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'	ГOR		Initi	al Report	$\boxtimes$	Final Repor
Name of Co		Apache (				Contact	Natalie Glad					
Address		ox 1849, Eu		1, 88231		Telephone N	<del></del>					
Facility Nar	ne Wa	rn State A/G	C#19			Facility Typ	e Productio	n Wel	<u>l</u>			
Surface Ow	ner			Mineral C	)wner	State of NM	1		Lease N	No. 30-025-	31927	,
				LOCA	ATIO	N OF REI	LEASE					
Unit Letter	Section	Township	Range	Feet from the	North	/South Line	Feet from the	East/\	West Line	County		
F	6	18S	35E	2010	FNL	•	2230	FWL		Lea		
			Lat	itude	-	Longitue	de					-
						OF RELI						
Type of Rele	ase Prod	uced Water		147.1	CICE		Release 10 bbl		Volume I	Recovered	bbl	
Source of Re		w line leak					lour of Occurrenc	e		Hour of Disc		
	· · · · · · · · · · · · · · · · · · ·			<u></u> .		09/6/11			09/6/11			
Was Immedia	ate Notice C		Yes 🔯	No □ Not Re	eauired	If YES, To	Whom?					
By Whom?						Date and H	lour					<del>-</del>
Was a Water	course Reac	hed?		·			olume Impacting t	he Wat	ercourse.		_	
			Yes 🗵	] No								
If a Watercou	ırse was Imp	pacted, Descr	ibe Fully.	*				-	-			
									DW=1	.૦૫'		< 24
Describe Cau										<del> </del>		
Flow line lea	k. Fluid wa	is recovered a	nd locatio	n back-dragged u	ntil one	-call cleared.			·			
Describe Are										· <del></del>		
				cted soils were rer								
contoured to			to a com	mercial laboratory	for en	oride and TPF	a confirmation. 1	пе ехса	ivation was	backillied w	im cie	an son and
I hereby certi	fy that the i	nformation gi		e is true and comp								
				nd/or file certain r								
				ce of a C-141 repo								
				otance of a C-141								
federal, state.	or local lav	vs and/or regu	ılations.					-				
			$\triangle$	(1)			OIL CON:	SERV	<u>'ATION</u>	DIVISIO	N	
Signature:	10	tille	1 1	Vadd	1		330	YYK	lesso	JOHU	$M_{ ightarrow}$	<b>&amp;</b>
						Approved by	District Supervis	- VV		Specialis	t `(	)
Printed Name	e: Nătalie	e Gladden			$\rightarrow$					. ~1	- 	
Title: EH	&S Environi	mental Tech				Approval Dat	e: 11/9/12		Expiration	Date:	- 	
E-mail Addre	ss: Nata	lie.gladden@	apachecor	p.com		Conditions of	Approval:			Attached	$\Box$	
1 /	1 - 1											
Date: (	19/12		D1-	: (575) 390-4186				28 <b>0</b>		Allactica		3082

JUN 2 7 2014

MSAD1416454346. h.



HOBBS OCD

NOV 0 9 2012

RECEIVED

# **APACHE CORPORATION**

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

# Warn State A/C 2 #19

# Closure Report

API 30-025-31927

Release Date: September 6, 2011

Unit Letter F, Section 6, Township 18S, Range 35E

# Rice Environmental Consulting & Safety

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

# May 1, 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 – Warn State A/C 2 #19 AD UL/F sec. 6 T18S R35E API No. 30-025-31927

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 fluids associated with the Warn State A/C 2 #19. A surface produced water flow line leaked, releasing mixed fluids onto pasture land. Fluids were recovered and an initial form C-141 was submitted by Apache Corporation on September 7, 2011 (Appendix A). The site is located west of Hobbs, in unit letter 'F' of section 6, T18S, R35E near NM Highway 238 in Lea County, New Mexico.

On September 7, 2011, RECS personnel initiated work on the Warn State A/C 2 #19 (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 11,000 ppm (parts per million or mg/kg) to 39,600 ppm. GRO ranged from <250 ppm to 7,670 ppm and DRO ranged from <250 ppm to 79,500 ppm.

On September 14, 2011, RECS personnel collected soil samples from the final excavation (Figure 2). Representative grab samples were collected from the excavation walls and the excavation floor, and were submitted to a commercial laboratory for chloride and TPH (GRO/DRO) analyses (Appendix C). Chloride did not exceed 272 ppm in the wall samples and 304 ppm in the floor samples. TPH was 233 ppm at the N Wall E End and <10.0 ppm in the remaining samples.

Impacted soils were removed to a NMOCD approved disposal facility. A small area beneath several steel and poly flow lines could not be fully excavated due to extreme soil compaction and

the inability of equipment to safely access the space between steel lines. The excavation was backfilled with clean soil and contoured to the surrounding area. 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 100 ft bgs (Appendix D). Due to the removal of the majority of impacted soils as was practicable 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 Bahan

**RECS** 

(575) 631-5157

## Attachments:

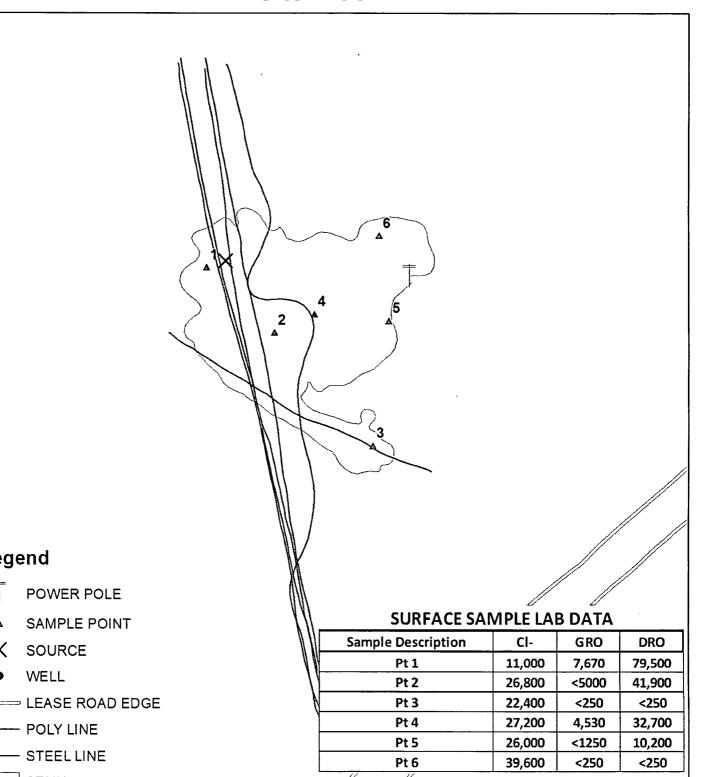
Figure 1: Site Plat including Surface Sample Data
Figure 2: Site Plat including Final Excavation Data

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





Legend

WELL

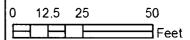
**STAIN** 

# **APACHE** WARN STATE AC/2 #019 AD

**UL/K SECTION 6** T-18-S R-35-E LEA COUNTY, NM

# Figure 1

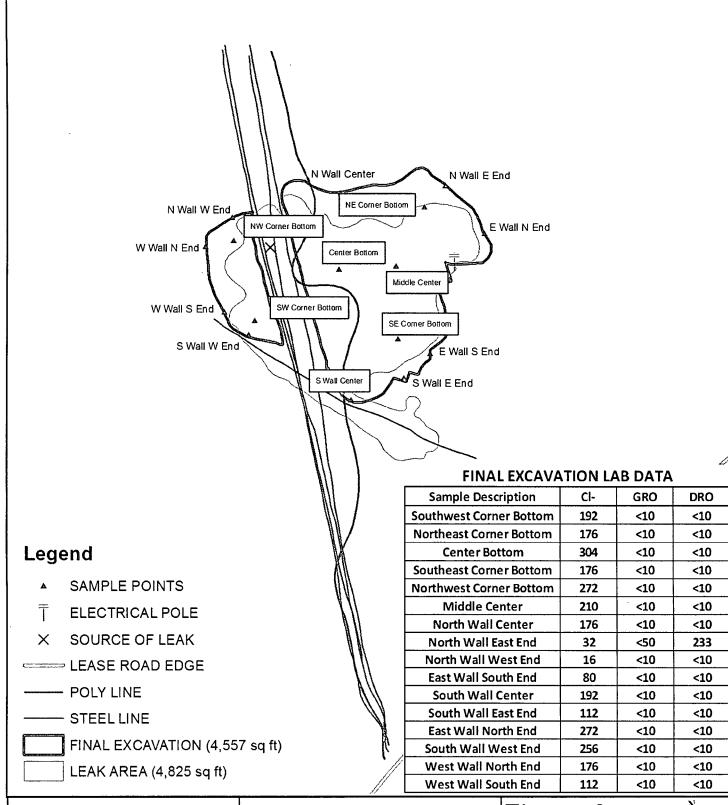




GPS date: 9/8/11 DH Drawing date: 9/9/11

Drafted by: T. Grieco, L. Weinheimer

# Site Plat





# APACHE WARN STATE AC/2 #019 AD

UL/K SECTION 6 T-18-S R-35-E LEA COUNTY, NM

# Figure 2



0	12.5	25	50
	<u> </u>	$\vdash$	Feet

GPS date: 9/8/11 DH Drawing date: 9/9/11

Drafted by: T. Grieco, L. Weinheimer

Appendix A Initial Form C-141

RICE Environmental Consulting and Safety (RECS)
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.

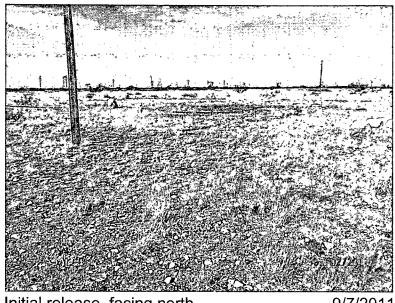
			Rele	ease Notific	eatio	n and Co	orrective A	ction	l			
						OPERA'	ГOR		M Initia	al Report		Final Report
Name of Co	mpany A	pache Corpo	ration				talie Gladden					z min zeport
Address PC						Telephone 1	No. 575-390-41	86				
Facility Nar	ne Warn S	State A/C #1	9			Facility Typ	e Production w	ell				
Surface Ow	ner			Mineral C	wner	State of NM			API No	. 30-025-3	1927	
				LOCA	TIO	N OF REI	LEASE					
Unit Letter	Section	Township	Range	Feet from the		/South Line	Feet from the	East/\	West Line	County		
F	6	18S	35E	2010	FNL		2230	FWL		Lea		
			La	titude		Longitud	le	-				
					TIRE	OF REL						
Type of Rele	ase Produce	ed Water		1428.2	UKE		Release 10		Volume l	Recovered	<u></u>	
Source of Re						Date and F 9/6/11	lour of Occurrenc	e	Date and 9/6/11	Hour of Dis	covery	
Was Immedi	ate Notice C	Given?				If YES, To	Whom?		9/0/11			
			Yes 🛭	I No 🔲 Not Re	equired							
By Whom?						Date and I						
Was a Water	course Read		Yes 🔀	1 No		If YES, Vo	olume Impacting t	the Wat	ercourse.			
						\						
If a Watercon	irse was Im	pacted, Descr	ibe Fully.	<del>r</del>								
Describe Cau	se of Probl	em and Reme	dial Actio	n Taken.*		<del>-</del>			<del></del>			
				n was backdragged	d until t	he one-call is	cleared.					
								:				
}												,
		and Cleanup A										
NMOCD Gu	idelines wil	l be followed	to closure									
				e is true and comp nd/or file certain r								
				ce of a C-141 repo								
should their	perations h	ave failed to	adequately	investigate and r	emedia	te contaminat	ion that pose a thr	eat to g	round wate	r, surface w	ater, hu	ıman health
				otance of a C-141	report o	loes not reliev	e the operator of	respons	ibility for c	ompliance v	with an	y other
lederal, state	or tocal la	ws and/or regi	manons.				OIL CON	CEDI	ATION	DIVISIO	)NI	
	h.	tulu 1		adol .			OIL CON	DLIC V	AHON	DIVIDIO	714	
Signature:	$-\mu$	uu	JIL	acco								
Printed Nam	e: Natalie (	Gladden				Approved by	Environmental S	pecialis	it:			
Title: EHS I	Environmen	tal Tech			_	Approval Da	te:		Expiration	Date:		_
E-mail Addr	ess: natalie	.gladden@apa	checoro o	om		Conditions o	f Approval:					
							I L · · · · ·			Attached	1 []	
Date: 9/7			575-390 <b>-</b> 4	1186								
* Attach Addi	uonai Snec	els II inecess	агу									



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

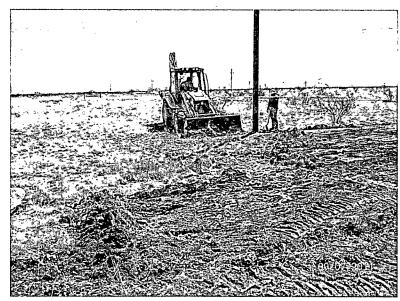
# Warn State A/C #19 AD

Unit Letter F, Section 6, T18S R35E



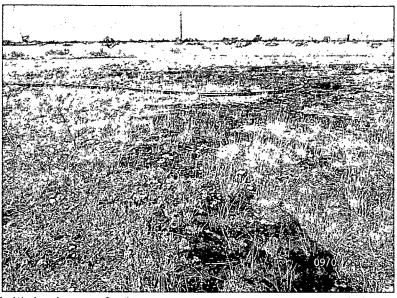
Initial release, facing north

9/7/2011



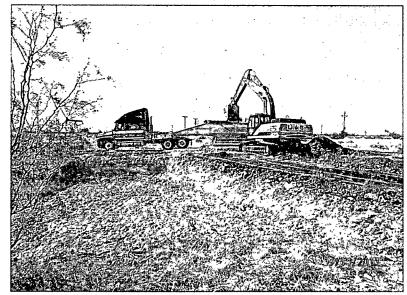
Excavating leak, facing east

9/7/2011



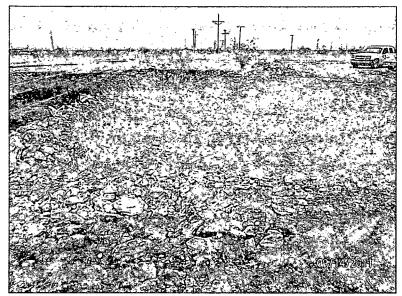
Initial release, facing west

9/7/2011



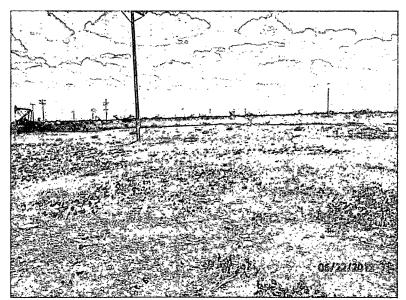
Exporting soil, facing south

9/14/2011



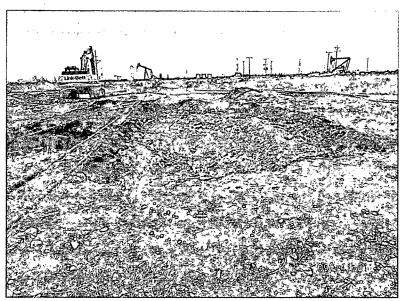
Final excavation, facing north

9/14/2011



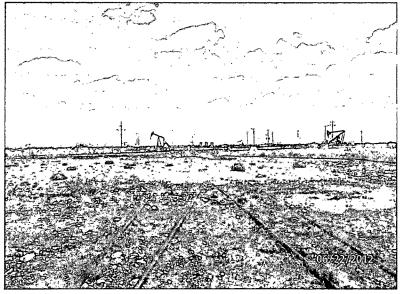
Site backfilled, facing west

6/22/2012



Final excavation, facing south

9/14/2011



Site backfilled, facing south

6/22/2012

# 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

Received:

09/08/2011

Sampling Date:

09/07/2011

Reported:

09/13/2011

Sampling Type:

Soil

Project Name:

WARN STATE A/C 2 #18

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

## Sample ID: PT. 1 (H101905-01)

Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11000	16.0	09/08/2011	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: ab					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	7670	5000	09/09/2011	ND	180	89.9	200	0.0812	
DRO >C10-C28	79500	5000	09/09/2011	ND	176	88.1	200	0.377	
Surrogate: 1-Chlorooctane	129 5	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	109 5	% 57.6-15	8						

## Sample ID: PT. 2 (H101905-02)

Chloride, SM4500CI-B	mg,	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	26800	16.0	09/08/2011	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: ab					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<5000	5000	09/09/2011	ND	180	89.9	200	0.0812	
DRO >C10-C28	41900	5000	09/09/2011	ND	176	88.1	200	0.377	
Surrogate: 1-Chlorooctane	135	% 55.5-15	4		-				<del></del>
Surrogate: 1-Chlorooctadecane	126	% 57.6-15	8						

### Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keine



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

Received:

09/08/2011

Reported:

09/13/2011

Project Name: Project Number: WARN STATE A/C 2 #18

Project Location:

NONE GIVEN NOT GIVEN Sampling Date:

09/07/2011

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

# Sample ID: PT. 3 (H101905-03)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM		_			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	22400	16.0	09/08/2011	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: ab					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<250	250	09/09/2011	ND	180	89.9	200	0.0812	
DRO >C10-C28	<250	250	09/09/2011	ND	176	88.1	200	0.377	
Surrogate: 1-Chlorooctane	109	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	108 9	% 57.6-15	8						

#### Sample ID: PT. 4 (H101905-04)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM			·		_
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	27200	16.0	09/08/2011	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: ab					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	4530	1250	09/09/2011	ND	180	89.9	200	0.0812	

Surrogate: 1-Chlorooctadecane 111 % 57.6-158

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keine



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

Received: Reported: 09/08/2011

0

09/13/2011

115 %

57.6-158

Project Name: Project Number: WARN STATE A/C 2 #18

Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date:

09/07/2011

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

## Sample ID: PT. 5 (H101905-05)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM			<u> </u>		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	26000	16.0	09/08/2011	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: ab					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<1250	1250	09/12/2011	ND	180	89.9	200	0.0812	
DRO >C10-C28	10200	1250	09/12/2011	ND	176	88.1	200	0.377	
Surrogate: 1-Chlorooctane	122	% 55.5-15	4						

# Sample ID: PT. 6 (H101905-06)

Surrogate: 1-Chlorooctadecane

Chloride, SM4500CI-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	39600	16.0	09/08/2011	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: ab					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<250	250	09/12/2011	ND	180	89.9	200	0.0812	
DRO >C10-C28	<250	250	09/12/2011	ND	176	88.1	200	0.377	
Surrogate: 1-Chlorooctane	102 5	% 55.5-15	:4						
Surrogate: 1-Chlorooctadecane	95.9	% 57.6-15	8						

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\*=Accredited Analyte

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Celey D. Keens

# 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 Apache									light.	311	LL IU	经进行 海港	:				ANA	- Y 213	) KE	QUES	) <u> </u>			
Project Manage	r: Natalie Gladden							P.C	). #.	:															
Address:								Co	mpa	any	:							S							
City:	State: NM	Zip	):					Att	n:							ĺ		o							
Phone #:	Fax #:							Ad	dre	ss:				1				1 5							
Project #:	Project Owne	r:						Cit	у:						I≥		T	1/8							
Project Name:	non stak A/Ca#1	$\boldsymbol{\varepsilon}$						Sta	ate:			Zip:		Chlorides	5	×	TPH	l G							
Project Location	n:							Ph	one	#:				<u>E</u>	8015	BTEX	S	#	TDS						
Sampler Name:	Daksten Harris							Fa	x #:					[음		I E	X	Ö	=						
FOR LAB USE ONLY  Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	ROUNDWATER	WASTEWATER SOIL BM	TRI	SLUDGE	OTHER:	ACID/BASE: 34	OL.	OTHER: 3	SAMPL		Ö	TPH		Texas	Complete Cations/Anions	-						
H101905	07-1	(F)	#	Ö	×   ×		ਲ	Ö	¥	2/	6	DATE	TIME	<del> </del>	1	<del> </del>	<b> </b> -		<del> </del>	<u> </u>					
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<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:

09/15/2011

Reported:

09/22/2011

Project Name: Project Number: WARN STATE AC 2 #19 A.D.

Project Location:

NONE GIVEN

NOT GIVEN

Sampling Date:

09/14/2011 Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

# Sample ID: N. WALL CENTER (H101958-01)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	09/15/2011	ND	448	112	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: ab					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/18/2011	ND	176	88.1	200	1.38	
DRO >C10-C28	<10.0	10.0	09/18/2011	ND	177	88.7	200	1.97	
Surrogate: 1-Chlorooctane	128	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	125	% 57.6-15	8						

#### Sample ID: N. WALL E. END (H101958-02)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/16/2011	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: ab					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	09/18/2011	ND	176	88.1	200	1.38	
DRO >C10-C28	233	50.0	09/18/2011	ND	177	88.7	200	1.97	
Surrogate: 1-Chlorooctane	123	% 55.5-15	:4						
Surrogate: 1-Chlorooctadecane	118	% 57.6-15	8						

Cardinal Laboratories \*=Accredited Analyte

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

T day

Received: 09/15/2011 Reported: 09/22/2011

WARN STATE AC 2 #19 A.D.

Project Number:
Project Location:

Project Name:

NOT GIVEN

NONE GIVEN

Sampling Date:

09/14/2011

Sampling Type:

Soil Cool & Intact

Sampling Condition: Sample Received By:

Jodi Henson

## Sample ID: N. WALL W. END (H101958-03)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/15/2011	ND	448	112	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: ab					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/18/2011	ND	176	88.1	200	1.38	
DRO >C10-C28	<10.0	10.0	09/18/2011	ND	177	88.7	200	1.97	
Surrogate: 1-Chlorooctane	120	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	112	% 57.6-15	8						

## Sample ID: E. WALL S. END (H101958-04)

Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	09/15/2011	ND	448	112	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: ab					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/18/2011	ND	176	88.1	200	1.38	
DRO >C10-C28	<10.0	10.0	09/18/2011	ND	177	88.7	200	1.97	
Surrogate: 1-Chlorooctane	124 9	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	114 9	% 57.6-15	8						

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Received:

09/15/2011

Sampling Date:

09/14/2011

Reported:

Sampling Type:

Soil

09/22/2011

Sampling Condition:

Cool & Intact

Project Name: Project Number: WARN STATE AC 2 #19 A.D. NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

# Sample ID: S. WALL CENTER (H101958-05)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	09/15/2011	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: ab					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/18/2011	ND	176	88.1	200	1.38	
DRO >C10-C28	<10.0	10.0	09/18/2011	ND	177	88.7	200	1.97	
Surrogate: 1-Chlorooctane	118	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	111	% 57.6-15	8						

#### Sample ID: S. WALL E. END (H101958-06)

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	09/15/2011	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: ab					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/18/2011	ND	176	88.1	200	1.38	
DRO >C10-C28	<10.0	10.0	09/18/2011	ND	177	88.7	200	1.97	
Surrogate: 1-Chlorooctane	118	% 55.5-15	i <i>4</i>						
Surrogate: 1-Chlorooctadecane	117	% 57.6-15	ī8						

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Received:

09/15/2011

Sampling Date:

09/14/2011

Reported:

09/22/2011

Sampling Type:

Soil

Project Name:

WARN STATE AC 2 #19 A.D.

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

#### Sample ID: E. WALL N. END (H101958-07)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	09/15/2011	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: ab					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/18/2011	ND	176	88.1	200	1.38	
DRO >C10-C28	<10.0	10.0	09/18/2011	ND	177	88.7	200	1.97	
Surrogate: 1-Chlorooctane	114	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	109	% 57.6-15	8						

#### Sample ID: S. WALL W. END (H101958-08)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	09/15/2011	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: ab		.a			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/18/2011	ND	176	88.1	200	1.38	
DRO >C10-C28	<10.0	10.0	09/18/2011	ND	177	88.7	200	1.97	
Surrogate: 1-Chlorooctane	120	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	116	% 57.6-15	8						

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Received:

09/15/2011

Sampling Date:

09/14/2011

Reported:

09/22/2011

Sampling Type:

Soil

Project Name:

WARN STATE AC 2 #19 A.D.

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

# Sample ID: W. WALL N. END (H101958-09)

Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	09/15/2011	ND	448	112	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: ab					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/18/2011	ND	176	88.1	200	1.38	
DRO >C10-C28	<10.0	10.0	09/18/2011	ND	177	88.7	200	1.97	
Surrogate: 1-Chlorooctane	122 9	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	119 9	% 57.6-15	8						

## Sample ID: W. WALL S. END (H101958-10)

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	09/15/2011	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: ab					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/18/2011	ND	176	88.1	200	1.38	
DRO >C10-C28	<10.0	10.0	09/18/2011	ND	177	88.7	200	1.97	
Surrogate: 1-Chlorooctane	127	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	120	% 57.6-15	8						

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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

# ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

Company Name	(303) 333-2320 TAX (303) 333-2		7	-,										ANAI	Vele	DEC	IIE6.	_			
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Project Manager	: Natalie Gladden					P.O.	#:						İ								
Address:						Com	pany:							ટ્ર							
City:	State: NM	Zip:				Attn	<u> </u>							.히			ļ			1	j
Phone #:	• Fax #:					Addı	ress:		<u>.                                    </u>					Cations/Anions					-		
Project #:	Project Owne	r:				City:				ا ہر ا	Σ		ェ	1/8							
Project Name: √	Vann state AC2 # 18	9.0	),_			State	9:	Zip:		<u> </u>	15	×	TPH	6	-						
Project Location				F		Phor	ne #:			<u> </u>	801	Ш	S	aţį	TDS			į			
Sampler Name:	Oak Harris					Fax				Chlorides		BTEX	Texas		厂						
FOR LAB USE ONLY			Т	MATR	X	Р	RESERV	SAMPL	ING	じ	PH		[@	<u>9</u>				1			
Lab I.D. H10958	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER WASTEWATER SOIL	SLUDGE	OTHER:	ACIO/BASE. ICE / COOL OTHER:	DATE	TIME		<b> </b>			Complete							
• [	N. Wall Center	5	1	V			V	9-14-11	9:00	1	V										
2	N. Wall E. End	6	1				V	9-14-11	9:05	V	V										
3	N. Wall W. EDD	G	T	V			1	9-14-11	9:10	1	V										
	EIWall SIEND	6	71	V		T	1	9-14-11	9:15	V	V										
3	5. Wall Center	6	7	V			V		9:20	V	V.										
6	S. Wall E. EDD	6-	7				V	9-14-11	9:25	1	1										
7	E. Wall N. END	G	7	V		Т	~	9-14-11	9:30	V	V										
8	S, Wall W. END	6	7	V			V	9-14-11	9:35	V	V										
	W. Wall N. END	6	7	V			V,	9-14-11	9:40	V	V	,									
10	W.Wall S. END	G	II	V			V	9-14-11	9:45	V	V										
PLEASE NOTE: Liability ar	nd Damages. Cardinal's liability and client's exclusive remedy lor	any claim	arising	whether based in o	ontract	or. tort, s	hall be limited	to the amount p	aid by the client for	the											

PLEASE NOTE: Liability and Damages. Cardinal's tability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the citent 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 fable for incidental or consequental damages, including without furthation, 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 services hereunder by Cardinal, regardless of whether such claim is based upon a profit in above stated reasons or otherwise.

Relinguished By: //	Date: Q-/ C-// Received By:	Phone Result: ☐ Yes ☑ No Add'l Phone #:
	100010	Fex Result: ☐ Yes ☑ No Add'I Fax #:
1 / LA MANY	Time:	REMARKS:
1700	7,30	
Relinquished By:	Detel Received By:	email results
	+9119/11 1 A N	
	Times: 70 Mon Non An	Natalie.Gladden@usa.apachecorp.com;
	TIMES: 2D JOCK Stenson	_ ·
Delivered By: (Circle One)	Sample Condition   CHECKED BY:	<ul><li>Zconder@rice-ecs.com; Bbaker@rice-ecs.com;</li></ul>
1 3000000	Cool Intact (Initials)	hconder@rice-ecs.com; Lweinheimer@rice-ecs.com
Sampler - UPS - Bus - Other:	To Tyes Tyes	
Samplet - Of O - Dus - Other,	- 50 Pyes Dives	It I could name changed as su Natalie.
<del></del>		The state of the s
the Cardinal cannot accept verbal cannot accept accept verbal cannot accept accept verbal cannot accept accept verbal cannot accep	changes. Please fax written changes to 505-393-2476	

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

9/20/11



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Received:

09/15/2011

Sampling Date:

09/14/2011

Reported:

09/22/2011

Sampling Type:

Soil

Project Name:

WARN STATE AC 2 #19 A.D.

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

## Sample ID: S. W. CORNER BTTM (H101964-01)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	09/16/2011	ND	448	112	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: ab					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/19/2011	ND	177	88.7	200	2.85	
DRO >C10-C28	<10.0	10.0	09/19/2011	ND	177	88.7	200	3.47	
Surrogate: 1-Chlorooctane	113 5	% 55.5-15	4					-	
Surrogate: 1-Chlorooctadecane	104	% 57.6-15	8						

# Sample ID: N. E. CORNER BTTM (H101964-02)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	09/16/2011	ND	448	112	400	3.64	
TPH 8015M	mg	/kg	Analyze	d By: ab					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	. RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/19/2011	ND	177	88.7	200	2.85	
DRO >C10-C28	<10.0	10.0	09/19/2011	ND	177	88.7	200	3.47	
Surrogate: I-Chlorooctane	119	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	115	% 57.6-15	8						

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Received:

09/15/2011

Sampling Date:

09/14/2011

Reported:

09/22/2011

Sampling Type:

Soil

Project Name:

WARN STATE AC 2 #19 A.D.

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

## Sample ID: CENTER BTTM (H101964-03)

Chloride, SM4500CI-B	B mg/kg		Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	09/16/2011	ND	448	112	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: ab				_	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/19/2011	ND	177	88.7	200	2.85	
DRO >C10-C28	<10.0	10.0	09/19/2011	ND	177	88.7	200	3.47	
Surrogate: 1-Chlorooctane	116	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	114	% 57.6-15	8						

## Sample ID: S. E. CORNER BTTM (H101964-04)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	09/16/2011	ND	448	112	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: ab					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/19/2011	ND	177	88.7	200	2.85	
DRO >C10-C28	<10.0	10.0	09/19/2011	ND	177	88.7	200	3.47	
Surrogate: 1-Chlorooctane	132	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	125	% 57.6-15	8						

## Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim ansing, 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 claims 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



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

Received:

09/15/2011

Sampling Date:

09/14/2011

Reported:

09/22/2011

Sampling Type:

Soil

Project Name:

WARN STATE AC 2 #19 A.D.

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

# Sample ID: N. W. CORNER BTTM (H101964-05)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	09/16/2011	ND	448	112	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: ab					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/19/2011	ND	177	88.7	200	2.85	
DRO >C10-C28	<10.0	10.0	09/19/2011	ND	177	88.7	200	3.47	
Surrogate: I-Chlorooctane	122	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	117	% 57.6-15	8						

# Sample ID: MIDDLE CENTER (H101964-06)

Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	210	16.0	09/16/2011	ND	448	112	400	0.00	
TPH 8015M	mg/kg		Analyze	d By: ab					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/19/2011	ND	177	88.7	200	2.85	
DRO >C10-C28	<10.0	10.0	09/19/2011	ND	177	88.7	200	3.47	
Surrogate: 1-Chlorooctane	142	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	136	% 57.6-15	8						

#### Cardinal Laboratories

\*=Accredited Analyte

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Celey & Keene

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Zconder@rice-ecs.com; Bbaker@rice-ecs.com;

hconder@rice-ecs.com; Lweinheimer@rice-ecs.com

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	3: Apache					~				8/1	L TO						ANAI	YSIS	RE	QUE	ST			
Project Manage	r: Natalie Gladden						P	.O. ‡	‡:															
Address:							c	omp	any	:				Ì			<u>\S</u>					, }		
City:	State: NM	Zip	:				Α	ttn:								į	P							
Phone #:	Fax #:						A	ddre	ess:				]	1			Cations/Anions			Ì		i 1		
Project #:	Project Owns	er:					С	ity:						Σ		工	1/8							
Project Name:	Warn State ACD#180A	1.0.					s	tate	:		Zip:		Chlorides	15	×	Texas TPH	l e							
Project Locatio			7	F			Р	hon	e #:				] <u>Ş</u>	TPH 8015	BTEX	S	afi:	TDS					,	
Sampler Name:	/ Jaf Harnis						F	ax#	:				] 을	~	M M	×a		<u> </u>						
FOR LAB USE ONLY		Τ.	Π	-	MA	TRIX		PR	RESE	RV.	SAMPL	ING	$\overline{\mathbf{G}}$	<u>a</u>		<u>e</u>	<b>e</b>					i l		
Lab I.D. H1019164	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	SOIL	OIL	SLUDGE	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME					Complete							
j	5. W. Corner B++M	6	1		7	1 1			1		9-14-11	11:00	V	V										
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3	Center BHM	G-	1		V	1			V		9-14-1)	11:10	V	1									ļ	
4	S.E. Corner BHM	6-	)		V			_	V		9-14-11	n: 15	V,	V	1	<u> </u>	ļ	ļ	<u> </u>	ļ				ļ
5	N.W. Porner BHM	G	1		V		_	1	V		9-14-11	11:30	V	V		<u> </u>								
6	Midale Center	4	1		V	11		$\perp$	/		9/14/11	11:25	1	1	<b> </b>	<u> </u>	ļ			ļ			ļ	<b> </b>
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PLEASE NOTE: Liability a	and Darnagea. Cardinal's liability and client's exclusive remedy fo	any clai	m arisi	ng wheth	er base	d in cont	ract or	lort, sh	all be li	mited t	o the amount pa	ld by the client fo	or the		L	<u></u>	<u> </u>	Щ.		L				
analyses. All claims includ	ing those for negligence and any other cause whatsoever shall b Cardinal be liable for incidental or consequental damages, includi	a deeme	d walv	ed unless	made l	n writing	and re	ceived	by Care	dinal w	ithin 30 days aft	er completion of t	the applica	ble										
affiliates or auccessors this Relinquished B	sing out for related to the performance of services hereunder by	Cardina	i, rega	ved B	whether	such cla	im is b	u bees	oon any	of the	above stated re	Phone Re Fax Resu REMARK	se. sult: lt:	□ Ye			Add'l Add'l	Phone Fax #:	#:					
Relinquished B	y: Date:	RE	cei	red B	y:			••••				email												
l	Time:	-										Natal	lie.G	ilado	en@	)usa	.apa	ched	corp.	.com	;			l

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

#26

Sample Condition
Cool Intact

Yes Yes

No No

CHECKED BY:

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



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

Apache		War	n State A/C #19	) AD
Company	•		site name	
	F	6	18S	35E
	Unit Letter	Section	Township	Range
	Groundwater Depth:	1(	00	ft
	Ground water 2 op un			- **
Compiled by:	Amy C	C. Ruth	Date:	5/1/2012
Comments:				
T17S R34E	0		O <sub>86'</sub>	T17S R35E
	O 123'			
	0123' 36	31 106' Industrial	32	
		106 industriai		
	O116'	O 95'		 
T18S R34E	<b>0</b> 123			T18S R35E
	1	60104' 079'	_	
	1	<b>O</b> 079	5,066	
		O 101'		:
		<u> </u>		
	12	7	8	
	O <sub>111'</sub>	O <sub>98'</sub> O <sub>87'</sub>	O 78'	
		,		



# New Mexico Office of the State Engineer

# **Currently Active Points of Diversion**

(with Ownership Information)

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

Shallow 1 3 31 17S 35E

	(acre	ft per annum)			(quarters are	e smalle:	st to lar	gest)	(NAD83 UTM	in meters)	
	Sub				q	qq					
WR File Nbr	basin Use Di	version Owner	County POD Number	Grant	Source 64	116 4 Se	c Twe	Rng	X	Y	
L 04247	L SRO	0 TEXACO, INC.	LE <u>L 04247</u>			1 1 3	178	35E	640119	3631386*	
			LE <u>L 04247 X</u>			3 1 3	175	35E	640125	3630983*	
			LE <u>L 04247 X3</u>			3 3 3	178	35E	640138	3630176*	
L 04247 A	L IND	1400 INTREPID MINING NM LLC	LE <u>L 04247 POD5</u>		Shallow	1 3 3	1 178	35E	640156	3628964*	
			LE L 04247 POD6		Shallow 2	1 3 3	1 175	35E	640255	3629063*	

LE L 04247 POD5

Record Count: 6

L 12951

POD Search:

POD Number: L 04247

L PUB

0 LEA COUNTY

Sorted by: File Number

\*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.

640156 3628964\*



(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a

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

C=the file is water right file.)

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

closed)

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

(In feet)

POD Number	POD Code Subbasin	Countr	Q			1.00	Tyre	Pna	X		Depth	47	Water Column
POD Number	Code Subbasin	County	04	10	4	Sec	I W5	Kiig		·····	AACII	vvalei	Columni
L 04247 POD5	L	LE		1	3	31	17S	35E	640156	3628964*	235	95	140
L 04247 POD6	L	LE	2	1	3	31	17S	35E	640255	3629063*	232	117	115
L 07695	L	LE		3	4	32	17S	35E	642554	3628586*	198	85	113
									Avera	age Depth t	o Water:	99 1	feet
										Minimur	n Depth:	85	feet
										Maximur	n Depth:	117	feet

Record Count: 3

PLSS Search:

Section(s): 31, 32

Township: 17S

Range: 35E

\*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.

5/1/12 1:57 PM

Page 1 of 1

WATER COLUMN/ AVERAGE **DEPTH TO WATER** 



(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a (R=POD has been replaced, O=orphaned,

C=the file is

water right file.) closed)

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

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

(In feet)

POD Number	POD Code Subbasin	County	Q 64		'n.,		Tws	Rng	in a	<b>X</b>		Y		•	Water Column
L 04250	L	LE	addina allaquade tu	anne i Thailithia na	ari Aldonovira	05		35E	64237		62756	5*	112	60	52
L 04591	L	LE		4	2	05	18S	35E	64297	0 3	62778	5*	130	75	55
L 04664	L	LE		2	3	05	18S	35E	64217	1 3	62737	1*	140	70	70
L 04777	L	LE	1	2	2	07	18S	35E	64127	9 3	62665	3*	145	85	60
L 04778	L	LE		2	1	07	18S	35E	64057	5 3	62654	5*	150	75	75
L 04794	L	LE			4	07	18S	35E	64120	0 3	62554	0*	150	95	55
L 04796	L	LE	4	4	3	06	18S	35E	64066	7 3	62684	7*	150	95	55
L 04906	L	LE			3	07	18S	35E	64041	5 3	62553	2*	155	87	68
<u>L 04975</u>	L	LE	2	2	3	07	18S	35E	64068	8 3	62583	7*	152	105	47
L 07119	L	LE	1	1	1	06	18S	35E	64006	8 3	62825	5*	233	95	138
L 07119 S	L	LE	1	2	1	06	18S	35E	64044	5 3	62825	9*	233	95	138
									Av	erage	Depth	h tc	Water	85	feet
											Minim	um	Depth	60	feet

Record Count: 11

PLSS Search:

Section(s): 5, 6, 7, 8

Township: 18S

Range: 35E

Maximum Depth: 105 feet



(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a

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

C=the file is closed)

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

(In feet)

water right file.)	closed)	((	quarters	are sm	alle	est to	large	est)	(NAD83 UTN	/I in meters)		(In fee	et)
		POD		QQ	Q						Depth	Depth	Water
POD Number	Code S	ubbasin	County	64 16	4	Sec	Tws	Rng	<u> </u>	<u> Y</u>	Well	Water	Column
L 04160		L	LE	3	3	01	18S	34E	638585	3626911*	165	100	65
L 04851		L,	LE	4	2	12	18S	34E	639801	3626130*	155	95	60
L 05079		L	LE	1	3	12	18S	34E	638604	3625702*	159	76	83
									Avera	age Depth t	o Water	: 90	feet
										Minimur	n Depth	: 76	feet
										Maximur	n Depth	: 100	feet

**Record Count:** 3

**PLSS Search:** 

**Section(s):** 1, 12

Township: 18S

Range: 34E



(A CLW##### in the POD suffix indicates the POD has been replaced

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

& no longer serves a C=the file is

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

water right file.) closed)

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

(In feet)

POD Q Q Q Depth Depth Water

POD Number Code Subbasin County 64 16 4 Sec Tws Rng X Y Well Water Column

L 05003

L LE 1 36 17S 34E

638742 3629538\*

135 105

30

Average Depth to Water:

er: **105 feet** 

Minimum Depth: 1

105 feet

Maximum Depth:

105 feet

Record Count: 1

PLSS Search:

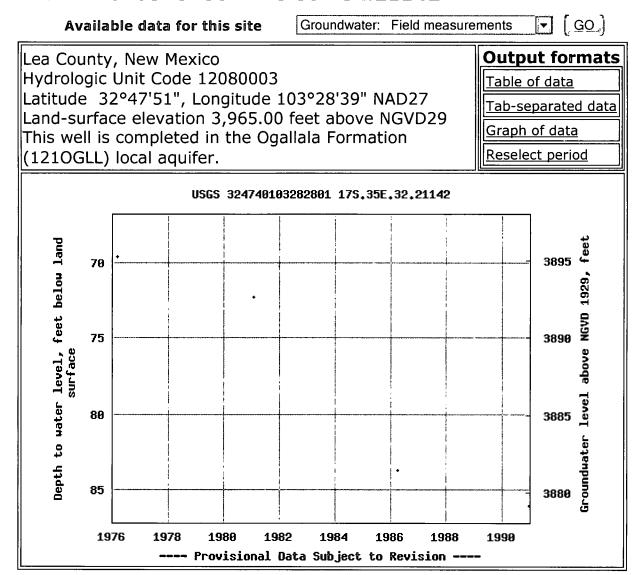
Section(s): 36

Township: 17S

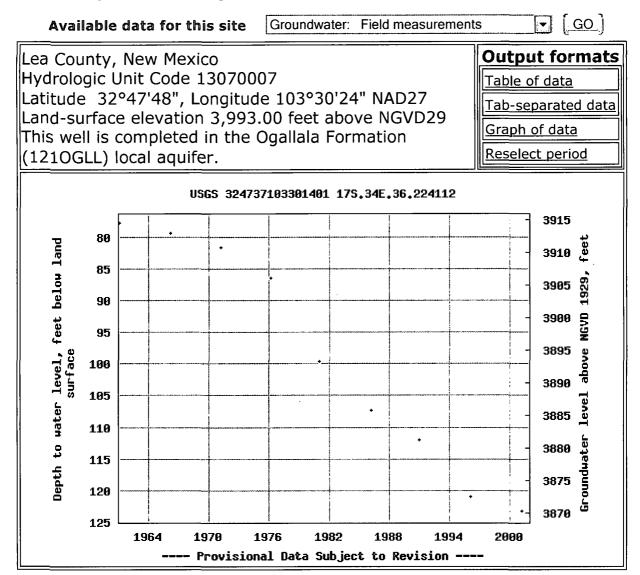
Range: 34E

\*UTM location was derived from PLSS - see Help

# USGS 324740103282801 17S.35E.32.21142



# USGS 324737103301401 17S.34E.36.224112



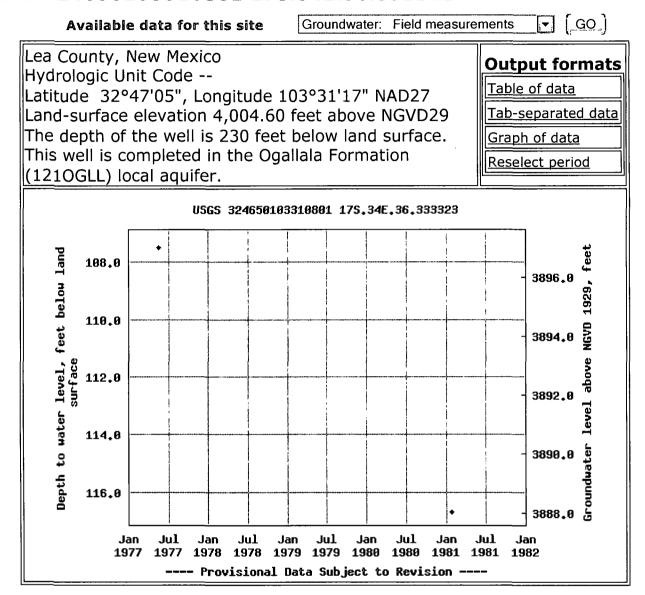
#### USGS 324712103310201 17S.34E.36.31231

**▼** [GO] Groundwater: Field measurements Available data for this site **Output formats** Lea County, New Mexico Hydrologic Unit Code 13070007 Table of data Latitude 32°47'25", Longitude 103°31'11" NAD27 Tab-separated data Land-surface elevation 3,996.00 feet above NGVD29 Graph of data This well is completed in the Ogallala Formation Reselect period (1210GLL) local aquifer. USGS 324712103310201 175,34E,36,31231 80 ge 4 2015 Depth to water level, feet below land surface 85 3910 90 3905 95 3900 100 3895 105 3890 110 3885 3880 Best 3875 Groundaat 115 120 125 1961 1964 1967 1970 1973 1976 1979 1982 1985 1988 1991 -- Provisional Data Subject to Revision --

#### USGS 324657103292801 17S.35E.31.43411

[ GO ] Groundwater: Field measurements Available data for this site Lea County, New Mexico **Output formats** Hydrologic Unit Code 13070007 Table of data Latitude 32°47'08", Longitude 103°29'38" NAD27 Land-surface elevation 3,968.00 feet above NGVD29 Tab-separated data The depth of the well is 146 feet below land surface. Graph of data This well is completed in the Ogallala Formation Reselect period (1210GLL) local aquifer. USGS 324657103292801 175,35E,31,43411 3905 Depth to water level, feet below land surface 65 3900 70 3895 **75** 3890 80 3885 85 3880 90 3875 95 1967 1970 1973 1976 1979 1982 1985 1988 1991 1961 1964 Provisional Data Subject to Revision -

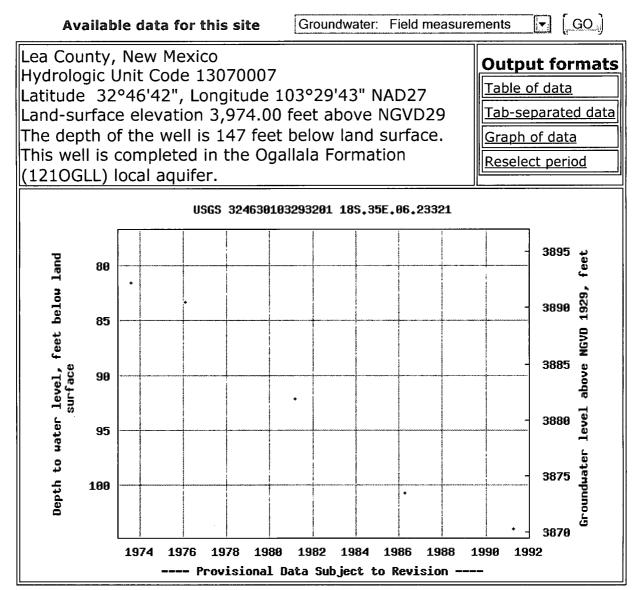
#### USGS 324650103310801 17S.34E.36.333323



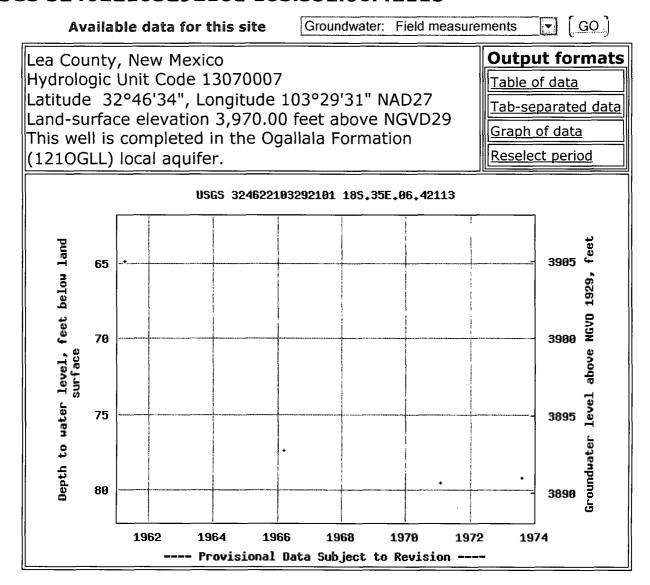
## USGS 324651103303901 18S.34E.01.12222

GO Groundwater: Field measurements Available data for this site **Output formats** Lea County, New Mexico Hydrologic Unit Code 13070007 Table of data Latitude 32°47'02", Longitude 103°30'50" NAD27 Tab-separated data Land-surface elevation 3,991.00 feet above NGVD29 Graph of data This well is completed in the Ogallala Formation Reselect period (1210GLL) local aquifer. USGS 324651103303901 185,34E,01,12222 80 3910 Depth to water level, feet below land surface 85 3905 90 3900 95 3895 100 3890 105 3885 110 3880 3875 Standard 115 120 125 1961 1964 1967 1970 1973 1976 1979 1982 1985 1988 1991 Provisional Data Subject to Revision

#### USGS 324630103293201 18S.35E.06.23321



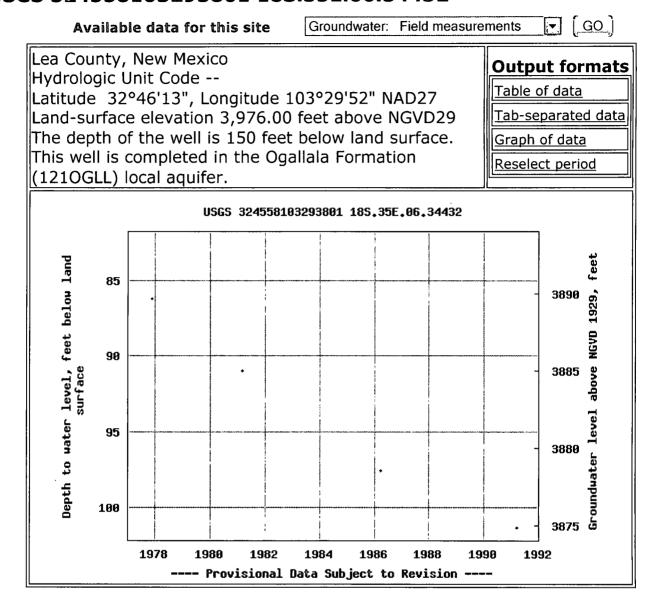
# USGS 324622103292101 18S.35E.06.42113



## USGS 324621103283101 18S.35E.05.41123

**▼** [GO] Groundwater: Field measurements Available data for this site Lea County, New Mexico **Output formats** Hydrologic Unit Code 13070007 Table of data Latitude 32°46'34", Longitude 103°28'41" NAD27 Tab-separated data Land-surface elevation 3,955.00 feet above NGVD29 The depth of the well is 112 feet below land surface. Graph of data This well is completed in the Ogallala Formation Reselect period (1210GLL) local aquifer. USGS 324621103283101 185.35E.05.41123 3892.0 63.0 Depth to water level, feet below land surface 3891.5 63.5 3891.0 64.0 3890.5 🕏 64.5 65.0 3890.0 65.5 3889.5 66.0 3889.0 66.5 3888.5 67.0 3888.0 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 - Provisional Data Subject to Revision

# USGS 324558103293801 18S.35E.06.34432



## USGS 324522103300801 18S.35E.07.313114

 $\overline{\mathbf{GO}}$ Groundwater: Field measurements Available data for this site Lea County, New Mexico **Output formats** Hydrologic Unit Code 13070007 Table of data Latitude 32°45'37", Longitude 103°30'17" NAD27 Tab-separated data Land-surface elevation 3,972.00 feet above NGVD29 The depth of the well is 212 feet below land surface. Graph of data This well is completed in the Ogallala Formation Reselect period (1210GLL) local aquifer. USGS 324522103300801 185,35E.07,313114 20 3950 Depth to water level, feet below land surface 30 3940 48 3930 50 3920 60 3910 70 3900 80 Groundwat 3890 90 3880 100 1967 1970 1973 1976 1979 1982 1985 1988 1991 Provisional Data Subject to Revision

#### USGS 324520103292201 18S.35E.07.42331

▼ [GO] Groundwater: Field measurements Available data for this site Lea County, New Mexico **Output formats** Hydrologic Unit Code 13070007 Table of data Latitude 32°45'34", Longitude 103°29'31" NAD27 Land-surface elevation 3,961.00 feet above NGVD29 Tab-separated data The depth of the well is 207 feet below land surface. Graph of data This well is completed in the Ogallala Formation Reselect period (1210GLL) local aquifer. USGS 324520103292201 185.35E.07.42331 3880.0 81.0 Jepth to water level, feet below land surface 3879.0 82.0 3878.0 83.0 3877.0 84.0 85.0 3876.0 86.0 3875.0 87.0 3874.0 88.0 3873.0 1976 1980 1982 1992 1978 1984 1986 1988 1990 Provisional Data Subject to Revision

## USGS 324519103302301 18S.34E.12.41444

Groundwater: Field measurements Available data for this site Lea County, New Mexico **Output formats** Hydrologic Unit Code 13070007 Table of data Latitude 32°45'32", Longitude 103°30'34" NAD27 Land-surface elevation 3,982.00 feet above NGVD29 Tab-separated data The depth of the well is 204 feet below land surface. Graph of data This well is completed in the Ogallala Formation Reselect period (1210GLL) local aquifer. USGS 324519103302301 185,34E,12,41444 3875 Depth to water level, feet below land surface 110 3870 115 3865 120 3860 125 3855 130 Jul Jul Jul Jul Jul Jul Jan Jan Jan Jan Jan Jan 1966 1966 1967 1967 1968 1968 1969 1969 1970 1970 1971 1971 1972 Provisional Data Subject to Revision

# USGS 324518103285301 18S.35E.08.323331

Groundwater: Field measurements Available data for this site Lea County, New Mexico **Output formats** Hydrologic Unit Code 13070007 Table of data Latitude 32°45'32", Longitude 103°29'00" NAD27 Tab-separated data Land-surface elevation 3,952.00 feet above NGVD29 The depth of the well is 216 feet below land surface. Graph of data This well is completed in the Ogallala Formation Reselect period (1210GLL) local aquifer. USGS 324518103285301 185,35E,08,323331 Depth to water level, feet below land surface 70 3886 g 80 3870 90 3860 100 3850 110 3840 120 3830 130 1962 1964 1966 1968 1970 1972 1974 1976 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

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

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

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

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

Revised October 10, 2003

Form C-141

side of form

# **Release Notification and Corrective Action**

						<b>OPERA</b>	ГOR		Initia	al Report	$\boxtimes$	Final Report	
Name of Company Apache Corp.						Contact Natalie Gladden							
Address P.O. Box 1849, Eunice, NM, 88231						Telephone No. (575) 390-4186							
Facility Nar	ne Wa	arn State A/C	C#19			Facility Typ	e Productio	n Well	-				
Surface Owner Mineral Owner						State of NM			Lease No. 30-025-31927				
				LOCA	TION	N OF REI	LEASE						
						South Line	Feet from the	East/West Line		County			
F	6	18S	35E	2010	FNL		2230	FWL		Lea	Lea		
Latitude						Longitue	ongitude						
NATURE OF RELEASE													
Type of Rele	ase Drod	luced Water	Volume of Release 10 bbl Volume Recovered 1 bbl										
Type of Release Produced Water  Source of Release Flow line leak						Date and H	Date and Hour of Discovery						
						09/6/11 09/6/11				Trodi of Biscovery			
Was Immediate Notice Given?						If YES, To Whom?							
			No Not Re	equired									
By Whom? Was a Watercourse Reached?						Date and Hour							
Was a Watercourse Reached?						If YES, Volume Impacting the Watercourse.							
If a Watercou	irse was Im	pacted, Descr	ibe Fully.	*									
									DW = 1	.04°		</td	
		em and Reme											
Flow line lea	k. Fluid wa	is recovered a	nd locatio	n back-dragged ut	ntil one-	call cleared.							
Describe Are	a Affected	and Cleanup A	Action Tal	ken.*						<del></del>		·	
The leak affe	cted an area	a of pasture la	nd. Impac	eted soils were ren									
			t to a comi	mercial laboratory	for chlo	oride and TPF	d confirmation. T	he exca	vation was	backfilled v	with cle	an soil and	
Contoured to			iven above	e is true and comp	lete to th	ne hest of my	knowledge and u	nderstar	d that nurs	suant to NM	OCD r	ules and	
				nd/or file certain r									
public health	or the envi	ronment. The	acceptano	ce of a C-141 repo	ort by the	e NMOCD m	arked as "Final Re	eport" d	oes not rel	ieve the ope	rator of	liability	
				investigate and r									
		ıddition, NMC ws and/or regi		otance of a C-141	report d	oes not reliev	e the operator of i	responsi	bility for c	ompliance v	vith any	other	
rederal, state.	of focal fa	ws and/or regu	ulations.				OIL CONS	CEDV	ATION	DIVISIO	```		
		talie	$\mathcal{I}$	ladd			OIL CON		D & a	DIVISION	AA a		
Signature:	$-\mu$	Mull	( J)	Julia			Me			TONG		~	
Printed Name	: Natali	e Gladden			Approved by District Supervise Privironmental Specialist								
Title: EH&S Environmental Tech						Approval Date: W9112 Expiration Date:							
						•			F				
E-mail Address: Natalie.gladden@apachecorp.com						Conditions of Approval:				Attached			
Date: (19/12 Phone: (575) 390-4186										VRP-0	6-14	-3082	
Attach Addi	tional She	ets If Necess	ary										