

APACHE CORPORATION

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

NB Tween #25 (2RP-1606)

Closure Report

API 30-015-39075

Release Date: July 18th, 2012

Unit Letter C, Section 25, Township 17S, Range 28E

Rice Environmental Consulting & Safety

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

June 3rd, 2013

Mike Bratcher New Mexico Energy, Minerals, & Natural Resources Oil Conservation Division, Environmental Bureau – District 2 811 S. First St. Artesia, NM 88210

> RE: TERMINATION REQUEST Apache Corporation – NB Tween #25 (2RP-1606) UL/C sec. 25 T17S R28E API No. 30-015-39075

Mr. Bratcher:

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

Background and Previous Work

The site is an accidental discharge of produced water and oil associated with the NB Tween #25. The well flowed back during a work-over procedure to pull out stuck tubing. A total of 80 barrels of fluid was released and a total of 60 barrels were recovered. An initial C-141 was sent to NMOCD on July 19th, 2012 (Appendix A). The site is located 9 miles west of Loco Hills, New Mexico, in unit letter 'C' of section 25, T17S, R28E in Eddy County. This site is located in an area of no known groundwater.

On July 18th, 2012, RECS personnel initiated work at the NB Tween #25. A plastic liner was installed prior to the installation of the wellhead to inhibit the downward migration of constituents from the wellhead installation and work over activities. Soil samples were collected from the site at ground surface and field tested for chlorides and hydrocarbons (Figure 1). The samples were then submitted to a commercial laboratory for chloride and TPH (GRO/DRO) analyses (Appendix B). Laboratory readings returned with high chloride and TPH results across the release area except in the overspray area for points 6-8.

The affected areas of the release on the lease pad were scraped down six inches and field tested for chlorides and hydrocarbons. The areas with elevated chloride readings in the pasture were excavated to 4 ft bgs. The area between the North Pasture Dig and the South Pasture Dig was not excavated due to a poly line that extruded from beneath the lease pad and flowed to the west. The excavated areas were field tested for chloride and hydrocarbons. Representative samples from the lease pad scrape and the excavations were taken to a commercial laboratory for analysis of chlorides (Appendix C). All the chloride laboratory results returned numbers less than 250 mg/kg.

The site was backfilled with clean, imported soil and contoured to the surrounding location. Photo documentation of these activities can be found in Appendix D.

Conclusion

Given that there is no groundwater located beneath the site and that the areas affected by the release have been excavated to NMOCD standards, Apache submits the final C-141 (Appendix E) 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 call 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 – Surface Sampling Data

Figure 2 – Excavation Diagram

Appendix A – Initial C-141

Appendix B – Initial Laboratory Analyses

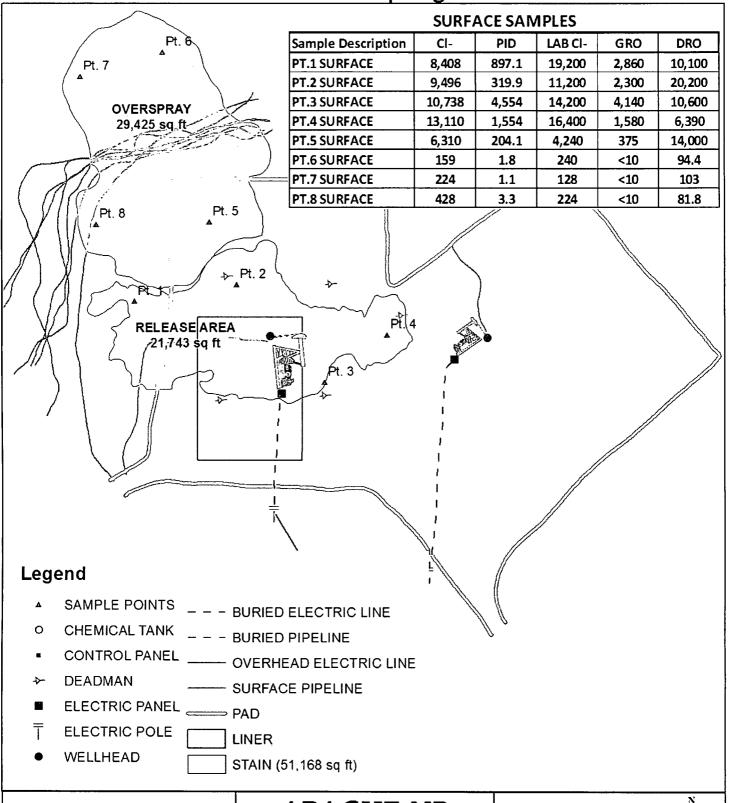
Appendix C – Final Laboratory Analyses

Appendix D – Photo Documentation

Appendix E – Final C-141



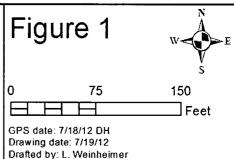
Surface Sampling Data

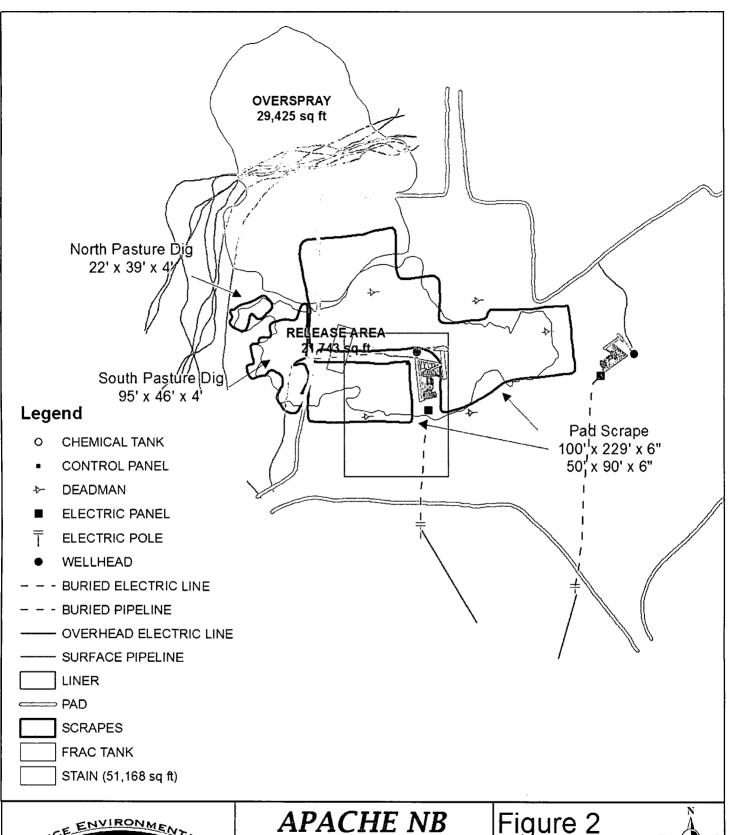




APACHE NB TWEEN ST. #025 AD

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

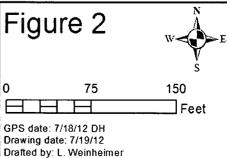






APACHE NE TWEEN ST. #025 AD

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



Appendix A Initial C-141

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

<u>District I</u> 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

RECEIVED

Form C-141

MAR 26 2013

Submit 2 Oppies to appropriate
District Office in accordance
NMOCD ARTES!A In Rule 116 on back
side of form

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		Eunice, NA	M 88231				lo. 575-390-41					
Facility Nat	ne NB Tw	eeu #25				Facility Typ	e Production V	Vell				
Surface Ow	ner Unkno	own		Mineral O	wner S	State			Lease 1	No. 30-015	-3907	5
			·····			OF REI	EASE					
Unit Letter	Section	Township	Range	Feet from the	North/	South Line	Feet from the	East/\	West Line	County		
<u>c</u>	25	17S	28E	990'	FNL		2120'	FWL		Eddy		
			La	titude		_ Longitud	e					
		•		NAT	URE	OF RELI	EASE					
		Produced Wa	ater			Volume of	Release 80			Recovered 6		
Source of Re	lease Flow	back				Date and H 07/18/12	our of Occurrence	c	Date and 07/18/12	Hour of Dis	covery	
Was Immedi	ate Notice C		Yes [No 🗍 Noi Re	quired	If YES, To Mike Brate			1 0.7.10.12			
By Whom? N							our 07/19/12					
Was a Water	course Reac		Yes [∑) No		If YES, Vo	lume Impacting t	the Wat	ercourse.			
If a Watercou	irse was Im	pacted, Deser	ibe Fully.	ŧ		1						
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Well flowed	back during	a work-over	procedure	to pull stuck tubir	ng.							,
Describe Are	a Affected a	nd Cleanup A	Action Tak	cen.*								
Once the pull	ling unit mo	ves off of the	location,	remediation will b	egin. Si	ite will be ren	nediated to NMO	CD Sta	ndard.			
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regulations al public health should their o	I operators a or the envir operations ha nment. In ac	are required to onment. The ave failed to a Idition, NMO	report an acceptance dequately CD accep	is true and complet/or file certain re- ce of a C-141 repo- investigate and re- tauce of a C-141 r	clease no rt by the emediate	otifications ar NMOCD ma contamination	d perform correct trked as "Final R on that pose a three the operator of a	ctive act eport" d eat to gr respons	ions for rel loes not rel round wate ibility for e	cases which leve the oper r, surface wa ompliance w	may curator of ater, but with any	idanger Tiability man health
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Printed Name	: Natakic G	ladden			/	Approved by	District Supervis	or: Sign	ed By	Nils &	5 KAGO	Messe_
Title: Sr. Env	vironmental	Tech			- 1	Al Approval Dat	2K N 8'201	3	Expiration	Date:		
E-mail Addre	ss: natalie.g	laddeu@apac	ћесогр.со	en)		Conditions of	Approval:				p	
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PROPOSAL NO LATER THAN:



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



July 25, 2012

NATALIE GLADDEN

APACHE - EUNICE

P. O. BOX 1849

EUNICE, NM 88231

RE: N B TWEEN #025 AD

Enclosed are the results of analyses for samples received by the laboratory on 07/20/12 13:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited certif.html.

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.

Celeg D. Keine

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: Reported: 07/20/2012

07/25/2012

N B TWEEN #025 AD

Project Name: Project Number:

Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date:

07/18/2012

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: PT. 1 SURFACE (H201679-01)

ma/k

Analyzed By: AP

	97	9	, , , , , , , , , , , , , , , , , , , ,						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	19200	16.0	07/24/2012	ND	416	104	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	2860	50.0	07/24/2012	ND	169	84.4	200	11.8	
DRO >C10-C28	10100	50.0	07/24/2012	ND	178	89.2	200	11.0	

Surrogate: 1-Chlorooctane

111 %

65.2-140

Surrogate: 1-Chlorooctadecane

85.7 %

63.6-154

Sample ID: PT. 2 SURFACE (H201679-02)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11200	16.0	07/24/2012	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	2300	50.0	07/24/2012	ND	169	84.4	200	11.8	
			07/24/2012	ND	178	89.2	200	11.0	

Surrogate: 1-Chlorooctane

166 %

65.2-140

Surrogate: 1-Chlorooctadecane

270 %

63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

Received: Reported: 07/20/2012

07/25/2012

Project Name:

N B TWEEN #025 AD

Project Number: Project Location: NONE GIVEN

151%

63.6-154

NOT GIVEN

Sampling Date:

07/18/2012

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: PT. 3 SURFACE (H201679-03)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14200	16.0	07/24/2012	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	4140	50.0	07/24/2012	ND	169	84.4	200	11.8	
DRO >C10-C28	10600	50.0	07/24/2012	ND	178	89.2	200	11.0	
Surrogate: 1-Chlorooctane	278	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	185	% 63.6-15	4					Ĺ	

Sample ID: PT. 4 SURFACE (H201679-04)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16400	16.0	07/24/2012	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1580	50.0	07/24/2012	ND	169	84.4	200	11.8	
DRO >C10-C28	6390	50.0	07/24/2012	ND	178	89.2	200	11.0	
Surrogate: 1-Chlorooctane	187	% 65.2-14	0						

Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

Received:

07/20/2012

Sampling Date:

07/18/2012

Reported:

07/25/2012

Sampling Type:

Soil

Project Name:

N B TWEEN #025 AD

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: PT. 5 SURFACE (H201679-05)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4240	16.0	07/24/2012	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	375	50.0	07/24/2012	ND	169	84.4	200	11.8	
DRO >C10-C28	14000	50.0	07/24/2012	ND	178	89.2	200	11.0	

Surrogate: 1-Chlorooctane

176%

65.2-140

Surrogate: 1-Chlorooctadecane

232 %

107 %

63.6-154

63.6-154

Sample ID: PT. 6 SURFACE (H201679-06)

Chloride, SM4500Cl-8	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	07/24/2012	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	07/24/2012	ND	169	84.4	200	11.8	
DRO >C10-C28	94.4	10.0	07/24/2012	ND	178	89.2	200	11.0	
DRO >C10-C28 Surrogate: 1-Chlorooctane	94.4			ND	178	89.2	200	11.0	

Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

*=Accredited Analyte

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Celeg & Keene

Celey D. Keene, Lab Director/Quality Manager

Page 4 of 7



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

Received:

07/20/2012

Reported:

07/25/2012

Project Name: Project Number: N B TWEEN #025 AD

Project Location:

NONE GIVEN NOT GIVEN

Sampling Date:

07/18/2012

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: PT. 7 SURFACE (H201679-07)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	07/24/2012	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	07/24/2012	ND	169	84.4	200	11.8	
DRO >C10-C28	103	10.0	07/24/2012	ND	178	89.2	200	11.0	

Surrogate: 1-Chlorooctane

85.3 %

65.2-140

Surrogate: 1-Chlorooctadecane

111 %

63.6-154

Sample ID: PT. 8 SURFACE (H201679-08)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	07/24/2012	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS		=1			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/24/2012	ND	169	84.4	200	11.8	
DRO >C10-C28	81.8	10.0	07/24/2012	ND	178	89.2	200	11.0	

Surrogate: I-Chlorooctadecane

113 %

63.6-154

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*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



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	Apache			<u>;</u>	B	ILL TO	agrada ar agrada					ANAI	YSIS	REC	UES	T		
Project Manager	· Natelie Eladden			Р	.O. #:													
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City:	State:	Zip:		Α	ttn:							6						
Phone #:	Fax #:			Α	ddress:							7						1
Project #:	Project Owner	r:		c	ity:	<u> </u>		.,	Σ		エ	1/8			1			1
Project Name:	VB Thren #025 12.	<u> P</u>		s	tate:	Zip:		Chlorides	TPH 8015	×	Texas TPH	Cations/Anions						1 1
Project Location				Р	hone #:			٠Ĕ١	ò	Ш	·S	aţi	TDS					1 1
Sampler Name:	Daksten Horris			F	ax #:			륃	$\frac{\omega}{\tau}$	BTEX	Xa		F			j	- 1	
FOR ÇAB USE OŅLY			MAT	RIX	PRESERV	SAMPLING	3	\overline{O}	<u>a</u>		Ге	e e						
Lab I.D. H201679	Sample I.D.	(G)RAB OR (C)OMP	GROUNDWATER WASTEWATER SOIL	OIL SLUDGE	ACID/BASE: ICE / COOL OTHER:	DATE	TIME		Ĺ		•	Complete						
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analyses. All claims, includin service. In na event shall Co affiliates or successors arisin	d Damages. Cardinal's liability and client's exclusive remedy for a givence for negligence and any other cause whatsoever shall be referable fiable for incidental or consequental damages, including gout of or related to the performance of services hereunder by G	deemed waive pwitnout fimite andinal, regan	ra unless made in ition, business inte alless of whether s	enting and re-	ceived by Cardina of use, or loss of	witnin 30 days after co grafits incurred by clien the above stated reason	mpletion of the t, its subsidiar is or otherwise	e applicati ies >,				L		<u> </u>				
Relinquished By	7.20.12 Time: 07.15	//	red By:		J.n	H F	hone Res ax Result EMARKS	:	☐ Ye	s 🗵	No	Add'l	Fax#:				Se w	
Relinquished By Delivered By:	Date: 7.20-12 Time: 1.335	Receiv	red By:	Sondition	AUC CHEC	-77	email r Zoond											C.X.; S. C.Y.
Sampler - UPS		-42	Cool i	ntact /													cs.com)

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

#26



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



August 23, 2012

NATALIE GLADDEN

APACHE - EUNICE

P. O. BOX 1849

EUNICE, NM 88231

RE: N B TWEEN #025 AD

Enclosed are the results of analyses for samples received by the laboratory on 08/21/12 16:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited certif.html.

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.

Celey D. Keine

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** 394-2425 Fax To:

Received:

08/21/2012

Reported: Project Name:

Chlorida SM4500CL-R

08/23/2012 N B TWEEN #025 AD

Project Number: Project Location: NONE GIVEN

NOT GIVEN

Sampling Date:

08/16/2012

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

Sample Received By:

Jodi Henson

Sample ID: PASTURE DIG NE WALL (H201987-01)

	mg,	rky	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/23/2012	ND	400	100	400	0.00	
Sample ID: PASTURE DIG	•	-							
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	08/23/2012	ND	400	100	400	0.00	
Sample ID: PASTURE DIG	NW WALL (H	201987-03)							
	NW WALL (H	=	Analyze	d By: HM					
•	_	=	Analyze Analyzed	d By: HM Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sample ID: PASTURE DIG Chloride, SM4500CI-B Analyte Chloride	mg.	/kg		· · ·	BS 400	% Recovery	True Value QC	RPD 0,00	Qualifier
Chloride, SM4500CI-B Analyte Chloride	Result	Reporting Limit	Analyzed	Method Blank		•	•		Qualifier
Chloride, SM4500CI-B Analyte Chloride Sample ID: PASTURE DIG	Result	Reporting Limit 16.0 201987-04)	Analyzed 08/23/2012	Method Blank		•	•		Qualifier
Chloride, SM4500CI-B Analyte	Result 64.0	Reporting Limit 16.0 201987-04)	Analyzed 08/23/2012	Method Blank ND		•	•		Qualifier Qualifier
Chloride, SM4500CI-B Analyte Chloride Sample ID: PASTURE DIG Chloride, SM4500CI-B	Result 64.0 N S WALL (H	Reporting Limit 16.0 201987-04)	Analyzed 08/23/2012 Analyze	Method Blank ND d By: HM	400	100	400	0.00	

Analyzed By: HM

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. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received: Reported: 08/21/2012

08/23/2012

N B TWEEN #025 AD

Project Number: Project Location:

Project Name:

NONE GIVEN

Sampling Date:

Sampling Type:

lling Type: So

Sampling Condition: Sample Received By: ** (See Notes)

Jodi Henson

08/21/2012

Sample ID: PAD SCRAPE 5 PT BTTM (H201987-05)

Chloride, SM4500CI-B	M4500Cl-B mg/kg								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/23/2012	ND	400	100	400	0.00	

Cardinal Laboratories *=Accredited Analyte

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Celey & Keene



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene

ARDINAL 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:	Apache Corp.	<u> </u>				.,,		LL TO						ANAL	YSIS	RE	QUES	ST			
Project Manager:	Natalie Gladden				P	.O. #.															
Address:	122 Taylor				С	ompa	any:							ည						- 1	(
City: 14.	obbs State: 1) li	Zip:	882	240	Α	Attn:							Cations/Anions		.				1		
Phone #:	Fax #:				Α	ddre	ss:							٦						1	
Project #:	Project Owner				City:				(n)	Σ		ェ	1/8						1	ı	
Project Name:	MBTween #02	25			s	tate:		Zip:		Chlorides	8015 M	×	ТРН	on	(0						
Project Location:					Р	hone	#:			<u>`</u>	30	BTEX	S	ati	TDS					- 1	
Sampler Name:						ax #:				물	₩ T	В	Texas						1		
FOR LABUSE ONLY				MATRI	X	PRE	SER	SAMPLI	1G	O	ТРН		Te	te						1	
Lab I.D. H 201987	Sample I.D.		# CONTAINERS GROUNDWATER	WASTEWATER SOIL OIL	SLUDGE	ACID/BASE:	ICE / COOL	DATE	TIME					Complete							
	Pasture Did ENVall	B						8-16-12		1				L							
2/	Esture D. N. Wall	6		11				9-80-12		1	,										
3/	antile Diff W Wall	(3) (3) (3)		1/	-	\perp	-	3 22 17			-										
<u> </u>	autore Dig N SWall	07	-	i i	+-+	-	- -	8-21-12	7:31:												
	lud Serspe 5 ft bitM	<u> </u>			++	╂┤		7-21-16	6.64												
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		 	1		1-1-		\top	1													
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analyses, All claims including t service. In no event shall Card	Jaimages. Cardinal's liability and client's exclusive remedy for an tiose for negligence and any other cause whatsoever shall be d rinal be liable for incidental or consequental damages, including out of or related to the performance of services hereunder by Ci	lgemed wa without lin	aived unle nitation, b	ess made in wnti ausiness Interrup	ng and red tions, loss	eved by of use, o	Cardina or loss of	within 30 days after profits incurred by d	completion of the	no applicat iries	ote										

	e or services herebrider by Caronial, regardess of whether such class is have upon any of sic above stated i	reasons of Orientate.
Relinguished By:	Date: Received By:	Phone Result: 🛛 Yes 🔯 No Add'l Phone #:
117 1	Date: Received By:	Fax Result: Yes No Add' Fax #:
KALANTA LIGUIS	Tipe: 12 / MO MA Min	REMARKS:
MAMUSH NUGULT		1/1 = a dice -ocs. Com
Relinquished By:	Date: Received By:	email results Klewisa rice-ecs. com
		notalia aladdan@anashaaarn aam
1	Time:	natalie.gladden@apachecorp.com
		Zconder@rice-ecs.com; Bbaker@rice-ecs.com;
Delivered By: (Circle One)	Sample Condition CHECKED/BY:	
1	Cool Intact (Initials)	hconder@rice-ecs.com; Lweinheimer@rice-ecs.com
Sampler - UPS - Bus - Other:	III = III = IIII = IIII = IIIII	Heolide Whee-ecs.com, Ewelline lime Grice ecs.com
Campier of C Bas Caller.	Tho No No	
	i) - i.j- [] NO [] NO	

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



August 27, 2012

NATALIE GLADDEN

APACHE - EUNICE

P. O. BOX 1849

EUNICE, NM 88231

RE: N B TWEEN #025 AD

Enclosed are the results of analyses for samples received by the laboratory on 08/22/12 16:33.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited certif.html.

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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.

Celeg D. Keine

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:

Chloride, SM4500CI-B

08/22/2012

Reported:

08/27/2012

Project Name:

N B TWEEN #025 AD

Project Number:

NONE GIVEN

mg/kg

Project Location:

NOT GIVEN

Sampling Date:

08/22/2012

Sampling Type:

Soil

Sampling Condition: Sample Received By: ** (See Notes)

Jodi Henson

Sample ID: PAD SCRAPE-E WALL (H202012-01)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/24/2012	ND	416	104	400	0.00	
Sample ID: PAD SCRAPE-S V	VALL (H202	2012-02)							
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/24/2012	ND	416	104	400	0.00	
Sample ID: PAD SCRAPE-N V	WALL (H20	2012-03)							
•	•	2012-03) /kg	Analyze	d By: AP					
•	•	-	Analyze Analyzed	d By: AP Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride, SM4500CI-B Analyte	mg	/kg	······		BS 416	% Recovery	True Value QC 400	RPD 0.00	Qualifier
Chloride, SM4500CI-B Analyte Chloride	Result	Reporting Limit	Analyzed	Method Blank		,	•		Qualifier
Chloride, SM4500CI-B	Result 160 N WALL (I	Reporting Limit	Analyzed 08/24/2012	Method Blank		,	•		Qualifier
Chloride, SM4500CI-B Analyte Chloride Sample ID: PASTURE DIG S	Result 160 N WALL (I	/kg Reporting Limit 16.0 H202012-04)	Analyzed 08/24/2012	Method Blank ND		,	•		Qualifier Qualifier
Chloride, SM4500CI-B Analyte Chloride Sample ID: PASTURE DIG S Chloride, SM4500CI-B	Result 160 N WALL (I	/kg Reporting Limit 16.0 H202012-04) /kg	Analyzed 08/24/2012 Analyze	Method Blank ND d By: AP	416	104	400	0.00	

Analyzed By: AP

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Kune



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

Received:

08/22/2012

Reported:

08/27/2012

Project Name:

N B TWEEN #025 AD

Project Number: Project Location: NONE GIVEN

NOT GIVEN

Sampling Date:

Sampling Type:

Soil

Sampling Condition: Sample Received By: ** (See Notes)

Jodi Henson

08/22/2012

Sample ID: PASTURE DIG S S WALL (H202012-05)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	112	16.0	08/24/2012	ND	416	104	400	0.00			
Sample ID: PASTURE DIG S	-	-									
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD ·	Qualifier		
Chloride	128	16.0	08/24/2012	ND	416	104	400	0.00			
Sample ID: PASTURE DIG S Chloride, SM4500Cl-B	W WALL (-	Analyze	d By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	32.0	16.0	08/24/2012	ND	416	104	400	0.00			
Sample ID: PASTURE DIG S Chloride, SM4500Cl-B	5 PT COM	•	•	d By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	48.0	16.0	08/24/2012	ND	416	104	400	0.00			
Sample ID: PASTURE DIG N 5 PT COMP (H202012-09) Chloride, SM4500CI-B mg/kg Analyzed By: AP											
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	80.0	16.0	08/24/2012	ND	416	104	400	0.00			

Cardinal Laboratories

*=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 SM4500CI-B does not require samples be received at or below 6°C

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

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine



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	Apache Corp.		BILL TO				AN	LYSIS	REQUE	ST		
Project Manage	r: Natalie Gladden		P.O. #:									
Address:	22 Taylor		Company:				2	2				
City:	State: N.M	Zip: \$3240	Attn:				2.	5				
Phone #:	Fax #:		Addréss:			•	2	=		1		
Project#:	Project Owne	r:	City:	"	Σ		(as TPH	5				
Project Name:			State: Zip:	Onlorides	8015	×	TPH jone/					
Project Location			Phone #:		l 유	ВТЕХ	S	TDS		.		
Sampler Name:	KARANJA LEWIS		Fax #:			m	\sim 1					
FOR LABUSE ONLY		MATRIX	PRESERV. SAMPL	ING O	TPH		<u>ا ۾</u>	?				
Lab I.D. H202012.	Sample I.D.	# CONTAINERS # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	ACIDIBASE: ICE / COOI. OTHER:	TIME	 - 		Te					
]	fool Scripe E Wall	9 1/1	8-22-70		1							
2	Pad Service 5 Wall		8-22-12		11					<u> </u>		
- 3	Pad Scrape N Weil	6	2-22-12			.						
4	Pasture Dig 5 NWall		8-22-16							-		
5	Taylore Dig 5 5 Wall			11:26	<u></u>							<u> </u>
<u> </u>	Parture Digs EWall		8-21-12					-				
5	Pasiure Dirk WWAH		8-22-12		/			+				-
	Payture Dia 8 N ster comp		1 1 224	1	1							1
	ractors Vigorio Spi comp			:								
analyses, AB claims includir service, in no event shall C	d Damages. Cardmar's liability and client's exclusive renecy for a githose for negligence and any other cause whatspever shall be ridinal be liable for incidental or consequental damages, includin gignit of or ritated to the performance of services bereinder by G	deemed waved unless made in wrung a pwithout limitation, business interruption	nd received by Cardinal within 30 days at s, loss of use, or loss of profits incurred by	er completion of the applic dient, its subsidiaries	able							
Relinquished By	NIA - 6W5 Tine: 4.33	Received By:	YOUADOO	Phone Result: Fax Result: REMARKS:	□ Yes			I Phone I Fax #:	#:			
Relinquished By	Date:	Received By:		email resi	ults	kl	CW150	2 pice	ereco.c	OM		
	Time:	1		natalie.gla								ĺ
Delivered By:	(Circle One)	Sample Cond	tion CHECKED BY:	Zconder(ecs.co	m;	
	Bus - Other:	Cool Intact Yes TY	ا (Jnitials)	hconder@								

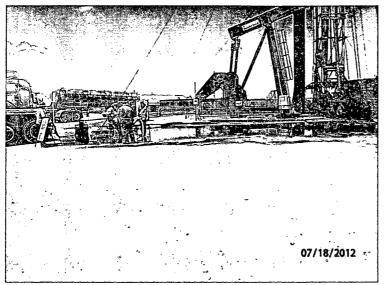
† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

Appendix D
Photo Documentation

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

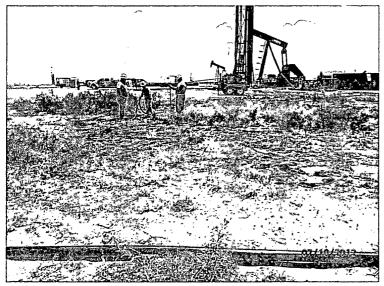
Apache NB Tween State #025 AD

Unit Letter C, Section 25, T17S, R28E



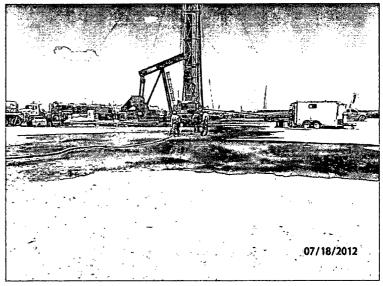
Initial release area, facing west

7/18/12



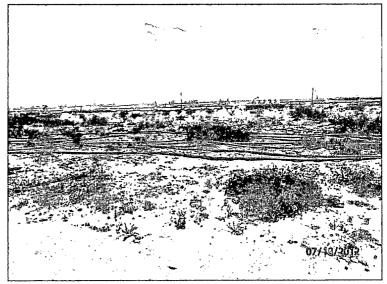
Initial release area, facing east

7/18/12



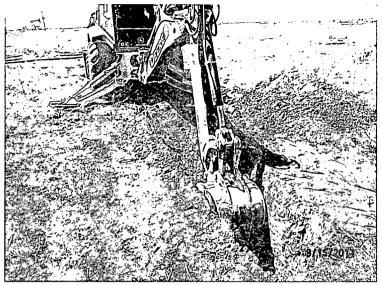
Initial release area, facing west

7/18/12



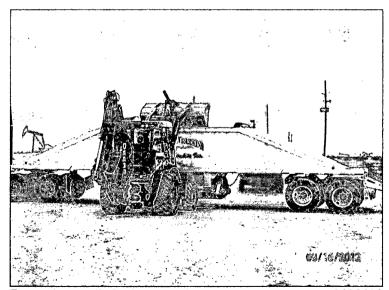
Initial overspray area, facing north

7/18/12



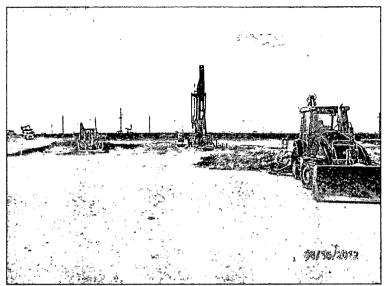
Digging vertical, facing west

8/15/12



Exporting soil, facing south

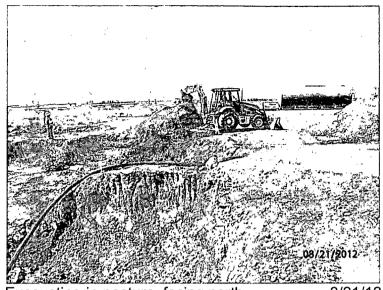
8/16/12

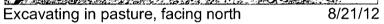


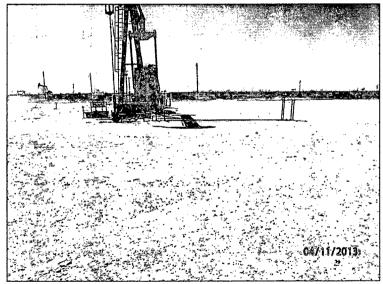
Scraping stained area on pad, facing south 8/16/12

8/17/12

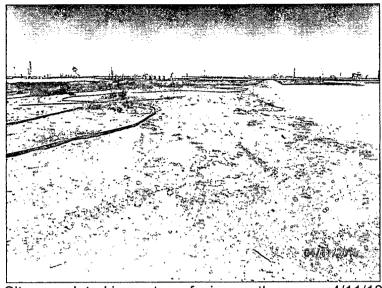
Excavating in pasture, facing east



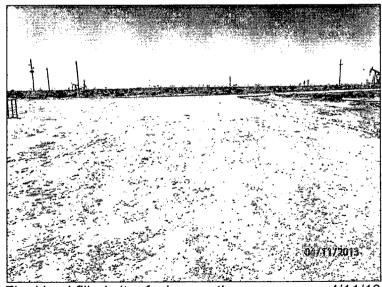




Site completed on pad, facing south 4/11/13



Site completed in pasture, facing north 4/11/13



Final backfilled site, facing south 4/11/13

Appendix E Final 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 Form C-141 Revised October 10, 2003

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

Release Notification and Corrective Action

	OPERA'	nitial Report		al Report					
Name of Company Apache Corporation	Contact Bruce Baker								
Address PO Box 1849, Eunice, NM 88231	Telephone No. (575) 394-1503								
Facility Name NB Tween #25	Facility Type Production Well								
Surface Owner Unknown Mineral Own	ner State		Lease No. 30-015-39075						
LOCAT	ION OF RE	LEASE							
	orth/South Line	Feet from the	East/West Li	ne County					
C 25 17S 28E 990'	FNL	2120'	FWL	Eddy					
Latitude	Longitud	le							
	RE OF REL								
Type of Release Oil and Produced Water		Release 80 barre		ne Recovered					
Source of Release Flowback	Date and F 7/18/12	Hour of Occurrence	ce Date: 7/18/	and Hour of Dis 12	covery				
Was Immediate Notice Given?	If YES, To	Whom?	77107						
Yes No Not Requi	ired Mike Brat	cher							
By Whom? Natalie Gladden	Date and I								
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, V	olume Impacting t	the Watercours	RECE	IVED	7			
If a Watercourse was Impacted, Describe Fully.*				neve	IVLL	_			
if a watercourse was impacted, Describe runy.				SEP 2	5 2013				
Describe Cause of Problem and Remedial Action Taken.* Well flowed back during a work-over procedure to pull stuck tubing.			Ŀ	NMOCD A					
Describe Area Affected and Cleanup Action Taken.* On March 2 been installed prior to the installation of the wellhead to inhibit of the wellhead. Soil samples were collected from the site at g submitted to a commercial laboratory for chloride, BTEX and results across the release area with appreciable BTEX and TPI scraped down one foot until the walls and bottoms of the scrap samples were collected from the excavation walls and compos submitted to a commercial laboratory for chloride analyses. A east scrape which returned a result of 256 mg/kg. All excavate backfilled with clean, imported soil and contoured to the surro	t the downward ground surface a TPH (GRO/DR I readings near sed areas field to ite samples from Il samples returned soil was remounding location	migration of co nd field tested for O) analyses. Lat the wellhead. The ested below 250 in the bottoms of ned results below oved to a NMOO.	nstituents dur or chlorides. aboratory read the affected at mg/kg for ch the excavation w 250 mg/kg CD approved	ing the drilling. The samples we lings returned treas from the relorides. Repreons. These same except for the disposal facility.	g and work- vere then with high c elease were sentative g aples were south wall y. The site	chloride e rab of the			
I hereby certify that the information given above is true and complete regulations all operators are required to report and/or file certain releapublic health or the environment. The acceptance of a C-141 report to should their operations have failed to adequately investigate and remove the environment. In addition, NMOCD acceptance of a C-141 reported federal, state, or local laws and/or regulations.	ase notifications a by the NMOCD mediate contaminat	nd perform correct parked as "Final Rition that pose a thr	ctive actions for eport" does not eat to ground v	r releases which t relieve the oper vater, surface wa	may endang rator of liabi iter, human l	ger ility health			
	OIL CONSERVATION DIVISION								
Signature: Bure Backy									
Printed Name: Bruce Baker	Approved by	District Supervis							
Title: environmental Tech		Approval Date: Ex			Expiration Date:				
E-mail Address: larry. baker @apachecorp.com	Conditions o	f Approval:	Attached	Attached					
Date: 8-30-13 Phone: (575) 394-1503 * Attach Additional Sheets If Necessary					 -				