District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St.. Artesia, NM 88210
2000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

On Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 accordance with 19.15.29 NMAC.

)			Rele	ease Notific	<u> ation</u>	n and Co	orrective A	ction	<u>) </u>						
						OPERA'	TOR		☐ Initi	al Report	\boxtimes	Final Report			
Name of Co	mpany A	pache Corp	oration		1	Contact Br						1			
Address 8				231		Telephone I	No. (575) 394-	2743							
Facility Nar							e Injection We								
· \				1616					ADTAL	20.025.0	2007				
Surface Ow	ner · Milla	rd Deck Est	ates	Mineral C	wner				APING	o. 30-025-2	20907				
				LOCA	TIO	OF RE	LEASE								
Unit Letter	Section	Township	Range	Feet from the			Feet from the	East/\	West Line	County		1			
		-													
<u> </u>	8	218	37E	990		FNL	660	F	EL	Lea					
			La	titude		_ Longitud	le								
				NAT	URE	OF REL	EASE								
Type of Rele	ase Produc	ed Water				Volume of	Release 10 bbls		Volume I	Recovered C	bbls				
Source of Re						Date and H	lour of Occurrenc	e	Date and	Hour of Dis	covery	9-25-13 at			
				· · · · · · · · · · · · · · · · · · ·		2021-0			9:00 am						
Was Immedia	ite Notice C		Vas [No 🛛 Not Re	onired	If YES, To	Whom?								
			165	140 57 1400 140	quuçu										
By Whom? Was a Water	nousean Dance	had?				Date and H	lour Dome Impacting t	h . W/- 4							
was a water	ourse Reac		Yes 🗵	1 No		11 165, 40	nume impaciing i	me wan	ercourse.						
1,						<u> </u>									
If a Watercou	rse was im	pacted, Descri	ibe Fully.	F											
1 ′															
1										DTW = 6	5	J			
Describe Cau								_							
A 90 on the II	ijection line	e had corroded	d and prod	luced water was re	leased.	The line was	shut in and the 9	0 was n	eplaced.						
[
Describe Area	Affected a	and Cleanup A	Action Tak	en.* A total surf	ace area	of 8,161 sq	ft was affected wi	th 1,65	7 sq ft of pa	sture affecte	d. RE	CS personnel			
were on site b	eginning or	n September 2	26 th , 2013,	to assess the site.	Five po	oints through	out the surface of	the rele	ase were sa	impled and f	ield tes	sted for			
Casoline Pan	organic val	ors using a P	meter.	The samples wer n-detect and Diese	e taken I Donge	to a commerc	ial laboratory for	analysi	s and return	ned elevated	chloric	de readings,			
scraped down	3 inches ar	nd a total of 7:	ngs or nor 2 vards of	soil was taken to	a NMO	CD approved	facility for dispos	ow regu sal A s	natury stand	om composi	nure re te of th	e scrane was			
taken to a con	mercial lat	oratory for a	nalysis an	d returned a chlori	de valu	e of 160 mg/k	g, a GRO value o	of non-d	letect and a	DRO value	of 205	mg/kg. A			
Itotal of 36 yar	ds of calich	e and 96 yard	ls of soil v	vas imported to th	e site to	serve as back	cfill. A sample of	f the soi	l was taken	to a comme	ercial la	boratory for			
				tect. The site was	backfill	led with the i	mported material	and con	toured to the	ne surroundi	ng loca	tion. The			
				ive vegetation. is true and compl	ete to th	e hest of my	knowledge and u	ndamtai	ad that nur	uant to MM	000 =	tles and			
				id/or file certain re											
public health	or the envir	onment. The	acceptanc	e of a C-141 repo	rt by the	NMOCD ma	arked as "Final Re	eport" d	loes not reli	eve the oper	ator of	liability			
should their o	their operations have failed to adequately investigate and remed						nediate contamination that pose a threat to ground water, surface water, human health								
							port does not relieve the operator of responsibility for compliance with any other								
rederai, state,	al, state, or local laws and/or regulations.						OIL CONCEDITATION DIVIGION								
	(3					OIL CONSERVATION DIVISION									
Signature:	Buc	e Porhe	1					XLX	KUX)	p JUA	MAI	V >			
					Approved by Environmental Specialist										
Printed Name	Bruce Ba	ker			Approved by Environmental Special										
Title: Enviror	mental Tec	chnician				Annroval Dat	e: 12106/13	, I,	Expiration 1	Date:					
THE ENVIOL	montal 160	Juniorali				Thhroam Dat	U. 1 - 1 - 1 -		скрианоп.	Date.					
E-mail Addres	s: larry.ba	ker@apachec	orp.com			Conditions of	Approval:								
							- -			Attached	, <u> </u>	3-2986			
Date: / 2	<u>~ 5~ -</u>	13		(432)631-6982	l_		····			111/1-	- Y	7 100			
Attach Additi	onal Shee	ts If Necessa	ary												



APACHE CORPORATION

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

WBDU #26

1RP-11-13-2986

Termination Request

Environmental Specialist NMOCO - 0157 1 12/06/13

(2,00

API 30-025-26967

Release Date: September 25th, 2013

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

Rice Environmental Consulting & Safety

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

December 5th, 2013

Geoffrey Leking

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

> RE: Termination Request Apache Corporation – WBDU #26 (1RP-11-13-2986) UL/A sec. 8 T21S R37E API No. 30-025-26967

Mr. Leking:

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

Background and Previous Work

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

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

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

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

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

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

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

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

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

Sincerely,

Lara Weinheimer

Project Scientist

RECS

(575) 441-0431

Attachments:

Figure 1 – Initial Sampling Data

Figure 2 – Excavation Data

Appendix A – Initial C-141

Appendix B – Initial Sampling Lab

Appendix C – 5 Point Composite Sample Lab

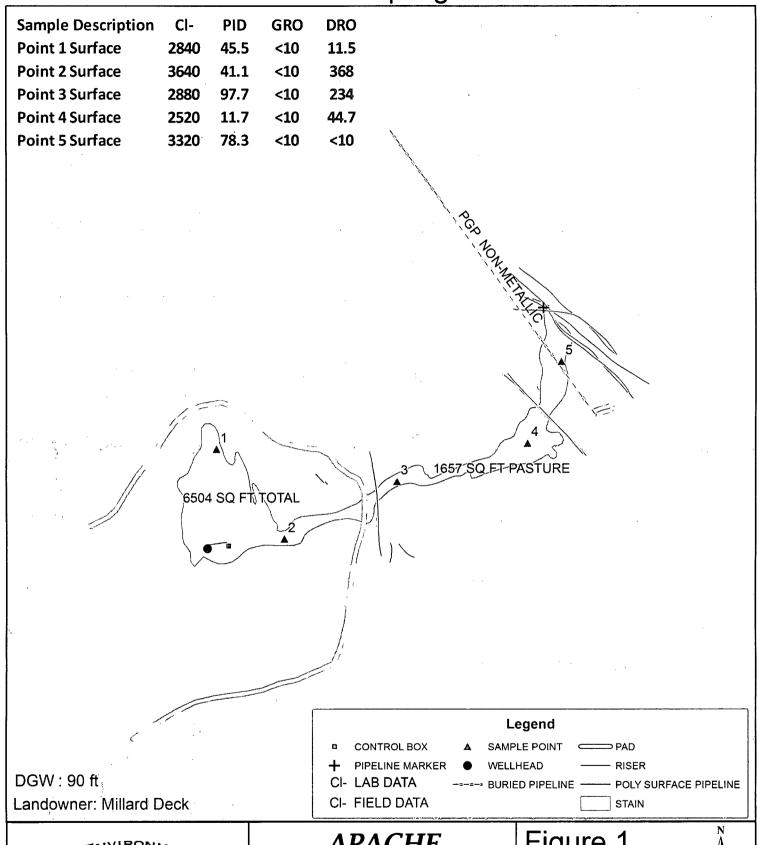
Appendix D – Backfill Lab

Appendix E – Photo Documentation

Appendix F – Final C-141



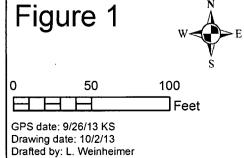
Initial Sampling Data



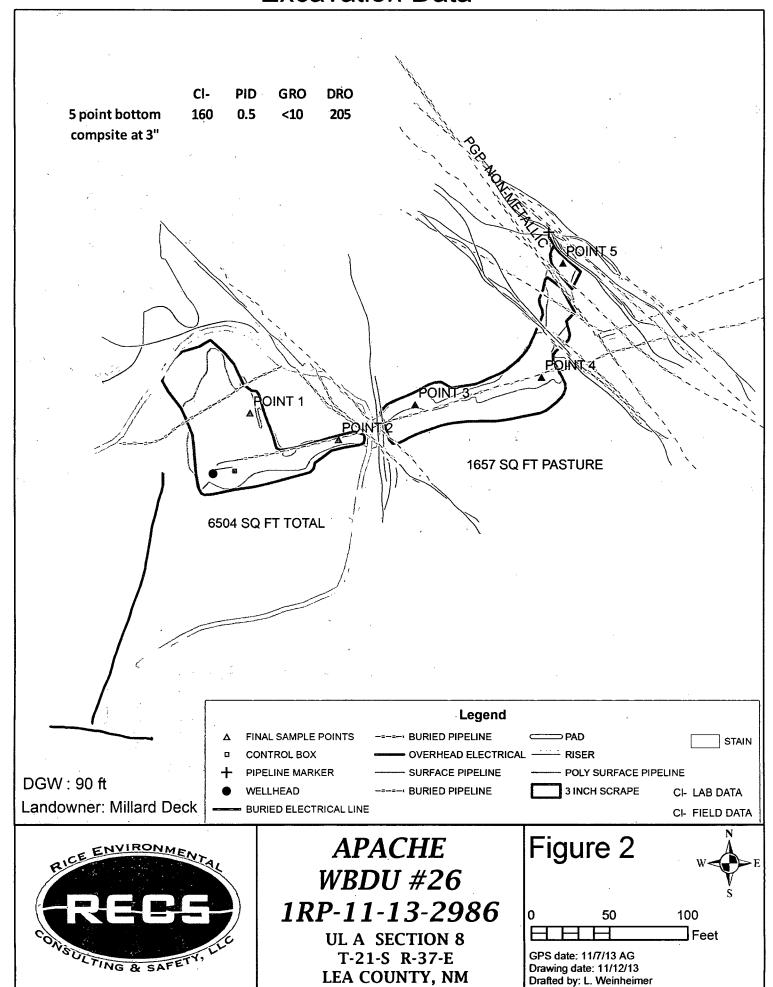


APACHE WBDU #26 1RP-11-13-2986

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



Excavation Data



Appendix A
Initial C-141

Phone 575.393.2967

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

* 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.

			Rele	ease Notifica	ation a	and Co	rrective A	ction	ł				
					C	PERAT	ГOR		M Initia	l Report	П	Final Report	
Name of Co	mpany A	pache Corpo	ration		OPERATOR								
Address 8 I					Te	lephone N	lo. (575) 394-2	743					
Facility Nar	ne WBDU	J # 26					e Injection We						
Surface Ow	ner Millar	d Deck Esta	tes	Mineral Ov	vner				API No	. 30-025-2	:6967		
				LOCAT	ΓΙΟΝ	OF REI	LEASE						
Unit Letter A	Section 8	Township 21S	Range 37E		North/Sc	outh Line VL	Feet from the 660'		Vest Line FEL		County Lea	у	
	<u></u>	-	La	titude		Longitud	e						
				NATU	JRE O	F RELI	EASE						
Type of Relea	se Produce	ed Water					Release 10 BBL	S		ecovered 0			
Source of Rel	lease Inject	ion line	20ml 2 de c			Date and H	our of Occurrenc	e	Date and I 9:00 a.m.	Hour of Disc	overy	9-25-13 at	
Was Immedia	ite Notice G		Yes 🗀	No ⊠ Not Req		If YES, To	Whom?						
By Whom?						Date and H	our						
Was a Watero	ourse Reac		Yes 🛚	No	I	If YES, Vo	lume Impacting t	he Wate	ercourse.				
If a Watercou	rse was Imr	nacted. Descri	be Fully.*	:									
Describe Cau A 90 on the in				n Taken.* uced water was rele	eased. Tl	ne line was	shut in and the 9	0 was re	eplaced.				
commercial la	ace area wa aboratory fo	s 8,161 square r analysis. Tl	e feet with ne affected	1,657 square feet o I arca will be scrape	ed and de	lineated.							
regulations all public health of should their of	operators a or the environerations ha ment. In ad	nre required to onment. The ave failed to a Idition, NMO	report an acceptanc dequately CD accept	is true and complet d/or file certain rele e of a C-141 report investigate and rem lance of a C-141 rep	ease notif by the N rediate co	ications an MOCD ma ontaminatio	d perform correct rked as "Final Re on that pose a thre	tive acti eport" d eat to gr	ons for rele oes not relic ound water,	ases which to eve the operations surface wat	may end ator of l ter, hun	danger liability nan health	
	_	_					OIL CONS	<u>SERV</u>	ATION :	<u>DIVISIO</u>	<u>N</u>		
Signature;	Bruce	Bah	u										
Printed Name	: Bruce Bal	ker			Apı	proved by I	Environmental Sp	ecialist	•				
Title: Enviror	nmental Tec	hnician			Apı	proval Date);	I	Expiration E	ate:			
E-mail Addres	ss: larry.bal	ker@apacheco	orp.com		Coi	nditions of	Approval:			Attached		and the state of t	
Date: 10-14	4-13		Phone:	(432) 631-6982	ı								

Appendix B Initial Sampling Lab



October 02, 2013

BRUCE BAKER

APACHE - EUNICE

P. O. BOX 1849

EUNICE, NM 88231

RE: WBDU #26

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

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

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. Keen

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

Received:

09/26/2013

Sampling Date:

09/26/2013

Reported:

10/02/2013

Sampling Type:

Soil

Project Name:

WBDU #26 NONE GIVEN Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

Project Number: Project Location:

NOT GIVEN

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

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2840	16.0	10/01/2013	ND	400	100	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	09/30/2013	ND	217	108	200	5.63	
DRO >C10-C28	11.5	10.0	09/30/2013	ND	211	106	200	5.36	

Surrogate: 1-Chlorooctane

92.7 %

65.2-140

Surrogate: 1-Chlorooctadecane

95.7%

106%

63.6-154

63.6-154

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

ide, SM4500CI-B mg/kg		71101720	d By: AP					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
3640	16.0	10/01/2013	ND	400	100	400	0.00	
mg	/kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	09/30/2013	ND	217	108	200	5.63	
368	10.0	09/30/2013	ND	211	106	200	5.36	
		, ,						
	3640 mg Result <10.0	3640 16.0 mg/kg Result Reporting Limit <10.0	3640 16.0 10/01/2013 mg/kg Analyze Result Reporting Limit Analyzed <10.0	3640 16.0 10/01/2013 ND mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank <10.0	3640 16.0 10/01/2013 ND 400 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS <10.0	3640 16.0 10/01/2013 ND 400 100 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery <10.0	3640 16.0 10/01/2013 ND 400 100 400 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC <10.0	3640 16.0 10/01/2013 ND 400 100 400 0.00 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD <10.0

Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

*=Accredited Analyte

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Celey D. Keine



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

Received:

Reported:

10/02/2013

Project Name: Project Number: Project Location: WBDU #26 NONE GIVEN NOT GIVEN

09/26/2013

Sampling Date:

09/26/2013

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

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

Chloride, SM4500CI-B	. mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2880	16.0	10/01/2013	ND	400	100	400	0.00	
TPH 8015M	mg	/kg	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	09/30/2013	ND	217	108	200	5.63	
DRO >C10-C28	234	10.0	09/30/2013	ND	211	106	200	5.36	

Surrogate: 1-Chlorooctane

101%

65.2-140

Surrogate: 1-Chlorooctadecane

110%

63.6-154

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

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2520	16.0	10/01/2013	ND	432	108	400	3.77	
ТРН 8015М	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	09/30/2013	ND	217	108	200	5.63	
DRO >C10-C28	44.7	10.0	09/30/2013	ND	211	106	200	5.36	

Surrogate: 1-Chlorooctane

92.2 %

65.2-140

Surrogate: 1-Chlorooctadecane

97.4%

63.6-154

Cardinal Laboratories

*=Accredited Analyte

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 daim 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.

Celeg & Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:

09/26/2013

Reported:

10/02/2013 WBDU #26

Project Name: Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

09/26/2013

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: PT 5 @ SURFACE (H302354-05)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3320	16.0	10/01/2013	ND	432	. 108	400	3.77	
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	09/30/2013	ND	217	108	200	5.63	
DRO >C10-C28	<10.0	10.0	09/30/2013	ND	211	106	200	5.36	
Surrogate: 1-Chlorooctane	95.9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	101	% 63.6-15	4						

Surrogate: 1-Chlorooctadecane 101 % 63.6

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keine



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. Keens

(E)

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

Apache				ILL TO	i galate					ANAI	YSIS	RE	QUE	ST			
Jacob Kamplain			P.O. #:											·	- :		
			Company:							S	· I	,					
State: NM	Zip: 8	38240	Attn:							u		·					
Fax #:		,	Address:			•				Ī				·			
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: WBOU #26			Phone #:			은	õ	É	ST	ətic	SC	·					
Kyle Schnaidt			Fax #:			[음	3	BT	ä	Ö	1				,		
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Sample I.D.	RAB OR (C)	S S S S S S S S S S S S S S S S S S S	OTHER: ACID/BASE: CE / COOL	DATE	TIME		h			Comple						·	
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	Fax #: Project Owner Sample I.D.	State: NM Zip: 8 Fax #: Project Owner: : WBOU # 26 Kyle Schnaidt Sample I.D. point 1@ Surface 6 point 2@ Surface 6 point 4 B Surface 6 point 4 B Surface 6	State: NM Zip: 88240 Fax #: Project Owner: Sample I.D. Sample I.D. Sample I.D. Sample I.D. Point 1@ Surface 6 1 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	State: NM Zip: 88240 Attn: Fax #: Address: Project Owner: City: State: WADD # 26 Phone #: Kyle Schnaidt Fax #: Sample I.D. Point 1@ Surface 6	State: NM Zip: 88240 Attn: Fax #: Project Owner: City: State: Zip: Phone #: Kyle Schnaidt Sample I.D. Sample I.D. Sample I.D. Sample I.D. Sample I.D. Address: Project Owner: State: Zip: Phone #: Fax #: MATRIX PRESERV SAMPL MATRIX PRESERV SAMPL Solution # 1000 # 1	State: NM Zip: 88240 Attn: Fax #: Address: City:	State: NM Zip: 88240 Attn: Address: Project Owner: City: State: Zip: Phone #: Kyle Schnaidt Fax #: Address: Phone #: Fax #: OOD H Z6 Phone #: Fax #: OOD H Z6 Phone #: OOD H Z6 PRESERV SAMPLING OOD H Z6 PRESERV SAMPLING OOD H Z6 OOD OO	State: NM Zip: 88240 Attn:	State: NM Zip: 88240 Attn: Address: Project Owner: City: State: Zip: Phone #: Kyle Schnaidt Fax #: Address: Project Owner: City: State: Zip: Phone #: Kyle Schnaidt Fax #: Address: Phone #: City: State: Zip: Phone #: City: City	State: NM Zip: 88240 Attn: Address: Project Owner: City: State: Zip: Phone #: State: Zip: Phone #: Kyle Schnaidt Fax #: Address: Zip: Phone #: Fax #: Address: Zip: Phone #: Zip: Z	State: NM Zip: 88240 Attn: Fax #: Project Owner: State: Zip: Phone #: Exyle Schnaidt Sample I.D. Sampl	State: NM Zip: 88240 Attn: Address: Project Owner: City: State: Zip: Phone #: Eax #: Phone #: Fax #: Address: City: State: Zip: Phone #: Fax #: Phone #: Fax #: Address: City: State: Zip: Phone #: Fax #: Phone #: Fax #: Address: City: State: Zip: Phone #: Fax #: Phone #: Fax #: Companya	State: NM Zip: 88240 Attn: Fax #: Address: Project Owner: City: State: Zip: Phone #: Fax #: Address: Address: City: State: Zip: Phone #: Fax #: Address: Zip: Phone #: Address: Zip: Phone #: Address: Zip: Phone #: Address: Zip: Phone #: Address: Zip: Zi	State: NM Zip: 88240 Attn: Fax #: Address: City: State: Zip: Phone #:	State: NM Zip: 88240 Attn: State: NM Zip: 88240 Attn: Address: City: State: Zip: Phone #: City: Sepuration Sepurati	State: NM Zip: 88240 State: NM Zip: 88240 Attn: Address: Project Owner: State: Zip: State:	State: NM Zip: 88240 Attn: Fax #: Address: City: State: Zip: Phone #: Fax #: Address: City: City:

PLEASE NOTE: Liability and Damages. Cardinal's liability and clients exclusive remedy for any dalm arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profils incrudently client, its subsidiaries,

Relinquished By:	Date: 4-26-13	Regelved By:	Phone Result: ☐ Yes ☑ No Add'l Phone #: Fax Result: ☐ Yes ☑ No Add'l Fax #:
Kyle Schmidt	Tu: 35	Will Henson	Fax Result: ☐ Yes ☑ No Add'I Fax #: REMARKS:
Relimquished By:	Date:	Received By:	kschnaidt@rice-ecs.com
	Time:		Knorman@rice-ecs.com
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	5.8		Kjones@riceswd.com; jkamplain@rice-ecs.com hconder@rice-ecs.com; Lweinheimer@rice-ecs.com larg baker Qapadecop. com

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

Appendix C 5 Point Composite Sample Lab



October 23, 2013

BRUCE BAKER

APACHE - EUNICE

P. O. BOX 1849

EUNICE, NM 88231

RE: WBDU #26

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

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

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

Received:

10/18/2013

Reported:

10/23/2013

Project Name: Project Number: WBDU #26 NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

10/18/2013

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By: Jodi Henson

Sample ID: 5 PT. COMP @ 3" (H302535-01)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP		···-			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	10/21/2013	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	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	10/22/2013	ND	200	99.9	200	3.36	
DRO >C10-C28	205	10.0	10/22/2013	ND	192	95.9	200	2.97	

Surrogate: 1-Chlorooctane

121 %

65.2-140

Surrogate: 1-Chlorooctadecane

144%

63.6-154

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's hability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by chent 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 lable 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.

Celeg D. 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. Keine

Celey D. Keene, Lab Director/Quality Manager

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	: Anache				10			LL TO				 	7	ANAL	YSIS	SRE	QUE	ST		-	
Project Manage	r: Kyle Norman	·			Р	.O. #															
Address:					С	omp	any:							တ							
City: Hobbs	State: NM	Zip: 8	8240_		A	ttn:				١.		:		O							
Phone #:	Fax #:			•	Α	ddre	55:							'n		ļ					
Project #:	Project Owner	:			С	ity:				۱.,	Σ	·	-	S/A							
Project Name:					s	tate:		Zip:	٠.	<u>6</u>	5		TPH	ü						·	
Project Locatio	n: WBDU 4026				P	hone	#:	•		Chlorides	801	BTEX	S	atic	TDS					, r	
	Kyle Schnaidt				F	ax #:				[음	8	31	Texas	Ö	1			·			
FOR LAB USE ONLY				MATRIX		PRI	ESERV	SAMPL	NG .	ठ	TPH		<u> </u> Θ	ē						;	. '
Lab I.D. H <i>302535</i>	Sample I.D.	(G)RAB OR (C)OMF # CONTAINERS	GROUNDWATER	SOIL	SLUDGE OTHER	ACID/BASE:	ICE / COOL OTHER:	DATE	TIME					Complete Cations/Anions			· ·				
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Relinquished By:	10-4.	egelved By:	Phone Result: ☐ Yes ☑ No Add'l Phone #:
Kyle Schnaidt	Time: 35	Deli Henson	Fax Result: ☐ Yes ☑ No Add'I Fax #: REMARKS:
Relinquished By:	Date: R	ceived By:	kschnaidt@rice-ecs.com
	Time:		Knorman@rice-ecs.com
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Sample Condition CHECKED BY: Cool Intact (Highs) Yes D Yes No No	Kjones@riceswd.com; jkamplain@rice-ecs.com hconder@rice-ecs.com; Lweinheimer@rice-ecs.com is in the a specked to m

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

Appendix D Backfill Lab



November 11, 2013

BRUCE BAKER

APACHE - EUNICE

P. O. BOX 1849

EUNICE, NM 88231

RE: WBDU #26

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

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

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. Keene

Lab Director/Quality Manager



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

Received:

11/07/2013

Reported: Project Name: 11/11/2013 WBDU #26

Project Number:

NONE GIVEN

Project Location:

T21S R37E

Sampling Date:

11/07/2013

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

Sample Received By:

Celey D. Keene

Sample ID: BACKFILL (H302728-01)

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

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's kiability 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



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 LABORATO

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603

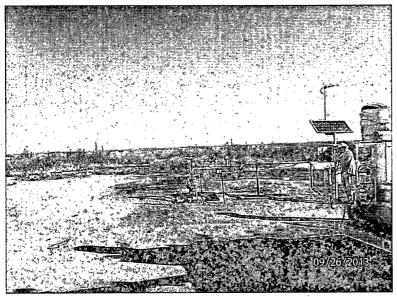
(505) 393-2326 FAX (505) 393-2476 (325) 673-7001								
Company Name: 2000	8/44 70	ANALYSIS REQUEST						
Project Manager: Brice Baker	P.O. #:							
Address: Lary, baker @ a packer by p. Com	Company:	$\frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}$						
City: Hobbs State: NM Zip: 88240	Attn:							
Phone #: Fax #:	Address:	Horides H 8015 M BTEX Kas TPH Cations/Anions TDS						
Project #: Project Owner:	City:							
Project Name: WBUL#26	State: Zip:	1월 5 × 도 원 '						
Project Location: TO 15 C373	Phone #:	Chlorides TPH 8015 N BTEX Texas TPH ste Cations/ TDS						
Sampler Name: PMD V GWV S	Fax #:							
FOR LAB USE ONLY MATRIX	PRESERV SAMPLING							
(C)OMP ERS ATER ER								
Lab I.D. Sample I.D.	ا ا ا							
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PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in con-	ract or tori, shall be limited to the amount paid by the client in	or the						
analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruption efficiency or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such of	ms⊿coss of use, or loss of profits incurred by cliem, its subsid	Nanes.						
Reninguished By Pate Repetited By	/ Phone R	esult: 🗆 Yes 🖾 No Add'l Phone #:						
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Time:	knorm							
Delivered By: (Circle One) Sample Con	dition CHECKED BY: L DONG	nheimer@rice-ecs.com; kjones@riceswd.com; a@riceswd.com; sedwards@rice-ecs.com						
Sampler - UPS - Bus - Other:	Yes (Initially) agrov	res@rice-ecs.com						

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

Appendix E Photo Documentation

Apache WBDU #26

Unit Letter A, Section 8, T21S, R37E



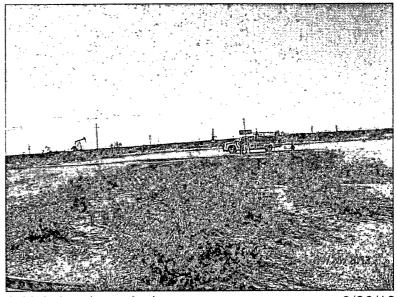
Initial site photo, facing north

9/26/13



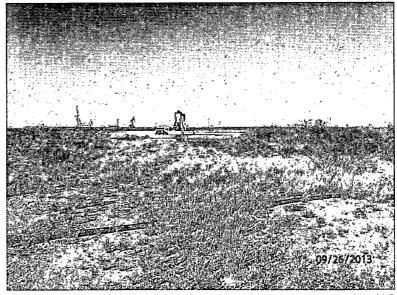
Initial site photo, facing east

9/26/13



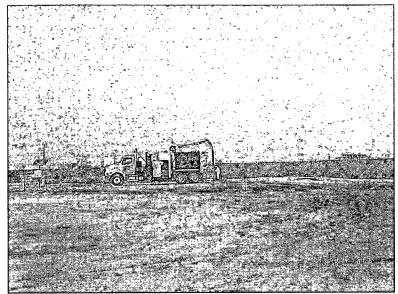
Initial site photo, facing west

9/26/13



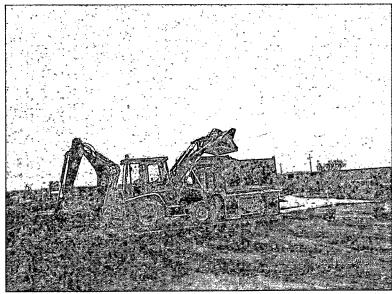
Initial site photo, facing southwest

9/26/13



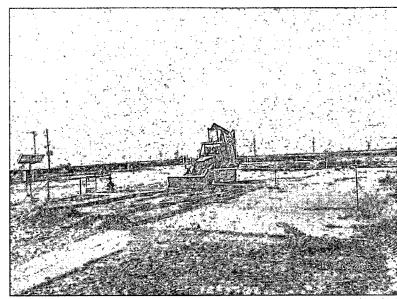
Line spot using hydrovac, facing north





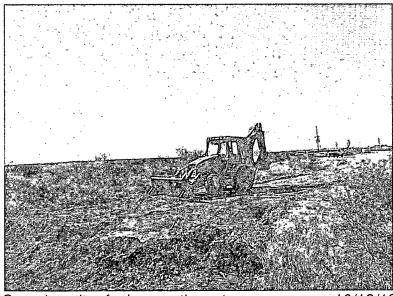
Exporting soil, facing east

10/18/13



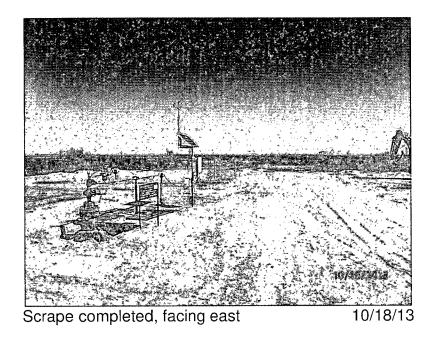
Scraping site, facing northeast

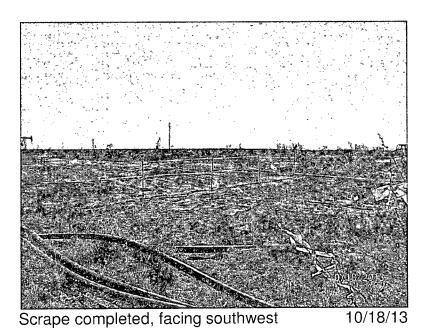
10/18/13

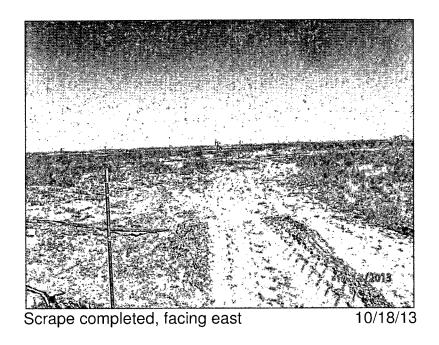


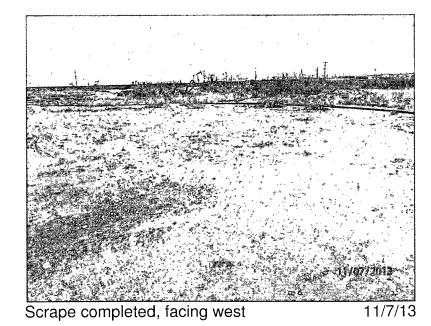
Scraping site, facing southwest

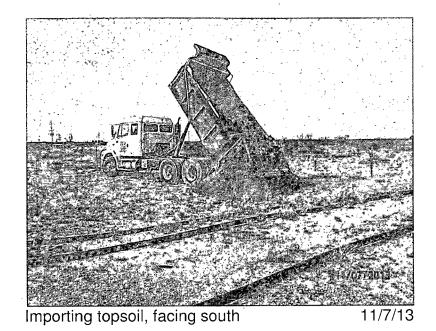
10/18/13



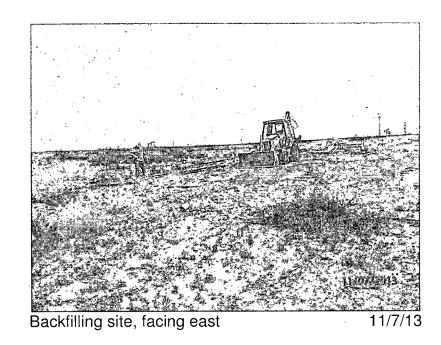


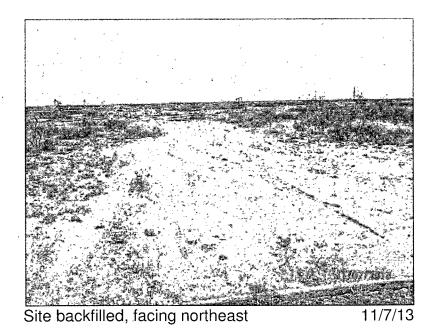




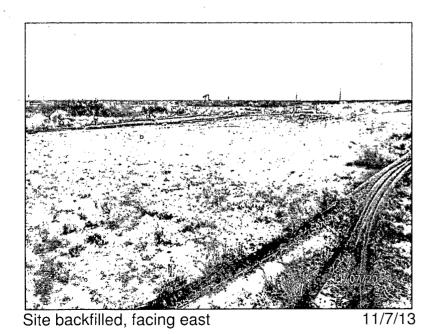


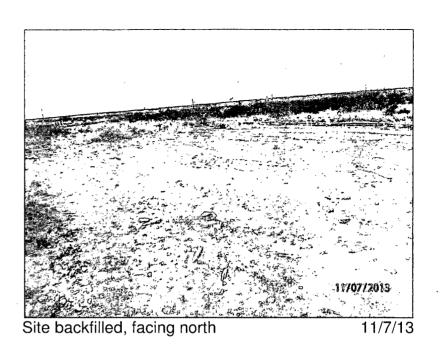


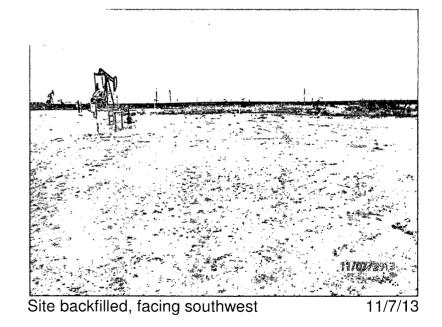


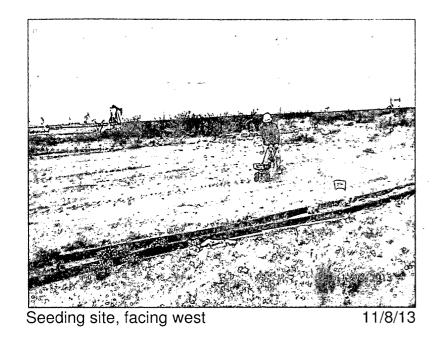


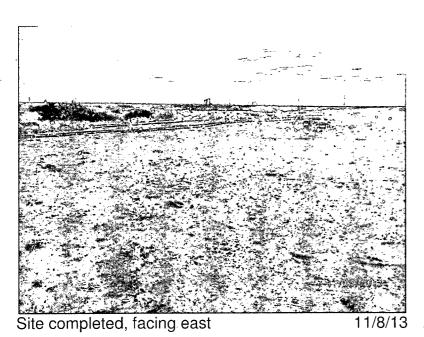


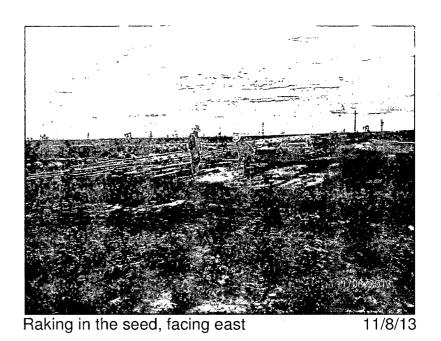


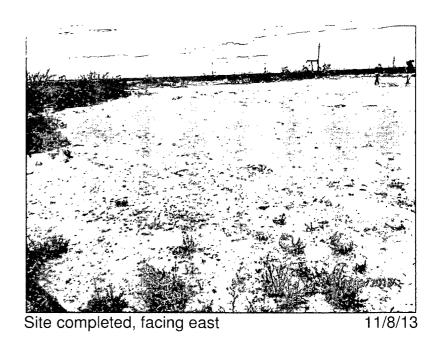












Appendix F

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District II
1000 Rio Brazos Road, Aztec, NM 87410

District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

ttach Additional Sheets If Necessary

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

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

accordance with 19.15.29 NMAC.

Santa Fe, NM 87505

			Rele	ease Notific	cation	and Co	rrective A	ction	1				
·					OPERA'	FOR		Initi	al Report	\boxtimes	Final Report		
Name of Company Apache Corporation					Contact Bruce Baker								
					Telephone No. (575) 394-2743								
Facility Name WBDU #26					Facility Type Injection Well								
Surface Owner Millard Deck Estates Mineral Owner								API No	o. 30-025-2	26967			
				LOCA	ATION	OF RE	LEASE						
Unit Letter	Section	Township	Range	Feet from the	North/	orth/South Line Feet from the East/West Line County				County	y		
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				NAT	URE	OF REL	EASE						
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Source of Re	lease Inject	tion line				Date and H	lour of Occurrence	e	Date and 9:00 am	Hour of Dis	covery	9-25-13 at	
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			Yes _	No 🛛 Not Re	equired	<u> </u>							
By Whom? Was a Water	course Done	had?				Date and H		the Wet	orconece				
was a waiti	course neac		Yes 🛚	No		If YES, Volume Impacting the Watercourse.							
If a Watercon	irse was Im	pacted, Descri	be Fully.*	F		I		-					
Describe Cau A 90 on the in				n Taken.* uced water was re	eleased.	The line was	shut in and the 9	0 was r	eplaced.	DIM:	2 03		
were on site the chlorides and Gasoline Ran scraped down taken to a cortotal of 36 yas analysis and a pasture area of I hereby certifications all public health-should their of or the environ	organic varions or organic varies of calich actions of calich vas then see fy that the independent of the environment. In actions hat the independent, In actions hat the independent, In actions hat the environs hat the environs hat the independent.	an September 2 pors using a P. s (GRO) reading a total of 72 poratory for an early 69 yard hloride result odded with a ble information gives required to comment. The ave failed to a	6th, 2013, ID meter. ngs of nor 2 yards of nallysis and s of soil vof non-detend of nativen above a report an acceptance dequately CD accept	en.* A total surt to assess the site. The samples were detect and Diese soil was taken to directurned a chlorivas imported to the ect. The site was ve vegetation. is true and complete of a C-141 repoinvestigate and relance of a C-141 repointed.	Five poet taken to be taken to be a NMOC dide value e site to backfill lete to the clease nort by the emediate	oints throught to a commerce Organics (D) CD approved to of 160 mg/k serve as back ed with the in- the best of my stifications ar NMOCD ma	out the surface of ial laboratory for RO) readings belofacility for disposed, a GRO value of the fill. A sample of apported material knowledge and u derform correctived as "Final Room that pose a three the operator of real laborator of real labor	the relet analysis ow regularly sal. A 5 of non-defined fithe soil and connucreative active a	ase were sa s and return latory stand 5 point botto letect and a I was taken toured to the ad that purs ions for rela- loes not reli- round water ibility for co-	ampled and fined elevated dards. The elevated DRO value to a comme to surrounding the surround	rield tes chlorid intire re te of the of 205 creial lal ing locat OCD ru may en- ator of ter, hun	ted for le readings, lease was e scrape was mg/kg. A boratory for tion. The les and danger liability nan health	
Signature: Bruce Baker A					OIL CONSERVATION DIVISION Approved by Environmental Specialist								
Timed Traine, Drace Daker					2 (2) 1/2								
Title: Enviror			-					<u>, 1)</u>	Expiration 1	Date:			
	ss: larry.bal	ker@apacheco		(432)631 6082	$ $ $^{\circ}$	Conditions of	Approval:			Attached	V	3-2986	