

EXPLORING WHAT'S POSSIBLE

APACHE CORPORATION

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

NB Tween #18 (2RP-1065)

Termination Request

API 30-015-39070

Release Date: February 25th, 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 | |
| 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: <i>M. L. Bratcher</i> Street Apt. No.: or PO Box No.: <i>811 S. First St.</i> City, State, ZIP+4: <i>Artesia NM 88210</i> | |
| Postmark Here: <i>OCT 25 2003</i> | |

| | | | |
|--|--|--|--|
| 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 checked="" type="checkbox"/> Print your name and address on the reverse so that we can return the card to you. <input checked="" type="checkbox"/> Attach this card to the back of the mailpiece, or on the front if space permits. | | A. Signature <i>x J. Warren</i> | |
| 1. Article Addressed to: <i>M. L. Bratcher</i> <i>NM 88210</i> <i>811 S. First St.</i> <i>Artesia NM 88210</i> | | <input type="checkbox"/> Agent <input type="checkbox"/> Addressee B. Received by (Printed Name) <i>J. Warren</i> | |
| | | C. Date of Delivery <i>10-28-13</i> | |
| | | D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No | |
| | | 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 | |
| 2. Article Number (Transfer from service label) | | <i>7007 2560 0003 0323 9018</i> | |
| PS Form 3811, February 2004 | | Domestic Return Receipt <i>Artesia NM 88210</i> <i>811 S. First St.</i> | |

102595-02-M-1540

Rice Environmental Consulting & Safety

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

March 14th, 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 25th, 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 27th, 2012 and was approved on March 23rd, 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.

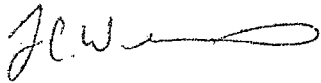
RECS personnel were on site on February 27th, 2012 to initiate work at the NB Tween #18. Surface samples were collected throughout the release area and representative samples were taken to a commercial laboratory for analysis (Figure 1). Laboratory results showed elevated chloride levels throughout, 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 'JLW', followed by a long horizontal flourish.

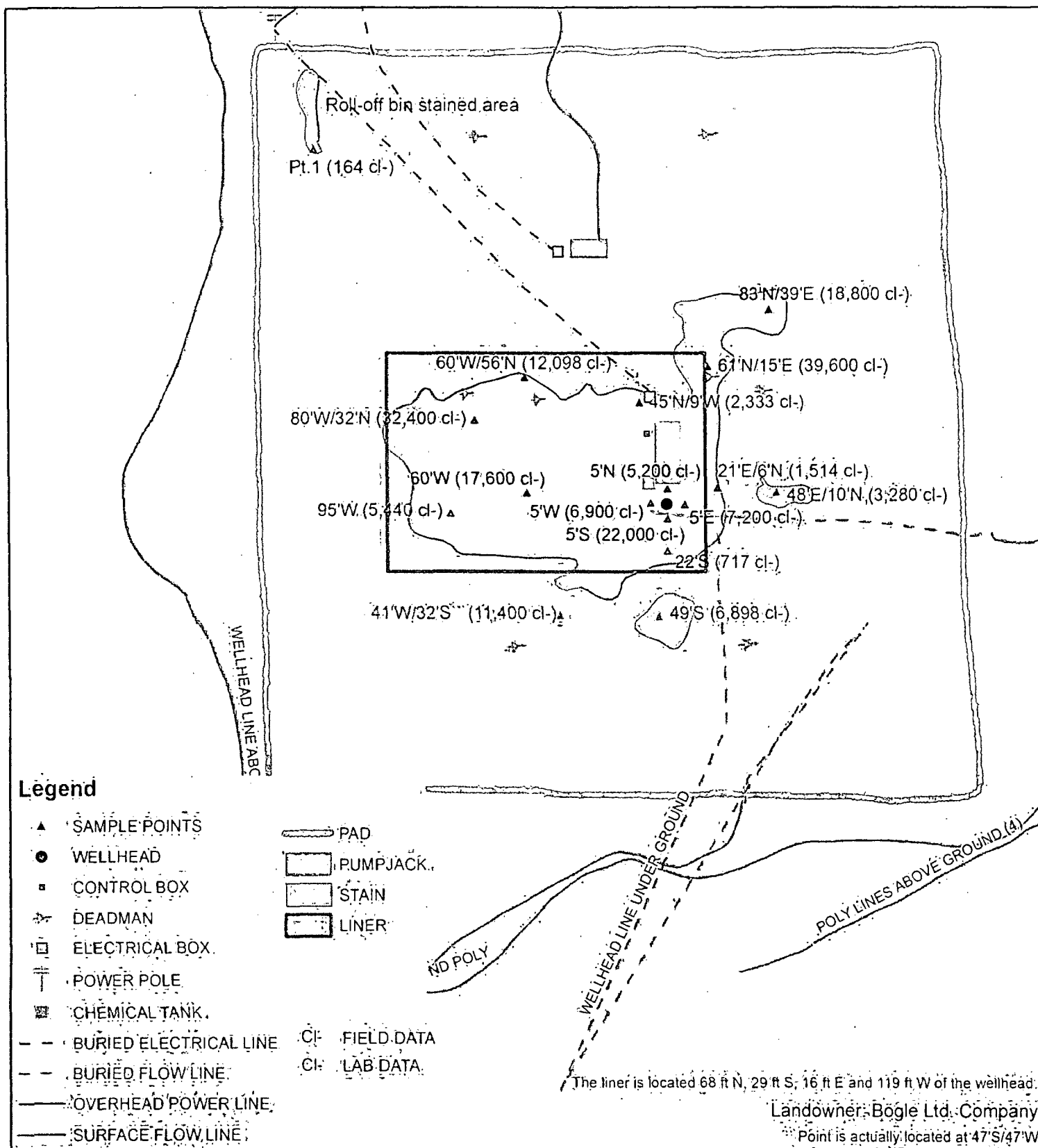
Lara Weinheimer
Project Scientist
RECS
(575) 441-0431

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

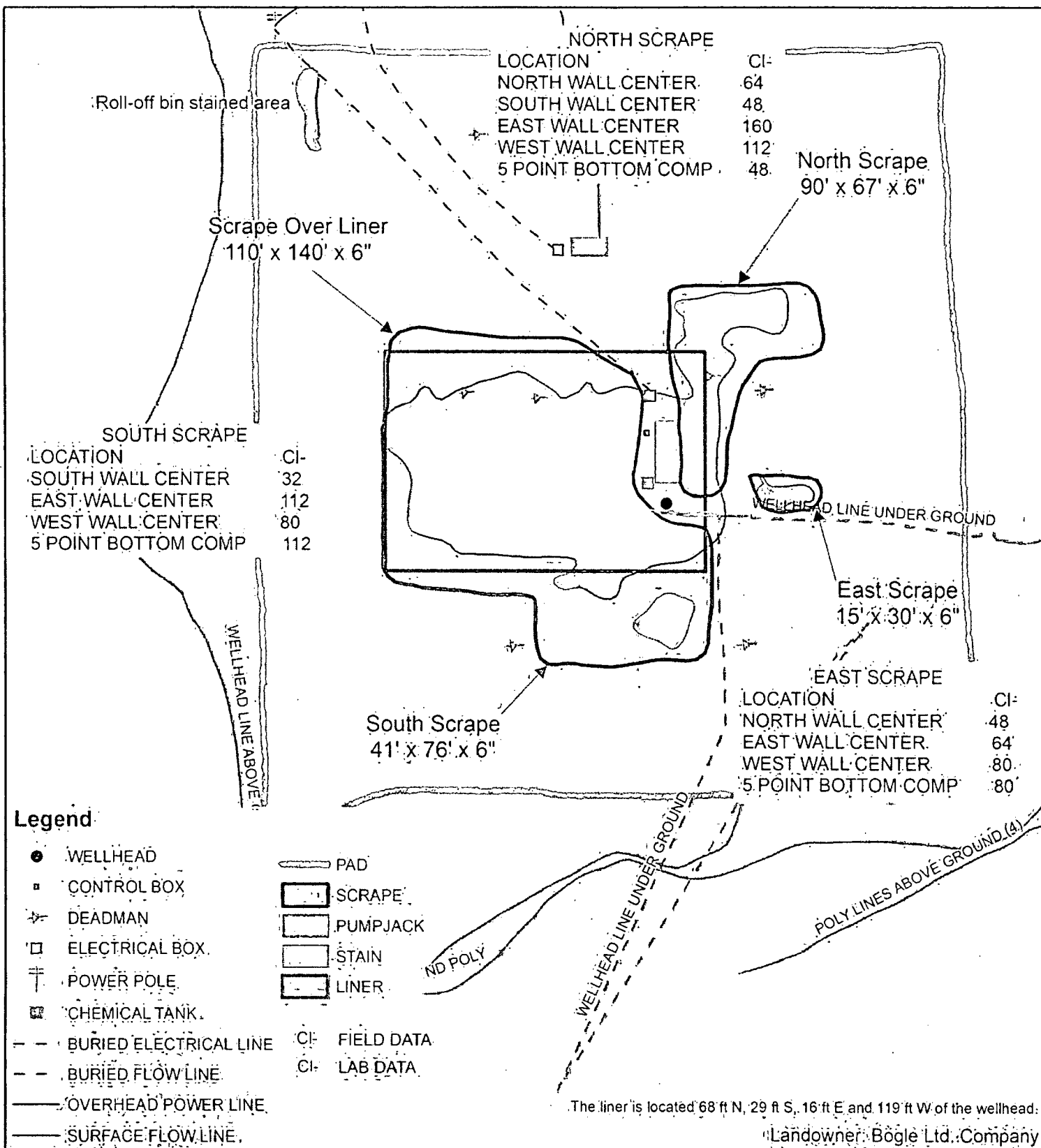
LEGALS: UL/C sec. 25
T-17-S-R-28-E
EDDY COUNTY, NM

Figure 1

0 15 30 60
Feet

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

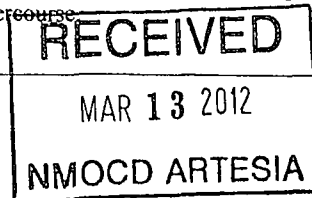
| | | | | | | | | |
|-------------|---------|----------|-------|---------------|------------------|---------------|----------------|--------|
| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
| C | 25 | 17S | 28E | 550' | FNL | 2310'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

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: | OIL CONSERVATION DIVISION | |
| Printed Name: Natalie Gladden | Signed By 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. SUBMIT REMEDIATION PROPOSAL NOT LATER THAN: 4/23/2012 | Attached <input type="checkbox"/> |
| Date: 2/27/12 Phone: 575-390-4186 | | |

* 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



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

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.

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 |
| Chloride | 5200 | 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 | |
| DRO >C10-C28 | 742 | 10.0 | 03/02/2012 | ND | 189 | 94.4 | 200 | 1.15 | |

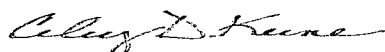
Surrogate: 1-Chlorooctane 96.8 % 55.5-154

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
 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' 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 | |
| Chloride | 7200 | 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 | | |
| DRO >C10-C28 | 366 | 10.0 | 03/02/2012 | ND | 189 | 94.4 | 200 | 1.15 | | |

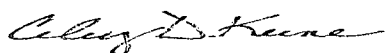
Surrogate: 1-Chlorooctane 94.6 % 55.5-154

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
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' 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 | |
| Ethylbenzene* | 0.080 | 0.050 | 03/02/2012 | ND | 2.14 | 107 | 2.00 | 2.88 | |
| Total Xylenes* | 0.378 | 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 |
| Chloride | 22000 | 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 | 11.7 | 10.0 | 03/02/2012 | ND | 178 | 89.1 | 200 | 20.0 | |
| DRO >C10-C28 | 1870 | 10.0 | 03/02/2012 | ND | 189 | 94.4 | 200 | 1.15 | |

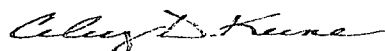
Surrogate: 1-Chlorooctane 95.6 % 55.5-154

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)

| BTX 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* | 0.225 | 0.050 | 03/02/2012 | ND | 2.14 | 107 | 2.00 | 2.88 | |
| Total Xylenes* | 1.04 | 0.150 | 03/02/2012 | ND | 6.70 | 112 | 6.00 | 3.07 | |

Surrogate: 4-Bromofluorobenzene (PIL) 121 % 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 |
| Chloride | 6900 | 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 | 73.5 | 10.0 | 03/02/2012 | ND | 178 | 89.1 | 200 | 20.0 | |
| DRO >C10-C28 | 11900 | 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

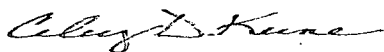
Sample ID: 48' EAST / 10' NORTH (H200531-05)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: HM | | | | | |
|----------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 3280 | 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 | |

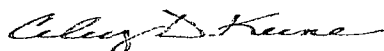
Sample ID: 83' NORTH / 39' EAST (H200531-10)

| 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 | |

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

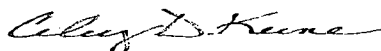
Analytical Results For:APACHE - EUNICE
NATALIE GLADDEN
P. O. BOX 1849
EUNICE NM, 88231
Fax To: 394-2425Received: 02/29/2012
Reported: 03/05/2012
Project Name: N B TWEEN #018
Project Number: NONE GIVEN
Project Location: NOT GIVENSampling Date: 02/27/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson**Sample ID: 95' WEST (H200531-11)**

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: HM | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 5440 | 16.0 | 03/01/2012 | ND | 432 | 108 | 400 | 0.00 | | |

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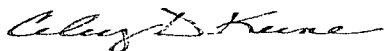
Notes and Definitions

| | |
|-----|--|
| 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

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[illegible]

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| | | | | | |
|-------------------------------------|--|---|---------------------------------|--|----------------------|
| Relinquished By: <i>[Signature]</i> | | Date: <i>2/28/12</i> | Received By: <i>[Signature]</i> | Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Add'l Phone #: _____ |
| Time: <i>7:30</i> | | | | Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Add'l Fax #: _____ |
| Relinquished By: <i>[Signature]</i> | | Date: <i>2/29/12</i> | Received By: <i>[Signature]</i> | REMARKS: | |
| Time: <i>8:05</i> | | | | email results NatalieGladden@usa.apachecorp.com | |
| Delivered By: (Circle One) | | Sample Condition | | CHECKED BY: | |
| Sampler - UPS - Bus - Other: | | Cool, Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | (Initials) <i>[Signature]</i> | |
| | | <input type="checkbox"/> No <input type="checkbox"/> Yes | | Zconder@rice-ecs.com ; Bbaker@rice-ecs.com ; hconder@rice-ecs.com ; Lweinheimer@rice-ecs.com | |

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



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

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.

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

| | |
|------------------|------------------------------|
| Method EPA 552.2 | Haloacetic Acids (HAA-5) |
| Method EPA 524.2 | Total Trihalomethanes (TTHM) |
| Method EPA 524.4 | Regulated VOCs (V1, V2, V3) |

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink, reading "Coley D. Keene". The signature is written in a cursive style with a large, stylized 'C' at the beginning.

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, SM4500Cl-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, SM4500Cl-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 | |

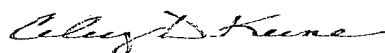
Sample ID: S SCRAPE - 5 PT. BTM (H203120-04)

| Chloride, SM4500Cl-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 | |

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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, SM4500Cl-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, SM4500Cl-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, SM4500Cl-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 | | |

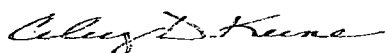
Sample ID: N SCRAPE - 5 PT. BTM (H203120-09)

| 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
 Reported: 01/03/2013
 Project Name: N B TWEEN STATE #018
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 12/31/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Hope S. Moreno

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

| Chloride, SM4500Cl-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, SM4500Cl-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, SM4500Cl-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 | |

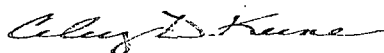
Sample ID: E SCRAPE - 5 PT. BTM (H203120-13)

| Chloride, SM4500Cl-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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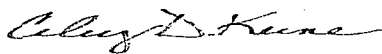
Notes and Definitions

| | |
|-----|--|
| 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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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

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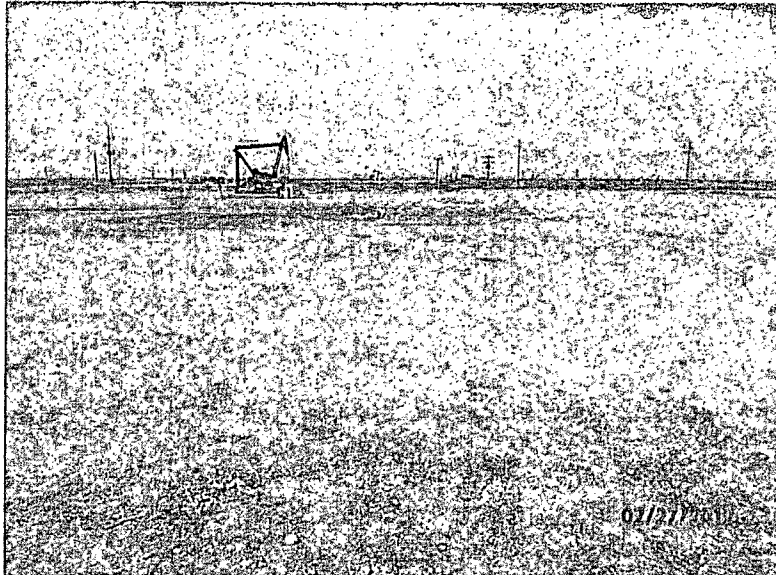
Appendix C

Photo Documentation

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

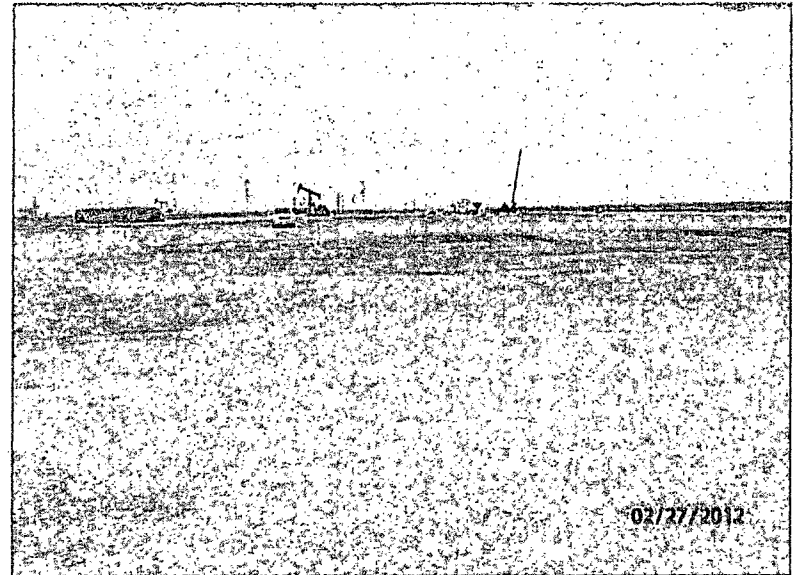
Apache NB Tween #18

Unit Letter C, Section 25, T17S, R28E



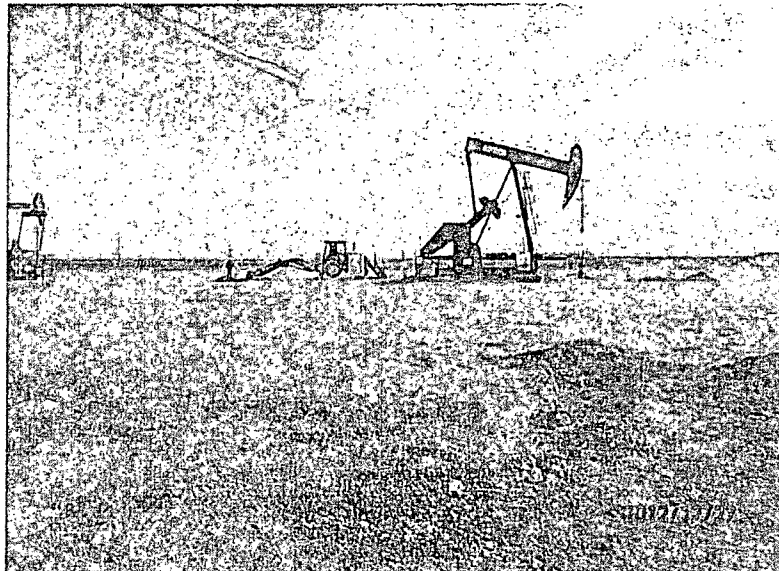
Initial release area, facing north

2/27/12



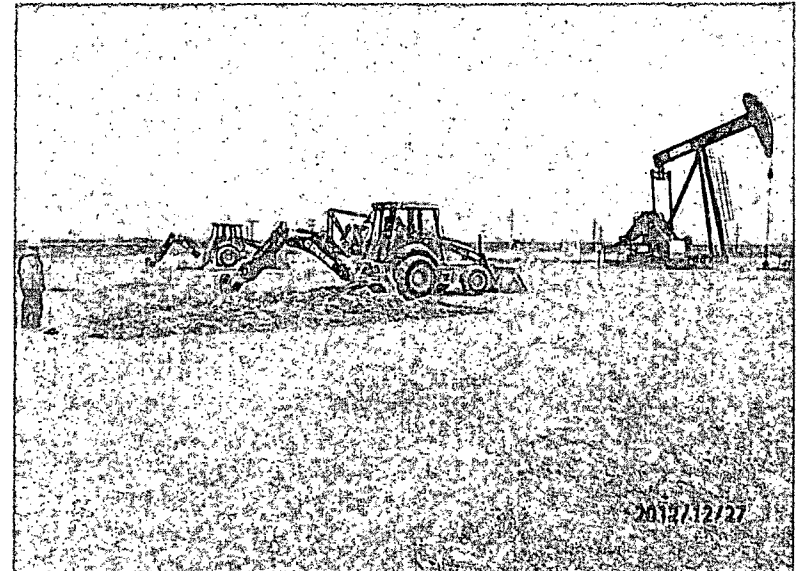
Initial release area, facing south

2/27/12



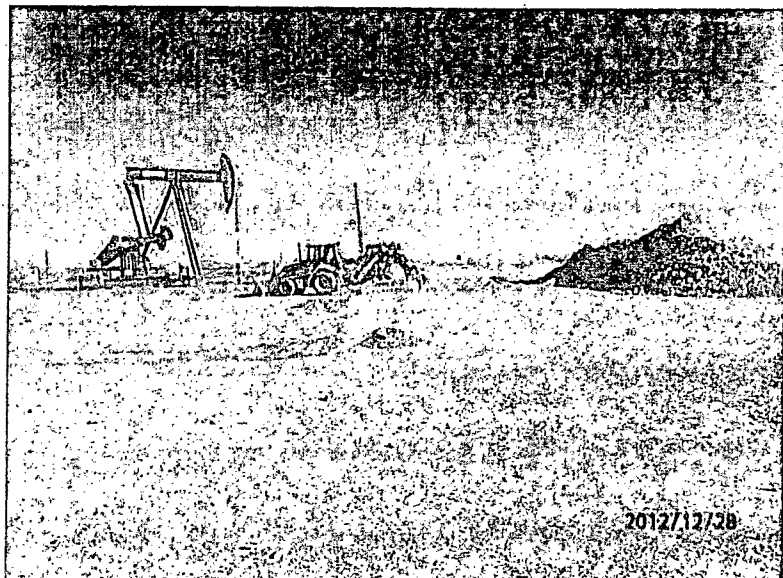
Spotting the liner, facing northeast

12/27/12

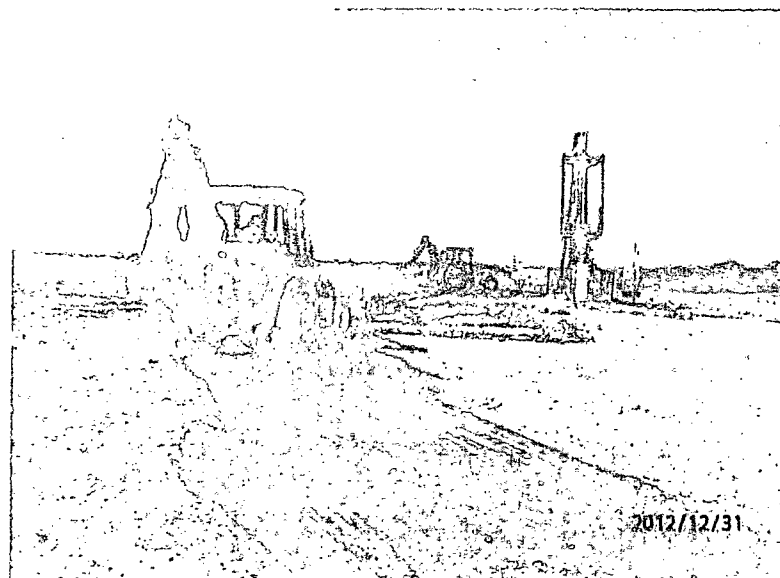


Scraping over the liner, facing northeast

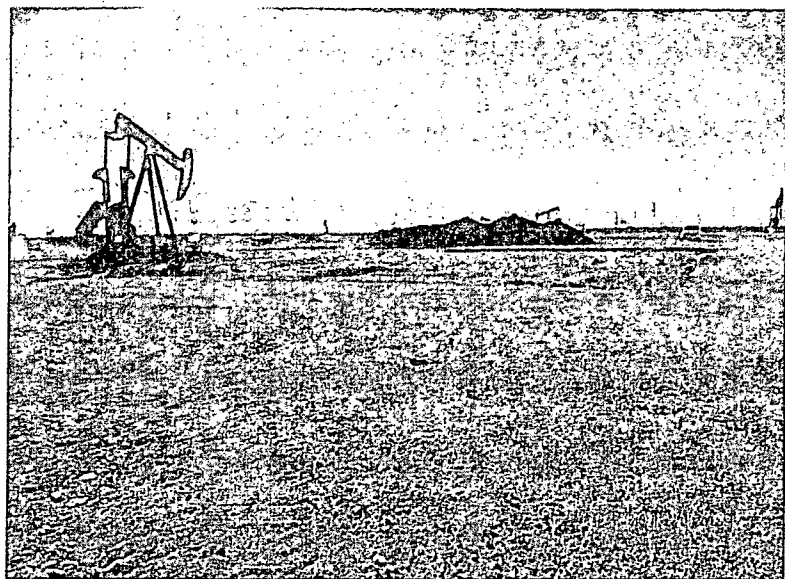
12/27/12



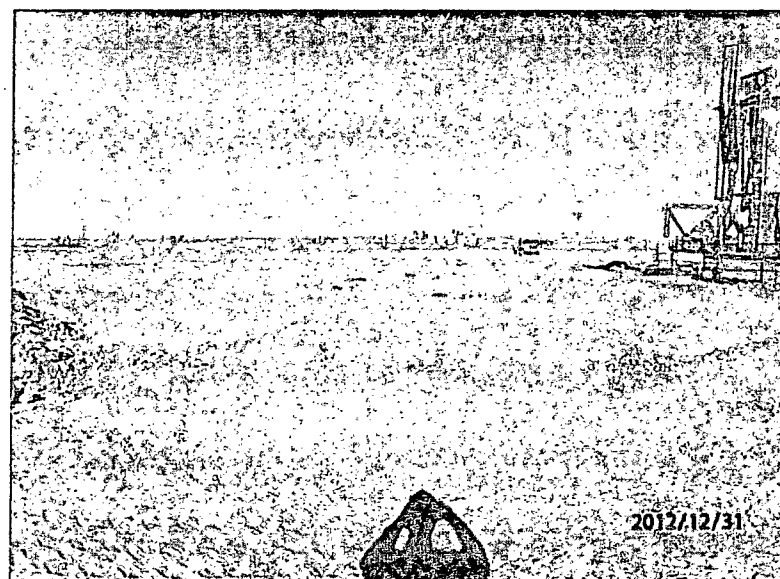
Scraping the east scrape, facing east 12/28/12



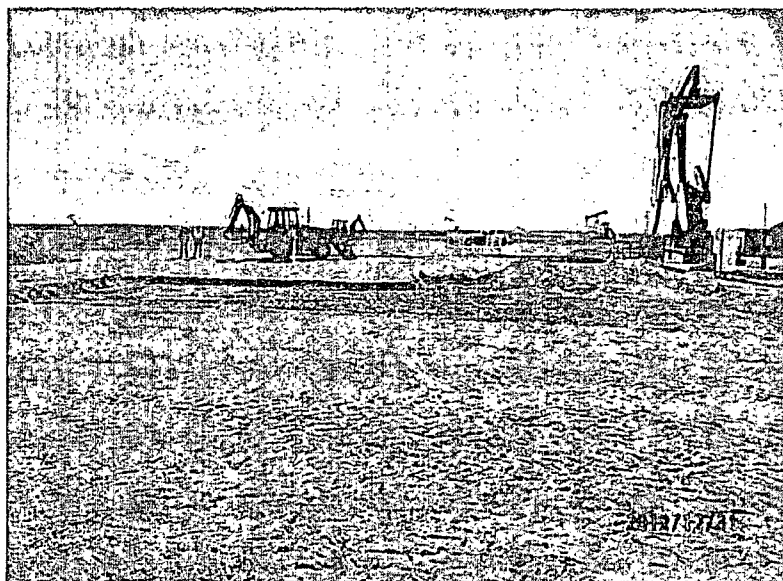
Scraping the north scrape, facing south 12/31/12



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

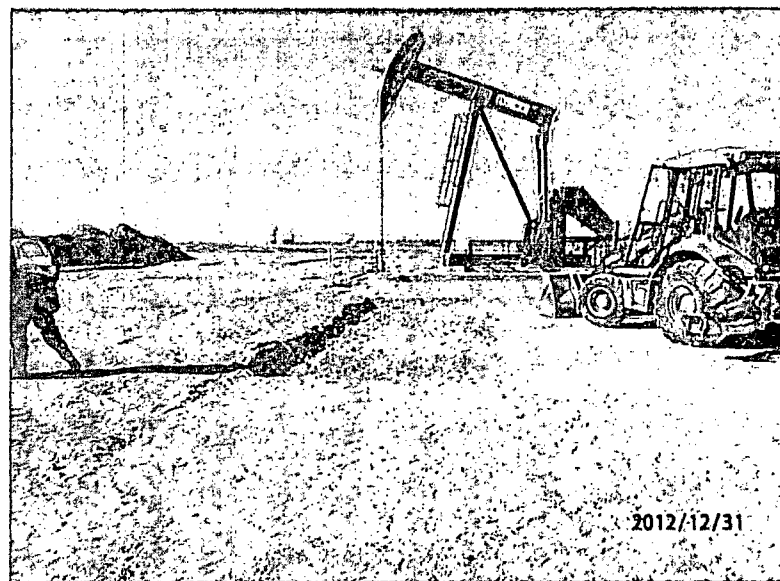


South scrape completed, facing northwest 12/31/12



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. | | | | | |

OIL CONSERVATION DIVISION

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

* Attach Additional Sheets If Necessary