

## **APACHE CORPORATION**

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

## WBDU #75 (1RP-3388)

# **Termination Request**

API No. 30-025-06615

Release Date: October 16<sup>th</sup>, 2014

Unit Letter L, Section 16, Township 21S, Range 37E



**January 16<sup>th</sup>, 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 WBDU #75 (1RP-3388) UL/L sec. 16 T21S R37E API No. 30-025-06615

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 2.8 miles north of Eunice, New Mexico at UL/L sec. 16 T21S R37E. NM OSE, USGS, and RECS monitor well records indicate that groundwater will likely be encountered at a depth of approximately 75 +/- feet.

On October 16<sup>th</sup>, 2014, a fiberglass injection line ruptured while installing a flange, releasing 125 barrels of produced water in 1,712 square feet of ditch line. The upstream valve was closed, and a vacuum truck was dispatched to the site. The vacuum truck recovered 120 barrels of produced water. NMOCD was notified of the release on October 17<sup>th</sup>, 2014, and an initial C-141 was sent to NMOCD for their approval. NMOCD approved the initial C-141 on October 20<sup>th</sup>, 2014 (Appendix A).

RECS personnel were on site beginning on October 16<sup>th</sup>, 2014, to assess the release. The site was photographed and GPS mapped. A track-hoe was utilized to remove the wet soil in the easily accessible areas, and a shovel crew was utilized to remove the wet soil from beneath the pipelines. All excavated soil was taken to a NMOCD approved facility for disposal.

Once the wet soil was removed, RECS personnel sampled the walls and bottom of the site for chlorides and organic vapors (Figure 1). The samples were then taken to a commercial laboratory for analysis (Appendix B). All wall and bottom samples returned laboratory chloride readings below 250 mg/kg with Gasoline Range Organics (GRO) and Diesel Range Organics (DRO) readings of non-detect. Based on these laboratory readings, Apache backfilled the site with clean, imported soil.

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

Given that Apache removed the contaminated soil and replaced it with clean, imported soil, 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,

JC.W.

Lara Weinheimer Project Scientist RECS (575) 441-0431

Attachments:

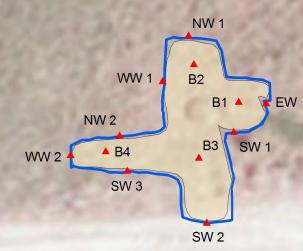
Figure 1 – Excavation Map Appendix A – Initial C-141 Appendix B – Laboratory Analyses Appendix C – Photo Documentation Appendix D – Final C-141

# Figures

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

### **Excavation Map**

WALL SAMPLES	Cl-	PID	GRO	DRO
North Wall 1	<16.0	3.8	<10.0	<10.0
South Wall 1	<16.0	5.7	<10.0	<10.0
East Wall	32	5.6	<10.0	<10.0
South Wall 2	<16.0	22.7	<10.0	<10.0
West Wall 1	<16.0	12.5	<10.0	<10.0
North Wall 2	48	1	<10.0	<10.0
South Wall 3	96	4.4	<10.0	<10.0
West Wall 2	<16.0	2.4	<10.0	<10.0
BOTTOM SAMPLES	CI-	PID	GRO	DRO
Bottom 1	80	1.1	<10.0	<10.0
Bottom 2	48	7.4	<10.0	<10.0
Bottom 3	32	2.5	<10.0	<10.0
Bottom 4	64	2.5	<10.0	<10.0



Landowner: State DGW: 75 FT



Source: Esri, DigitalGlobe, Geo CNES/Airbus DS, USDA, USG swisstopo, and the GIS User Co



UL L SECTION 16 T-21-S R-37-E LEA COUNTY, NM 

 0
 30
 60

 0
 30
 60

 GPS date: 10/20/14 KH
 W - E

Legend

**FINAL SAMPLE POINTS** 

GPS date: 10/20/14 KH Drawing date: 12/18/14 Drafted by: L. Weinheimer

## Appendix A Initial C-141

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

Data Lineary 1998       State of New Mexico       Form C-141         Diff Sill res, states, NM 8230       State of New Mexico       State of New Mexico         Diff Sill res, states, NM 8230       State of New Mexico       State of New Mexico         Diff Sill res, states, NM 8230       State of New Mexico       State of New Mexico         Diff Sill res, states, NM 8230       State of New Mexico       State of New Mexico         Diff Sill res, states, NM 8230       State of New Mexico       State of New Mexico         Diff Sill res, states, NM 8230       State of New Mexico       State of New Mexico         Diff Sill resk       State of New Mexico       State of New Mexico         Diff Sill resk       State of New Mexico       State of New Mexico         Diff Sill resk       State of New Mexico       State of New Mexico         Diff Sill resk       State of New Mexico       State of New Mexico         Diff Sill resk       State of New Mexico       State of New Sill resk       State of New Sill resk         State of New Mexico       Conservet Sill resk       Institu Report       Final Report         State of New Mexico       Teperity Type Of Weil       Apr No. 30.425.041.692       Final Report         State of New Mexico       Teperity New Mexico       Form New Sill resk       Conset teperity New Lesk					HOBBS	OCD
Release Notification and Corrective Action         OPERATOR       Initial Report       Final Report         Address 2350 W Machand BWJ Hobbs, MM 88240       Telephone No. 432 (31-6982       Facility Name WBDU # 75         Sturface Owner State       Mitural Owner       API No. 30-025-06615         Unit Letter       Socian       Township       Range       Feel from the feet feet from the feet from the feet feet from the feet feet from the feet feet feet feet feet from the feet feet feet feet feet feet feet	1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 811 S. First St., Artesia, NM 88210 <u>District III</u> 1000 Rio Brazos Road, Aztec, NM 87410 District IV	Energy Minerals Oil Conse 1220 Sout	s and Natural F ervation Divis h St. Francis	tesources ion <sup>S</sup> Dr.	Submit I Conv	2014 Revised August 8, 2011
OPERATOR       ☑ Initial Report       ☐ Final Report         Name of Company Apache Corporation       Contact Frace Baker         Address 2330 W Marland BHV Hobbs, NM 88240       Telephone No. 326 23-16-092         Facility Name WBDU #75       Facility Type: Oil Well         Surface Owner: State       Immend Owner         16       Township       Range         976       Pecific ON OF RELEASE         Unit Lette       Section       Township         16       215       Page         776       Prove The Page       County         16       215       Page         16       Type of Release Produced Water       North/South Line         Source of Release Injection line       Date and Hour of Occurrence       Date and Hour of Discovery         Was Immediate Notice Given?       Yes       No       Not Required       If YES, To Non?         By Whon?       Proce Baker       Date and Hour of Occurrence       Date and Hour 107/2014 at 11:37 a.m.         Was Immediate Notice Given?       Yes S No       No       Not Required         If Watercourse was Impacted, Describe Fully.*       Describe Cause of Problem and Remedial Action Taken.*       Date and Hour 107/2014 at 11:37 a.m.         Describe Area Affected and Camp Action Taken.*       Date and Hour 107/2014 at 11:3	Rele				on	y na
Name of Company Appuche Corporation       Contract Brace Baker         Address 2350 W Machand Rivit Hobbs, NM 88240       Telephone No. 432.631.6982         Facility Name       WB1         Surface Owner State       Mineral Owner         Loc ACTION OF RELEASE       API No. 30-025-06615         Unit Letter       Section       Township       Range         16       215       37E       Feet from the 1980'       North/South Line       Feet from the Feet from the Park West Line       County         Latitude       Loc ACTION OF RELEASE       Volume Recovered       120 Barrels of produced water       Date and Four of Occurrence       Telephone No.432       Telephone No.432         Was Inneedide Notice Given?       ⊠ Yes       No       Net Required       Telephone       Telephone       Telephone       Telephone       Date and Four 0707/2014 at 11:37 a.m.         Was a Watercourse Rescied?       ☐ Yes ☺ No       If YES, Volume Impacting the Matercourse.       The valve outpact watercourse.       Telephone No.432 at 10.432 at 10.4						1 Report 🔲 Final Report
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LOCATION OF RELEASE         Unit Letter       Section       Township       Range       Feet from the 1980'       North/South Line       Feet from the 660'       EsstWest Line       County         L       L       16       21S       37E       Feet from the 1980'       North/South Line       Feet from the 660'       EsstWest Line       County         Lat(tude       Longitude       NortURE OF RELEASE       Volume Recovered 120 Barrels of ofpednecd water       Produced water         Source of Release injection line       Date and Hour of Occurrence       Date and Hour of Disovery       If VES, To Wion?         Was Immediate Notice Given?       Ø       Not Required       Date and Hour of Disovery       Date and Hour of Disovery         By Whow?       Brance Baker       Date and Hour of Disovery       Date and Hour of Disovery       Date and Hour of Disovery         Was a Watercourse Reached?       Ves 🖄 No       If YES, Yolume Impacting the Watercourse.       If YES, Yolume Impacting the Watercourse.       If YES, Yolume Impacting the Watercourse.         Describe Cause of Problem and Remedial Action Taken.*       The ontire release was contained inside the ditch line. After the standing fluid was picked up a track-hoe was utilized to start removing contaninated soil inside ditch line. A hand shoveling rerew was utilized to remove contanination near and under the pipelines. The release arene was mapiped and samples collected and samples collec	Facility Name WBDU # 75		Facility Type	Oil Well		·
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Printed Name: Bruce Baker       Approved by Environmental Specialist:         Title: Environmental Technician       Approval Date: 10-20-14       Expiration Date: 12-204/9         E-mail Address: larry.baker@apachecorp.com       Conditions of Approval: \$ic Supla       Attached []         Date: 10/20/2014       Phone: (432) 631-6982       Augure on multical Structure on multic				OIL CONSE	WATION-	ÐIVISION
Printed Name: Bruce Baker       Approval Date: 10-20-14       Expiration Date: 12-20-19         Title: Environmental Technician       Approval Date: 10-20-14       Expiration Date: 12-20-19         E-mail Address: larry.baker@apachecorp.com       Conditions of Approval: Sile Suple       Attached []         Date: 10/20/2014       Phone: (432) 631-6982       August Address Arablet and IRP-3388	Signature: Bruce Baher			77		
Title: Environmental Technician       Approval Date: 10-20-14       Expiration Date: 12-20214         E-mail Address: larry.baker@apachecorp.com       Conditions of Approval: \$ic Supla       Attached         Date: 10/20/2014       Phone: (432) 631-6982       August. Belinite & rubbit on 1RP-3388	Printed Name: Bruce Baker		Approved by En	vironmental Specia	list:	
E-mail Address: larry.baker@apachecorp.com Date: 10/20/2014 Phone: (432) 631-6982 Conditions of Approval: Site Suple Attached IRP-3388 Ormed 823			Approval Date:	10-20-14	Expiration I	Date: 12-20-14
Date: 10/20/2014 Phone: (432) 631-6982 and a provide & march grade. 1RP-3388	E-mail Address: larry.baker@apachccorp.com		Conditions of Ap	proval: site s	nola	Attached
	Date: 10/20/2014 Phone	: (432) 631-6982	are a pr	NMOCA g		1RP-3388 Ogna 823

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### Appendix B Laboratory Analyses

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



October 20, 2014

BRUCE BAKER APACHE CORP - HOBBS 2350 W. MARLAND BLVD. HOBBS, NM 88240

RE: WBDU #75

Enclosed are the results of analyses for samples received by the laboratory on 10/17/14 15:50.

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 <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated 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. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	10/17/2014	Sampling Date:	10/17/2014
Reported:	10/20/2014	Sampling Type:	Soil
Project Name:	WBDU #75	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

#### Sample ID: BOTTOM 1 (H403210-01)

Chloride, SM4500Cl-B	mg/kg		Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	10/20/2014	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	10/20/2014	ND	177	88.3	200	1.44	
DRO >C10-C28	<10.0	10.0	10/20/2014	ND	199	99.7	200	2.58	
Surrogate: 1-Chlorooctane	80.5	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	82.7	% 52.1-17	6						

#### Sample ID: BOTTOM 2 (H403210-02)

Chloride, SM4500Cl-B	mg/kg		Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/20/2014	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	10/20/2014	ND	177	88.3	200	1.44	
DRO >C10-C28	<10.0	10.0	10/20/2014	ND	199	99.7	200	2.58	
Surrogate: 1-Chlorooctane	79.1	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	83.4	% 52.1-17	6						

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	10/17/2014	Sampling Date:	10/17/2014
Reported:	10/20/2014	Sampling Type:	Soil
Project Name:	WBDU #75	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

#### Sample ID: BOTTOM 3 (H403210-03)

Chloride, SM4500Cl-B	mg/kg		Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/20/2014	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	10/20/2014	ND	177	88.3	200	1.44	
DRO >C10-C28	<10.0	10.0	10/20/2014	ND	199	99.7	200	2.58	
Surrogate: 1-Chlorooctane	85.2	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	91.4	% 52.1-17	6						

#### Sample ID: NORTH WALL 1 (H403210-04)

Chloride, SM4500Cl-B	mg,	mg/kg		d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/20/2014	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	10/20/2014	ND	177	88.3	200	1.44	
DRO >C10-C28	<10.0	10.0	10/20/2014	ND	199	99.7	200	2.58	
Surrogate: 1-Chlorooctane	94.8	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	97.8	% 52.1-17	6						

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#### \*=Accredited Analyte

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	10/17/2014	Sampling Date:	10/17/2014
Reported:	10/20/2014	Sampling Type:	Soil
Project Name:	WBDU #75	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

#### Sample ID: SOUTH WALL 1 (H403210-05)

Chloride, SM4500Cl-B	mg/kg		Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/20/2014	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	10/20/2014	ND	177	88.3	200	1.44	
DRO >C10-C28	<10.0	10.0	10/20/2014	ND	199	99.7	200	2.58	
Surrogate: 1-Chlorooctane	91.1	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	113	% 52.1-17	6						

#### Sample ID: SOUTH WALL 2 (H403210-06)

Chloride, SM4500Cl-B	mg/kg		Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/20/2014	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	10/20/2014	ND	177	88.3	200	1.44	
DRO >C10-C28	<10.0	10.0	10/20/2014	ND	199	99.7	200	2.58	
Surrogate: 1-Chlorooctane	81.9	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	80.2	% 52.1-17	76						

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#### \*=Accredited Analyte

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	10/17/2014	Sampling Date:	10/17/2014
Reported:	10/20/2014	Sampling Type:	Soil
Project Name:	WBDU #75	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

#### Sample ID: WEST WALL 1 (H403210-07)

Chloride, SM4500Cl-B	mg/kg Analyze		d By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/20/2014	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/20/2014	ND	177	88.3	200	1.44	
DRO >C10-C28	<10.0	10.0	10/20/2014	ND	199	99.7	200	2.58	
Surrogate: 1-Chlorooctane	70.5	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	81.4	% 52.1-17	6						

#### Sample ID: EAST WALL 1 (H403210-08)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/20/2014	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/20/2014	ND	177	88.3	200	1.44	
DRO >C10-C28	<10.0	10.0	10/20/2014	ND	199	99.7	200	2.58	
Surrogate: 1-Chlorooctane	86.5	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	78.2	% 52.1-17	6						

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#### \*=Accredited Analyte

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Celeg D. Keine

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

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 6 of 7

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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ARDINAL 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 ANALYSIS REQUEST BILL TO Pacht Company Name: P.O. #: Kakor SUCP. Project Manager: Cations/Anions Company: Address: Attn: State: NM Zip: 88240 City: Hobbs Address: Fax #:  $\geq$ HdT Phone #: City: Chlorides Project Owner: PH 8015 Project #: BTEX Zip: State: S Project Name: Texas Õ Phone #: WBDU F Project Location: Fax #: complete Sampler Name: Kyle Humphrey SAMPLING PRESERV MATRIX FOR LAB USE ONLY 1 (G)RAB OR (C)OMP GROUNDWA'TER # CONTAINERS WASTEWATER ACID/BASE COOL Sample I.D. Õ Lab I.D. SLUDGE OTHER : OTHER CE/ SOIL TIME H4032 S DATE 2,01 1-17-H Pottom 200 20 V 0% 2 2 12; 25 2:3 173 Cal PLEASE NOTE: Liability and Damages. Cardinal's liability and clent's exclusive remedy for any claim adding whether based in contract or tort, shall be limited to the amount paid by the clent 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 analyses. As cauthat including those or negregance and any other cause vinaisociver and be detened warred using insurance in mang and record or Central whom an our and particles. In no event shall Cardinal be liable for incidential damages, including without imitation, business interruptions, loss of use, or loss of profits incidential be subsidiarios, allitudes 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. Add'l Phone # C Yes No No Phone Result Received By 12 No Add'LFax #: □ Yes Relinquished By: Fax Result: REMARKS: email results Received By: Date Knorman@rice-ecs.com Relinguished By Kjones@riceswd.com; jkamplain@rice-ecs.com hconder@rice-ecs.com; Time: Lweinheimer@rice-ecs.com CHECKED BY: Sample Condition Delivered By: (Circle One) Khumphrey@rice-ecs.com Intact nitial Cool sedwards@rice-ecs.com,Iflores@rice-ecs.com PYes PYes Sampler - UPS - Bus - Other: No No 🗍 † Cardinal cannot accept verbal changes. Please fax written changes to 505-393 3476

q Page 7



October 21, 2014

BRUCE BAKER APACHE CORP - HOBBS 2350 W. MARLAND BLVD. HOBBS, NM 88240

RE: WBDU #75

Enclosed are the results of analyses for samples received by the laboratory on 10/20/14 14:55.

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 <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated 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. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	10/20/2014	Sampling Date:	10/20/2014
Reported:	10/21/2014	Sampling Type:	Soil
Project Name:	WBDU #75	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

#### Sample ID: BOTTOM 4 (H403218-01)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/21/2014	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/20/2014	ND	177	88.3	200	1.44	
DRO >C10-C28	<10.0	10.0	10/20/2014	ND	199	99.7	200	2.58	
Surrogate: 1-Chlorooctane	86.0	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	93.4	% 52.1-17	6						

#### Sample ID: NORTH WALL 2 (H403218-02)

Chloride, SM4500Cl-B	mg,	mg/kg Analyzed By: AP		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/21/2014	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/20/2014	ND	177	88.3	200	1.44	
DRO >C10-C28	<10.0	10.0	10/20/2014	ND	199	99.7	200	2.58	
Surrogate: 1-Chlorooctane	84.9	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	84.7	% 52.1-17	6						

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	10/20/2014	Sampling Date:	10/20/2014
Reported:	10/21/2014	Sampling Type:	Soil
Project Name:	WBDU #75	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

#### Sample ID: SOUTH WALL 3 (H403218-03)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	10/21/2014	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/20/2014	ND	177	88.3	200	1.44	
DRO >C10-C28	<10.0	10.0	10/20/2014	ND	199	99.7	200	2.58	
Surrogate: 1-Chlorooctane	93.8	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	119	% 52.1-17	6						

#### Sample ID: WEST WALL 2 (H403218-04)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/21/2014	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/20/2014	ND	177	88.3	200	1.44	
DRO >C10-C28	<10.0	10.0	10/20/2014	ND	199	99.7	200	2.58	
Surrogate: 1-Chlorooctane	99.3	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	94.9	% 52.1-17	6						

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#### \*=Accredited Analyte

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Celeg D. Keine

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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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

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RDINAL LABORATORIES

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: A PachP Project Manager: BrvCe Paky	5144 70	ANALYSIS REQUEST
Project Manager: BrvCe Daky	P.O. #:	
Address:	Company:	0
City: Hobbs State: NM Zip: 88240	Attn:	
Phone #: Fax #:	Address:	
Project #: Project Owner:	City:	
Project Name:	State: Zip:	Chlorides PH 8015 N BTEX exas TPH e Cations/ TDS
Project Location: 4BDV #75	Phone #:	Horide BTEX BTEX Cation TDS
Sampler Name: Kyle Humphrey	Fax #:	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	PRESERV. SAMPLING 	Chlorides TPH 8015 M BTEX TPH 8015 M BTEX Texas TPH Complete Cations/Anions TDS
PLEASE NOTE: Liability and Damages. Cardinal's liability and clenit's exclusive remedy for any claim arising whether based in contra analyses. All claims including those for negligence and any other cause whatsoever namedy for any claim arising whether based in contra services. In no event shall Cardinal the liability and clenit's exclusive remedy for any claim arising whether based in contra services. In no event shall Cardinal the liability and clenit's exclusive remedy for any claim arising whether based in contra services. In no event shall Cardinal the liability and clenit's exclusive remedy for any claim arising whether based in contra services in event shall Cardinal the liability and consequential damages, including without limitation, business interruptions attituates or successors arising out of or related to the performance of services hereindary by Cardinal, regardless of whether such claim attituates or successors arising out of or related to the performance of services hereindary by Cardinal, regardless of whether such claim attituates or successors arising out of or related to the performance of services hereindary by Cardinal, regardless of whether such claim attituates or successors arising out of or related to the performance of services hereindary by Cardinal, regardless of whether such claim attituates or successors arising out of or related to the performance of services hereindary by Cardinal, regardless of whether such claim attituates or successors arising out of or related to the performance of services hereindary by Cardinal, regardless of whether such claim attitudes or successors arising out of or related to the performance of services hereindary by Cardinal, regardless of whether such claim attitudes or successors arising out of or related to the performance of services hereindary by Cardinal, regardless of whether such claim attitudes or successors arising out of or related to the performance of services hereindary by Cardinal, regardless of the perfo	tion CHECKEDBY: tion CHECKEDBY: to be when the time of time of the time of time of the time of time of time of the time of time	Ine application axios, asu Isult: I Yes I No Add'I Phone #: It: I Yes I No Add'I Fax #: S:

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KUSH ..

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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 WBDU #75 Unit Letter L, Section 16, T21S, R37E



Initial site photo, facing north

10/16/14



Scraping out wet material, facing northeast 10/16/14



Initial site photo, facing west

10/16/14



Continued excavation, facing south

10/17/14



Exporting soil, facing east

10/20/14



Site backfilled, facing southeast

12/1/14



Site backfilled, facing east

12/1/14



Site backfilled, facing south

12/1/14

## Appendix D Final C-141

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

#### State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

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

**Oil Conservation Division** 1220 South St. Francis Dr.

1220 S. St. Fran	icis Dr., Sant	a Fe, NM 8750.	5	Sa	anta Fe	, NM 875	505					
			Rele	ease Notific	cation	and Co	orrective A	ction				
						OPERATOR			🗌 Initial Report 🛛 Final Report			
Name of Co	ompany A	Apache Corp	1	Contact Bruce Baker								
and the second		land Street,		Telephone No. (432) 631-6982								
Facility Nat	me WBD	U #75			- ]	Facility Typ	be Oil Well					
Surface Ow	mer State	~	Dwner	API No. 30-025-06615								
						OF RE	LEASE				00015	
Unit Letter	Section	Township	Range	Feet from the		/South Line Feet from the East/West Line County						
L	16	21S	37E	1980'		FSL	660'	FWL		Lea		
			La	titude		Longitud	le					
				· · · · ·	URE	OF REL						
Type of Release Produced Water						Volume of of produce	Release 125 Ba	rrels	Volume R produced	Recovered 120 barrels of		
Source of Re	lease injec	ction line	Date and H	Hour of Occurrence				1 Hour of Discovery 10/16/2014				
Was Immedia	ate Notice (	Given?	10/16/2014 If YES, To Whom?									
		$\boxtimes$	Yes 🗌	No 🗌 Not R	equired		Oberding (NMO	CD)				
By Whom?				Date and Hour 10/17/2014 at 11:37 a.m.								
Was a Water	course Read	ched?	If YES, Volume Impacting the Watercourse.									
If a Watercou	ırse was Im	pacted, Descr	ibe Fully.*	k .		1						
During the in	stallation of	em and Reme f a flange on i l a vacuum tru	njection li		/BDU 75 1p fluid.	the line was	in a bind resultin	g in the	fiber glass	line to brea	k. The	valve
photographed the wet soil fi personnel san All wall and I	ffected 1,71 I and GPS r rom beneatl npled the w bottom sam	2 square feet napped. A tra n the pipelines alls and botto ples returned	of ditch lin ack-hoe wa s. All exca m of the si laboratory	ne. RECS person as utilized to remo avated soil was ta ite for chlorides a	ove the w ken to a l nd organ s below 2	et soil in the NMOCD app ic vapors. T	nning on October easily accessible proved facility for he samples were t ith GRO and DR(	areas, a disposa	nd a shovel al. Once the	crew was u wet soil wa mercial labo	tilized as remo	to remove oved, RECS for analysis
regulations al public health should their of or the enviror	or the environment of the enviro	are required to ronment. The ave failed to a	o report an acceptance adequately OCD accep	id/or file certain r ce of a C-141 repo investigate and r	elease no ort by the emediate	otifications and NMOCD m contaminati	knowledge and u nd perform correc arked as "Final R on that pose a thr e the operator of n	tive acti eport" d eat to gr responsi	ions for rele oes not reli ound water bility for co	eases which eve the open s, surface wa ompliance w	may en rator of iter, hui vith any	danger liability man health
Signature:	Bru	e Ba	her				OIL CON	SERV	ATION	DIVISIC	DN	

Approved by Environmental Specialist: Printed Name: Bruce Baker Title: Environmental Technician Approval Date: Expiration Date: E-mail Address: larry.baker@apachecorp.com Conditions of Approval: Attached 1-16-15 Date: Phone: (432) 631-6982

\* Attach Additional Sheets If Necessary