<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District II
1301 W. Grand Avenue, Artesia, NM 88210 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

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

HOBBS OCD

Form C-141 Revised October 10, 2003

MAY 0 8 20\$2bmit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

RECEIVED

			Rel	ease Notific	atio	n and Co	orrective A	ction				
						<b>OPERA</b>	ГOR		] Initi	al Report	$\boxtimes$	Final Report
Name of Co		Apache (				Contact	Natalie Glac					
Address		ox 1849, Ει	ınice, NN	1, 88231		Telephone 1		90-4186				
Facility Na	me NI	EDU #606		<del></del>		Facility Typ	be Injection	Well				
Surface Ow	ner De	eck Estate		Mineral C	wner	State of NA	1		Lease 1	No. 30-025	-06587	7
				LOCA	ATIO	N OF RE	LEASE					
Unit Letter	Section	Township	Range	Feet from the		n/South Line	Feet from the	East/We	st Line	County		
F	15	21S	37E	3375	FSL		3225	FEL		Lea		
	·	· <del>L </del>		itude	L	Longitu		· · · · · · · · · · · · · · · · · · ·		<u> </u>		
			Ца				-	<del></del>				
Type of Rele	Dros	luced Water		NAI	UKE	OF REL	Release 15 bbl	1	Zaluma I	Recovered	10 hb1	
Source of Re		ection line lea	k				Hour of Occurrence			Hour of Dis		
						01/21/12			1/21/12			
Was Immedi	ate Notice (		l Vac N	No 🗌 Not Re	الم مناسم ط	If YES, To Geoffrey L						
D Wit 0	21 . 1		1 tes 🔼	1 140   1401 Kg	quired			2.57				
By Whom? Was a Water		Gladden ched?				Date and H	Hour 01/23/12 olume Impacting t		ourse			· · · · · · · · · · · · · · · · · · ·
Was a Water	course rea		Yes 🗵	No		11 1 25, 11	statile impacting t	the watere	ourse.			
If a Watercon	urse was Im	pacted, Descr	ibe Fully.	*								<del></del>
		, , , , , , , , , , , , , , , , , , , ,										
Describe Car	ise of Probl	em and Reme	dial Actio	n Taken *				<del> </del>				
				, 15 bbls of produ	ced wa	ter was release	ed and 10 bbls of	produced v	vater wa	s recovered	. Site w	vas back-
		ng fluid was p		•				•				
Describe Are	Δ ffected	and Cleanup	Action Ta	cen *					<del></del>			
The leak affe	cted the cal	liche pad surro	ounding th	e wellhead. The v	well wa	as repaired and	I returned to work	ing order.	Impacte	ed soils were	e remov	ed to a
				ative soil samples				d sent to a	commer	cial laborate	ory for o	chloride and
				ith clean caliche a				inderstand	that pur	Fugnt to NM	IOCD #	ules and
				nd/or file certain r								
public health	or the envi	ronment. The	acceptan	ce of a C-141 repo	ort by tl	he NMOCD m	arked as "Final R	eport" doe	s not rel	ieve the ope	rator of	fliability
				investigate and restance of a C-141								
		ws and/or regi		nance of a C-1+1	героп	does not renev	the operator of	responsion	11ty 101 C	omphanee v	vitii aiiy	y Other
		. ,	$\overline{\bigcirc}$				OIL CON	SERVA	TION	DIVISIO	NÇ	
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Signature.		Munic		Macco		Approved by	District Supervise			en all	Ma Ac	ሻ
Printed Nam	e: Natali	e Gladden				- ipproved by	District Supervis	Enviror	umerita	1 Speciali	st	<u> </u>
Title: EH	&S Environ	mental Tech					te: 5/8/12			Date: ~		
E-mail Add-	acc: Not-	olio aladdan 🔾	onochoo	m 00m			•					
E-mail Addre	1 1	alie.gladden@	араспесот	p.com		Conditions o	ı Approvai:	-		Attached		
Date:	19/10	<u> </u>	Phone	: (575) 390-4186						IRP-0	6-14	1-3074



HOBBS OCD

MAY 08 2012

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### **APACHE CORPORATION**

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

approved

Environmental Specialist 518112

### NEDU #606

### Closure Report

API 30-025-06587

Release Date: January 21, 2012

Unit Letter F, Section 15, Township 21S, Range 37E

### Rice Environmental Consulting & Safety

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

May 8, 2012

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 – NEDU #606 AD UL/F sec. 15 T21S R37E API No. 30-025-06587

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 produced water associated with the NEDU #606. The injection well leaked, releasing fluid onto the caliche pad surrounding the well head. An initial form C-141 was submitted by Apache Corporation on January 24, 2012 (Appendix A). The site is located north of Eunice, in unit letter 'F' of section 15, T21S, R37E in Lea County, New Mexico.

On January 23, 2012, RECS personnel initiated work on the NEDU #606 (Figure 1). Surface soil samples were collected and field tested for chloride. Headspace measurements were also taken in the field using a Photo Ionization Detector (PID). The samples were submitted to a commercial laboratory for chloride and TPH (GRO/DRO) analyses (Appendix C). Chloride ranged from 512 ppm (parts per million or mg/kg) to 1,490 ppm. TPH ranged from 10 ppm to 69.5 ppm.

On March 19, 2012, RECS personnel collected and field tested final samples from the 1.5 ft. deep excavation (Figure 2). The representative grab samples from the excavation walls and the composite sample from the excavation bottom were submitted to a laboratory for chloride and TPH analyses (Appendix C). Chloride did not exceed 96.0 ppm and TPH did not exceed 135 ppm.

Impacted soils were removed from the excavation and transported to a NMOCD approved disposal facility. The excavation was backfilled with clean caliche (80 ppm chloride, Appendix C) and leveled. See Appendix B for photographs of field activities.

### Conclusion

According to the New Mexico Office of the State Engineer and the United States Geological Survey (USGS), depth to groundwater in the area approximated 54 ft bgs (Appendix D). Due to the removal of impacted soils relative to necessary groundwater depth, 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 Natalie Gladden (575) 390-4186 if you have any questions or comments.

Sincerely,

Bruce Baker Head Foreman

Bruce Baden

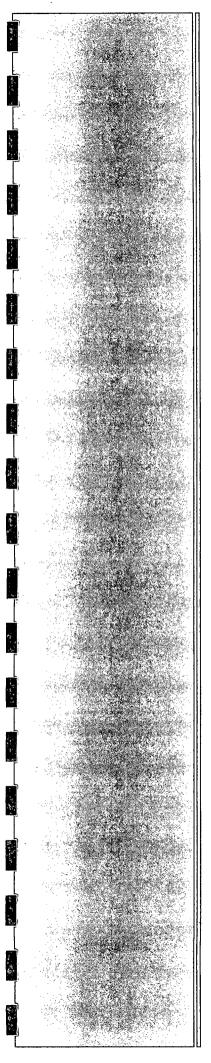
**RECS** 

(575) 631-5157

#### Attachments:

Figure 1: Site Plat with Initial Sampling Lab Data
Figure 2: Site Plat with Final Excavation Lab Data

Appendix A: Initial Form C-141
Appendix B: Site Photographs
Appendix C: Laboratory Results
Appendix D: Groundwater Study
Appendix E: Final Form C-141



## Figures

RICE Environmental Consulting and Safety (RECS)
P.O. Box 5630 Hobbs, NM 88241

Phone 575.393.4411 Fax 575.393.0293

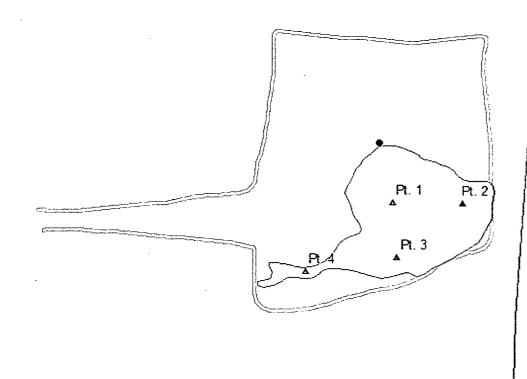
### Site Plat

#### **INITIAL LAB DATA** Sample Description CI-**GRO DRO** Pt. 1 36.2 512 <10 Pt. 2 1490 <10 69.5 Pt. 3 544 <10 10

1170

10.2

13.1



LEASE RO

### Legend

- SAMPLE POINTS
- WELLHEAD

Pt. 4

STAIN (3,679 sq ft)

==== WELL PAD

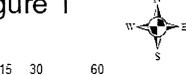
DGW = 54 ft



### APACHE NEDU #606 AD

LEGALS: UL/F sec. 15 T-21-S R-37-E LEA COUNTY, NM

### Figure 1



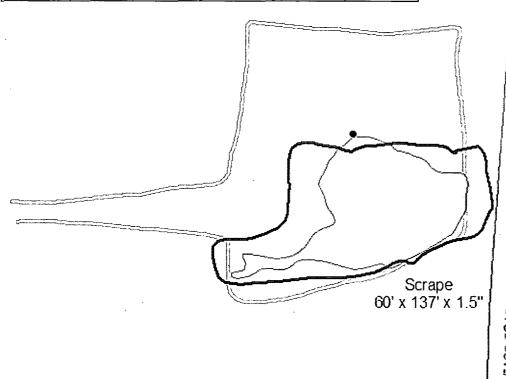
0 15 30 60 Feet

GFS date: 1/23/12 DK Drawing date: 3/20/12 Drafted by: L. Weinheimer

### Site Plat

### FINAL EXCAVATION LAB DATA

Sample Description	CI-	GRO	DRO
North Wall Center	<16	<10	<10
South Wall Center	96	<10	<10
East Wall Center	80	<10	<10
West Wall Center	32	<10	135
5 Pt Bottom	80	<10	<10



### Legend

WELLHEAD

SCRAPE

STAIN (3,679 sq ft)

TWELL PAD

DGW = 54 ft



### APACHE NEDU #606 AD

LEGALS: UL/F sec. 15 T-21-S R-37-E LEA COUNTY, NM

### Figure 2



0 15 30 60 Fee

GFS date: 1/22/12 DK Drawing date: 2/20/12 Draffed by: L. Weinheimer Appendix A
Initial Form C-141

P.O. Box 5630 Hobbs, NM 88241 Phone 575.393.4411 Fax 575.393.0293 District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

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 Notifi	catio	n and Co	rrective A	ction	,	****	
•						<b>OPERA</b>	<b>FOR</b>	🛛 Ini	tial Report		Final Report
		pache Corpo					talie Gladden				
		9 Eunice, NI	M 88231				No. 575-390-41				
Facility Na	me NEDU	J 606				Facility Typ	e Injection wel	1			
Surface Ow	ner Deck			Mineral (	Owner	State of NM		API N	Io. 30-025-	06587	
				LOC	ATIO	N OF REI	LEASE				
Unit Letter	Section	Township	Range	Feet from the	North	/South Line	Feet from the	East/West Line	County		
F	15	21S	37E	3375'	FSL		3225'	FEL	Lea		
			· La	titude		Longitud	le				
				NA	<b>TURE</b>	OF REL	EASE				
Type of Rele	ase Produc	ced water				Volume of	Release 15	Volume	Recovered	10	
Source of Re	elease Injec	tion line leak				Date and F 01/21/12	Iour of Occurrenc 5:40am		d Hour of Di 2 6:40am	scovery	,
Was Immedi	ate Notice (					If YES, To			- 0.10an		,
			Yes 🗵	No 🗌 Not R	Required	Geoffrey L	eaking				
By Whom?							Iour 01/23/12 3:5				
Was a Water	course Rea		Yes 🛭	l No		If YES, Vo	olume Impacting t	he Watercourse.			
	<del> </del>										
If a Waterco	urse was Im	pacted, Descr	ibe Fully.								
											:
		em and Reme				•	1 110111 0			at.	
		the area of the anding fluid w			iced wat	er was release	d and 10bbls of p	roduced water wa	is recovered.	Site wa	as
Duckurugged	arter the st	anding naid w	из рискей	ир.							
Describe Are	a Affected	and Cleanup A	Action Tal	ren *		<del></del>					
					move o	nto well to det	ermine cause of l	eak. Once well h	as been put b	ack to	production.
				idards. Ground v					•		Ì
							knowledge and u				
regulations a	ll operators	are required to	o report ar	id/or file certain	release i	notifications a	nd perform correct arked as "Final R	tive actions for r	eleases which	may e	ndanger
should their	operations h	nave failed to a	idequately	investigate and	remedia	te contaminati	on that pose a thr	eat to ground wa	ter, surface w	ater, hu	man health
or the enviro	nment. In a	iddition, NMC	CD accep	tance of a C-141	report	does not reliev	e the operator of	responsibility for	compliance	with an	y other
federal, state,	or local la	ws and/or regu	lations.				OH CON	CEDIA POLO	LDTTTCL	23.T	
/		~	$\bigcap$	0			OIL CON	SERVATIO!	A DIVISIO	<u>JN</u>	
Signature:	$Q$	Delle		Wadd						٠	
Printed Name	o Natalie	Gladden				Approved by	Environmental S	pecialist:			
							······································				
Title: EHS E	Environmen	tal Tech				Approval Dat	e:	Expiratio	n Date:		
E-mail Addre	ess: <u>natalie.</u>	gladden@apac	hecorp.co	<u>om</u>		Conditions of	Approval:		Attached	1 🗍	
Date: 01/2	4/12	Phone: 5'	75-390-41	86							

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

# Appendix B Site Photographs

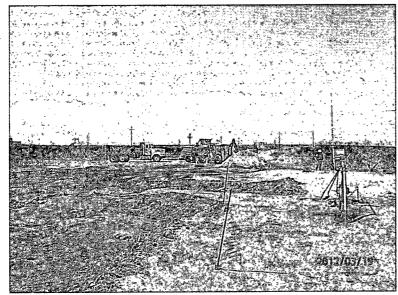
RICE Environmental Consulting and Safety (RECS)
P.O. Box 5630 Hobbs, NM 88241
Phone 575.393.4411 Fax 575.393.0293

## **Apache NEDU # 606**Unit Letter F, Section 15, T21S R37E



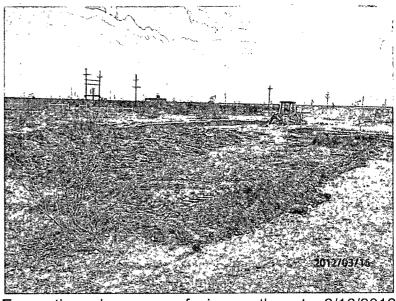
Initial release, facing north

1/23/2012

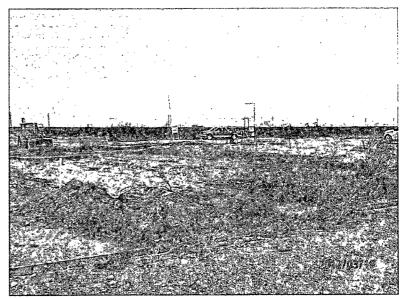


Exporting soil, facing southwest

3/19/2012

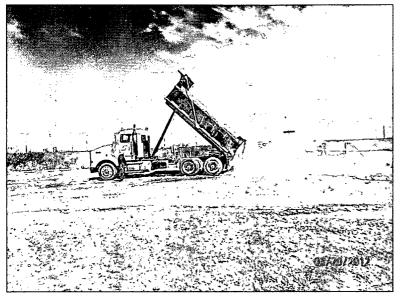


Excavating release area, facing southwest 3/16/2012



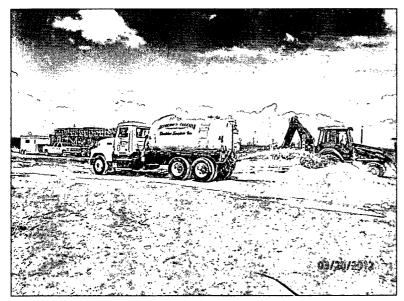
Final excavation, facing southwest

3/19/2012



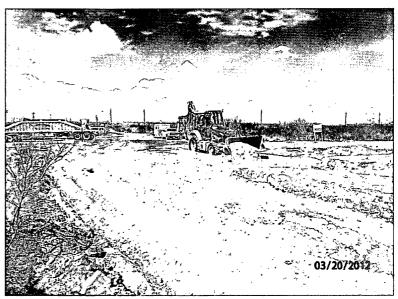
Importing caliche, facing north

3/20/2012



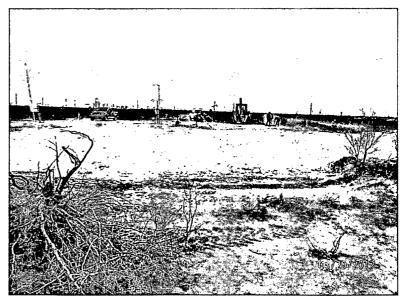
Applying water to caliche, facing north

3/20/2012



Backfilling excavation, facing west

3/20/2012



Site backfilled, facing north

3/20/2012

# Appendix C Laboratory Results

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



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

01/23/2012

Received: Reported:

01/27/2012

Project Name: Project Number: NEDU #606 AD NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

01/23/2012

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: PT. 1 (H200165-01)

Chloride, SM4500CI-B

ma/ka

Analyzed By: A

Chloride, SM4500Cl-B	mg.	/ kg	Anaiyze	u by: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	01/26/2012	ND	432	108	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	01/26/2012	ND	174	86.8	200	0.0835	
DRO >C10-C28	36.2	10.0	01/26/2012	ND	225	113	200	6.70	

Surrogate: 1-Chlorooctane

98.7 %

55.5-154

Surrogate: 1-Chlorooctadecane

129 %

124 %

57.6-158

57.6-158

### Sample ID: PT. 2 (H200165-02)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP			·		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1490	16.0	01/26/2012	ND	432	108	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	01/26/2012	ND	174	86.8	200	0.0835	
DRO >C10-C28	69.5	10.0	01/26/2012	ND	225	113	200	6.70	
Surrogate: 1-Chlorooctane	99.3	% 55.5-15	4						

#### Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

\*=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 & Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:

01/23/2012

Reported:

01/27/2012 NEDU #606 AD

Project Name: Project Number:

NONE GIVEN

131 %

57.6-158

Project Location:

NOT GIVEN

Sampling Date:

01/23/2012

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

#### Sample ID: PT. 3 (H200165-03)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	01/26/2012	ND	432	108	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	01/26/2012	ND	174	86.8	200	0.0835	
DRO >C10-C28	10.0	10.0	01/26/2012	ND	225	113	200	6.70	
Surrogate: 1-Chlorooctane	97.3	% 55.5-15	4						

#### Sample ID: PT. 4 (H200165-04)

Surrogate: 1-Chlorooctadecane

Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP		·		·	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1170	16.0	01/26/2012	ND	432	108	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	10.2	10.0	01/26/2012	ND	174	86.8	200	0.0835	
DRO >C10-C28	13.1	10.0	01/26/2012	ND	225	113	200	6.70	
Surrogate: 1-Chlorooctane	95.7	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	134 9	% 57.6 <b>-1</b> 5	8						

#### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and clent'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 valved 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.

Celeg & 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

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Project Manage	r: Natalie Gladden	····						_/	P.C	). #:																	
Address:								_	Coi	mpa	ny:								·	SL						:	
City:	State: NM	Zip	:					_//	Attı	n:				··	_	ł				<u>.</u>		ĺ					ŀ
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Project.#:	Project Owne	r:						_[	City	<b>/</b> :					(	٨	Σ	:	エ	s/i		İ			, 1		
Project Name:	NEDUL #606 POIT	0,1	na J	<u>5</u>				_	Sta	te:			Zip:		hlorides	Ď	15	$\times$	Texas TPH	on	(0	l				į	
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FOR LAB USE ONLY						MAT	RIX		_	PRE	SER	₹Ÿ	SAMPL	NG	] [	5	TPH		e	te		ĺ					
Lab I.D. H20D3laち	Sample I.D.	P. G. C. T. (G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER.	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME			<del> </del>			Complete Cations/Anions							
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23	PTB	6	1			4				],	1		1-0510-		W		L.S										
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enalyses. All claims includi service. In no event shall C affliates or euccessors arts	nd Gamages. Carolina's leability and client's exclusive remedy for ing those for negligence and any other cause whatsoever shall be ardinal be lightle for incidental or consequental damages, including ing out of of related to the performance of services hereunder by (	deema g wilhou Cardinal	d walve at limta i, regar	d unl tion, t diess	oss mi ousine of who	ade in as inte ther s	writing rruptio	and r	ecelv ss of	red bỳ use, o	Cardin r loss o	nal w of pro	ofits incurred by	er completion of client, its subsid esons or otherw	the app lories ase.												
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	- Bus - Other:	1	0		Coö	Yes No	ntac	t		(			lals)	hoone	der(	@r	ice-	ecs.	com	; Lw	einh	eime	er@r	ice-	ecs.c	om	

#26

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



APACHE - EUNICE NATALIE GLADDEN P. O. BOX 1849 **EUNICE NM, 88231** 

Fax To:

394-2425

Received: Reported: 03/20/2012

03/22/2012

Project Name: Project Number: NEDU #606 AD

Project Location:

Surrogate: 1-Chlorooctadecane

NONE GIVEN

110 %

57.6-158

Sampling Date:

03/19/2012

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

NOT GIVEN

### Sample ID: NORTH WALL CENTER (H200677-01)

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	03/21/2012	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	03/21/2012	ND	177	88.5	200	3.05	
DRO >C10-C28	<10.0	10.0	03/21/2012	ND	166	82.9	200	2.14	
Surrogate: 1-Chlorooctane	108	% 55.5-15	4 .						

### Sample ID: SOUTH WALL CENTER (H200677-02)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	03/21/2012	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	03/21/2012	ND	177	88.5	200	3.05	
DRO >C10-C28	<10.0	10.0	03/21/2012	ND	166	82.9	200	2.14	
Surrogate: 1-Chlorooctane	108	% 55.5-15	4 .					·	
Surrogate: 1-Chlorooctadecane	110	% 57.6-15	8						

### Cardinal Laboratories

\*=Accredited Analyte

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Celey & Keine

Celey D. Keene, Lab-Director/Quality Manager



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

Fax To:

Received: Reported: 03/20/2012

Project Name:

03/22/2012 NEDU #606 AD

Project Number:

NONE GIVEN

114%

57.6-158

Project Location:

NOT GIVEN

Sampling Date:

03/19/2012

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

### Sample ID: EAST WALL CENTER (H200677-03)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/21/2012	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	03/21/2012	ND	177	88.5	200	3.05	
DRO >C10-C28	<10.0	10.0	03/21/2012	ND	166	82.9	200	2.14	
Surrogate: 1-Chlorooctane	120	% 55.5-15	:4				-		
Surrogate: I-Chlorooctadecane	121	% 57.6-15	8						

### Sample ID: WEST WALL CENTER (H200677-04)

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	03/21/2012	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	03/21/2012	ND	177	88.5	200	3.05	
DRO >C10-C28	135	10.0	03/21/2012	ND	166	82.9	200	2.14	
Surrogate: 1-Chlorooctane	_ 111	% 55.5-15	4						

#### Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

\*=Accredited Analyte

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Celeg & Keene

Celey D. Keene, Lab Director/Quality Manager



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

Received: Reported: 03/20/2012

03/22/2012

Project Name: Project Number: NEDU #606 AD NONE GIVEN

102 %

57.6-158

Project Location:

Surrogate: 1-Chlorooctadecane

NOT GIVEN

Sampling Date:

03/19/2012

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

### Sample ID: 5 PT BOTTOM (H200677-05)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/21/2012	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	03/21/2012	ND	177	88.5	200	3.05	
DRO >C10-C28	<10.0	10.0	03/21/2012	ND	166	82.9	200	2.14	
Surrogate: 1-Chlorooctane	98.0	% 55.5-15	4 .						

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Kune



### 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	: Apache Corp.									Æ	3/L	L TO					- /	ANAI	YSIS	RE	QUES	ST			
Project Manage	r: Natalie Gladden							P.	O. #	:															
Address:								Cc	omp	any:								Si							
City:		State:	Zip	:	one where	······································		At	Attn:									<u>.</u>						.	
Phone #:		Fax #:			****			Ac	ldre	ss:								7				. 1			
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Project Name:								St	ate:			Zip:		ě	15	$\times$	민	l o	(0				İ		
Project Location: NEDL#606 Sampler Name: JKa-Klass						Pł	none	#:	********			Chlorides	8015	BTEX	exas TPH	Cations/Anions	TDS								
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FOR LAB USE ONLY	/		٠.			MA	TRIX		PR	ESEF	₹٧	SAMPLI	NG:	O	TPH		Te	æ							
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Relinguished By:  Date: Date: Received By:  Time: 45						W	(D)	//	t man and a second	email natalid Zcon	e.gla	dde						ice-e	ecs c	om.					
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<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 505-393-9476



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

Fax To:

Received:

03/20/2012

Reported:

03/22/2012 NEDU #606 AD

Project Name: Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

03/20/2012

Sampling Type:

Soil

Sampling Condition:

\*\* (See Notes)

Sample Received By:

Jodi Henson

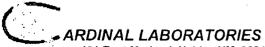
#### Sample ID: IMPORTED SOIL (H200687-01)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/21/2012	ND	384	96.0	400	4.08	

\*=Accredited Analyte Cardinal Laboratories

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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:	, paone						:11	BILL TO ANALYSIS REQUEST															
Project Manager	: Natalië Gladden				*******			P.	O. #:														
Address:								Ć	ompa	iny:							S						
City:		State: NM	Zip	:				At	tn:		.,	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					o						
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Project #:		Project Owner	r:					Ci	ty:				۱,,	≥		エ	//s						
Project Name:	NEDU#606				*******			St	State: Zip:			Chlorides	15	×	Texas TPH	on							
Project Location:						Pł	Phone #:			ΙΞ	801	BTEX	S	ati	TDS								
Sampler Name:	DAKSTON HARRIS							Fa	x #:				] 을		B	xa	Ö	⊢					
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<u> </u>			L			ı	:	:					<u> </u>					L	<u> </u>				
PLEASE NOTE: Liability and Danages. Cardinal's Inbility and client's exclusive refuedy for any claim arising whether based in contract analyses. All claims including those for negligence and any other cause whatcover shall be deemed waived unless made in writing at service. In no event shall Cardinal be liable for incidental or consequental damages; including without familiation, business interruptions, affiliates or successors arising out of or related to the performance of services forcument by Cardinal, regardless of whether such claim Relinguished By:    Date:   Received By:   Date:   Received By:							ng and rec- tions, loss i claim is ba	nd received by Cardinal within 30 days rater completion of t , loss of use, or loss of profits incurred by client, its subsidia					□ Ye □ Ye ults ladd		)usa	.apa	chec	corp.					
Delivered By: (Circle One)  Sample Cond Cool Intact Sampler - UPS - Bus - Other:					cte		CHECI (Ihi	(ED BY:	Zconder@rice-ecs.com; Bbaker@rice-ecs.com; hconder@rice-ecs.com; Lweinheimer@rice-ecs.com					com									

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

## Appendix D Groundwater Study

RICE Environmental Consulting and Safety (RECS)
P.O. Box 5630 Hobbs, NM 88241
Phone 575.393.4411 Fax 575.393.0293

0

Apache			NEDU #606	
Company	-		site name	
	F	15	T21S	R37E
	Unit Letter	Section	Township	Range
	Groundwater Depth:	5	4	ft .
Compiled by:	Amy C	C. Ruth	Date:	1/24/2012
Comments:				
Comments				
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				,
	9	10	. 11	
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			⊚ Do	mestic 53'
· · · · · · · · · · · · · · · · · · ·			·	
		!		



## New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned,

C=the file is

(quarters are 1=NW 2=NE 3=SW 4=SE)

closed) (quart

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

water right file.)	ciosea)	quarters	ares	51116	alles	51 10	large	SI)	(NAD63 UTIV	i in ineters)	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	(111166	;t)
POD Number	POD Code Subbasii	n County	Q 64			iec	Tws	Rng	x	Y	•	Depth Water	Water Column
CP 00014		LE	1	3	2 2	23	21S	37E	675492	3593749*	84		
CP 00212	•	LE	2	2	1	14	21S	37E	675254	3595753*	46		
CP 00224		ĻE	4	3	3 2	23	218	37E	674902	3592730*	96		
CP 00235		LE	2	2	1 :	23	21S	37E	675283	3594144*	81		
CP 00236		LE	3	1	2 :	23	21S	37E	675485	3593952*	83		
CP 00238		LE	3	3	2 :	23	21S	37E	675492	3593549*	81		
CP 00239		LE	1	1	2	23	218	37E	675485	3594152*	89		
CP 00240		LE	4	2	1 :	23	218	37E	675283	3593944*	72		
CP 00241		LE	4	2	1 :	23	218	37E	675283	3593944*	76		
CP 00251		LE	2	3	4	22	21S	37E	674099	3592915*	103		
CP 00252		LE	4	2	4	22	21S	37E	674493	3593125*	106		
CP 00554		LE		2	2	16	215	37E	672744	3595610*	80	70	10
CP 00562		LE	1	2	2	23	21S	37E	675887	3594159*	136	65	71
CP 00700		LE			2	23	218	37E	675794	3593851*	75	65	10
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									Avera	age Depth t			feet
										Minimur Maximun	•		feet feet
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**Record Count: 15** 

PLSS Search:

Section(s): 9, 10, 11, 14,

Township: 21S

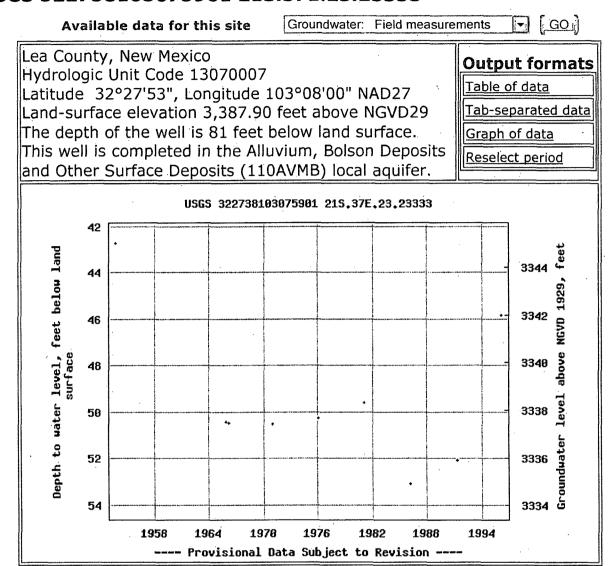
Range: 37E

15, 16, 21, 22, 23

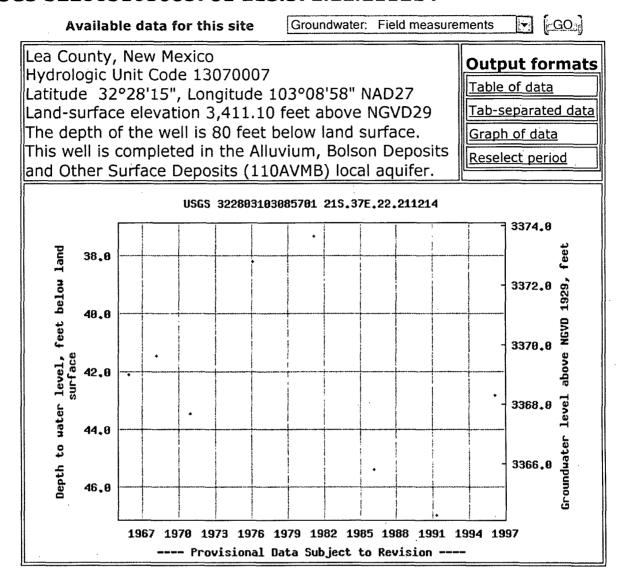
\*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

### USGS 322738103075901 21S.37E.23.23333



### USGS 322803103085701 21S.37E.22.211214



### USGS 322849103080601 21S.37E.14.12410

Download a presentation-quality graph

GO Groundwater: Field measurements Available data for this site Lea County, New Mexico **Output formats** Hydrologic Unit Code 13070007 Table of data Latitude 32°29'01", Longitude 103°08'06" NAD27 Land-surface elevation 3,399.00 feet above NGVD29 Tab-separated data The depth of the well is 48 feet below land surface. Graph of data This well is completed in the Alluvium, Bolson Deposits Reselect period and Other Surface Deposits (110AVMB) local aquifer. USGS 322849103080601 215.37E.14.12410 3374.0 25.0 to water level, feet below land 3373.0 26.0 27.0 3372.0 28.0 3371.0 3370.0 29.0 30.0 3369.0 1958 1964 1970 1976 1982 1988 1994 ---- Provisional Data Subject to Revision --Breaks in the plot represent a gap of at least one year between field measurements.

### USGS 322937103094501 21S.37E.09.241211

**[GO**] Groundwater: Field measurements Available data for this site Lea County, New Mexico **Output formats** Hydrologic Unit Code 13070007 Table of data Latitude 32°29'49", Longitude 103°09'45" NAD27 Land-surface elevation 3,466.60 feet above NGVD29 Tab-separated data The depth of the well is 90 feet below land surface. Graph of data This well is completed in the Alluvium, Bolson Deposits Reselect period and Other Surface Deposits (110AVMB) local aquifer. USGS 322937103094501 215.37E.09.241211 55.0 3411.0 water level, feet below land surface 56.0 3410.0 57.8 3409.0 58.0 3408.0 59.0 3407.0 60.0 3406.0 61.0 3405.0 Depth to 62.0 3494.0 63.0 3403.0 5 64.0 1967 1970 1973 1976 1979 1982 1985 1988 1991 1994 1997 Provisional Data Subject to Revision

# Appendix E Final Form C-141

RICE Environmental Consulting and Safety (RECS)
P.O. Box 5630 Hobbs, NM 88241
Phone 575.393.4411 Fax 575.393.0293

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 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

HOBBS OCD

Form C-141 Revised October 10, 2003

MAY 0 8 20\$2bmit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

RECEIVED

Release Notification and Corrective Action															
						<b>OPERA</b>	ГOR		☐ Initia	al Report	$\boxtimes$	Final Report			
Name of Co	mpany	Apache (	Corp.			Contact	Natalie Glad	lden							
Address		ox 1849, Eu	inice, NM	1, 88231		Telephone 1	No. (575) 39	90-418	6						
Facility Nar	ne NI	EDU #606				Facility Typ	e Injection	Well				<u> </u>			
Surface Ow	ner De	eck Estate		Mineral C	wner	State of NM	1		Lease N	Lease No. 30-025-06587					
LOCATION OF RELEASE															
Unit Letter	Section	Township	Range	Feet from the		/South Line	Feet from the	East/\	West Line	County					
F	15	218	37E							Lea					
			·		TOD			1.100		Lou					
LatitudeLongitude															
NATURE OF RELEASE															
Type of Relea		duced Water					Release 15 bbl			Recovered					
Source of Rel	lease Inj	ection line lea	k			Date and F 01/21/12	Iour of Occurrenc	e	Date and 01/21/12	Hour of Dis	covery				
Was Immediate Notice Given?  If YES, To Whom?															
☐ Yes ☐ Not Required Geoffrey Leking															
By Whom?	By Whom? Natalie Gladden Date and Hour 01/23/12 3:57 pm														
Was a Water	course Rea			_		If YES, Vo	olume Impacting t	he Wat	ercourse.						
			Yes 🗵	] No											
If a Watercou	rse was Im	pacted, Descr	ibe Fully.	k		<del></del>									
Describe Cau	se of Probl	em and Reme	dial Actio	n Taken.*											
				, 15 bbls of produ	ced wat	er was release	d and 10 bbls of	produce	d water wa	s recovered.	Site w	as back-			
dragged after	the standir	ng fluid was p	icked up.												
Describe Are	a Affected	and Cleanup	Action Tal	zen *			· · · · · · · · · · · · · · · · · · ·				<del>_</del>				
				e wellhead. The v	well wa	s renaired and	returned to work	ing ord	er. Impacte	ed soils were	remov	ed to a			
NMOCD approved disposal facility. Representative soil samples were collected from the excavation and sent to a commercial laboratory for chloride and TPH analysis. The excavation was backfilled with clean caliche and contoured to the surrounding area.															
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger															
				nd/or file certain re se of a C-141 repo											
				investigate and r											
				otance of a C-141											
federal, state,					-		-			· 					
	<b>/</b>					OIL CONSERVATION DIVISION									

	Signature: Natalie Gladden  Signature: Natalie Gladden	Approved by District Supervisor:	vironmental Specialist
	Title: EH&S Environmental Tech	Approval Date: 5/8/12	Expiration Date: ~
	E-mail Address: Natalie.gladden@apachecorp.com  Date: Phone: (575) 390-4186	Conditions of Approval:	Attached   IRP-06-14-3074
*	Attach Additional Sheets If Necessary		