

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

OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-141  
Revised August 8, 2011

Submit a 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 Apache Corporation

Contact Bruce Baker

Address 8 Ellison Lane, Eunice, NM 88231

Telephone No. (575) 394-2743

Facility Name WBDU #26

Facility Type Injection Well

Surface Owner Millard Deck Estates

Mineral Owner

API No. 30-025-26967

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	8	21S	37E	990	FNL	660	FEL	Lea

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

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release 10 bbls	Volume Recovered 0 bbls
Source of Release Injection line	Date and Hour of Occurrence	Date and Hour of Discovery 9-25-13 at 9:00 am
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" 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.\*

DTW = 65'

Describe Cause of Problem and Remedial Action Taken.\*

A 90 on the injection line had corroded and produced water was released. The line was shut in and the 90 was replaced.

Describe Area Affected and Cleanup Action Taken.\* A total surface area of 8,161 sq ft was affected with 1,657 sq ft of pasture affected. RECS personnel were on site beginning on September 26<sup>th</sup>, 2013, to assess the site. Five points throughout the surface of the release were sampled and field tested for chlorides and organic vapors using a PID meter. The samples were taken to a commercial laboratory for analysis and returned elevated chloride readings, Gasoline Range Organics (GRO) readings of non-detect and Diesel Range Organics (DRO) readings below regulatory standards. The entire release was scraped down 3 inches and a total of 72 yards of soil was taken to a NMOCD approved facility for disposal. A 5 point bottom composite of the scrape was taken to a commercial laboratory for analysis and returned a chloride value of 160 mg/kg, a GRO value of non-detect and a DRO value of 205 mg/kg. A total of 36 yards of caliche and 96 yards of soil was imported to the site to serve as backfill. A sample of the soil was taken to a commercial laboratory for analysis and returned a chloride result of non-detect. The site was backfilled with the imported material and contoured to the surrounding location. The pasture area was then seeded with a blend of native vegetation.

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: Bruce Baker

Printed Name: Bruce Baker

Title: Environmental Technician

E-mail Address: larry.baker@apachecorp.com

Date: 12-5-13

Phone: (432)631-6982

Attach Additional Sheets If Necessary

OIL CONSERVATION DIVISION

Approved by Environmental Specialist  
Environmental Specialist

Approval Date: 12/06/13

Expiration Date: -

Conditions of Approval: -

Attached ☐

IRP-11-13-2986

JUN 10 2014



EXPLORING WHAT'S POSSIBLE

# APACHE CORPORATION

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

WBDU #26  
1RP-11-13-2986

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## Termination Request

approved  
*Jeffrey Lekins*  
Environmental Specialist  
NMOC0-DIST 1  
12/06/13

API 30-025-26967

Release Date: September 25<sup>th</sup>, 2013

Unit Letter A, Section 8, Township 21S, Range 37E

# Rice Environmental Consulting & Safety

P.O. Box 2948, Hobbs, NM 88241  
Phone 575.393.2967

**December 5<sup>th</sup>, 2013**

## **Geoffrey Leking**

New Mexico Energy, Minerals, & Natural Resources  
Oil Conservation Division, Environmental Bureau – District 1  
1625 N. French Dr.  
Hobbs, NM 88240-9273

**RE: Termination Request**

**Apache Corporation – WBDU #26 (1RP-11-13-2986)**

**UL/A sec. 8 T21S R37E**

**API No. 30-025-26967**

Mr. Leking:

Apache Corporation (Apache) 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 4 miles north of Eunice, New Mexico at UL/A sec. 8 T21S R37E. NM OSE and BLM records indicate that groundwater will likely be encountered at a depth of approximately 90 +/- feet.

On September 25<sup>th</sup>, 2013, Apache discovered a release of produced water from the injection line at the site. A total of 10 barrels of produced water was released and none of this was recovered. A total of 8,161 sq ft was affected with 1,657 sq ft of the release occurring in the pasture. An initial C-141 was signed by Apache on October 14<sup>th</sup>, 2013 and was sent to NMOCD for their approval (Appendix A).

RECS personnel were on site beginning on September 26<sup>th</sup>, 2013, to assess the site. Five points throughout the surface of the release were sampled and field tested for chlorides and organic vapors using a PID meter (Figure 1). The samples were taken to a commercial laboratory for analysis and returned elevated chloride readings, Gasoline Range Organics (GRO) readings of non-detect and Diesel Range Organics (DRO) readings below regulatory standards (Appendix B).

The entire release was scraped down 3 inches and a total of 72 yards of soil was taken to a NMOCD approved facility for disposal. A 5 point bottom composite of the scrape was taken to a commercial laboratory for analysis and returned a chloride value of 160 mg/kg, a GRO value of non-detect and a DRO value of 205 mg/kg (Appendix C).

On October 31<sup>st</sup>, 2013, NMOCD approved the site to be backfilled. A total of 36 yards of caliche and 96 yards of soil was imported to the site to serve as backfill. A sample of the soil was taken to a commercial laboratory for analysis and returned a chloride result of

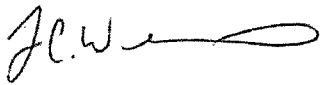
non-detect (Appendix D). The site was backfilled with the imported material and contoured to the surrounding location. The pasture area was then seeded with a blend of native vegetation.

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

Given that the contaminated soil was removed from the site and replaced with clean, imported soil, Apache requests that the site be given 'remediation termination' and closure status. The final C-141 for the site can be found in Appendix F.

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

Sincerely,

A handwritten signature in black ink, appearing to read 'L.W.' followed by a stylized flourish.

Lara Weinheimer  
Project Scientist  
RECS  
(575) 441-0431

Attachments:

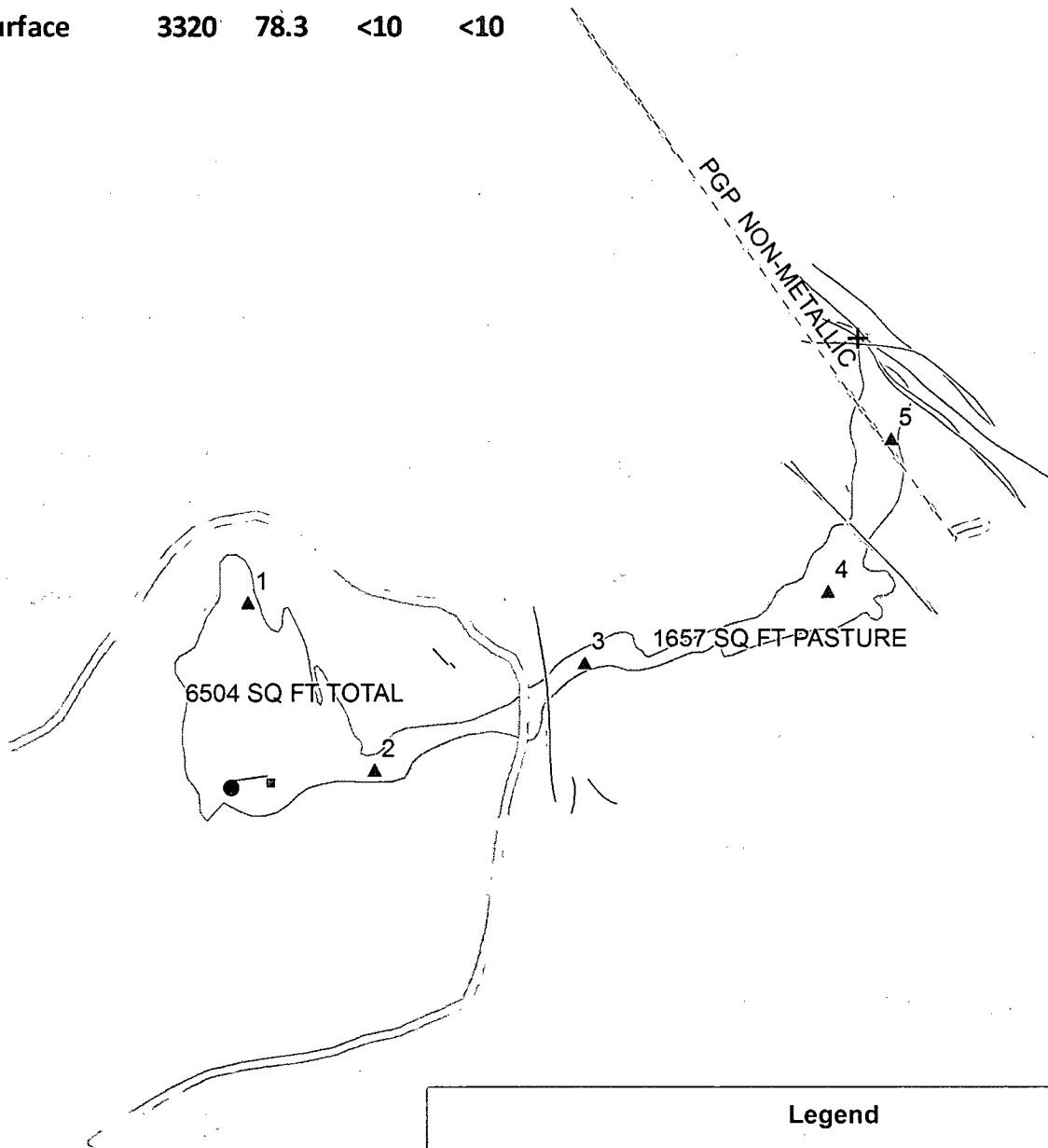
- Figure 1 – Initial Sampling Data
- Figure 2 – Excavation Data
- Appendix A – Initial C-141
- Appendix B – Initial Sampling Lab
- Appendix C – 5 Point Composite Sample Lab
- Appendix D – Backfill Lab
- Appendix E – Photo Documentation
- Appendix F – Final C-141

# Figures

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

# Initial Sampling Data

Sample Description	Cl-	PID	GRO	DRO
Point 1 Surface	2840	45.5	<10	11.5
Point 2 Surface	3640	41.1	<10	368
Point 3 Surface	2880	97.7	<10	234
Point 4 Surface	2520	11.7	<10	44.7
Point 5 Surface	3320	78.3	<10	<10



Legend		
□ CONTROL BOX	▲ SAMPLE POINT	— PAD
+ PIPELINE MARKER	● WELLHEAD	— RISER
Cl- LAB DATA	--- BURIED PIPELINE	— POLY SURFACE PIPELINE
Cl- FIELD DATA		□ STAIN

DGW : 90 ft

Landowner: Millard Deck



**APACHE**  
**WBDU #26**  
**1RP-11-13-2986**

UL A SECTION 8  
 T-21-S R-37-E  
 LEA COUNTY, NM

**Figure 1**



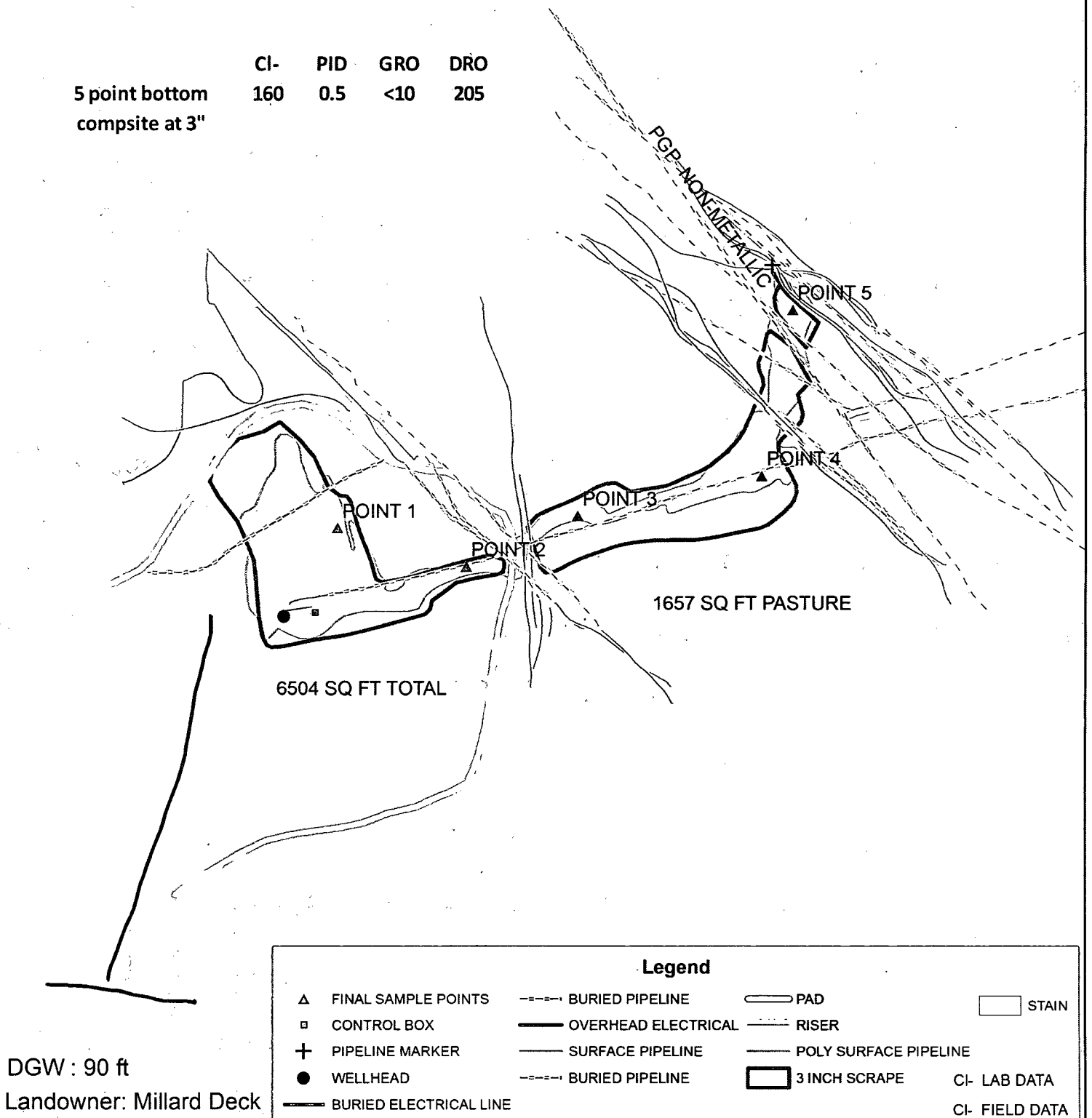
0 50 100  
 Feet

GPS date: 9/26/13 KS  
 Drawing date: 10/2/13  
 Drafted by: L. Weinheimer

# Excavation Data

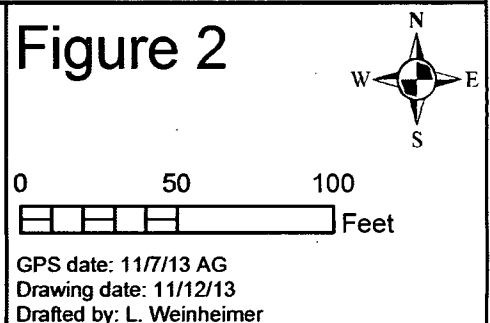
5 point bottom  
comp site at 3"

CI-	PID	GRO	DRO
160	0.5	<10	205



**APACHE**  
**WBDU #26**  
**1RP-11-13-2986**  
UL A SECTION 8  
T-21-S R-37-E  
LEA COUNTY, NM

Figure 2



# 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  
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State of New Mexico  
Energy Minerals and Natural Resources  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-141  
Revised August 8, 2011

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 Apache Corporation	Contact Bruce Baker	
Address 8 Ellison Lane Eunice, NM 88231	Telephone No. (575) 394-2743	
Facility Name WBDU # 26	Facility Type Injection Well	
Surface Owner Millard Deck Estates	Mineral Owner	API No. 30-025-26967

#### LOCATION OF RELEASE

Unit Letter A	Section 8	Township 21S	Range 37E	Feet from the 990'	North/South Line FNL	Feet from the 660'	East/West Line FEL	County Lea
------------------	--------------	-----------------	--------------	-----------------------	-------------------------	-----------------------	-----------------------	---------------

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

#### NATURE OF RELEASE

Type of Release Produced Water	Volume of Release 10 BBLS	Volume Recovered 0 BBLS
Source of Release Injection line	Date and Hour of Occurrence	Date and Hour of Discovery 9-25-13 at 9:00 a.m.
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.*		
Describe Cause of Problem and Remedial Action Taken.* A 90 on the injection line had corroded and produced water was released. The line was shut in and the 90 was replaced.		
Describe Area Affected and Cleanup Action Taken.* The total surface area was 8,161 square feet with 1,657 square feet of pasture affected. The site was mapped and surface samples collected and taken to a commercial laboratory for analysis. The affected area will be scraped and delineated.		
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>	OIL CONSERVATION DIVISION	
Printed Name: Bruce Baker	Approved by Environmental Specialist:	
Title: Environmental Technician	Approval Date:	Expiration Date:
E-mail Address: larry.baker@apachecorp.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 10-14-13	Phone: (432) 631-6982	

\* Attach Additional Sheets If Necessary

# Appendix B

## Initial Sampling Lab

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

October 02, 2013

BRUCE BAKER

APACHE - EUNICE

P. O. BOX 1849

EUNICE, NM 88231

RE: WBDU #26

Enclosed are the results of analyses for samples received by the laboratory on 09/26/13 16:35.

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](http://www.tceq.texas.gov/field/ga/lab_accred_certif.html).

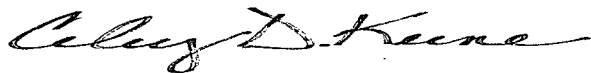
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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:**

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

 Received: 09/26/2013  
 Reported: 10/02/2013  
 Project Name: WBDU #26  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 09/26/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: PT 1 @ SURFACE (H302354-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2840	16.0	10/01/2013	ND	400	100	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/30/2013	ND	217	108	200	5.63	
DRO >C10-C28	11.5	10.0	09/30/2013	ND	211	106	200	5.36	
Surrogate: 1-Chlorooctane									
	92.7 %	65.2-140							
Surrogate: 1-Chlorooctadecane									
	95.7 %	63.6-154							

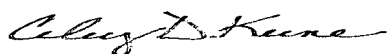
**Sample ID: PT 2 @ SURFACE (H302354-02)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3640	16.0	10/01/2013	ND	400	100	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/30/2013	ND	217	108	200	5.63	
DRO >C10-C28	368	10.0	09/30/2013	ND	211	106	200	5.36	
Surrogate: 1-Chlorooctane	91.1 %	65.2-140							
Surrogate: 1-Chlorooctadecane	106 %	63.6-154							

Cardinal Laboratories

\*=Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 09/26/2013  
Reported: 10/02/2013  
Project Name: WBDU #26  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 09/26/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: PT 3 @ SURFACE (H302354-03)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2880	16.0	10/01/2013	ND	400	100	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/30/2013	ND	217	108	200	5.63	
DRO >C10-C28	234	10.0	09/30/2013	ND	211	106	200	5.36	
Surrogate: 1-Chlorooctane	101 %	65.2-140							
Surrogate: 1-Chlorooctadecane	110 %	63.6-154							

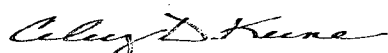
**Sample ID: PT 4 @ SURFACE (H302354-04)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2520	16.0	10/01/2013	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	09/30/2013	ND	217	108	200	5.63	
DRO >C10-C28	44.7	10.0	09/30/2013	ND	211	106	200	5.36	
Surrogate: 1-Chlorooctane		92.2%	65.2-140						
Surrogate: 1-Chlorooctadecane		97.4%	63.6-154						

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

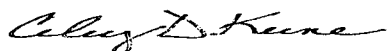
**Analytical Results For:**APACHE - EUNICE  
BRUCE BAKER  
P. O. BOX 1849  
EUNICE NM, 88231  
Fax To: 394-2425Received: 09/26/2013  
Reported: 10/02/2013  
Project Name: WBDU #26  
Project Number: NONE GIVEN  
Project Location: NOT GIVENSampling Date: 09/26/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson**Sample ID: PT 5 @ SURFACE (H302354-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3320	16.0	10/01/2013	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	09/30/2013	ND	217	108	200	5.63		
DRO >C10-C28	<10.0	10.0	09/30/2013	ND	211	106	200	5.36		
Surrogate: 1-Chlorooctane		95.9 %	65.2-140							
Surrogate: 1-Chlorooctadecane		101 %	63.6-154							

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

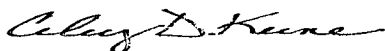
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received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

---

**Cardinal Laboratories**

\* = Accredited Analyte

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---

Celey D. Keene, Lab Director/Quality Manager

## 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

[illegible]

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: <i>Kyle Schnaidt</i>		Date: <i>7-26-13</i> Time: <i>4:35</i>	Received By: <i>Jodi Benson</i>	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #:
Relinquished By:		Date: Time:	Received By:	Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		5.8°C	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No	REMARKS: kschnaidt@rice-ecs.com Knorman@rice-ecs.com Kjones@riceswd.com; jkamplain@rice-ecs.com hconder@rice-ecs.com; Lweinheimer@rice-ecs.com larry.baker@apachecorp.com
			CHECKED BY: (Initials) <i>[Signature]</i>	

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



# Appendix C

## 5 Point Composite Sample Lab

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

October 23, 2013

BRUCE BAKER

APACHE - EUNICE

P. O. BOX 1849

EUNICE, NM 88231

RE: WBDU #26

Enclosed are the results of analyses for samples received by the laboratory on 10/18/13 16:35.

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).

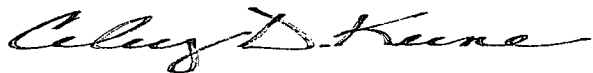
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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

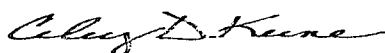
**Analytical Results For:**APACHE - EUNICE  
BRUCE BAKER  
P. O. BOX 1849  
EUNICE NM, 88231  
Fax To: 394-2425Received: 10/18/2013  
Reported: 10/23/2013  
Project Name: WBDU #26  
Project Number: NONE GIVEN  
Project Location: NOT GIVENSampling Date: 10/18/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson**Sample ID: 5 PT. COMP @ 3" (H302535-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	10/21/2013	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	10/22/2013	ND	200	99.9	200	3.36	
DRO >C10-C28	205	10.0	10/22/2013	ND	192	95.9	200	2.97	
Surrogate: 1-Chlorooctane	121 %	65.2-140							
Surrogate: 1-Chlorooctadecane	144 %	63.6-154							

Cardinal Laboratories

\*=Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

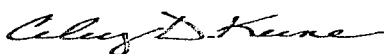
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received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

---

Cardinal Laboratories

\*=Accredited Analyte

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---

Celey D. Keene, Lab Director/Quality Manager



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Relinquished By: <i>Kyle Schnaidt</i>		Date: <i>10-18-13</i>	Received By: <i>Dee Henson</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:		kschnaidt@rice-ecs.com Knorman@rice-ecs.com Kjones@riceswd.com; jkamplain@rice-ecs.com hconder@rice-ecs.com; Lweinheimer@rice-ecs.com larry.baker@epuchet.org.com	
Delivered By: (Circle One)			Sample Condition	CHECKED BY:	
Sampler - UPS - Bus - Other:			Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> <input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No	(Initials) <i>[Signature]</i>	

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

# 54

# Appendix D

## Backfill Lab

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

November 11, 2013

BRUCE BAKER  
APACHE - EUNICE  
P. O. BOX 1849  
EUNICE, NM 88231

RE: WBDU #26

Enclosed are the results of analyses for samples received by the laboratory on 11/07/13 16:40.

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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

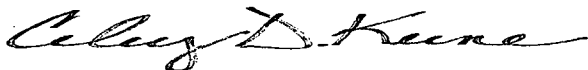
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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  
BRUCE BAKER  
P. O. BOX 1849  
EUNICE NM, 88231  
Fax To: 394-2425

Received: 11/07/2013  
Reported: 11/11/2013  
Project Name: WBDU #26  
Project Number: NONE GIVEN  
Project Location: T21S R37E

Sampling Date: 11/07/2013  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Celey D. Keene

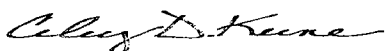
**Sample ID: BACKFILL (H302728-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/08/2013	ND	416	104	400	3.92		

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



**Notes and Definitions**

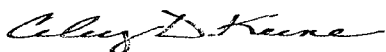
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received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

---

Cardinal Laboratories

\*=Accredited Analyte

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



---

Celey D. Keene, Lab Director/Quality Manager



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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: <i>Amber Groves</i>		Date: <i>11-13</i>	Received By: <i>C. Lytle</i>	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
Time: <i>4:40</i>				Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Relinquished By:		Date:	Received By:	REMARKS:	
Time:				email results	
Delivered By: (Circle One)		Sample Condition	CHECKED BY:	knorman@rice-ecs.com hconder@rice-ecs.com;	
Sampler - UPS - Bus - Other:		Cool Intact	(Initials)	Lweinheimer@rice-ecs.com; kjones@riceswd.com;	
		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<i>gsh</i>	Lpena@riceswd.com; sedwards@rice-ecs.com	
		<i>17C</i>		agroves@rice-ecs.com	

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

#524

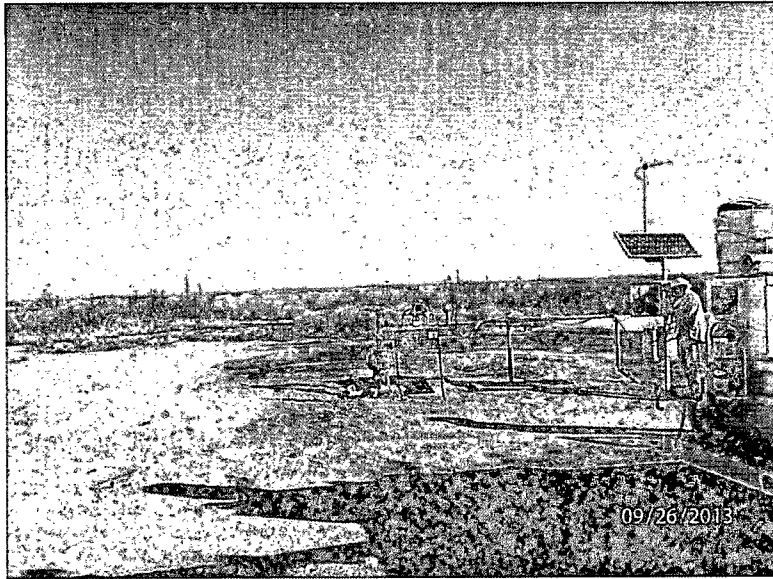
# Appendix E

## Photo Documentation

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

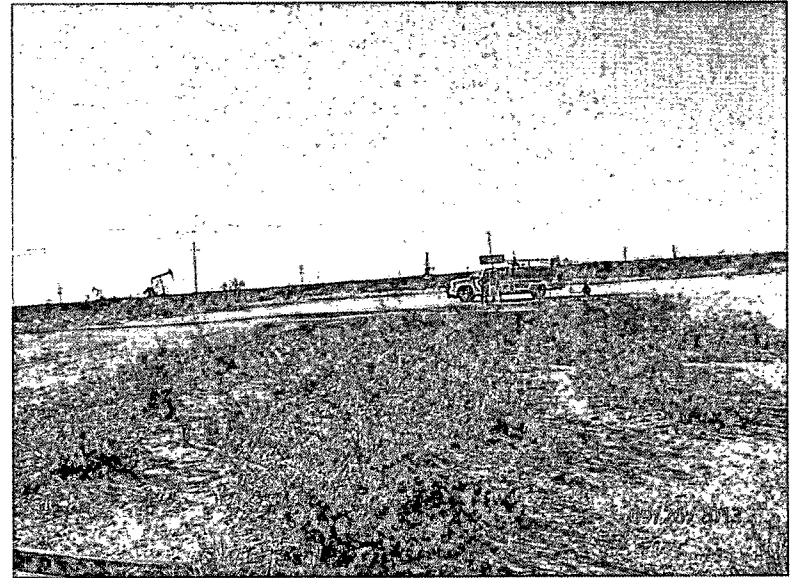
# Apache WBDU #26

Unit Letter A, Section 8, T21S, R37E



Initial site photo, facing north

9/26/13



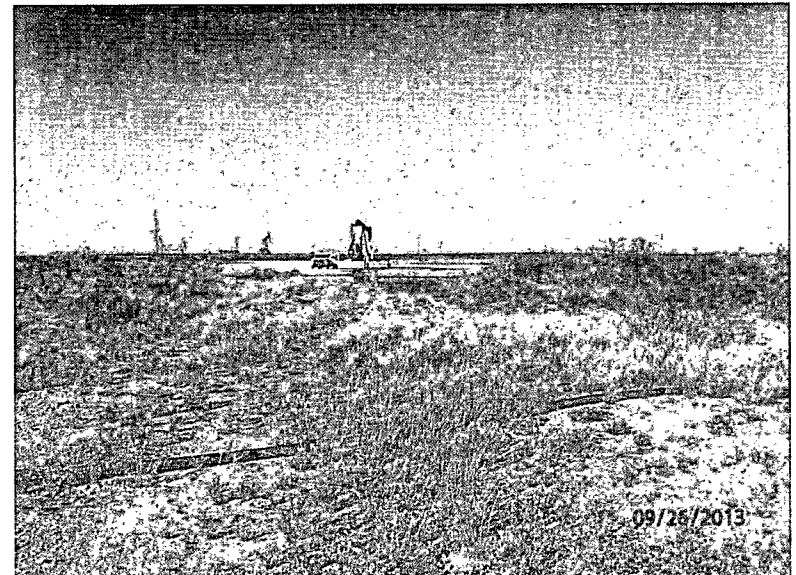
Initial site photo, facing west

9/26/13



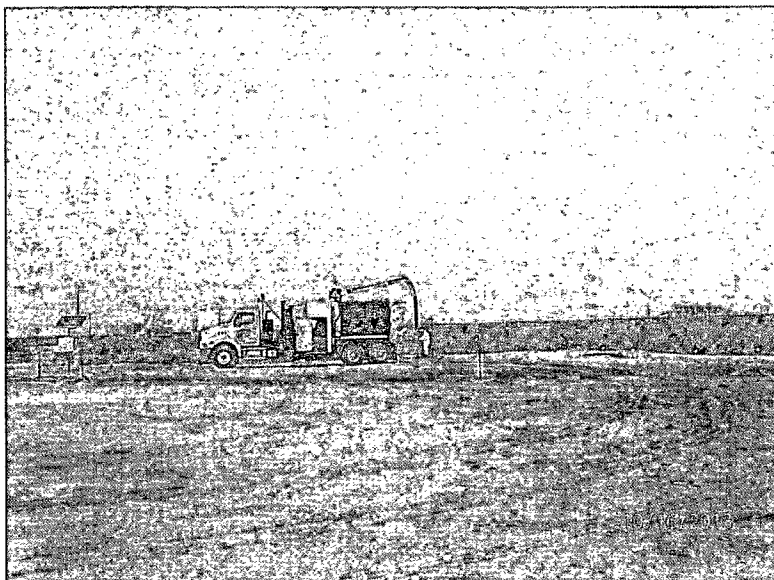
Initial site photo, facing east

9/26/13

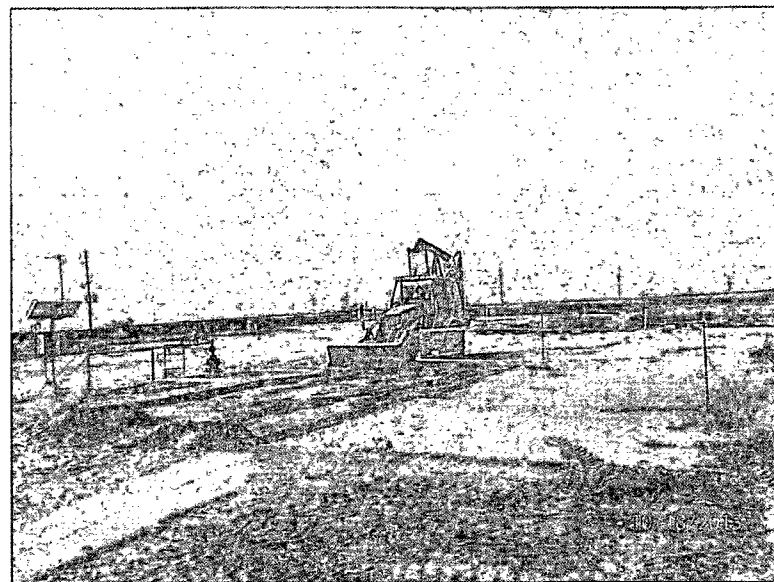


Initial site photo, facing southwest

9/26/13



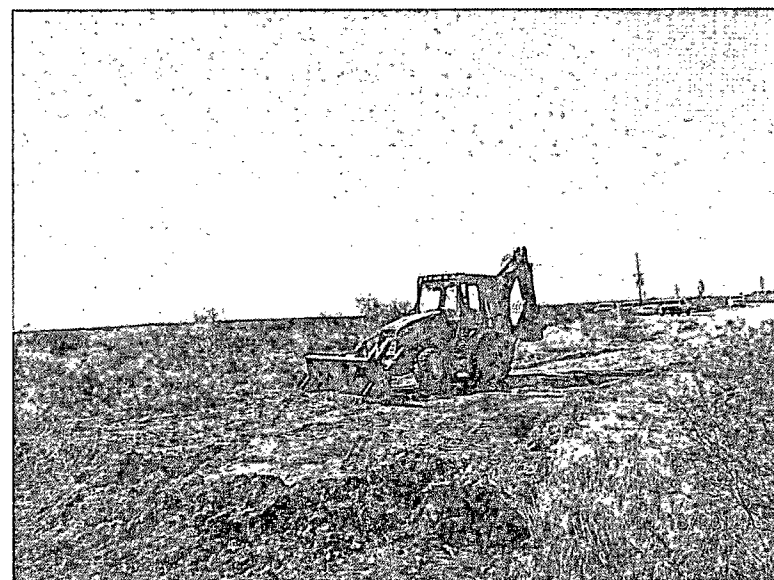
Line spot using hydrovac, facing north 10/16/13



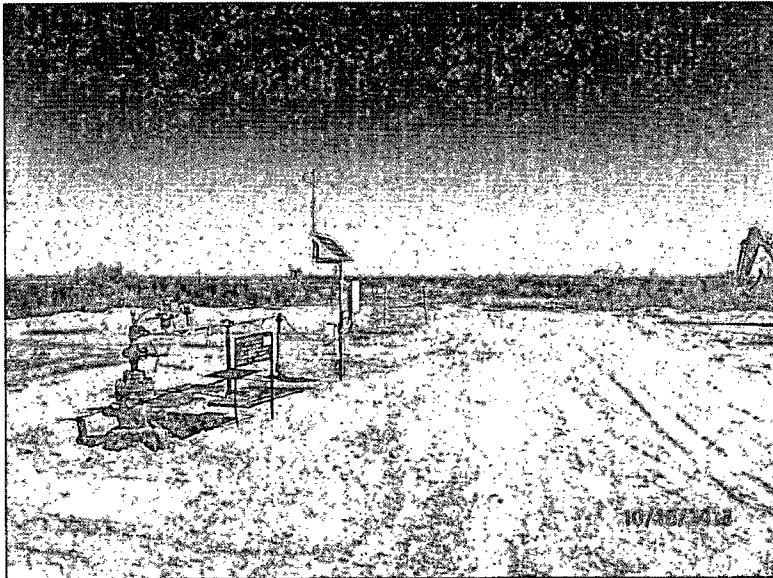
Scraping site, facing northeast 10/18/13



Exporting soil, facing east 10/18/13

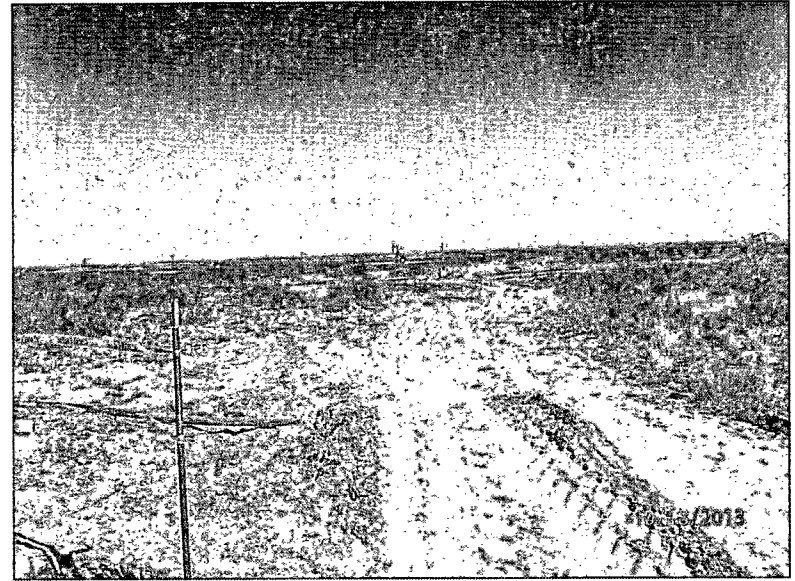


Scraping site, facing southwest 10/18/13



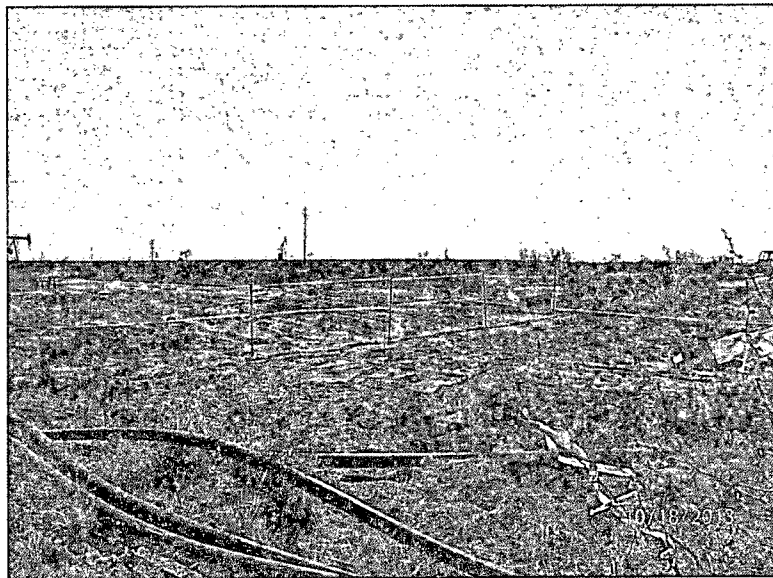
Scrape completed, facing east

10/18/13



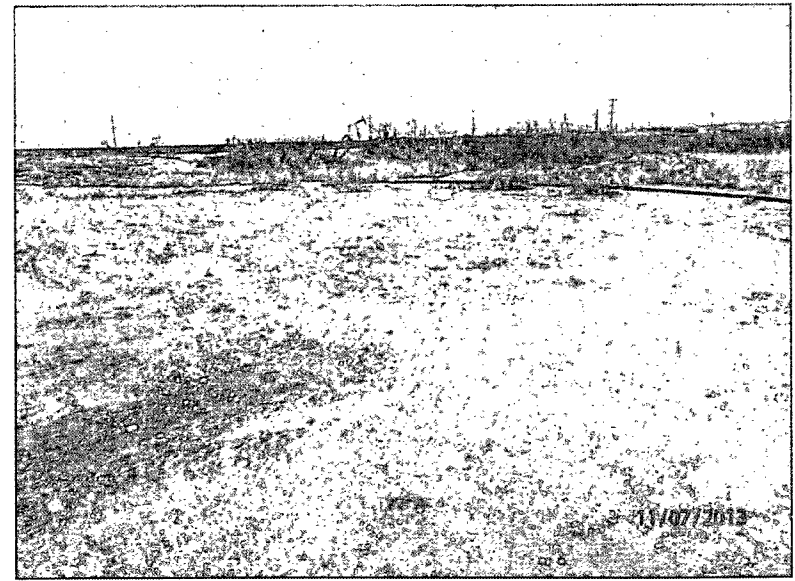
Scrape completed, facing east

10/18/13



Scrape completed, facing southwest

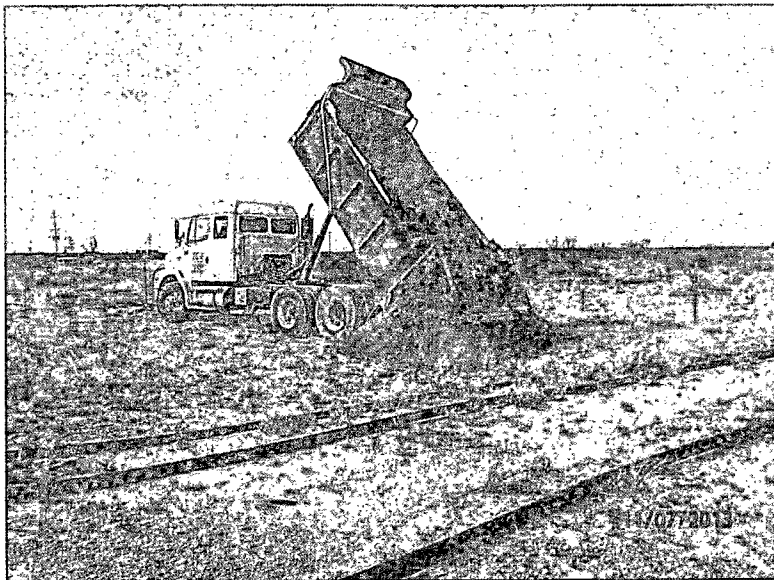
10/18/13



Scrape completed, facing west

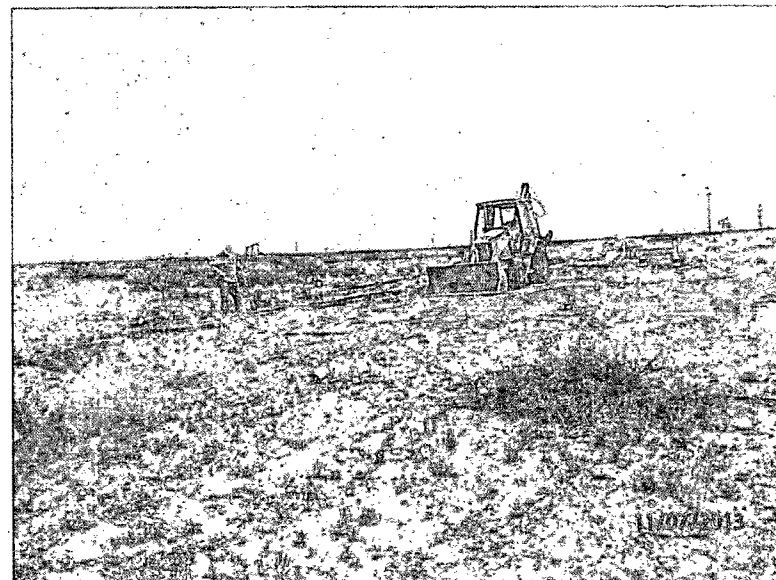
11/7/13





Importing topsoil, facing south

11/7/13



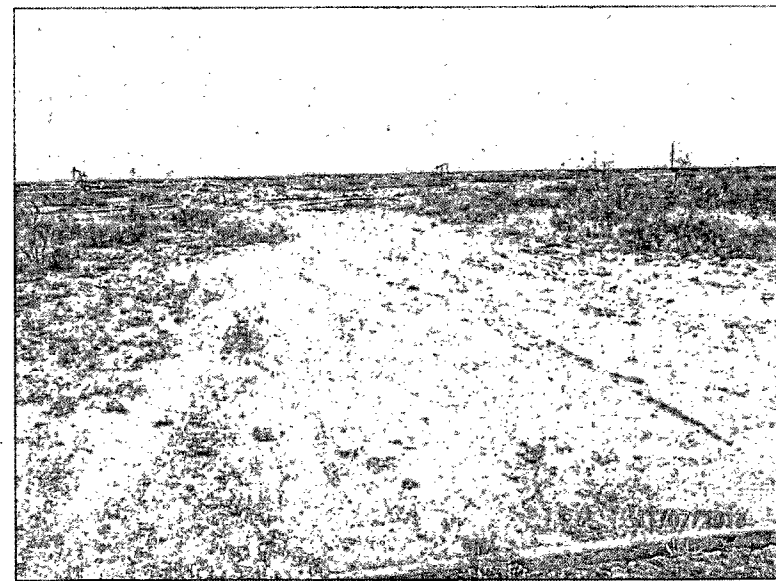
Backfilling site, facing east

11/7/13



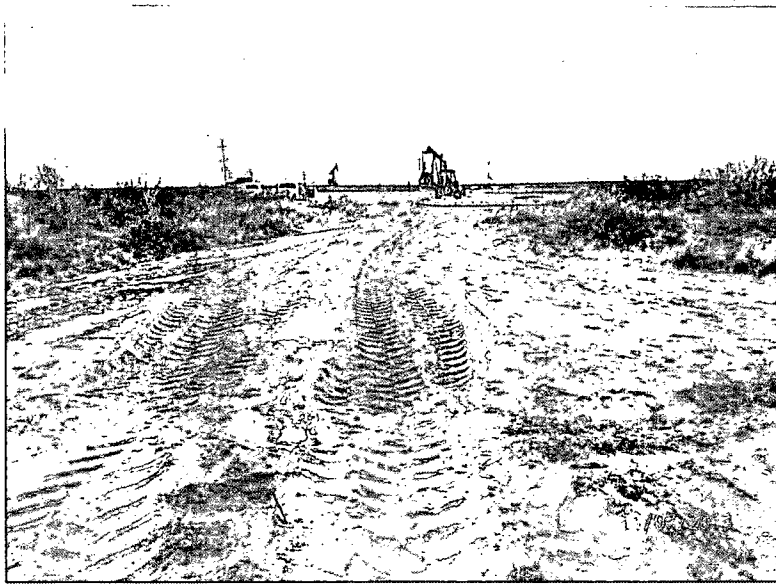
Backfilling site, facing southwest

11/7/13



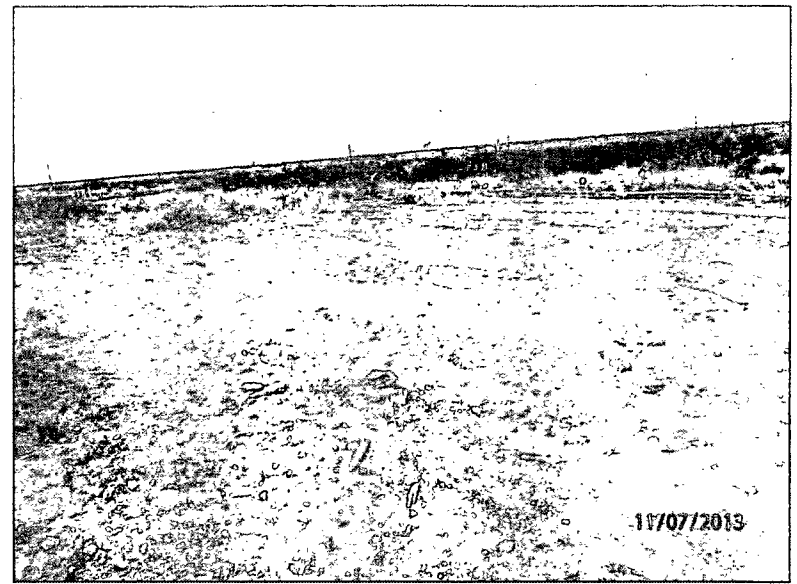
Site backfilled, facing northeast

11/7/13



Site backfilled, facing southwest

11/7/13



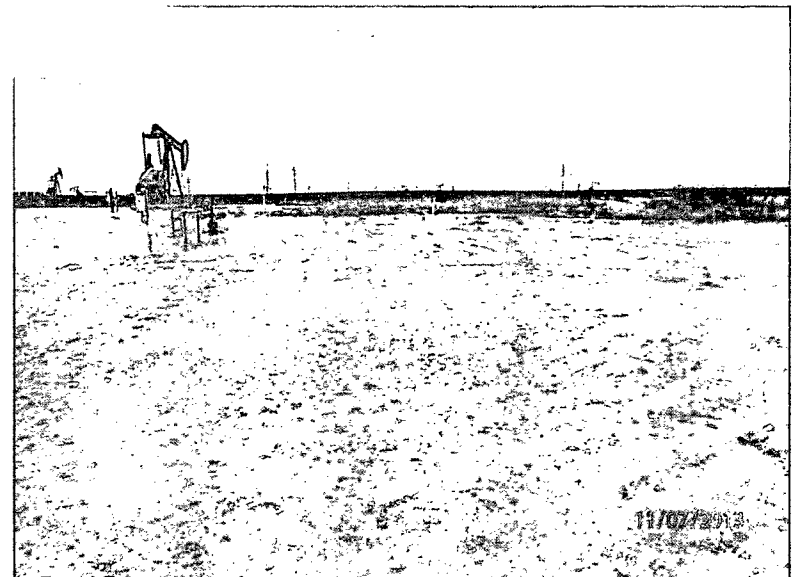
Site backfilled, facing north

11/7/13



Site backfilled, facing east

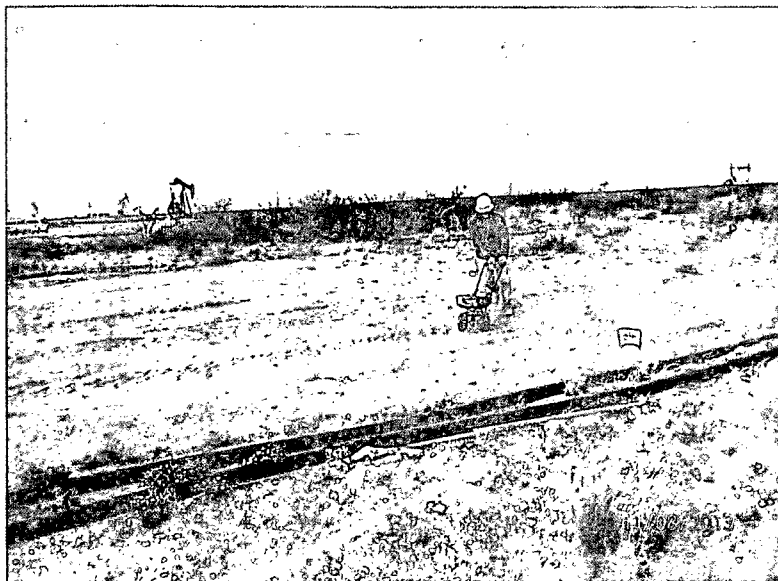
11/7/13



Site backfilled, facing southwest

11/7/13





Seeding site, facing west

11/8/13



Raking in the seed, facing east

11/8/13



Site completed, facing east

11/8/13



Site completed, facing east

11/8/13

# 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 a 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 Apache Corporation

Contact Bruce Baker

Address 8 Ellison Lane, Eunice, NM 88231

Telephone No. (575) 394-2743

Facility Name WBDU #26

Facility Type Injection Well

Surface Owner Millard Deck Estates

Mineral Owner

API No. 30-025-26967

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	8	21S	37E	990	FNL	660	FEL	Lea

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

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release 10 bbls	Volume Recovered 0 bbls
Source of Release Injection line	Date and Hour of Occurrence	Date and Hour of Discovery 9-25-13 at 9:00 am
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" 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.\*

DTW = 65'

Describe Cause of Problem and Remedial Action Taken.\*

A 90 on the injection line had corroded and produced water was released. The line was shut in and the 90 was replaced.

Describe Area Affected and Cleanup Action Taken.\* A total surface area of 8,161 sq ft was affected with 1,657 sq ft of pasture affected. RECS personnel were on site beginning on September 26<sup>th</sup>, 2013, to assess the site. Five points throughout the surface of the release were sampled and field tested for chlorides and organic vapors using a PID meter. The samples were taken to a commercial laboratory for analysis and returned elevated chloride readings, Gasoline Range Organics (GRO) readings of non-detect and Diesel Range Organics (DRO) readings below regulatory standards. The entire release was scraped down 3 inches and a total of 72 yards of soil was taken to a NMOCD approved facility for disposal. A 5 point bottom composite of the scrape was taken to a commercial laboratory for analysis and returned a chloride value of 160 mg/kg, a GRO value of non-detect and a DRO value of 205 mg/kg. A total of 36 yards of caliche and 96 yards of soil was imported to the site to serve as backfill. A sample of the soil was taken to a commercial laboratory for analysis and returned a chloride result of non-detect. The site was backfilled with the imported material and contoured to the surrounding location. The pasture area was then seeded with a blend of native vegetation.

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: <u>Bruce Baker</u>	OIL CONSERVATION DIVISION <u>Jeffrey Lerum</u> Approved by Environmental Specialist Environmental Specialist	
Printed Name: Bruce Baker	Approval Date: <u>12/06/13</u>	Expiration Date: <u>-</u>
Title: Environmental Technician	Conditions of Approval: <u>-</u>	Attached <input type="checkbox"/> <u>IRP-11-13-2986</u>
E-mail Address: <u>larry.baker@apachecorp.com</u>		
Date: <u>12-5-13</u> Phone: (432)631-6982		

Attach Additional Sheets If Necessary