

### **APACHE CORPORATION**

P.O.Box 1849 Eunice, NM 88231 Phone 575,394,3159

### WBDU #106

### Closure Report

API 30-025-39407

Release Date: May 8, 2011

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

#### Rice Environmental Consulting & Safety

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

#### June 4<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 – WBDU #106 AD UL/J Sec. 8 T21S R37E API No. 30-025-39407

Mr. Leking:

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

#### **Background and Previous Work**

The site is an accidental discharge of hydrocarbon fluids associated with the WBDU #106 well when a blow out preventer failed. Fluids affected the well pad and pasture area south of the well pad. The unit was repaired and fluids were recovered. An initial form C-141 was submitted by Apache Corporation on May 12, 2011 (Appendix A). The site is located northwest of Eunice in unit letter 'J' of section 8, T21S, R37E in Lea County, New Mexico. According to the NM Office of the State Engineer and the U.S. Geological Survey, ground water in the area is approximately 80 ft. bgs

On May 9, 2011, well servicing equipment remained at the WBDU #106 well head preventing sampling of the caliche pad. However, RECS personnel initiated work on the impacted pasture area located south of the caliche pad. Soil samples were field tested for chloride, and headspace measurements were also taken in the field using a Photo Ionization Detector (PID).

The impacted pasture area was excavated to a depth of 2 ft below ground surface (bgs) and covered a lateral area of approximately 1,400 ft² (Figure 1). Representative grab samples were taken from the excavation walls, and a representative composite sample was taken from the excavation floor. The samples were submitted to a commercial laboratory for chloride, TPH, and BTEX analyses (Appendix C). Chloride did not exceed 64 mg/kg. The North Wall adjacent to the undisturbed caliche pad impact area contained 111 mg/kg DRO. Remaining samples contained a maximum of 20.9 mg/kg DRO. Benzene, Toluene, and Ethyl-benzene were less than 0.050 mg/kg and Total Xylenes were less than 0.150 mg/kg.

On May 12, 2011, RECS personnel initiated work at the impacted area on the caliche pad (Figure 2). Soil samples were collected and similarly field tested. The impacted area was excavated to a

depth of 2 ft bgs and covered a lateral area of approximately 8,205 ft² (Figure). Representative grab samples were taken from the east and west excavation walls, and a representative composite sample was taken from the excavation floor. The samples were submitted to a laboratory for analyses. Chloride did not exceed 64 mg/kg. TPH were less than 10 mg/kg. Benzene, Toluene, and Ethyl-benzene were each 0.057 mg/kg or less, and Total Xylenes were 0.154 mg/kg or less.

Impacted soils were removed from the excavations and transported to a NMOCD approved disposal facility. The edge of the impacted area north of the well head was not excavated due to the proximity of equipment and the well head itself. The caliche pad excavation was backfilled with imported caliche and leveled. The pasture area excavation was backfilled with imported topsoil and contoured to the surrounding area. See Appendix B for photographs of field activities.

#### Conclusion

Due to the removal of impacted soils and mitigation of the downward migration of any remaining chloride, Apache submits the final C-141 (Appendix D) and respectfully requests the closure of the regulatory file for this site.

Apache Corporation appreciates the opportunity to work with you on this project. Please Hack Conder at (575) 631-6432 if you have any questions or comments.

Sincerely,

Lara Weinheimer

**Project Scientist** 

**RECS** 

(575) 441-0431

#### Attachments:

Figure 1: Pasture Excavation
Figure 2: Pad Excavation
Appendix A: Initial Form C-141
Appendix B: Site Photographs
Appendix C: Laboratory Results
Appendix D: Final Form C-141

### Figures

#### **WBDU #106 AD**

UL/J, Sec 8, T21S R37E

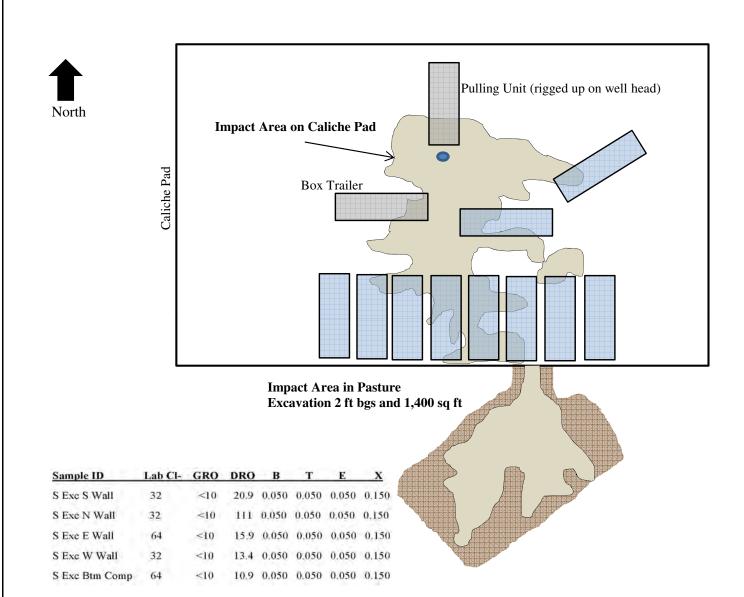


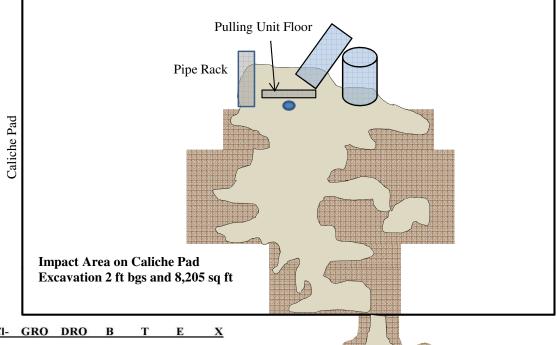
Figure 1



#### **WBDU #106 AD**

UL/J, Sec 8, T21S R37E





 Sample ID
 Lab Cl GRO
 DRO
 B
 T
 E
 X

 E Wall Exc on Pad
 <16</td>
 <10</td>
 <10</td>
 0.050
 0.050
 0.050
 0.150

 W Wall Exc on Pad
 <16</td>
 <10</td>
 <10</td>
 0.050
 0.057
 0.057
 0.154

 4 Pt. Btm Comp
 48
 <10</td>
 <10</td>
 0.050
 0.050
 0.050
 0.150

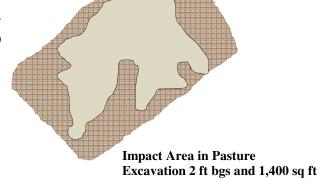
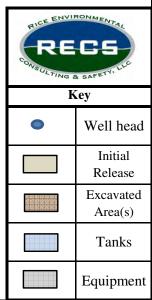


Figure 2



# 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

\* Attach Additional Sheets If Necessary

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

			Rel	ease Notifi	ication	n and Co		33.32.20		al Damant		l r:in
Name of C	ompany A	pache Corp	oration				talie Gladden		Initi	al Report		Final Repo
		9, Eunice N					No. 575-390-4	186				
Facility Na							e Production V					
Surface Ov	vner Deck			Mineral	Owner :	State of NM			API No	. 30-025-	39407	7
				LOC	ATIO	N OF RE	LEASE					
Unit Letter	Section	Township	Range	Feet from the	North/	South Line	Feet from the	East/W	est Line	County		
J	8	215	37E	2310	FSL		2310	FEL		Lea		
			La	titude		Longitud	le					
				NA'	TURE	OF REL	EASE					
Type of Rele							Release 25		Volume I	Recovered 2	0	
Source of Re	elease BOP	Failure				Date and F 5/8/11	lour of Occurrent	ce	Date and 5/8/11	Hour of Dis	scover	у
Was Immedi	iate Notice (		Yes [	No Not F	Required	If YES, To Leking	Whom?					
By Whom?	Natalie Gla	dden				Date and F	Iour 5/9/11 at 113	3pm				
Was a Water	course Read	ched?	Yes 🗵	No No			olume Impacting		rcourse.			
		em and Reme asing fluid, F		n Taken.* ecovered and one	e-call was	made.						
Describe Are NMOCD gui	ea Affected idelines will	and Cleanup /	Action Tal to closure.	ken.*								
regulations a public health should their o or the environ	Il operators or the envir operations h nment. In a	are required t ronment. The save failed to	o report and acceptant adequately OCD accep	e is true and com nd/or file certain ce of a C-141 rep investigate and otance of a C-141	release no ort by the remediate	otifications ar NMOCD ma contaminati	nd perform correct arked as "Final R on that pose a thr	ctive action deport" do	ons for releases not release	eases which ieve the ope	may e	endanger of liability
Signature:	a	Jalu	Gr	lodde	~	Approved by	OIL CON  Environmental S			DIVISIO	ON	
Printed Name	e: Natalie C	Gladden				10.2.2.00		position.				
Title: EHS E	Invironment	tal Tech			1	Approval Dat	e:	E	xpiration	Date:		
		gladden@apa		16.5	(	Conditions of	Approval:			Attached		
Date: 5/12/1	1	Phone:	575-390-4	186	-							

# $\underset{\text{Site Photographs}}{Appendix} \ B$

#### **WBDU #106 AD**

Unit J, Section 8, T21S, R37E



Initial release in pasture, facing south

5/9/2011



Initial release in pasture, facing north

5/9/2011



Pasture excavation complete, facing north

5/9/2011



Initial release on pad, facing west

5/12/2011



Excavating pad, facing west

5/12/2011



Initial release on pad, facing north

5/12/2011



Exporting soil, facing south

5/12/2011

# Appendix C Laboratory Results



May 13, 2011

NATALIE GLADDEN

APACHE - EUNICE

P. O. BOX 1849

**EUNICE, NM 88231** 

RE: APACHE WEBDU #106

Enclosed are the results of analyses for samples received by the laboratory on 05/09/11 16:05.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021 Benzene, Toluene, Ethyl Benzene, and Total Xylenes Method SW-846 8260 Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method TX 1005 Total Petroleum Hydorcarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

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 (V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keene

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



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

Received: 05/09/2011 Sampling Date: 05/09/2011

Reported: 05/13/2011 Sampling Type: Soil

Project Name: APACHE WEBDU #106 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

#### Sample ID: S EXC OFF PAD S WALL (H100935-01)

BTEX 8021B	mg,	'kg	Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/11/2011	ND	1.97	98.7	2.00	2.34	
Toluene*	<0.050	0.050	05/11/2011	ND	1.99	99.6	2.00	2.26	
Ethylbenzene*	<0.050	0.050	05/11/2011	ND	2.00	100	2.00	1.50	
Total Xylenes*	<0.150	0.150	05/11/2011	ND	5.98	99.6	6.00	1.71	
Surrogate: 4-Bromofluorobenzene (PIL	93.1	% 70-130	1						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/11/2011	ND	416	104	400	0.00	
TPH 8015M	mg,	'kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/12/2011	ND	173	86.3	200	0.975	
DRO >C10-C28	20.9	10.0	05/12/2011	ND	198	98.9	200	0.901	
Surrogate: 1-Chlorooctane	82.6	% 70-130	1						
Surrogate: 1-Chlorooctadecane	84.3	% 70-130	1						

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 whistoever 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 related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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

Received: 05/09/2011 Sampling Date: 05/09/2011

Reported: 05/13/2011 Sampling Type: Soil

Project Name: APACHE WEBDU #106 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

#### Sample ID: S EXC OFF PAD N WALL (H100935-02)

BTEX 8021B	mg,	/kg	Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/11/2011	ND	1.97	98.7	2.00	2.34	
Toluene*	<0.050	0.050	05/11/2011	ND	1.99	99.6	2.00	2.26	
Ethylbenzene*	<0.050	0.050	05/11/2011	ND	2.00	100	2.00	1.50	
Total Xylenes*	<0.150	0.150	05/11/2011	ND	5.98	99.6	6.00	1.71	
Surrogate: 4-Bromofluorobenzene (PIL	90.8	% 70-130	1						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/11/2011	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/12/2011	ND	173	86.3	200	0.975	
DRO >C10-C28	111	10.0	05/12/2011	ND	198	98.9	200	0.901	
Surrogate: 1-Chlorooctane	108	% 70-130	1						
Surrogate: 1-Chlorooctadecane	113	% 70-130	)						

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

Received: 05/09/2011 Sampling Date: 05/09/2011

Reported: 05/13/2011 Sampling Type: Soil

Project Name: APACHE WEBDU #106 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

**NOT GIVEN** 

#### Sample ID: S EXC OFF PAD E WALL (H100935-03)

Project Location:

BTEX 8021B	mg,	'kg	Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/11/2011	ND	1.97	98.7	2.00	2.34	
Toluene*	<0.050	0.050	05/11/2011	ND	1.99	99.6	2.00	2.26	
Ethylbenzene*	<0.050	0.050	05/11/2011	ND	2.00	100	2.00	1.50	
Total Xylenes*	<0.150	0.150	05/11/2011	ND	5.98	99.6	6.00	1.71	
Surrogate: 4-Bromofluorobenzene (PIL	95.0	% 70-130	1						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/11/2011	ND	416	104	400	0.00	
TPH 8015M	mg,	'kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/12/2011	ND	173	86.3	200	0.975	
DRO >C10-C28	15.9	10.0	05/12/2011	ND	198	98.9	200	0.901	
Surrogate: 1-Chlorooctane	122 :	% 70-130	1						
Surrogate: 1-Chlorooctadecane	124	% 70-130	•						

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

Received: 05/09/2011 Sampling Date: 05/09/2011

Reported: 05/13/2011 Sampling Type: Soil

Project Name: APACHE WEBDU #106 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

#### Sample ID: S EXC OFF PAD W WALL (H100935-04)

BTEX 8021B	mg,	/kg	Analyze	ed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/11/2011	ND	1.97	98.7	2.00	2.34	
Toluene*	<0.050	0.050	05/11/2011	ND	1.99	99.6	2.00	2.26	
Ethylbenzene*	<0.050	0.050	05/11/2011	ND	2.00	100	2.00	1.50	
Total Xylenes*	<0.150	0.150	05/11/2011	ND	5.98	99.6	6.00	1.71	
Surrogate: 4-Bromofluorobenzene (PIL	93.3	% 70-130	)						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/11/2011	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/12/2011	ND	173	86.3	200	0.975	
DRO >C10-C28	13.4	10.0	05/12/2011	ND	198	98.9	200	0.901	
Surrogate: 1-Chlorooctane	124	% 70-130	)						
Surrogate: 1-Chlorooctadecane	130	% 70-130	)						

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

Received: 05/09/2011 Sampling Date: 05/09/2011

Reported: 05/13/2011 Sampling Type: Soil

Project Name:APACHE WEBDU #106Sampling Condition:Cool & IntactProject Number:NONE GIVENSample Received By:Jodi HensonProject Location:NOT GIVEN

Sample ID: S EXC OFF PAD BTM COMP (H100935-05)

BTEX 8021B	mg/	'kg	Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/11/2011	ND	1.97	98.7	2.00	2.34	
Toluene*	<0.050	0.050	05/11/2011	ND	1.99	99.6	2.00	2.26	
Ethylbenzene*	<0.050	0.050	05/11/2011	ND	2.00	100	2.00	1.50	
Total Xylenes*	<0.150	0.150	05/11/2011	ND	5.98	99.6	6.00	1.71	
Surrogate: 4-Bromofluorobenzene (PIL	91.5	% 70-130	)						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/11/2011	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/12/2011	ND	173	86.3	200	0.975	

ND

198

98.9

200

0.901

05/12/2011

Surrogate: 1-Chlorooctane 106 % 70-130 Surrogate: 1-Chlorooctadecane 110 % 70-130

10.9

10.0

DRO >C10-C28

Cardinal Laboratories \*=Accredited Analyte

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#### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

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#### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name	ie: Apache Coru	******	-	Determined.	amou	CHICAGO		1	1 1-	-	-	LL TO	NA COLUMN		-		-		ANA	YSIS	S RE	EQUE	ST	-	*******	
Project Manage	er: Natalie Gladden							P.	.0.	SECRETARIOS.	expenses.	-	- Continue No.	1	-	- Date of the	-	-			Alian est	-		T	1	1
Address: Apa	ache Corp.							C	omi	pany	v:						1		(D						1	1
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Plione #:	Fax#									ess:				1					n.			1	1			1
Project #	Project Owner	r:						Ci	ity:		-					2		-	A/S				1	1	1	
Project Name:	APACHE WEBDU #101	6						SI	tate			Zip:		1	(3)	10	10	TPH	SC					1		
Project Locatio							_	-		e#:	-	- de	-	-	0	801	益		13	00			1		1	
Sampler Name:	Terdan Woodfin				-			1	ax#	-				-	Chlorides	00	BTEX	exas	Cations/	2			1	1	1	
FOR LIBE ONLY			1		M	IATRI	IX	-bon	numm	RESE	RV	SAMPL	ING		5	표	III	O								
Lab I.D.	Sample I.D.	(S)RAB OR (C)OME	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	707	DATE	TIME						Complete							
HID0935-1	South Excountion off the PAD South Wall	6	1			X	1			X	-	5-9-11	2:00	-	K	X	X	-	-	-		-	-	20000000	-	-
	South Wall											9		1	Δ_		-			1						
2	South Excountion of the PAD North Well	6	1	H	¥	K			-	×		it	2:10	-	X	X	×					E	1		-	
3	South Execution of the PAO	67	1	H	- 1	X	F	F		x		41	2:20		x	x	X					-		-		
4	South Execution of the PHO	6	1	H	×	C	F			V		11	2: 34	0	V	K	X					1		-		
5	South Excounting of the PAD Bottom Come	C			1	x	=	-	-	X		H	1:50	>	K	X	X					1				1
shifted to no event shall of	and Damages. Cardinal's (liability and clients, exclusive remedy for a sing those for negligance and any other cause whilescover shall be Cardinal be fable for accidental or comsequental damages, including sign out of carefaled to the parform some quental damages, including	acamer a will be	of Book	had unles	ess made	ig at with	intions	lace of	elved t	by Carr	ndural at	within 30 days atti	or completion	of the	apphicat	ole	L-concurs :	L								-
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	v: (Circle One) i - Bus - Other;		5.	500	Sampl Gool	le Co	act Ye	tion es		CH	EGK	(ED BY:	Hco Nata										ecs.d	com		

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

4 26

Page 8 of 8



May 26, 2011

NATALIE GLADDEN

APACHE - EUNICE

P. O. BOX 1849

**EUNICE, NM 88231** 

RE: WBDU #106

Enclosed are the results of analyses for samples received by the laboratory on 05/25/11 8:15.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021 Benzene, Toluene, Ethyl Benzene, and Total Xylenes Method SW-846 8260 Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method TX 1005 Total Petroleum Hydorcarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

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 (V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keene

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



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

Received: 05/25/2011
Reported: 05/26/2011
Project Name: WBDU #106

Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 05/13/2011

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

#### Sample ID: 4 PT BTM COMP (H101068-01)

BTEX 8021B	mg/	/kg	Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/25/2011	ND	2.16	108	2.00	1.64	
Toluene*	<0.050	0.050	05/25/2011	ND	2.10	105	2.00	1.47	
Ethylbenzene*	<0.050	0.050	05/25/2011	ND	2.15	107	2.00	1.46	
Total Xylenes*	<0.150	0.150	05/25/2011	ND	6.32	105	6.00	1.43	
Surrogate: 4-Bromofluorobenzene (PIL	92.3	% 70-130	1						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/26/2011	ND	448	112	400	3.51	
TPH 8015M	mg/	/kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/26/2011	ND	241	120	200	3.97	
DRO >C10-C28	<10.0	10.0	05/26/2011	ND	213	107	200	0.169	
Surrogate: 1-Chlorooctane	96.5	% 70-130							
Surrogate: 1-Chlorooctadecane	88.7	% 70-130							

Cardinal Laboratories \*=Accredited Analyte

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

Received: 05/25/2011

Sampling Date:

05/13/2011

Reported: Project Name: 05/26/2011

Sampling Type:

Soil Cool & Intact

Project Number:

WBDU #106 NONE GIVEN Sampling Condition: Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

#### Sample ID: E WALL EXC ON PAD (H101068-02)

BTEX 8021B	mg,	/kg	Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/25/2011	ND	2.16	108	2.00	1.64	
Toluene*	<0.050	0.050	05/25/2011	ND	2.10	105	2.00	1.47	
Ethylbenzene*	<0.050	0.050	05/25/2011	ND	2.15	107	2.00	1.46	
Total Xylenes*	<0.150	0.150	05/25/2011	ND	6.32	105	6.00	1.43	
Surrogate: 4-Bromofluorobenzene (PIL	91.5	% 70-130	)						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/26/2011	ND	448	112	400	3.51	
TPH 8015M	mg,	/kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/26/2011	ND	241	120	200	3.97	
DRO >C10-C28	<10.0	10.0	05/26/2011	ND	213	107	200	0.169	
Surrogate: 1-Chlorooctane	104	% 70-130	)						
Surrogate: 1-Chlorooctadecane	90.3	% 70-130	)						

Cardinal Laboratories \*=Accredited Analyte

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

Received: 05/25/2011 Reported:

Sampling Date:

05/13/2011

Project Name:

05/26/2011

Sampling Type:

Soil Cool & Intact

Project Number:

WBDU #106 NONE GIVEN Sampling Condition: Sample Received By:

Jodi Henson

Project Location:

**NOT GIVEN** 

#### Sample ID: W WALL EXC ON PAD (H101068-03)

BTEX 8021B	mg,	'kg	Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/25/2011	ND	2.16	108	2.00	1.64	
Toluene*	0.057	0.050	05/25/2011	ND	2.10	105	2.00	1.47	
Ethylbenzene*	0.057	0.050	05/25/2011	ND	2.15	107	2.00	1.46	
Total Xylenes*	0.154	0.150	05/25/2011	ND	6.32	105	6.00	1.43	
Surrogate: 4-Bromofluorobenzene (PIL	94.8	% 70-130	1						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/26/2011	ND	448	112	400	3.51	
TPH 8015M	mg,	'kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/26/2011	ND	241	120	200	3.97	
DRO >C10-C28	<10.0	10.0	05/26/2011	ND	213	107	200	0.169	
Surrogate: 1-Chlorooctane	89.0	% 70-130	1						
Surrogate: 1-Chlorooctadecane	77.4	% 70-130	1						

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#### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

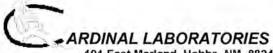
\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

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#### 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

pany Name: Apache ect Manager: Natalie Gladden									_		L TO						JINA	YSIS	ILL	COL	31			
ect Manager: Natalie Gladden								O. #:																0
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Received By:  Received By:  Received By:  Sample Condition   CHECKED BY:	emedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the er shall be deemed waved unless made in writing and received by Cardinal within 30 days after completion of the applicate si, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries sunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.  Received By:  Received By:  Received By:  Received By:  Sample Condition   CHECKED BY:  CHECK	emedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the er shall be deemed waved unless made in writing and received by Cardinal within 30 days after completion in the applicable so, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries sunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.    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Phone Result:   Yes	emedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the er shall be deemed waved unless made in writing and received by Cardinal within 30 days after completion of the applicable is, including whithout limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries sunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.    Phone Result:   Yes   No   Fax Result:   Yes   No   Remarks:   Phone Result:   Yes   No   Remarks:   Yes   No   Remarks:   Phone Result:   Yes   No   Phone Result:   Y	emedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the er shall be deemed waved unless made in writing and received by Cardinal within 30 days after completion of the applicable is, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries sunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.  Phone Result: Yes No Add'If Fax Result: Yes No Add'If REMARKS:  email results  Natalie.Gladden@usa@apa Zconder@rice-ecs.com; Bt  Sample Condition CHECKED BY:	emedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the err shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable is, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries sunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.  Phone Result: Yes INO Add'I Phone Fax Result: Yes INO Add'I Fax #:  REMARKS:  email results  Natalie.Gladden@usa@apache  Zconder@rice-ecs.com; Bbake	emedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the er shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable sp, including without fimilitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries sunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.    Phone Result:   Yes   No   Add'l Phone #: Fax Result:   Yes   No   Add'l Fax #: REMARKS:   Phone Result:   Yes   No   Add'l Fax #: REMARKS:   Phone Result:   Yes   No   Add'l Fax #: REMARKS:   Cardinal within 30 days after completion of the applicable sp, including without finition of the above stated reasons or otherwise.   Phone Result:   Yes   No   Add'l Phone #: Fax Result:   Yes   No   Add'l Fax #: REMARKS:   Phone Results   Yes   No   Add'l Phone #: Phone Results   Phone Results   Yes   No   Add'l Phone #: Phone Results   Phone Results	emedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the er shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable is, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries sunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.	emedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the er shall be deemed waved unless made in withing and contract or tort, shall be limited to the amount paid by the client for the applicable is, including without limitation, business interruption, loss of true, or loss of profile incurred by client, its subsidiaries sunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.    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Phone Result:   Yes   No   Add'l Phone #:   Fax Result:   Yes   No   Add'l Fhom #:   Received By:   Phone Result:   Yes   No   Add'l Phone #:   Remarks:   Pax Result:   Yes   Received By:   Phone Result:   Yes   Remarks:   Phone Result:   Pax

Sampler - UPS - Bus - Other:

<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

## Appendix D Final Form C-141

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

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

side of form

Form C-141 Revised October 10, 2003

#### **Release Notification and Corrective Action**

						OPERA?	ΓOR		Initia	l Report	$\boxtimes$	Final Report	
Name of Co		Apache (				Contact	Bruce Bake						
Address		ox 1849, Eu		88231		Telephone N							
Facility Nar	ne V	VBDU #106				Facility Typ	e Production	on Well					
Surface Ow:	ner Dec	k		Mineral C	wner	State		A	PI No.	. 30-025-3	9407		
				LOCA	TIOI	N OF REI	LEASE						
Unit Letter	Section	Township	Range	Feet from the	North/	South Line	Feet from the	East/West	Line	County			
J	8	21S	37E	2310	FSL		2310	FEL		Lea			
			La	titude		Longitud	le						
				NAT	URE	OF RELI	EASE						
Type of Relea							Release 25 bbls  Tour of Occurrence			ecovered 2			
Source of Re	lease BOP		Hour of Disc	overy									
Was Immediate Notice Given?    Yes   No   Not Required   Not Required   Not Required													
By Whom?		Gladden				Date and H	Iour 5/9/11 1	:13 pm					
Was a Water													
If a Watercou	rse was Im	pacted, Descr	ibe Fully.	*									
Describe Cau				n Taken.* ecovered and one-	call was	made							
DOT Tarrot R	11014, 10104	ionig Huiu. Ti	ara was re	ocovered und one	can was	inac.							
Describe Are				ken.* u small area of pas	tura to f	ha south of th	a nad was affaata	d by the leaf	lr The	antina insura			
excavated to	ad surround 2 ft. below	ground surfac	e. Sampl	es were collected,	field tes	ne south of the sted, and sent	to a commercial l	a by the lear aboratory fo	к. The or chlor	ide, TPH, ar	леа are id BTE	ea was EX analyses.	
Impacted soil	s were rem	oved to a NM	OCD app	roved disposal fac ported soil and co	ility. Tl	he pad excava	ation was backfille	ed with clear	n impoi	rted caliche	and lev	eled. The	
				e is true and comp nd/or file certain r									
public health	or the envi	ronment. The	acceptan	ce of a C-141 repo	ort by the	e NMOCD m	arked as "Final Re	eport" does:	not reli	eve the oper	ator of	liability	
				investigate and r									
federal, state,				otance of a C-141	report d	oes not renev	e the operator of r	esponsibilit	ty for co	этриапсе w	ith any	otner	
							OIL CONS	SERVAT	TION	DIVISIO	N		
Signature:	Br	uce Be	the								_		
Printed Name		ruce Baker	•			Approved by	District Superviso	or:					
Title:	Environmer	ntal Tech				Approval Da	te;	Expi	iration l	Date:			
E-mail Addre	ess: la	arry.baker@ar	achecorp	com		Conditions of		*********					
	3 - 30			: (432) 631-6982			**			Attached	Ц		
A 1 A 1 1*	tional Cha	TCNT-	_										

<sup>\*</sup> Attach Additional Sheets If Necessary