



EXPLORING WHAT'S POSSIBLE

RECEIVED

By OCD; Dr. Oberding at 11:26 am, Mar 13, 2015

APACHE CORPORATION

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

APPROVED

By OCD; Dr. Oberding at 11:26 am, Mar 13, 2015

Apache NEDU #126
(1RP-3329)

Termination Request

API No. 30-025-34415

Release Date: August 28th, 2014

Unit Letter E, Section 2, Township 21S, Range 37E

March 9th, 2015

Dr. Tomáš Oberding, PhD

Environmental Specialist – New Mexico Oil Conservation Division
Energy, Minerals and Natural Resources Department
1625 N. French Dr.
Hobbs, NM 88240

**RE: Termination Request
Apache NEDU 126 (1RP-3329)
UL/E sec. 2 T21S R37E
API No. 30-025-34415**

Dr. Oberding:

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 5.5 miles north of Eunice, New Mexico. The initial C-141 states that the site is located in UL/E. However, the release also extends into UL/L of sec. 2 T21S R37E. USGS monitor wells and soil bores installed by RECS indicate that groundwater will likely be encountered at a depth of approximately 71 +/- feet.

On August 28th, 2014, Apache discovered a release of oil and produced water from the stuffing box of the well. A total of 5 barrels of produced water and 1 barrel of oil was released over 1,849 square feet of lease pad. A vacuum truck was called to the site and recovered 1 barrel of fluid. An initial C-141 was sent to NMOCD on September 16th, 2014, and approved the same day (Appendix A).

RECS personnel were on site beginning on August 28th, 2014, to begin assessing the site. Three points were sampled from the surface of the release (Figure 1). The samples were field tested for chlorides and organics vapors. The three samples were then taken to a commercial laboratory for analyses (Appendix B). Point 1 returned a laboratory chloride reading of 1,490 mg/kg, Point 2 returned a laboratory chloride reading of 880 mg/kg and Point 3 returned a laboratory chloride reading of 480 mg/kg. For all three points, Gasoline Range Organics (GRO) readings, Diesel Range Organics (DRO) readings and BTEX readings returned values of non-detect, except for the DRO values for Point 1 and Point 2, which returned values of 616 mg/kg and 12 mg/kg, respectively.

The release area was scraped down 6 inches, and the contaminated soil was taken to a NMOCD approved facility for disposal (Figure 2). Once the scrape was completed, three points from bottom of the scrape were taken and field tested for chlorides and organic vapors. The samples

were then sent to a commercial laboratory for analyses. All three bottom samples returned chloride readings below regulatory standards with GRO and DRO readings of non-detect.

On September 16th, 2014, a request to backfill the site was sent to NMOCD, and NMOCD approved the request the same day.

Photo documentation of the field activities can be found in Appendix C.

Given that Apache has removed the contaminated soil and received permission to backfill the site from NMOCD, Apache respectfully requests 'remediation termination' and site closure. A final C-141 can be found in Appendix D.

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 dark ink, appearing to read 'L. Weinheimer', with a stylized flourish at the end.

Lara Weinheimer
Project Scientist
RECS
(575) 441-0431

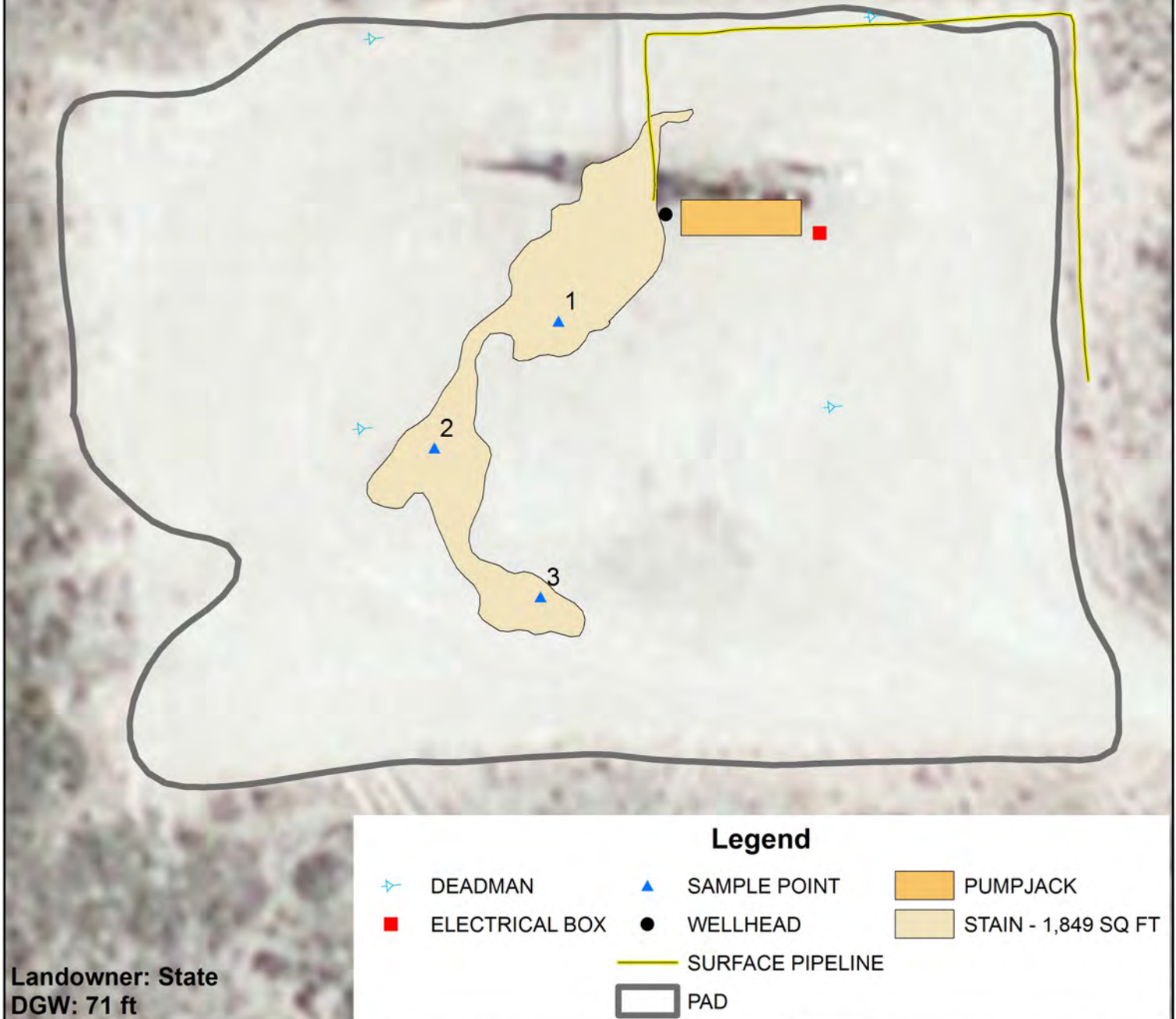
Attachments:

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

Figures

Initial Sampling Data

	CI-	PID	GRO	DRO	B	T	E	X	BTEX
1	1490	184	<50	616	<0.05	<0.05	<0.05	<0.15	<0.3
2	880	122	<10	12	<0.05	<0.05	<0.05	<0.15	<0.3
3	480	204	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3



APACHE NEDU 126

UL E & L SECTION 2
T-21-S R-37-E
LEA COUNTY, NM

Figure 1



0 25 50
Feet

GPS date: 8/28/14 KH
Drawing date: 9/12/14
Drafted by: T. Grieco, L. Weinheimer

Excavation Data

6 IN SCRAPE BOTTOM SAMPLE

SAMPLE	CI-	PID	GRO	DRO
1	128	10.6	<10	<10
2	176	1.7	<10	<10
3	48	0.7	<10	<10

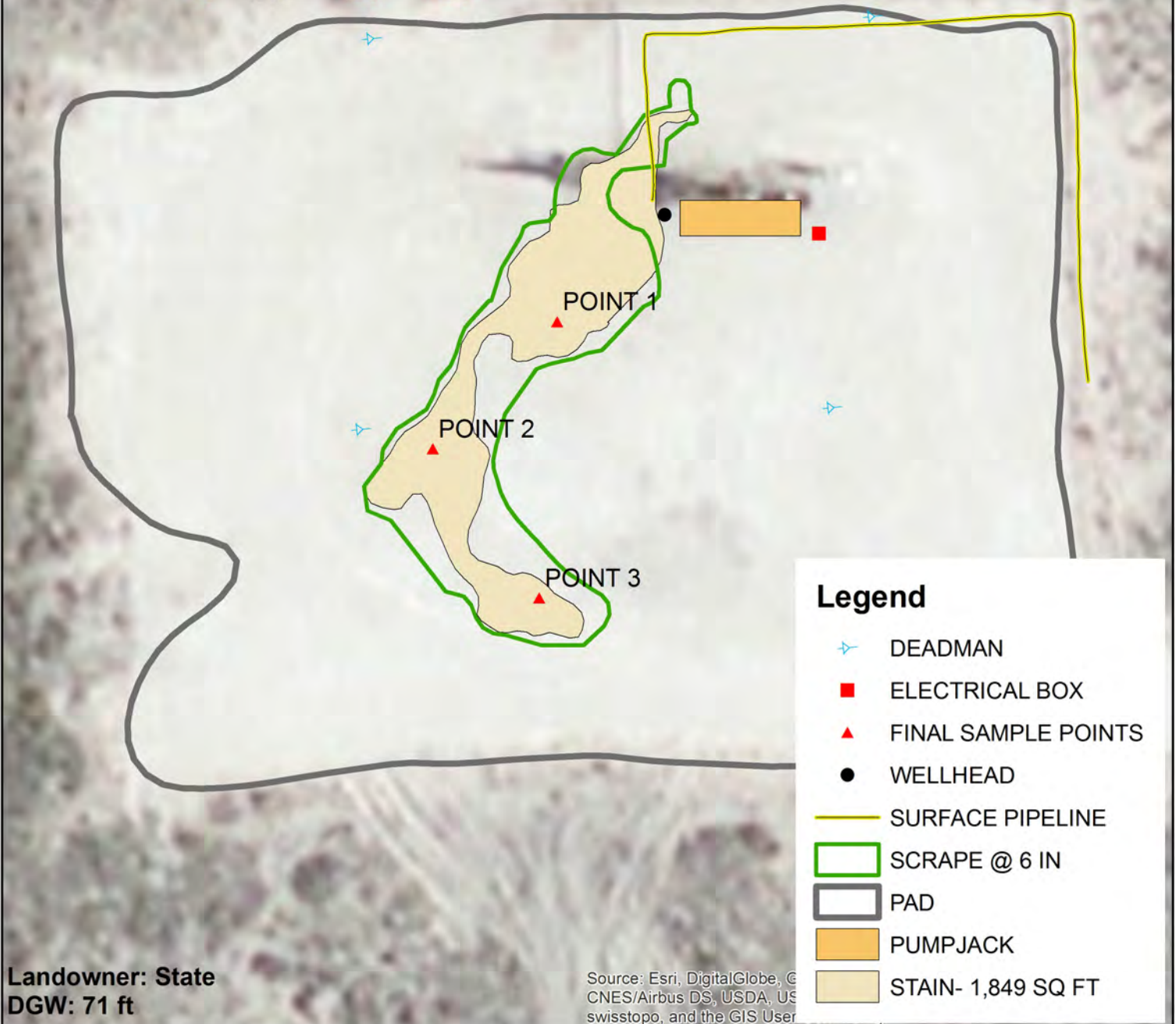
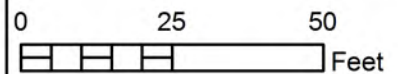


Figure 2



GPS date: 8/28/14 KH
Drawing date: 9/10/14
Drafted by: L. Weinheimer

Appendix A

Initial C-141

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 **HOBBS OCD**
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.
SEP 16 2014

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	Apache Corporation	Contact	Bruce Baker
Address	2350 W Marland Blvd Hobbs NM 88240	Telephone No.	432-631-6982
Facility Name	NEDU 126	Facility Type	Oil Well
Surface Owner	State	Mineral Owner	
		API No.	30-025-34415

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
E	2	21S	37E	2500'	FNL	130'	FWL	Lea

Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release	Oil and produced water	Volume of Release	5 barrels of water and 1 barrel of oil	Volume Recovered	1 barrel of total fluid
Source of Release	Stuffing box	Date and Hour of Occurrence	8/28/2014	Date and Hour of Discovery	8/28/2014
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 release occurred at the stuffing box. The well was shut in.					
Describe Area Affected and Cleanup Action Taken.* The release impacted an area of 1849 square feet all on the caliche pad. A vacuum truck was dispatched to pick-up standing fluid. The impacted area was mapped and surface samples collected. The release area was scraped down to 6 inches and final samples were collected and sent to a commercial laboratory for analysis.					
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 Environmental Specialist:	
Printed Name: Bruce Baker		
Title: Environmental Technician	Approval Date: 9-16-14	Expiration Date: 11-16-14
E-mail Address: larry.baker@apachecorp.com	Conditions of Approval: <i>Site Specific request</i> <i>Delivered remediate area larger</i> <i>NMOCD guards Submit final</i> <i>C-141 by 11-16-14</i>	Attached <input type="checkbox"/> <i>IRP-3329</i> <i>0911 873</i> <i>17014 26026254</i> <i>P7014 26026421</i>
Date: 9/16/2014 Phone: 432-631-6982		

* Attach Additional Sheets If Necessary

SEP 19 2014

Appendix B

Laboratory Analyses

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



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

September 11, 2014

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: NEDU #126

Enclosed are the results of analyses for samples received by the laboratory on 09/04/14 15:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

APACHE CORP - HOBBS
BRUCE BAKER
2350 W. MARLAND BLVD.
HOBBS NM, 88240
Fax To: (575) 393-2432

Received: 09/04/2014
Reported: 09/11/2014
Project Name: NEDU #126
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/28/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: PT. 1 @ SURFACE (H402752-01)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/10/2014	ND	2.04	102	2.00	3.90	
Toluene*	<0.050	0.050	09/10/2014	ND	1.83	91.4	2.00	3.90	
Ethylbenzene*	<0.050	0.050	09/10/2014	ND	1.70	84.8	2.00	3.77	
Total Xylenes*	<0.150	0.150	09/10/2014	ND	5.15	85.8	6.00	3.51	
Total BTX	<0.300	0.300	09/10/2014	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1490	16.0	09/10/2014	ND	416	104	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	<50.0	50.0	09/05/2014	ND	190	94.9	200	2.39	
DRO >C10-C28	616	50.0	09/05/2014	ND	192	95.9	200	5.98	

Surrogate: 1-Chlorooctane 106 % 65.2-140

Surrogate: 1-Chlorooctadecane 121 % 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 CORP - HOBBS
BRUCE BAKER
2350 W. MARLAND BLVD.
HOBBS NM, 88240
Fax To: (575) 393-2432

Received: 09/04/2014
Reported: 09/11/2014
Project Name: NEDU #126
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/28/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: PT. 2 @ SURFACE (H402752-02)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/10/2014	ND	2.04	102	2.00	3.90	
Toluene*	<0.050	0.050	09/10/2014	ND	1.83	91.4	2.00	3.90	
Ethylbenzene*	<0.050	0.050	09/10/2014	ND	1.70	84.8	2.00	3.77	
Total Xylenes*	<0.150	0.150	09/10/2014	ND	5.15	85.8	6.00	3.51	
Total BTX	<0.300	0.300	09/10/2014	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	880	16.0	09/10/2014	ND	416	104	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	09/05/2014	ND	190	94.9	200	2.39	
DRO >C10-C28	12.0	10.0	09/05/2014	ND	192	95.9	200	5.98	

Surrogate: 1-Chlorooctane 98.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 107 % 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 CORP - HOBBS
BRUCE BAKER
2350 W. MARLAND BLVD.
HOBBS NM, 88240
Fax To: (575) 393-2432

Received: 09/04/2014
Reported: 09/11/2014
Project Name: NEDU #126
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/28/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: PT. 3 @ SURFACE (H402752-03)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/10/2014	ND	2.04	102	2.00	3.90	
Toluene*	<0.050	0.050	09/10/2014	ND	1.83	91.4	2.00	3.90	
Ethylbenzene*	<0.050	0.050	09/10/2014	ND	1.70	84.8	2.00	3.77	
Total Xylenes*	<0.150	0.150	09/10/2014	ND	5.15	85.8	6.00	3.51	
Total BTX	<0.300	0.300	09/10/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	09/10/2014	ND	416	104	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	09/06/2014	ND	190	94.9	200	2.39	
DRO >C10-C28	<10.0	10.0	09/06/2014	ND	192	95.9	200	5.98	

Surrogate: 1-Chlorooctane 106 % 65.2-140

Surrogate: 1-Chlorooctadecane 113 % 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

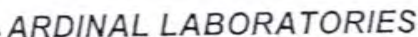
Cardinal Laboratories

*=Accredited Analyte

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

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

#54



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

September 09, 2014

LAURA FLORES

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: NEDU #126

Enclosed are the results of analyses for samples received by the laboratory on 09/03/14 16:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received:	09/03/2014	Sampling Date:	09/03/2014
Reported:	09/09/2014	Sampling Type:	Soil
Project Name:	NEDU #126	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: PT. 1 @ 6" BOTTOM (H402729-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	09/09/2014	ND	416	104	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	09/04/2014	ND	205	103	200	2.65	
DRO >C10-C28	<10.0	10.0	09/04/2014	ND	203	102	200	4.16	
Surrogate: 1-Chlorooctane	95.7 %	65.2-140							
Surrogate: 1-Chlorooctadecane	104 %	63.6-154							

Sample ID: PT. 2 @ 6" BOTTOM (H402729-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	09/09/2014	ND	416	104	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	09/04/2014	ND	205	103	200	2.65	
DRO >C10-C28	<10.0	10.0	09/04/2014	ND	203	102	200	4.16	
Surrogate: 1-Chlorooctane	90.4 %	65.2-140							
Surrogate: 1-Chlorooctadecane	98.7 %	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:

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

Received:	09/03/2014	Sampling Date:	09/03/2014
Reported:	09/09/2014	Sampling Type:	Soil
Project Name:	NEDU #126	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: PT. 3 @ 6" BOTTOM (H402729-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/09/2014	ND	416	104	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	09/04/2014	ND	205	103	200	2.65	
DRO >C10-C28	<10.0	10.0	09/04/2014	ND	203	102	200	4.16	
Surrogate: 1-Chlorooctane	92.8 %	65.2-140							
Surrogate: 1-Chlorooctadecane	99.4 %	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

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



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: RECS				BILL TO				ANALYSIS REQUEST																
Project Manager: Laura Flores				P.O. #:				<div>Chlorides</div> <div>TPH 8015 M</div> <div>BTEX</div> <div>Texas TPH</div> <div>Complete Cations/Anions</div> <div>TDS</div>																
Address:				Company:																				
City: Hobbs State: NM Zip: 88240				Attn:																				
Phone #: Fax #:				Address:																				
Project #: Project Owner:				City:																				
Project Name: Apache				State: Zip:																				
Project Location: NEDU # 126				Phone #:																				
Sampler Name: Joshua Delcom				Fax #:																				
FOR LAB USE ONLY						MATRIX		PRESERV.		SAMPLING														
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME										
4402729																								
1	Pt. 1 at 6" Bottom	G	1			✓				✓			8-14	3:30	✓	✓								
2	Pt. 2 at 6" Bottom	G	1			✓				✓			3:35	3:35	✓	✓								
3	Pt. 3 at 6" Bottom	G	1			✓				✓			3:40	3:40	✓	✓								

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:	Date: 8-14	Received By:	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
Time: 4:55			Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS: larry-baker@apache.corp.org	
Time:			email: hconder@riceswd.com; lflores@rice-ecs.com;	
Delivered By: (Circle One)			lweinheimer@rice-ecs.com; knorman@rice-ecs.com;	
Sampler - UPS - Bus - Other:			jkamplain@rice-ecs.com; sedwards@rice-ecs.com;	
			cursanic@rice-ecs.com	
			Environmental Tech: Jbalcom@	
			@rice-ecs.com	

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

#54

Appendix C

Photo Documentation

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

Apache NEDU 126

Unit Letter E, Section 2, T21S, R37E



Initial release area, facing south

8/28/14



Initial release area, facing north

8/28/14



Scraping release 6 inches, facing northwest

9/3/14



Scraping release 6 inches, facing north

9/4/14



Exporting soil, facing northeast

9/4/14



Final scrape, facing north

1/20/15



Final scrape, facing northeast

1/20/15



Final scrape, facing west

1/20/15

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
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 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	2350 W Marland Blvd, Hobbs NM 88240	Telephone No.	432-631-6982
Facility Name	NEDU 126	Facility Type	Oil Well

Surface Owner	State	Mineral Owner	API No. 30-025-34415
---------------	-------	---------------	----------------------

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
E	2	21S	37E	2500'	FNL	130'	FWL	Lea

Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release	Oil and Produced water	Volume of Release	5 barrels of water and 1 barrel of oil	Volume Recovered	1 barrel of total fluid
Source of Release	Stuffing box	Date and Hour of Occurrence	8/28/2014	Date and Hour of Discovery	8/28/2014
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 release occurred at the stuffing box. The well was shut it. A vacuum truck was dispatched to the site to pick up the standing fluid.

Describe Area Affected and Cleanup Action Taken.*

A total of 1,849 square feet of leas pad was affected by the release. RECS personnel were on site beginning on August 28th, 2014, to begin assessing the site. Three points were sampled from the surface of the release and taken to a commercial laboratory for analysis. Point 1 returned a laboratory chloride reading of 1,490 mg/kg, Point 2 returned a laboratory chloride reading of 880 mg/kg and Point 3 returned a laboratory chloride reading of 480 mg/kg. For all three points, GRO readings, DRO readings and BTEX readings returned values of non-detect, except for the DRO values for Point 1 and Point 2, which returned values of 616 mg/kg and 12 mg/kg, respectively. The release area was scraped down 6 inches, and the contaminated soil was taken to a NMOCD approved facility for disposal. Once the scrape was completed, three points from bottom of the scrape were taken and sent to a commercial laboratory for analyses. All three bottom samples returned chloride readings below regulatory standards with GRO and DRO readings of non-detect. On September 16th, 2014, a request to backfill the site was sent to NMOCD, and NMOCD approved the request the same day.

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: 3/9/15	Phone: 432-631-6982		

* Attach Additional Sheets If Necessary