/27/2012  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: 5' WEST (H200531-04)**

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/02/2012	ND	1.93	96.6	2.00	2.49		
Toluene*	<0.050	0.050	03/02/2012	ND	2.09	104	2.00	2.67		
<b>Ethylbenzene*</b>	<b>0.225</b>	0.050	03/02/2012	ND	2.14	107	2.00	2.88		
<b>Total Xylenes*</b>	<b>1.04</b>	0.150	03/02/2012	ND	6.70	112	6.00	3.07		

Surrogate: 4-Bromofluorobenzene (PIL) 121 % 64.4-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>6900</b>	16.0	03/01/2012	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>73.5</b>	10.0	03/02/2012	ND	178	89.1	200	20.0		
<b>DRO &gt;C10-C28</b>	<b>11900</b>	10.0	03/02/2012	ND	189	94.4	200	1.15		

Surrogate: 1-Chlorooctane 120 % 55.5-154

Surrogate: 1-Chlorooctadecane 97.8 % 57.6-158

**Sample ID: 48' EAST / 10' NORTH (H200531-05)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>3280</b>	16.0	03/01/2012	ND	432	108	400	0.00		

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 APACHE - EUNICE  
 NATALIE GLADDEN  
 P. O. BOX 1849  
 EUNICE NM, 88231  
 Fax To: 394-2425

 Received: 02/29/2012  
 Reported: 03/05/2012  
 Project Name: N B TWEEN #018  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 02/27/2012  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: 80' WEST / 32' NORTH (H200531-06)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32400	16.0	03/01/2012	ND	432	108	400	0.00		

**Sample ID: 41' WEST / 32' SOUTH (H200531-07)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	11400	16.0	03/01/2012	ND	432	108	400	0.00		

**Sample ID: 61' NORTH / 15' EAST (H200531-08)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	39600	16.0	03/01/2012	ND	432	108	400	0.00		

**Sample ID: 60' WEST (H200531-09)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	17600	16.0	03/01/2012	ND	432	108	400	0.00		

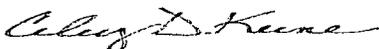
**Sample ID: 83' NORTH / 39' EAST (H200531-10)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	18800	16.0	03/01/2012	ND	432	108	400	0.00		

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 APACHE - EUNICE  
 NATALIE GLADDEN  
 P. O. BOX 1849  
 EUNICE NM, 88231  
 Fax To: 394-2425

 Received: 02/29/2012  
 Reported: 03/05/2012  
 Project Name: N B TWEEN #018  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 02/27/2012  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

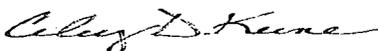
**Sample ID: 95' WEST (H200531-11)**

Chloride, SM4500Cl-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>5440</b>	16.0	03/01/2012	ND	432	108	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

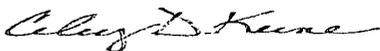
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

---

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\*=Accredited Analyte

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---

Celey D. Keene, Lab Director/Quality Manager



2012



**CARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603  
 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

Company Name: Apache		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>																																
Project Manager: Natalie Gladden		P.O. #:		Chlorides	TPH 8015 M	BTEX	Texas TPH	Complete Cations/Anions	TDS																											
Address:		Company:																																		
City: State: NM Zip:		Attn:																																		
Phone #: Fax #:		Address:																																		
Project #: Project Owner:		City:																																		
Project Name: N.B. Thien # 018		State: Zip:																																		
Project Location:		Phone #:																																		
Sampler Name: Dakston Harris		Fax #:																																		
FOR LAB USE ONLY																					MATRIX		PRESERV.		SAMPLING											
Lab I.D.	Sample I.D.	GRAB OR (COMP.)	# CONTAINERS																		GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER:	ACID/BASE	ICE / COOL	OTHER:	DATE	TIME						
H200531	95 W		1			✓						7/27/12	1:55																							

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Relinquished By: <i>[Signature]</i>	Date: 7/28/12	Received By: <i>[Signature]</i>	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
Relinquished By: <i>[Signature]</i>	Date: 7/29/12	Received By: <i>[Signature]</i>	Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Time: 8:05	Checked By: <i>[Signature]</i>	REMARKS: email results NatalieGladden@usa.apachecorp.com Zcorder@rice-ecs.com; Bbaker@rice-ecs.com; hcorder@rice-ecs.com; Lweinheimer@rice-ecs.com	

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

*[Handwritten initials]*



January 03, 2013

NATALIE GLADDEN

APACHE - EUNICE

P. O. BOX 1849

EUNICE, NM 88231

RE: N B TWEEN STATE #018

Enclosed are the results of analyses for samples received by the laboratory on 12/31/12 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](http://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 cursive script that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

 APACHE - EUNICE  
 NATALIE GLADDEN  
 P. O. BOX 1849  
 EUNICE NM, 88231  
 Fax To: 394-2425

 Received: 12/31/2012  
 Reported: 01/03/2013  
 Project Name: N B TWEEN STATE #018  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 12/28/2012  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Hope S. Moreno

**Sample ID: S SCRAPE - S WALL CENTER (H203120-01)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/03/2013	ND	432	108	400	3.64		

**Sample ID: S SCRAPE - E WALL CENTER (H203120-02)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	01/03/2013	ND	432	108	400	3.64		

**Sample ID: S SCRAPE - W WALL CENTER (H203120-03)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/03/2013	ND	432	108	400	3.64		

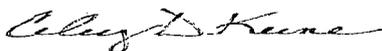
**Sample ID: S SCRAPE - 5 PT. BTM (H203120-04)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	01/03/2013	ND	432	108	400	3.64		

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 APACHE - EUNICE  
 NATALIE GLADDEN  
 P. O. BOX 1849  
 EUNICE NM, 88231  
 Fax To: 394-2425

Received:	12/31/2012	Sampling Date:	12/31/2012
Reported:	01/03/2013	Sampling Type:	Soil
Project Name:	N B TWEEN STATE #018	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Hope S. Moreno
Project Location:	NOT GIVEN		

**Sample ID: N SCRAPE - N WALL CENTER (H203120-05)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	01/03/2013	ND	432	108	400	3.64		

**Sample ID: N SCRAPE - S WALL CENTER (H203120-06)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	01/03/2013	ND	432	108	400	3.64		

**Sample ID: N SCRAPE - E WALL CENTER (H203120-07)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	01/03/2013	ND	432	108	400	3.64		

**Sample ID: N SCRAPE - W WALL CENTER (H203120-08)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	01/03/2013	ND	432	108	400	3.64		

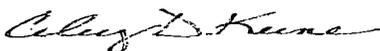
**Sample ID: N SCRAPE - 5 PT. BTM (H203120-09)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	01/03/2013	ND	432	108	400	3.64		

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 APACHE - EUNICE  
 NATALIE GLADDEN  
 P. O. BOX 1849  
 EUNICE NM, 88231  
 Fax To: 394-2425

Received:	12/31/2012	Sampling Date:	12/31/2012
Reported:	01/03/2013	Sampling Type:	Soil
Project Name:	N B TWEEN STATE #018	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Hope S. Moreno
Project Location:	NOT GIVEN		

**Sample ID: E SCRAPE - N WALL CENTER (H203120-10)**

Chloride, SM4500CI-B	mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/03/2013	ND	432	108	400	3.64	

**Sample ID: E SCRAPE - E WALL CENTER (H203120-11)**

Chloride, SM4500CI-B	mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/03/2013	ND	432	108	400	3.64	

**Sample ID: E SCRAPE - W WALL CENTER (H203120-12)**

Chloride, SM4500CI-B	mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/03/2013	ND	432	108	400	3.64	

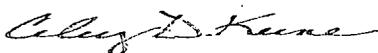
**Sample ID: E SCRAPE - 5 PT. BTM (H203120-13)**

Chloride, SM4500CI-B	mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/03/2013	ND	432	108	400	3.64	

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

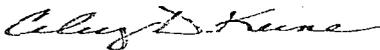
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

---

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

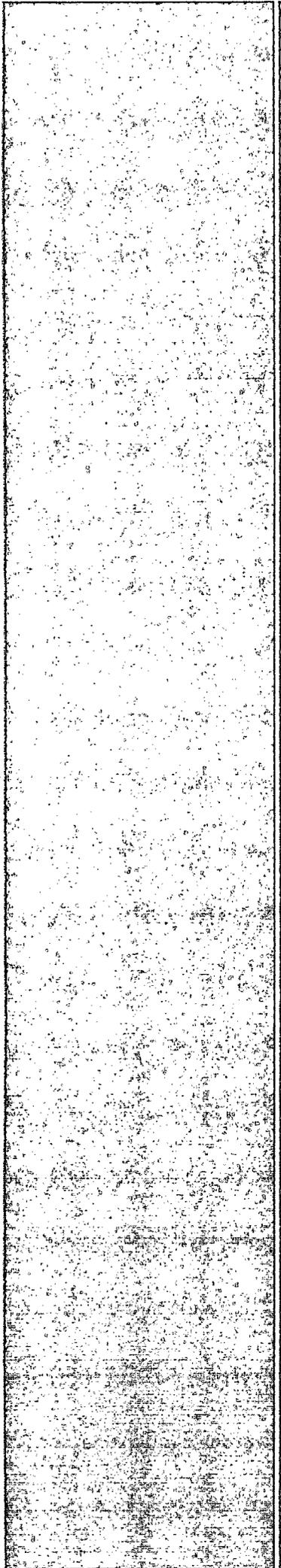
Company Name: Apache Corp.	<b>BILL TO:</b>		ANALYSIS REQUEST	
Project Manager: Natalie Gladden	P.O. #:			
Address:	Company:			
City: State: Zip:	Attn:			
Phone #: Fax #:	Address:			
Project #:	Project Owner:			
Project Name: <i>RD. 12, Section 5, N-70</i>	State: Zip:			
Project Location:	Phone #:			
Sampler Name: <i>J. Campbell</i>	Fax #:			

Lab. I.D.	Sample I.D.	GRAB OR COMP.	# CONTAINERS	MATRIX						PRESERV.	SAMPLING	DATE	TIME	Chlorides	TPH	BTEX	Texas TPH	Complete Cations/Anions	TDS
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER										
11	<i>7</i>																		
12	<i>7</i>																		
13	<i>7</i>																		

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Relinquished By: <i>[Signature]</i>	Date: <i>12/23/12</i>	Received By: <i>[Signature]</i>	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
	Time: <i>4:35</i>		Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:		email results: natalie.gladden@apachecorp.com; Zcorder@rice-ecs.com; Bbaker@rice-ecs.com; hconder@rice-ecs.com; Lweinheimer@rice-ecs.com; jkamplain@rice-ecs.com	
Delivered By: (Circle One)	Sample Condition	CHECKED BY:		
Sampler: UPS Bus Other	Cool Intact	(Initials)		
	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<i>[Signature]</i>		
	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			

Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



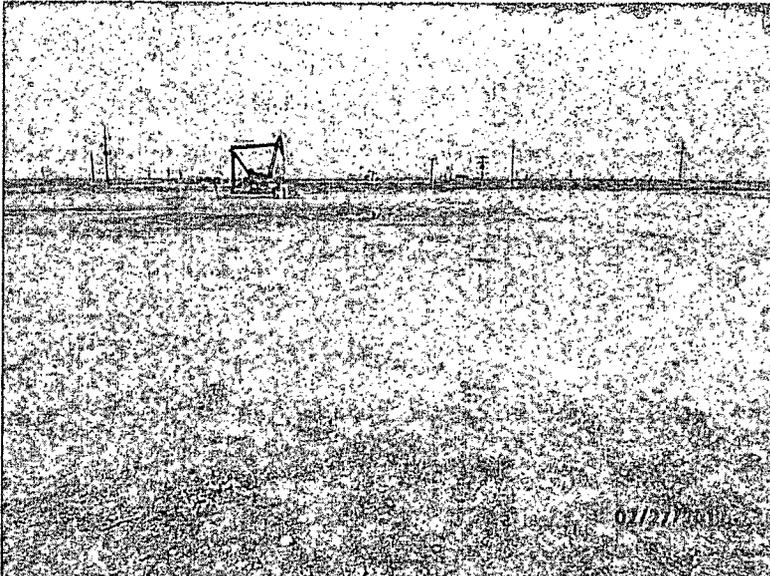
# Appendix C

Photo Documentation

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

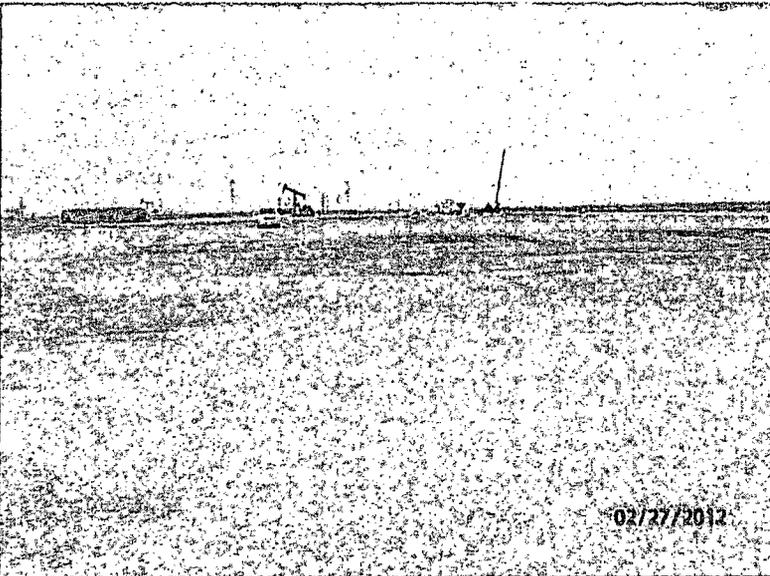
# Apache NB Tween #18

Unit Letter C, Section 25, T17S, R28E



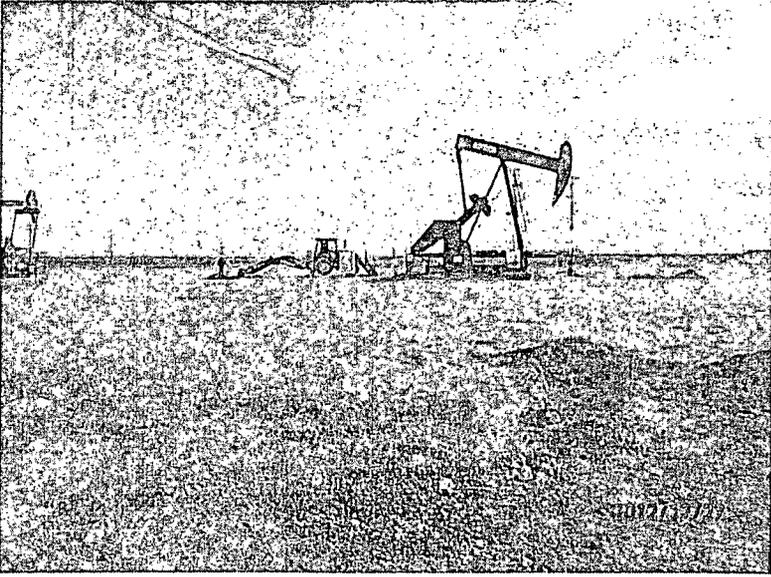
Initial release area, facing north

2/27/12



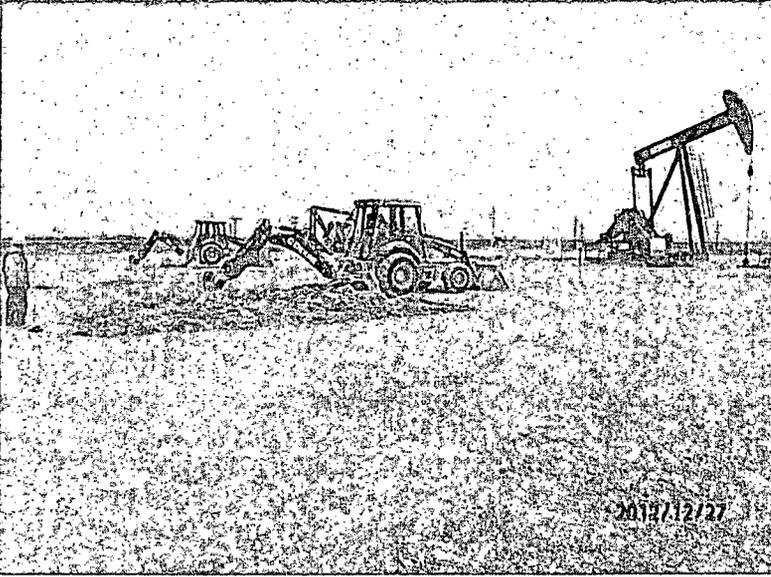
Initial release area, facing south

2/27/12



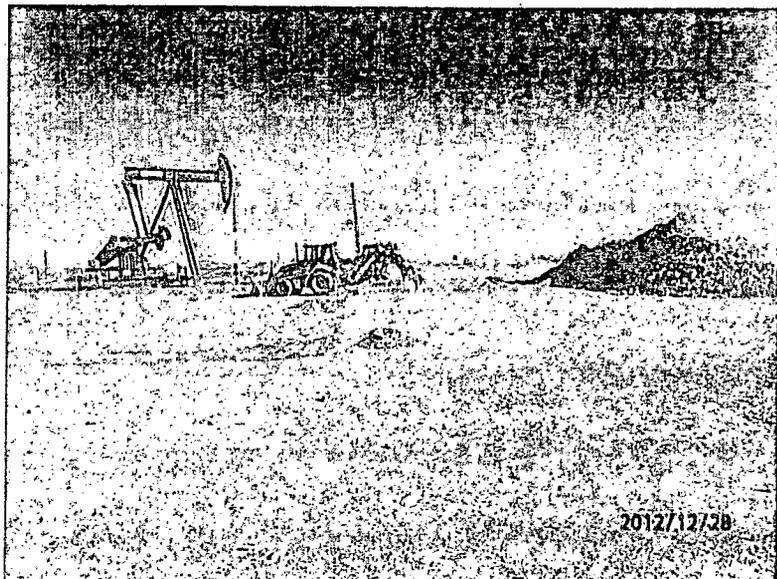
Spotting the liner, facing northeast

12/27/12

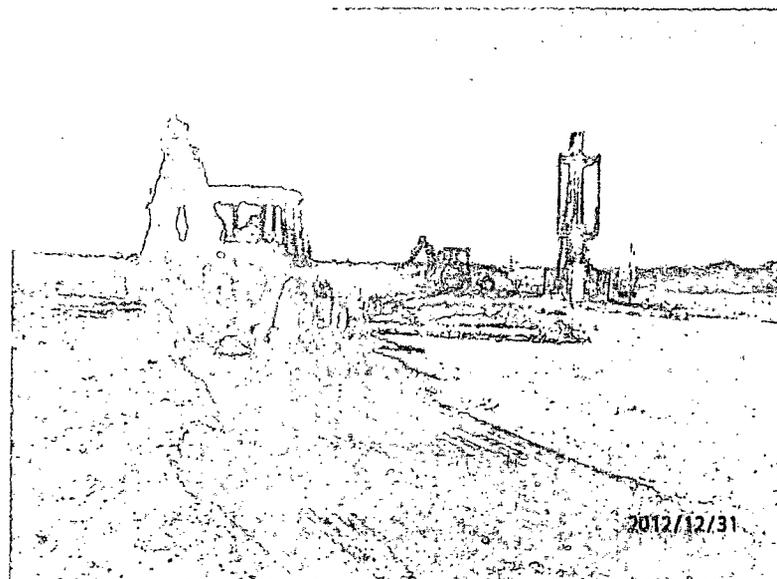


Scraping over the liner, facing northeast

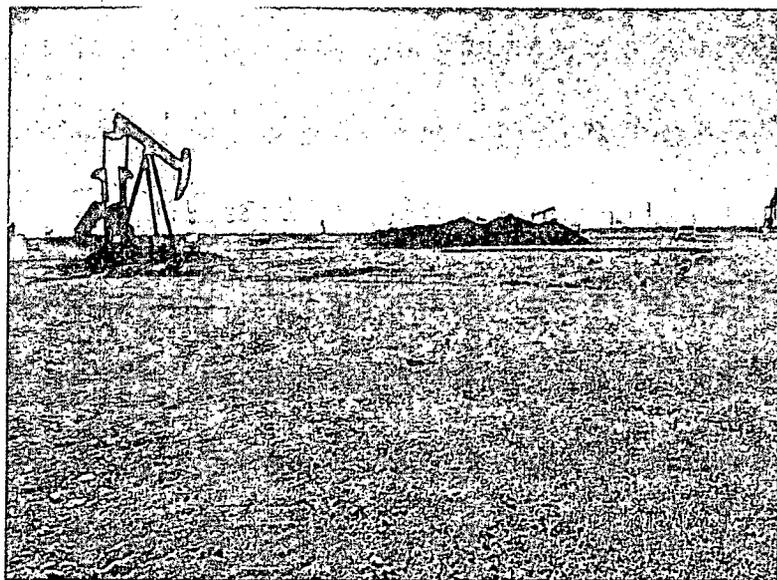
12/27/12



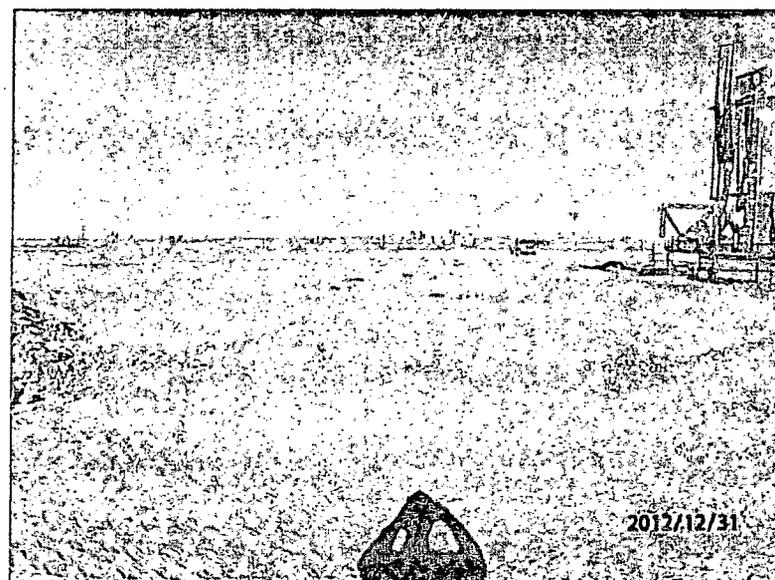
Scraping the east scrape, facing east 12/28/12



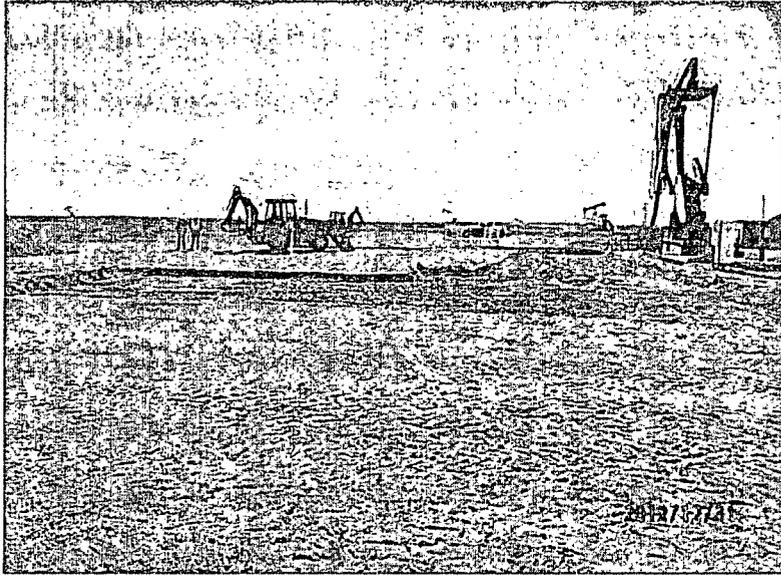
Scraping the north scrape, facing south 12/31/12



Scrape over the liner completed, facing southeast 12/31/12

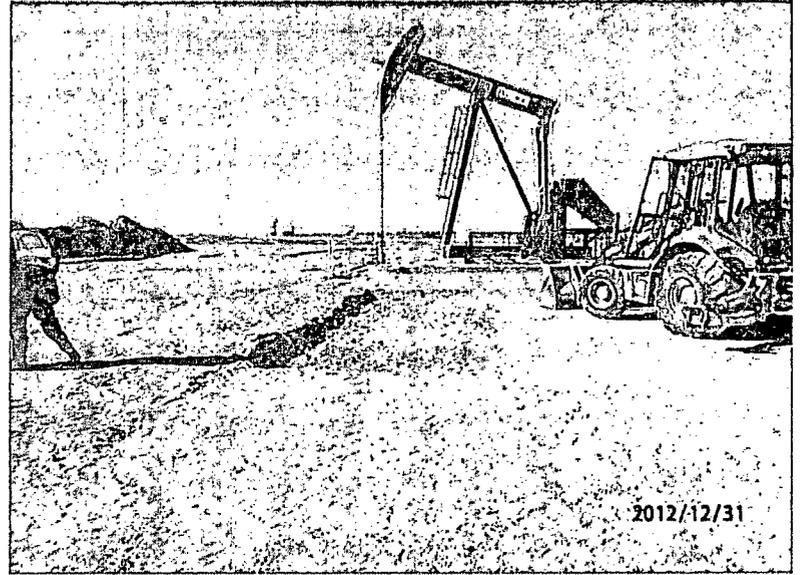


South scrape completed, facing northwest 12/31/12



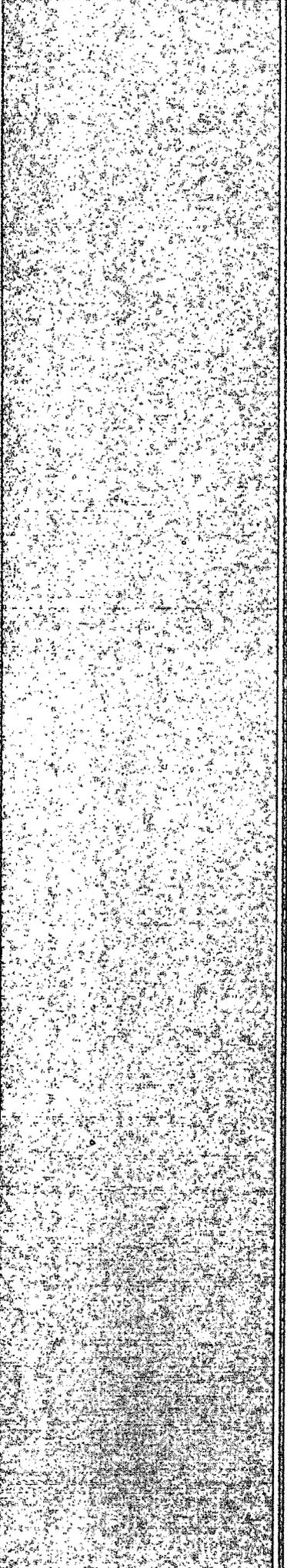
North scrape completed, facing south

12/31/12



East scrape completed, facing east

12/31/12



# Appendix D

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  
1301 W. Grand Avenue, 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 October 10, 2003

Submit 2 Copies to appropriate  
District Office in accordance  
with Rule 116 on back  
side of form

**Release Notification and Corrective Action**

**OPERATOR**

Initial Report  Final Report

Name of Company Apache Corporation	Contact Bruce Baker
Address PO Box 1849, Eunice, NM 88231	Telephone No. (575) 394-1503
Facility Name NB Tween #18	Facility Type New drill
Surface Owner Bogle Ltd Company	Mineral Owner State
Lease No. 30-015-39070	

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
C	25	17S	28E	550'	FNL	2310'	FWL	Eddy

Latitude \_\_\_\_\_ Longitude \_\_\_\_\_

**NATURE OF RELEASE**

Type of Release Drilling mud and brine water	Volume of Release 5-10 barrels	Volume Recovered 0
Source of Release Overflow of bins	Date and Hour of Occurrence 2/25/2012	Date and Hour of Discovery Same
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Geoffrey Leking	
By Whom? Natalie Gladden	Date and Hour 2/27/2012 9:00 am	
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.\*  
Qmax system overflowed causing the overflow bins to overflow.

Describe Area Affected and Cleanup Action Taken.\* Surface samples were collected throughout the release area and representative samples were taken to a commercial laboratory for analysis. Laboratory results showed elevated chloride levels throughout, except for the area near the roll-off bins. The release area over the liner was scraped to 6 inches bgs to remove as much contaminated soil as possible without damaging the liner. The remainder of the release area was also scraped down 6 inches and RECS personnel field tested the bottom and the four walls of each scrape for chlorides. A five point bottom composite from each scraped area off the liner and their representative wall samples were taken to a commercial laboratory for analysis of chlorides. The laboratory results for all samples were below 250 mg/kg. The site was backfilled with clean, imported soil and contoured to the surrounding location.

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>Bruce Baker</i>		<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Bruce Baker		Approved by District Supervisor:	
Title: Environmental Tech		Approval Date:	Expiration Date:
E-mail Address: larry.baker@apachecorp.com		Conditions of Approval:	
Date: 10-21-13 Phone: (575) 394-1503		Attached <input type="checkbox"/>	

\* Attach Additional Sheets If Necessary