District I 1625 N. French Dr., Hobbs, NM 88240 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410

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

NOV 0 9 2012 Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

RECEIVED

_	-		Rele	ease Notific	catio	n and Co	orrective A	ction	1			
	•					OPERA'	ГOR		☐ Initia	al Report	$\boxtimes$	Final Report
Name of Co	ompany	Apache (	Corp.			Contact	Natalie Glad	lden			<u></u>	
Address		ox 1849, Ει	inice, NM	1, 88231		Telephone l						
Facility Na	me NE	EDU #348				Facility Typ	e Productio	n Well	1			
Surface Ow	ner Mo	cCasland		Mineral (	Owner	State of NM	1		Lease N	No. 30-025-	39583	j
				LOCA	ATIO	N OF RE	LEASE					
Unit Letter	Section	Township	Range	Feet from the	North	h/South Line	Feet from the	East/\	West Line	County		
Α	10	218	37E	10	FNL		330	FEL		Lea		
			Lat	itude		Longitu	de					
				NAT	ΓURE	E OF REL	EASE					
Type of Rele	ase Oil						Release 8 bbl		Volume F	Recovered .	5 bbl	
Source of Re	elease Stu	ffing box				Date and F 10/18/11	lour of Occurrenc	e	Date and 10/18/11	Hour of Dis	covery	
Was Immedi	ate Notice (		l Yes  ∇	No □ Not R	ennired	. If YES, To	Whom?					
By Whom?			1 1 03 23		equirec	Date and H	Jour					
Was a Water	course Read	ched?					olume Impacting t	he Wate	ercourse.			
			Yes 🛚	No		,	, ,					
If a Waterco	urse was Im	pacted, Descr	ibe Fully.'	*		·= ·h · ····						
										PTW=	241	<u> </u>
		em and Reme leasing fluid,		n Taken.* luid was recovere	ed and o	one-call was m	ade.					
Describe Are	ea Affected	and Cleanup.	Action Tal	*						_	<u>-</u>	
The leak affe	ected the cal	liche pad surre	ounding th	e wellhead and a			d to the south. Imp					
				ere collected fron e and contoured t			sent to a commerc	ial labo	ratory for c	hloride and	ТРН со	onfirmation.
I hereby cert	ify that the	information g	iven above	e is true and comp	olete to	the best of my	knowledge and u	ndersta	nd that purs	suant to NM	OCD r	ules and
regulations a	ll operators	are required	o report ai	nd/or file certain	release	notifications a	nd perform correc	tive act	ions for rel	eases which	may er	ndanger
							arked as "Final R ion that pose a thr					
							e the operator of					
		ws and/or reg					or the operator or			эт.р.тат.ее ,		
		- /	$\gamma_{\alpha}$				OIL CON	SERV	ATION	DIVISIO	<u>N</u>	- 4
Signature:	h	h010(.	In Vi	ddon	)		oh, J	21/10	٠, ١	POD AN	A a	Å
Digitature.		Mar-	,190			Approved by	District Supervis	$\mathcal{D}_{\mathcal{O}}$	W .	24 A	A)	i
Printed Nam	e: 'Natali	e Gladden				pp.o.ca oj	Er	viron	imental S	pecialist	<u> </u>	
Title: EH	&S Environ	mental Tech				Approval Da	tein. 11/09/1	2	Expiration	Date:	· ·	Å
E-mail Addr	ess: Nata	alie.gladden@	apachecor	p.com		Conditions o	f Approval:			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
i	1   _ 1	,					_			Attached	_	-0000
* Attach Add	itional She	ets If Necess		: (575) 390-4186	)					11117-00	0-17	-3090



HOBBS OCD

NOV 0 9 2012

RECEIVED

# **APACHE CORPORATION**

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

# NEDU #348

# Closure Report

API 30-025-39583

Release Date: October 18, 2011

Unit Letter A, Section 10, Township 21S, Range 37E

## Rice Environmental Consulting & Safety

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

May 2, 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 #348 AD UL/A sec. 10 T21S R37E API No. 30-025-39583

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 crude oil associated with the NEDU #348. A stuffing box ruptured, releasing fluid onto the well pad and road. Fluids were recovered and an initial form C-141 was submitted by Apache Corporation on October 18, 2011 (Appendix A). The site is located north of Eunice, in unit letter 'A' of section 10, T21S, R37E and south of NM Highway 248 in Lea County, New Mexico.

On October 18, 2011, RECS personnel initiated work on the NEDU #348. Surface soil samples were collected and field tested for chloride. Headspace measurements were also taken in the field using a Photo Ionization Detector (PID) (Figure 1). RECS personnel collected and similarly field tested additional samples as excavation of the leak proceeded.

On October 19, 2011, RECS personnel collected soil samples from the final shallow excavation (Figure 2). Representative grab samples were collected from the excavation edges and the excavation floor, and submitted to a commercial laboratory for chloride and TPH (GRO/DRO) analyses. In all samples, chloride did not exceed 128 ppm, and TPH did not exceed 311 ppm (Appendix C).

Impacted soils were removed from the excavation and transported to a NMOCD approved disposal facility. The excavation was backfilled with clean caliche 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 50 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 Baker

RECS

(575) 631-5157

#### Attachments:

Figure 1: Site Plat with Initial Field Sampling Data

Figure 2: Site Plat with Final Excavation Sampling 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



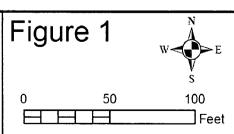
P.O. Box 5630 Hobbs, NM 88241 Phone 575.393.4411 Fax 575.393.0293

Initial Field Sampling Data 3 Х Pt. 1 10 Pt. 4 Pt. 5 **INITIAL FIELD DATA Sample Description** CI-PID 547 780.4 Pt.1 Pt.2 2,942 714.1 Pt.3 Legend 390 1,031.2 Pt.4 2,124 858.8 SAMPLE POINT Pt.5 1,169 1,163.0 **WELLHEAD** Pt.6 5,650 623.6 - FLOW LINE Pt.7 815 594.9 **ELECTRICAL LINE** > PAD **LEAK AREA PUMP BASE** 



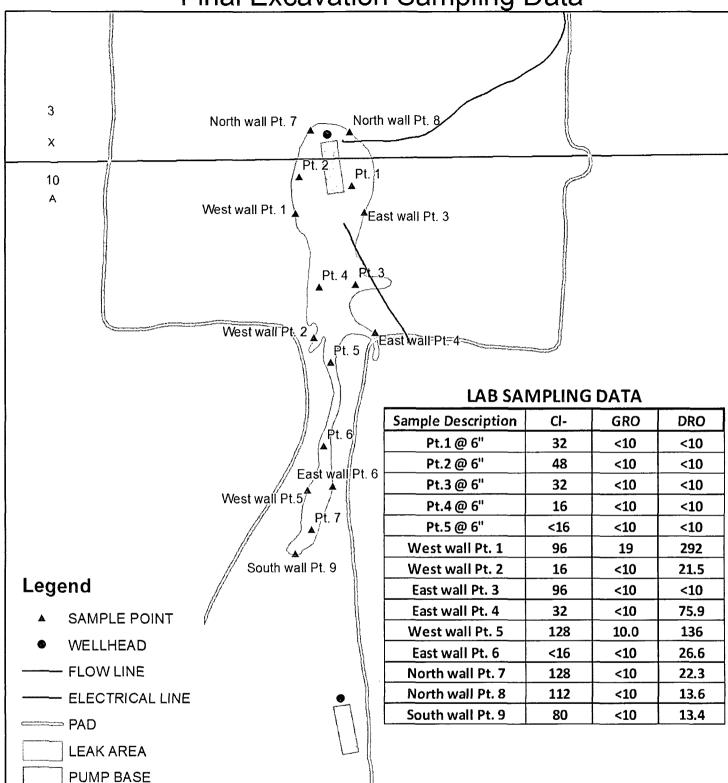
# APACHE NEDU #348 AD

UL X SEC. 3 & UL A SEC. 10 T-21-S R-37-E LEA COUNTY, NM



GPS date: 10/18/11 by BB & 10/19/11 by RP Drawing date: 10/19/11 & 10/21/11 Drafted by: T. Grieco, L. Weinheimer

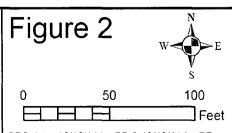
Final Excavation Sampling Data





## **APACHE** NEDU #348 AD

UL X SEC. 3 & UL A SEC. 10 T-21-S R-37-E LEA COUNTY, NM



GPS date: 10/18/11 by BB & 10/19/11 by RP Drawing date: 10/19/11 & 10/21/11 Drafted by: T. Grieco, L. Weinheimer



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

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

Form C-141

Revised August 8, 2011

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

**Release Notification and Corrective Action OPERATOR** Initial Report Final Report Name of Company Apache Corporation Contact Natalie Gladden Address PO Box 1849 Eunice, NM 88231 Telephone No. 575-390-4186 Facility Name NEDU #348 Facility Type Production Well Mineral Owner State of NM Surface Owner McCasland API No. 30-025-39583 LOCATION OF RELEASE Unit Letter Section Township Feet from the North/South Line Feet from the East/West Line Range County 37E FNL 10 **21S** 10 330 FEL Lea Latitude Longitude NATURE OF RELEASE Type of Release Oil Volume of Release 8 Volume Recovered 5 Source of Release Stuffing box Date and Hour of Occurrence Date and Hour of Discovery 10/18/11 10/18/11 Was Immediate Notice Given? If YES, To Whom? Yes No Not Required By Whom? Date and Hour Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. ☐ Yes 🛛 No If a Watercourse was Impacted, Describe Fully.\* Describe Cause of Problem and Remedial Action Taken.\* Stuffing box blew out releasing fluid, standing fluid was recovered and one-call was made. Describe Area Affected and Cleanup Action Taken.\* NMOCD Guidelines will be followed to closure. 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 public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. OIL CONSERVATION DIVISION Signature: Approved by Environmental Specialist: Printed Name: Natalie Gladden Title: EHS Environmental Tech Approval Date: **Expiration Date:** E-mail Address: natalie.gladden@apachecorp.com Conditions of Approval: Attached |

10/18/11

Phone: 575-390-4186

<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

# **NEDU #348**

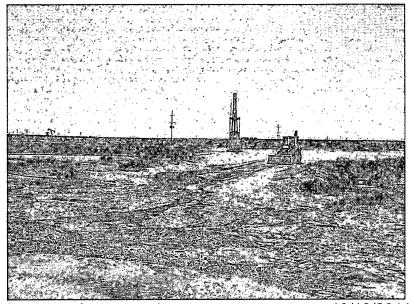
Unit Letter A, Section 10, T21S R37E

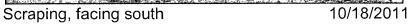


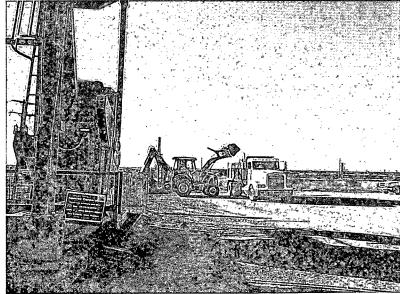
Initial release, facing north 10/18/2011



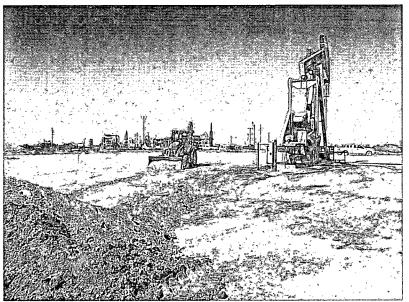
Initial release, facing north 10/18/2011







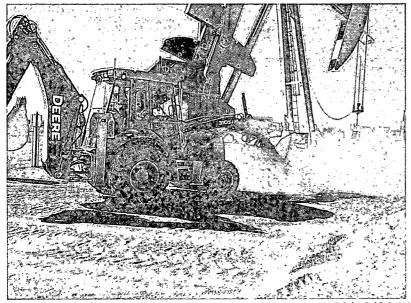
Exporting soil, facing south 10/19/2011



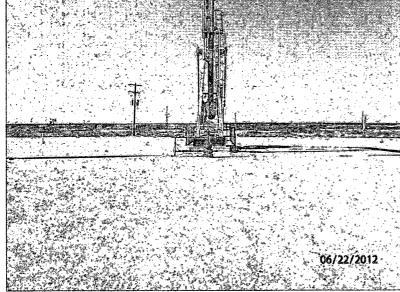
10/18/2011 Scraping, facing northwest



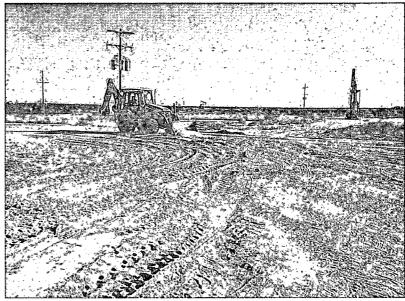
Importing soil, facing southwest



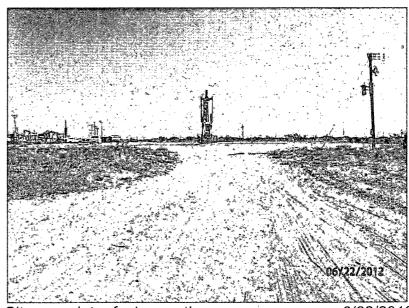




Site complete, facing south 6/22/2012



Backfilling, facing southeast 10/19/2011



Site complete, facing north

6/22/2012



RICE Environmental Consulting and Safety (RECS) 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

Fax To:

Received: Reported: 10/21/2011

10/27/2011

Project Name: Project Number: APACHE NEDU #348

Project Location:

NONE GIVEN

EUNICE, NM

Sampling Date:

10/19/2011

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: PT. 1 (H102283-01)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Chloride, 3P14300Cl-B	nig,	ny .	Allalyze	u by. Ar					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/26/2011	ND	448	112	400	0.00	
ΓΡΗ 8015M mg/kg		Analyze	Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/24/2011	ND	181	90.5	200	1.14	
DRO >C10-C28	<10.0	10.0	10/24/2011	ND	164	82.0	200	2.73	

Surrogate: 1-Chlorooctane

91.4%

55.5-154

Surrogate: 1-Chlorooctadecane

102 %

57.6-158

#### Sample ID: PT. 2 (H102283-02)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/26/2011	ND	448	112	400	0.00	
TPH 8015M	mg	/kg	Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/24/2011	ND	181	90.5	200	1.14	
DRO >C10-C28	<10.0	10.0	10/24/2011	ND	164	82.0	200	2.73	
Surrogate: 1-Chlorooctane	86.7	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	94.2	% 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** 394-2425 Fax To:

Received:

10/21/2011

Reported:

10/27/2011

Project Name: Project Number: APACHE NEDU #348

Project Location:

NONE GIVEN EUNICE, NM

Sampling Date:

10/19/2011

Sampling Type:

Sampling Condition:

Soil Cool & Intact

Sample Received By:

Jodi Henson

#### Sample ID: PT. 3 (H102283-03)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP				_	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/26/2011	ND	448	112	400	0.00	
TPH 8015M	mg	mg/kg		Analyzed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/24/2011	ND	181	90.5	200	1.14	
DRO >C10-C28	<10.0	10.0	10/24/2011	ND	164	82.0	200	2.73	
Surrogate: 1-Chlorooctane	93.5	% 55.5-15	4						

Surrogate: 1-Chlorooctane

93.5 %

55.5-154

Surrogate: 1-Chlorooctadecane

107 %

57.6-158

#### Sample ID: PT. 4 (H102283-04)

Chloride, SM4500CI-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/26/2011	ND	448	112	400	0.00	
TPH 8015M	mg/kg		Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/24/2011	ND	181	90.5	200	1.14	
DRO >C10-C28	<10.0	10.0	10/24/2011	ND	164	82.0	200	2.73	
Surrogate: 1-Chlorooctane	86.1	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	99.0	% 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:

10/21/2011

Reported:

10/27/2011

Project Name: Project Number: APACHE NEDU #348

Project Location:

NONE GIVEN EUNICE, NM

Sampling Date:

10/18/2011

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

#### Sample ID: PT. 5 (H102283-05)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/26/2011	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	10/24/2011	ND	181	90.5	200	1.14	
DRO >C10-C28	<10.0	10.0	10/24/2011	ND	164	82.0	200	2.73	
Surrogate: 1-Chlorooctane	83.2	% 55.5-15	4						211 111
Surrogate: 1-Chlorooctadecane	87.0	% 57.6-15	8						

#### Sample ID: WEST WALL PT. 1 (H102283-06)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	10/26/2011	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	19.0	10.0	10/24/2011	ND	181	90.5	200	1.14	
DRO >C10-C28	292	10.0	10/24/2011	ND	164	82.0	200	2.73	
Surrogate: 1-Chlorooctane	89.7	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	78.3	% 57.6-15	8						

#### Cardinal Laboratories \*=Accredited Analyte

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Celey D. Kune



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

Received:

10/21/2011

Sampling Date:

10/18/2011

Reported:

10/27/2011

Sampling Type:

Soil

Project Name:

APACHE NEDU #348

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

EUNICE, NM

Sample ID: WEST WALL PT. 2 (H102283-07)

Chlasida CMATOOCI D

mg,	/kg	Analyzed By: AP						
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
16.0	16.0	10/26/2011	ND	448	112	400	0.00	
TPH 8015M mg/kg		Analyzed By: AB						
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	10/24/2011	ND	181	90.5	200	1.14	
21.5	10.0	10/24/2011	ND	164	82.0	200	2.73	
	Result  16.0  mg,  Result  <10.0	16.0 16.0 mg/kg  Result Reporting Limit <10.0 10.0	Result         Reporting Limit         Analyzed           16.0         16.0         10/26/2011           mg/kg         Analyze           Result         Reporting Limit         Analyzed           <10.0	Result         Reporting Limit         Analyzed         Method Blank           16.0         16.0         10/26/2011         ND           mg/kg         Analyzed By: AB           Result         Reporting Limit         Analyzed         Method Blank           <10.0	Result         Reporting Limit         Analyzed         Method Blank         BS           16.0         16.0         10/26/2011         ND         448           mg/kg         Analyzed By: AB           Result         Reporting Limit         Analyzed         Method Blank         BS           <10.0	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery           16.0         16.0         10/26/2011         ND         448         112           mg/kg         Analyzed By: AB           Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery           <10.0	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC           16.0         16.0         10/26/2011         ND         448         112         400           mg/kg         Analyzed By: AB           Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC           <10.0	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC         RPD           16.0         16.0         10/26/2011         ND         448         112         400         0.00           mg/kg         Analyzed By: AB           Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC         RPD           <10.0

Surrogate: 1-Chlorooctane

95.0 %

55.5-154

Surrogate: 1-Chlorooctadecane

105 %

84.5 %

57.6-158

57.6-158

#### Sample ID: EAST WALL PT. 3 (H102283-08)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	10/26/2011	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	10/24/2011	ND	181	90.5	200	1.14	
DRO >C10-C28	<10.0	10.0	10/24/2011	ND	164	82.0	200	2.73	
Surrogate: 1-Chlorooctane	80.7	% 55.5-15	4						

#### Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

\*=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:

10/21/2011

Sampling Date:

10/19/2011

Reported:

10/27/2011

Sampling Type:

Soil

Project Name:

APACHE NEDU #348

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

EUNICE, NM

Sample ID: EAST WALL PT. 4 (H102283-09)

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mg/	k٥
11197	т,

#### Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/26/2011	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/24/2011	ND	181	90.5	200	1.14	
DRO >C10-C28	75.9	10.0	10/24/2011	ND	164	82.0	200	2.73	

Surrogate: 1-Chlorooctane

93.4%

55.5-154

Surrogate: 1-Chlorooctadecane

93.4 %

83.9 %

57.6-158

57.6-158

#### Sample ID: WEST WALL PT. 5 (H102283-10)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	10/26/2011	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	10/24/2011	ND	181	90.5	200	1.14	
DRO >C10-C28	136	10.0	10/24/2011	ND	164	82.0	200	2.73	
Surrogate: 1-Chlorooctane	88.6	% 55.5-15	4						

Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

\*=Accredited Analyte

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Celey E. Keine



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

Received:

10/21/2011

Reported:

Sampling Date:

10/18/2011

10/27/2011

Sampling Type:

Soil

Project Name:

APACHE NEDU #348

Sampling Condition:

Cool & Intact

Project Number: Project Location: NONE GIVEN EUNICE, NM

Sample Received By:

Jodi Henson

#### Sample ID: EAST WALL PT. 6 (H102283-11)

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	10/26/2011	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	10/24/2011	ND	181	90.5	200	1.14	
DRO >C10-C28	26.6	10.0	10/24/2011	ND	164	82.0	200	2.73	
Surrogate: 1-Chlorooctane	85.6	% 55.5-15	4						

Surrogate: 1-Chlorooctadecane

94.8 %

73.2 %

57.6-158

57.6-158

#### Sample ID: NORTH WALL PT. 7 (H102283-12)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	10/26/2011	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	10/24/2011	ND	181	90.5	200	1.14	
DRO >C10-C28	22.3	10.0	10/24/2011	ND	164	82.0	200	2.73	
Surrogate: 1-Chlorooctane	79.7	% 55.5-15	4						

#### Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

\*=Accredited Analyte

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Celegi Keine



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

Received: Reported: 10/21/2011

10/27/2011

101 %

57.6-158

Project Name: Project Number: Project Location: APACHE NEDU #348

NONE GIVEN EUNICE, NM

Sampling Date:

10/19/2011

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

#### Sample ID: NORTH WALL PT. 8 (H102283-13)

Chloride, SM4500Cl-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	10/26/2011	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	10/24/2011	ND	181	90.5	200	1.14	
DRO >C10-C28	13.6	10.0	10/24/2011	ND	164	82.0	200	2.73	
Surrogate: 1-Chlorooctane	85.6	% 55.5-15	4					-	
Surrogate: 1-Chlorooctadecane	90.2	% 57.6-15	8						

#### Sample ID: SOUTH WALL PT. 9 (H102283-14)

Chloride, SM4500Cl-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	10/26/2011	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	10/24/2011	ND	181	90.5	200	1.14	
DRO >C10-C28	13.4	10.0	10/24/2011	ND	164	82.0	200	2.73	
Surrogate: 1-Chlorooctane	85.8	% 55.5-15	4						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine

Surrogate: 1-Chlorooctadecane



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

	(575) 393-2326 FAX (575) 393-247	76								
Company Name	: Apau		BILL TO			ANA	ALYSIS REQ	UEST		
Project Manage	r: Norteine Chadder	1	P.O. #:							
Address:			Company:							
City:	State: NN	Zip:	Attn:							
Phone #:	Fax #:		Address:						1 1	
Project#:	Project Owne	r:	City:							
Project Name:	Apache NEON # 348		State: Zip:		15					
Project Locatio	: Syrice		Phone #:		× ×					
Sampler Name:	Doverto Pana		Fax #:		3016					
FOR LAB USE ONLY		MATRIX	PRESERV SAMPL	ING	Okie 1					
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Lab I.D.	Sample I.D.	R (C)	یہ ننا	-	48					
Lab I.D.	Sample i.b.	AB OR UNDW.	BAS:		$\neg \mid \Gamma \mid$					
H102283		(G)RAB OR (C)OA # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	ACID/BASE: ICE / COOL OTHER:	TIME						
1	BJ 1:	9/ V	10-19-11	8:30 AM 0	VU					
2	2+5	50 V	10:50	1 1	U					
3	A3	GUV	V 10.19.11.		/ V					
4	pt 4	GUV	10.18.11	17:00 N	V V					
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PLEASE NOTE: Liability a	d Damages, Cardinal's liability and dient's exclusive terriedy for	any claim arising whether based in contri	ict or tort, shall be limited to the amount pr	aid by the client for the						
service: In no event shall C	ng those for negligence and any other cause whatsoever shall be ardinal be liable for incidental or consequental damages, includin any out of or related to the performance of services bereunder by	g without limitation, business interruption	s, toss of use, at loss of profits incurred by	client, its subsidiaries.	pacame					
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Sampler - UPS	- Bus - Other:	No No	es / / 3//							



# 2 of 2

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Company Name	TIPACTO						BILLIO					: :				ANA	LYSI	SKE	QUE	51					
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Project Name:	Apacho NEDU	#248						s	State: Zip:						W						ŀ				
Project Location	n: Evrice							Phone #:					1.7	ļ,											
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Lab I.D.	Sample I		(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER SOIL W	TRIX	SLUDGE OTHER:		SER ICE / COOT		AMPL	TIME	Chloria	O TOL										
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										-77															

# 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

Apache		NEDU #348									
Company	-		site name								
	· <b>A</b>	10	210	27E							
	Unit Letter	10 Section	21S Township	37E  Range							
	Groundwater Depth:	5	50	_ ft							
Compiled by:	Amy (	C. Ruth	_ Date	:5/2/2012							
Comments											
Comments.											
	T			T							
		<u>.</u>									
	4 .	022' 3	2								
	75' Dom & Stock										
		☆									
	O58'										
	9	10	11								
	70' Dom & Stock		O28'								
	16	15	14								



# 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

(R=POD has been replaced,

& no longer serves a

O=orphaned, C=the file is

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

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

(In foot)

water right file.)	closed)	(quarters	are :	sm	alle	est to	arge	est)	(NAD83 UTN	/i in meters)		(in reet)	nggeldyndin a fyllyfrau fan radi gyg
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CP 00212		LE	2	2	1	14	21S	37E	675254	3595753*	46		
CP 00552		LE		2	4	04	21S	37E	672700	3598022*	90	75	15
CP 00553		LE		2	4	04	21S	37E	672700	3598022*	90	75	15
CP 00554		LE		2	2	16	21S	37E	672744	3595610*	80	70	10
									Avera	age Depth to	Water:	73 fee	et
										Minimum	Depth:	70 fee	et
										Maximum	Depth:	75 fee	et

**Record Count: 4** 

PLSS Search:

Section(s): 2, 3, 4, 9, 10,

11, 14, 15, 16

Township: 21S

Range: 37E



## New Mexico Office of the State Engineer

# **Currently Active Points of Diversion**

(with Ownership Information)

No PODs found.

POD Search:

POD Number: CP 00552

Usage Filter:

Use: PDL (NON 72-12-1 DOMESTIC & LIVESTOCK)

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.



## New Mexico Office of the State Engineer

# **Currently Active Points of Diversion**

(with Ownership Information)

No PODs found.

**POD Search:** 

POD Number: CP 00553

Usage Filter:

Use: PDL (NON 72-12-1 DOMESTIC & LIVESTOCK)

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.



## New Mexico Office of the State Engineer

# **Currently Active Points of Diversion**

(with Ownership Information)

No PODs found.

POD Search:

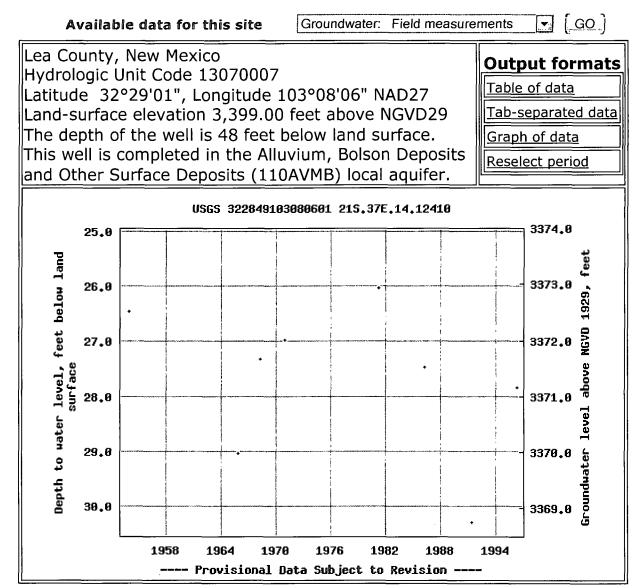
POD Number: CP 00554

**Usage Filter:** 

Use: PDL (NON 72-12-1 DOMESTIC & LIVESTOCK)

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 322849103080601 21S.37E.14.12410



## 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 Tab-separated data Land-surface elevation 3,466.60 feet above NGVD29 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 Depth to water level, feet below land surface 56.0 3410,0 57.0 3409.0 58.0 3408.0 59.0 3407.0 60.0 3406.0 61.0 3405.0 62.0 3404.0 63.0 3403.0 5 64.0 1967 1970 1973 1976 1979 1982 1985 1988 1991 1994 1997 -- Provisional Data Subject to Revision •

## USGS 323016103092001 21S.37E.03.31221

▼ [GO] Groundwater: Field measurements Available data for this site Lea County, New Mexico **Output formats** Hydrologic Unit Code 13070007 Table of data Latitude 32°30'40", Longitude 103°19'21" NAD27 Tab-separated data Land-surface elevation 3,424.10 feet above NGVD29 The depth of the well is 36 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 323016103092001 215.37E.03.31221 17.0 3407.0 Depth to water level, feet below land surface 3406.0 18.0 19.0 3405.0 20.0 3404.0 21.0 3403.0 22.0 3402.0 23.0 3401.0 24.0 3400.0 25.0 1973 1976 1979 1982 1985 1988 1991 Provisional Data Subject to Revision



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 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. HOBBS OCD

Form C-141 Revised October 10, 2003

NOV 0 9 2012 Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Attached

1RP-06-14-3090

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Name of Co	mpany	Apache (	Corp.			Contact	Natalie Glad	lden		ar report		Time repor
Address		ox 1849, Eu		1, 88231		Telephone 1			6	· · ·		
Facility Nar		EDU #348	,			Facility Typ						
Surface Ow	ner Mo	cCasland		Mineral (	Owner	State of NN	No. 30-025	-39583	}			
				LOCA	ATIO	N OF RE	LEASE					
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	East/V	West Line	County		
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By Whom?						Date and I						
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							knowledge and u	ndersta	nd that purs	suant to NM	OCD rı	ules and
							nd perform correc					
							arked as "Final R					
							ion that pose a thr					
				otance of a C-141	report d	loes not reliev	e the operator of	respons	ibility for c	ompliance v	vith any	other /
rederal, state,	or local la	ws and/or regu	nations.			OIL CON	CEDV	ATION	DIVICIO	<u></u>	·	
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Signature:		alle	7140	ader			SOLUTION OF THE PROPERTY OF TH	KAK CO	الملك الم	keru	Na	1
Printed Name	e: <b> </b> Natali	e Gladden	-	,		Approved by	District Supervis	₩ Wiron	mental S	pecialist	'Q	•
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Title: EH&	xs environ	mental Tech				Approvai Da	ICAL HOTH	<u></u>	Expiration	Date:		APRIL DE

Conditions of Approval:

Natalie.gladden@apachecorp.com

Phone: (575) 390-4186

E-mail Address:

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