

APACHE CORPORATION

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

Geronimo 28 State #1

Closure Report

API 30-015-31829

Release Date: August 24, 2011

Unit Letter J, Section 28, Township 17S, Range 28E

Rice Environmental Consulting & Safety

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

April 11, 2013

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

> RE: TERMINATION REQUEST Apache – Geronimo 28 State #1 AD UL/J sec. 28 T17S R28E API No. 30-015-31829

Mr. Bratcher:

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

Background and Previous Work

The site is an accidental discharge of produced water associated with the Geronimo 28 State #1. A water line ruptured and released fluids onto pasture land. The line was repaired and an initial form C-141 was submitted by Apache Corporation on August 26, 2011 (Appendix A). The site is located 11 miles east of Carlsbad, in unit letter 'J' of section 28, T17S, R28E in Eddy County, New Mexico.

On August 25, 2011, RECS personnel initiated work on the Geronimo 28 State #1 (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 19,600 ppm (parts per million or mg/kg) to 33,200 ppm. GRO ranged from <10.0 ppm to 473 ppm and DRO ranged from 54.3 ppm to 26,100 ppm.

The impacted area was excavated to 1 ft. below ground surface (bgs), however, a gas line and several flow lines running along the south edge of the area prevented safe excavation activities along the south wall. On August 30, 2011, RECS personnel collected and field tested representative grab samples from the north, west, and east walls and the floor of the excavation (Figure 2). The samples were submitted to a commercial laboratory for chloride and TPH analyses (Appendix C). Chloride did not exceed 240 ppm in all samples. TPH did not exceed 17.1 ppm in all samples.

Impacted soils were removed from the excavation and transported to a NMOCD approved disposal facility with the exception of impacted soils near the south edge of the leak area. The excavation was backfilled with clean topsoil and contoured to the surrounding area. See Appendix B for photographs of field activities.

Conclusion

According to the NM Office of the State Engineer and the U.S. Geological Survey, depth to groundwater in the area is approximately 88 ft. bgs (Appendix D). Due to the removal of the majority of impacted soils excepting the south edge by reason of excavation safety risks, and also due to the shallow depth of constituent impact throughout the affected area, 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.

Sincerely,

Bruce Baker

Project Manager

Bruce Balen

RECS

(575) 631-5157

Attachments:

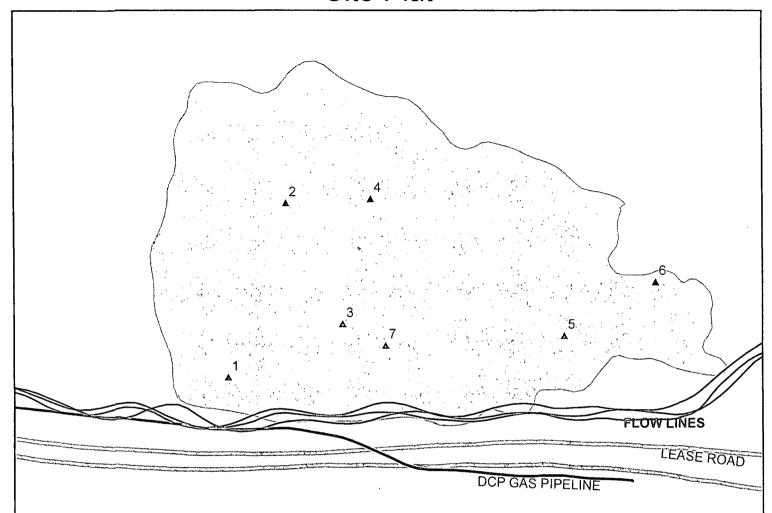
Figure 1: Site Plat including Initial Sample Data

Figure 2: Site Plat including Final Excavation Sample 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



Site Plat



INITIAL SAMPLING LAB DATA

Legend

- **▲** SAMPLE POINT
- BURIED PIPELINE

----- FLOW LINE

LEASE ROAD

AD IMPAC

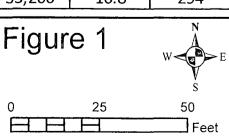
AD IMPACT AREA (11,052 sq ft)

Sample Description	Cl-	GRO	DRO							
Pt. 1	25,200	473	26,100							
Pt. 2	19,600	96.2	1,800							
Pt. 3	31,200	15.2	109							
Pt. 4	19,600	233	14,400							
Pt. 5	31,600	14.7	54.3							
Pt. 6	32,000	<10	122							
Pt. 7	33,200	16.8	294							



APACHE GERONIMO 28 State #1

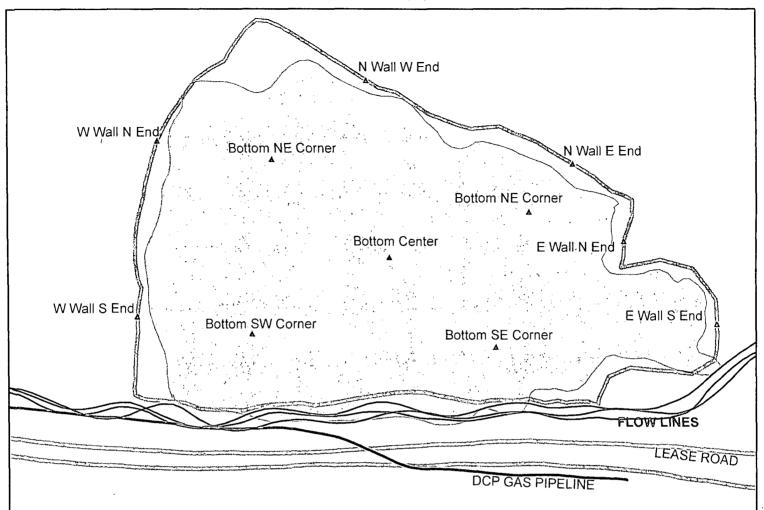
UL/O SECTION 28 T-17-S R-28-E EDDY COUNTY, NM



GPS date: 8/25&29/11 DH Drawing date: 8/30/11

Drafted by: T. Grieco, L. Weinheimer

Site Plat



FINAL EXCAVATION LAB DATA

Sample Description	Cl-	GRO	DRO
Bottom Center	240	<10	<10
Bottom NW Corner	48	<10	<10
Bottom SE Corner	<16	<10	<10
Bottom NE Corner	<16	<10	<10
Bottom SW Corner	160	<10	17.1
W Wall S End	<16	<10	<10
W Wall N End	<16	<10	<10
N Wall E End	<16	<10	<10
E Wall N End	<16	<10	<10
N Wall W End	32	<10	<10
E Wall S End	<16	<10	<10

Legend

- **▲** FINAL SAMPLE POINTS
- BURIED PIPELINE

----- FLOW LINE

LEASE ROAD

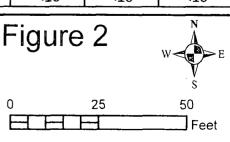
SCRAPED AREA (12,163 sq ft)

AD IMPACT AREA (11,052 sq ft)



APACHE GERONIMO 28 State #1

UL/O SECTION 28 T-17-S R-28-E EDDY COUNTY, NM



GPS date: 8/25&29/11 DH Drawing date: 8/30/11

Drafted by: T. Grieco, L. Weinheimer

Appendix A Initial Form C-141

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

Attach Additional Sheets If Necessary

State of New Mexico Energy Minerals and Natural Resources

Revised August 8, 2011

Form C-141

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

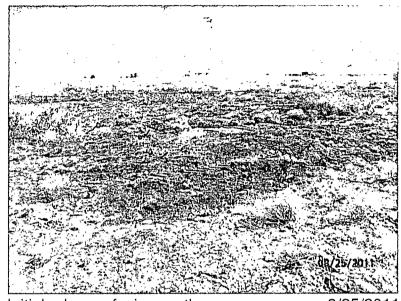
Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action															
						OPERATOR									
Name of Co				···			talie Gladden	0.6							
Address PC Facility Nan							No. 575-390-41 e Production w			· · · · · · · · · · · · · · · · · · ·					
							o rroduction w			20.01.7.7	7000				
Surface Own	ner Unkno	own		Mineral C)wner S	St		API No	o. 30-015-31829						
						OF REI	LEASE								
Unit Letter	Section	Township	Range	Feet from the	North/S	South Line	Feet from the	East/Wes	t Line	County					
J	28	17S	28E	1500	FSL		1800	FEL		Lea					
•			La	titude		_ Longitud	e								
				NAT	URE	OF RELI	EASE								
·Type of Relea	ase Produc	ed Water				Volume of	Release 5			ecovered 0					
Source of Re	lease Water	r line				Date and H 8/24/11	lour of Occurrence			Hour of Disc	covery				
Was Immedia	ate Notice C	Given?				8/24/11 8/24/11 12pm If YES, To Whom?									
			Yes 🛚	No 🗌 Not Re	equired										
By Whom?		1 10				Date and Hour If YES, Volume Impacting the Watercourse.									
Was a Watero	course Reac	ned?	Yes [] No		If YES, Vo	lume Impacting t	the Waterco	ourse.						
If a Watercou	rse was Im	nacted Descr	ibe Fully *	k		l									
na watereed	1100 4143 1111	puotou, Dosor	ioo i unij.												
Describe Cau					. 15 T		1 1 1 1	,							
Waterline lea	k between t	he Red Lake	Battery an	d the Geronimo v	vell. Lin	e was repaire	ed and remediatio	n began.							
Describe Area	A ffected s	and Cleanup A	ation Tak	an *											
				NMOCD Guidelii	nes.						•				
								•							
			•												
I hereby certif	fy that the in	nformation gi	ven above	is true and comp	lete to th	e best of my	knowledge and u	nderstand t	that purs	uant to NM	OCD r	ules and			
regulations al	l operators a	are required to onment. The	o report an acceptanc	d/or file certain re e of a C-141 repo	elease no ort by the	otifications ar NMOCD m	id perform correc arked as "Final R	tive action: eport" does	s for rele	eases which	may er	ndanger Fliability			
should their o	perations ha	ave failed to a	dequately	investigate and re	emediate	contaminati	on that pose a thr	eat to group	nd water	, surface wa	ter, hu	man health			
or the environ federal, state,				tance of a C-141	report do	es not reliev	e the operator of	responsibil	ity for co	ompliance w	ith an	y other			
rederal, state,	OI IOCAI IAW	/s and/or regu	Tations.	• ,			OIL CON	SFRVA	TION	DIVISIO	N				
Signature:	h	3000 (7	addin			<u>oib corn</u>	<u>SDIC VII</u>	11011	DIVIDIO	<u> </u>				
Signature.	- Hell	Mix (MAA		Annroved by	Environmental S	necialist:							
Printed Name	: Natalie G	ladden					2 Tronsitional b								
Title: EHS E	nvironment	al Tech			A	Approval Dat	e:	Exp	oiration l	Date:					
E-mail Addre	ss: <u>natalie.</u>	gladden@yah	oo.com		c	Conditions of	Approval:			A 44 1 1					
Date: 8/26/	11	Phone: 575	-390-4186							Attached	Ц				



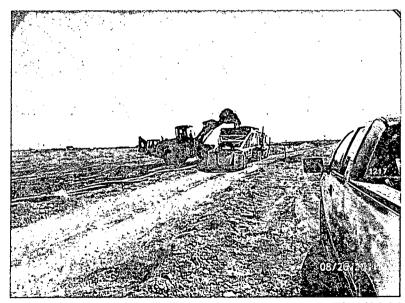
Geronimo 28 State #1

Unit Letter J, Section 28, T17S, R28E



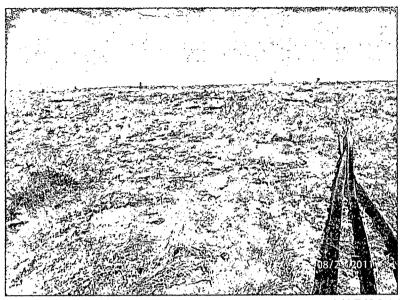
Initial release, facing north

8/25/2011



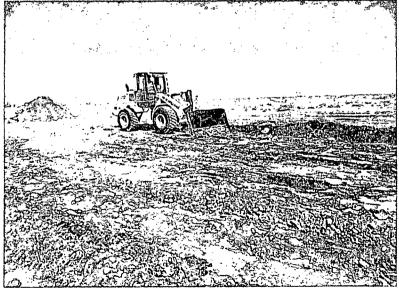
Exporting soil, facing northeast

8/26/2011



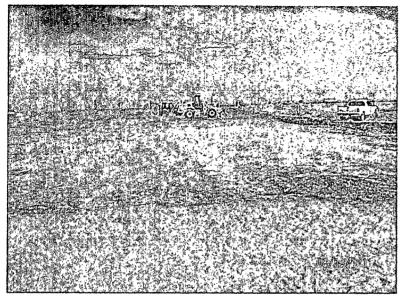
Initial release, facing west

8/25/2011



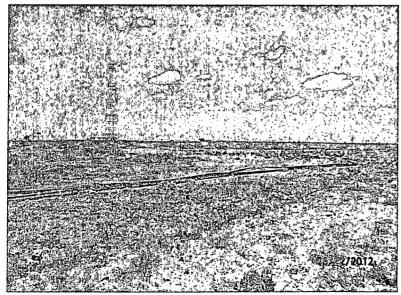
Scraping, facing northwest

8/26/2011



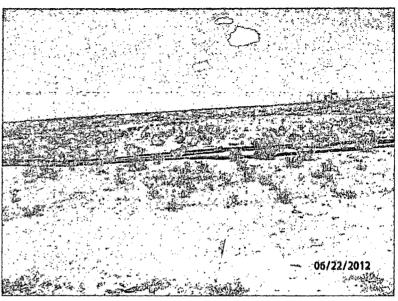
Excavation complete, facing east

8/29/2011



Site complete, facing northeast

6/22/2012



Site complete, facing north

6/22/2012



Site complete, facing southwest

6/22/2012





August 29, 2011

NATALIE GLADDEN

APACHE - EUNICE

P. O. BOX 1849

EUNICE, NM 88231

RE: GERONOMO #1

Enclosed are the results of analyses for samples received by the laboratory on 08/26/11 8:03.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method \$W-846 8260

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method TX 1005

Total Petroleum Hydorcarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keene

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Received:

08/26/2011

Reported:

08/29/2011

Project Name: Project Number: GERONOMO #1 NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

amping Date.

08/25/2011

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: PT. 1 (H101806-01)

Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	25200	16.0	08/26/2011	ND	432	108	400	7.69	
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	473	50.0	08/28/2011	ND	206	103	200	0.766	
DRO >C10-C28	26100	50.0	08/28/2011	ND	184	91.8	200	1.99	
Surrogate: 1-Chlorooctane	98.3	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	80.6	% 57.6-15	8						

Sample ID: PT. 2 (H101806-02)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM			<i>y</i>	···	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	19600	16.0	08/26/2011	ND	432	108	400	7.69	
TPH 8015M	mg,	/kg	Analyzed By: ab					<u></u>	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	96.2	50.0	08/28/2011	ND	206	103	200	0.766	
DRO >C10-C28	1800	50.0	08/28/2011	ND	184	91.8	200	1.99	
Surrogate: 1-Chlorooctane	100	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	99.5	% 57.6-15	8						

Cardinal Laboratories

*=Accredited Analyte

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Celeg & Keene



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

Received:

08/26/2011

Reported:

08/29/2011

Project Name: Project Number: GERONOMO #1 NONE GIVEN

Project Location:

Analyte

Analyte

NOT GIVEN

Sampling Date:

08/25/2011

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: PT. 3 (H101806-03)

Chloride, SM4500Cl-B

Chloride **TPH 8015M**

GRO C6-C10

DRO >C10-C28

mg/kg

mg/kg

Reporting Limit

16.0

Reporting Limit

10.0

10.0

Result

31200

Result

15.2

109

Analyzed By: AP

Analyzed

08/26/2011

Analyzed

08/28/2011

08/28/2011

Analyzed By: ab

Method Blank

ND

Method Blank

ND

ND

BS

432

BS

206

184

% Recovery 108

% Recovery

103

91.8

True Value QC 400

RPD

3.64

1.99

RPD Qualifier

Qualifier

True Value QC

200 200

0.766

Surrogate: 1-Chlorooctane

63.0 %

55.5-154

Surrogate: 1-Chlorooctadecane

79.1%

90.5 %

57.6-158

57.6-158

Sample ID: PT. 4 (H101806-04)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	19600	16.0	08/26/2011	ND	432	108	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	233	50.0	08/28/2011	ND	206	103	200	0.766	
DRO >C10-C28	14400	50.0	08/28/2011	ND	184	91.8	200	1.99	
Surrogate: 1-Chlorooctane	97.1	% 55.5-15	4						

Cardinal Laboratories

Surrogate: I-Chlorooctadecane

*=Accredited Analyte

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Celey & Keene





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

Received:

08/26/2011

Reported:

08/29/2011 GERONOMO #1

Project Name: Project Number:

NONE GIVEN

90.6%

57.6-158

Project Location:

NOT GIVEN

Sampling Date:

08/25/2011

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: PT. 5 (H101806-05)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	31600	16.0	08/26/2011	ND	432	108	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	14.7	10.0	08/28/2011	ND	206	103	200	0.766	
DRO >C10-C28	54.3	10.0	08/28/2011	ND	184	91.8	200	1.99	
Surrogate: 1-Chlorooctane	77.0	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	89.2	% 57.6-15	8						

Sample ID: PT. 6 (H101806-06)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	oride 32000 16		08/26/2011	ND	432	108	400	3.64	
ТРН 8015М	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	08/28/2011	ND	206	103	200	0.766	
DRO >C10-C28	122	10.0	08/28/2011	ND	184	91.8	200	1.99	

Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

*=Accredited Analyte

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Celey D. Kune



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

Received:

08/26/2011

Reported:

08/29/2011

Project Name:

GERONOMO #1

Project Number:

NONE GIVEN

Project Location:

Analyte

Analyte

NOT GIVEN

Sampling Date:

08/25/2011

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: PT. 7 (H101806-07)

Chloride, SM4500Cl-B

Chloride

TPH 8015M

GRO C6-C10

DRO >C10-C28

mg/kg

mg/kg

Reporting Limit

16.0

Reporting Limit

10.0

10.0

Result

33200

Result

16.8

294

Analyzed By: AP

Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
08/26/2011	ND .	432	108	400	3.64	
Analyze	d By: ab					
Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
08/28/2011	ND	206	103	200	0.766	
08/28/2011	ND	184	91.8	200	1.99	

79.8% 55.5-154 Surrogate: 1-Chlorooctane Surrogate: 1-Chlorooctadecane 88.4 %

57.6-158

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*=Accredited Analyte

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Celey D. Keine





Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Kune



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	<u> </u>	·······/							LL TO		i				ANAL	YSIS	RE	QUE	ST			
Project Manager	Natalie Gladden							D. #:															
Address:		*************			**********		Co	mpa	ny:					1		S							
City:	State: NM	Zip:	, and the same of the same of	************			Att	n:						ł		Cations/Anions							
Phone:#:	Fax #:		·				Ad	dres	s:			ĺ				Į.					i		
Project#:	Project Owne	r :	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				Cit	y:					≥		I	//S		į.				1	
Project Name: (Sepanami # Z						Sta	ite:		Zip:		Chlorides	5	×	ТРН	nc					i		
Project Location	•						Ph	one i	# :			<u>.</u> ∈	8015	BTEX	S	ati	DS						
Sampler Name:	Dath Harms	.4					Fax	x;#:		,		일		B1	exas	Ö	=						1
FOR LABIUSE ONLY			-		IATRI	X		PRE	SERV	SAMPL	ING .	$\overline{\mathcal{O}}$	PH	}	Le	te						J	
Lab I.D. H101806	Sample I.D.	(G)RAB OR (C)OMP. #CONTAINERS	GROUNDWATER	WASTEWATER.	SOIL	SLUDGE	отнея:	ACID/BASE:	OTHER:	DATE	TIME		L			Complete	-						
	PTI	5-1			¥.			٤	<u> </u>	8351	11:0C	V	30			,	-						
2	N.S.	13/1		1				l		8351	11:65	V.	W										<u> </u>
3	P13	<u> </u>	. _		V			L		82511	11:10	1	1	ļ									I
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	71.G 01.87	72	-	++	π	-			#	3.25-1	11:30	1						***********					
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analyses. All claims including service: In no event shall Ca	d Dannagos, Cardinal's ligblish, and cliont's exclusive remedy for a g those for negligerica and any other cause whiteover shall be- rdinal be liable for inclidental or consequental demages, including g out of or related to the performance of services hereunder by C	foemed wai without limi ardinal, reg	ived uni Itation; ardiose	less mad oonlead of what	to in Will s interrup her such	ing and stions, k claim is	receiv	vod by C	ardinal	within 30 days after profits incurred by	or completion of the	ie applicat	olo										
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Relinguished/By: // /	Date 20/26/11	Received By:	Phone Result: ☐ Yes ☑ No Add'l Phone #:
	10-23-00	La constituent de la constituent del constituent de la constituent	Fax Result: ☐ Yes ☑ No Add'l Fax #:
1 1040 HIVE	Timen 13	1000	REMARKS:
1/00/1/	1 / 12		
Relinquished By:	Date:	Received By:	l email results
in the same of the	1016111	14 1	
	Time: 12	MONT WON A ROLL	Natalie.Gladden@usa.apachecorp.com;
	10.7.	William Children	Zconder@rice-ecs.com; Bbaker@rice-ecs.com;
Delivered(By: (Circle One)		Sample Condition CHECKED BY:	
		Cool Intact (Intials)	hconder@rice-ecs.com; Lweinheimer@rice-ecs.com
Sampler - UPS - Bus - Other:	-	Tyes Tyes	The state of the s
		No I No I No	·

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



September 02, 2011

NATALIE GLADDEN

APACHE - EUNICE

P. O. BOX 1849

EUNICE, NM 88231

RE: GERONIMO #1 A.D. FLOWLINE

Enclosed are the results of analyses for samples received by the laboratory on 08/30/11 8:05.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method SW-846 8260

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method TX 1005

Total Petroleum Hydorcarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keene

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Received: Reported: 08/30/2011

09/02/2011

GERONIMO #1 A.D. FLOWLINE

Project Number: Project Location:

Project Name:

NONE GIVEN

Sampling Date: Sampling Type: 08/29/2011

ng Type:

Soil Cool & Intact

Sampling Condition: Sample Received By:

Jodi Henson

Sample ID: BOTTOM CENTER (H101829-01)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP	····				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	08/31/2011	ND	400	100	400	7.69	
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	09/01/2011	ND	163	81.5	200	1.53	
DRO >C10-C28	<10.0	10.0	09/01/2011	ND	161	80.3	200	2.07	
Surrogate: 1-Chlorooctane	92.9	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	94.8	% 57.6-15	8						

Sample ID: BOTTOM NW CORNER (H101829-02)

Chloride, SM4500Cl-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	08/31/2011	ND	400	100	400	7.69	
TPH 8015M	mg	/kg	Analyze	d By: ab	<u> </u>				··-
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/01/2011	ND	163	81.5	200	1.53	
DRO >C10-C28	<10.0	10.0	09/01/2011	ND	161	80.3	200	2.07	
Surrogate: 1-Chlorooctane	101	% 55.5-15	4				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Surrogate: 1-Chlorooctadecane	105	% 57.6-15	8						

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Keene



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

Received:

08/30/2011

Sampling Date:

08/29/2011

Reported:

Sampling Type:

Soil

09/02/2011

Sampling Condition:

Cool & Intact

Project Name: Project Number:

NONE GIVEN

GERONIMO #1 A.D. FLOWLINE

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: BOTTOM SE CORNER (H101829-03)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/31/2011	ND	400	100	400	7.69	
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	09/01/2011	ND	163	81.5	200	1.53	
DRO >C10-C28	<10.0	10.0	09/01/2011	ND	161	80.3	200	2.07	
Surrogate: 1-Chlorooctane	94.0	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	95.4	% 57.6-15	:8						

Sample ID: BOTTOM NE CORNER (H101829-04)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/31/2011	ND	400	100	400	7.69	
TPH 8015M	mg	/kg	Analyze	d By: ab		,,, <u></u>			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/01/2011	ND	163	81.5	200	1.53	
DRO >C10-C28	<10.0	10.0	09/01/2011	ND	161	80.3	200	2.07	
Surrogate: 1-Chlorooctane	92.6	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	93.7	% 57.6-15	8						

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Celey D. Keine



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

Received:

08/30/2011

Sampling Date:

08/29/2011

Reported:

Sampling Type:

09/02/2011

Soil

Project Name:

GERONIMO #1 A.D. FLOWLINE

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: BOTTOM SW CORNER (H101829-05)

Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AP						·
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	08/31/2011	ND	400	100	400	7.69	
ТРН 8015М	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	09/01/2011	ND	163	81.5	200	1.53	
DRO >C10-C28	17.1	10.0	09/01/2011	ND	161	80.3	200	2.07	
Surrogate: 1-Chlorooctane	75.0	% 55.5-15	54						
Surrogate: 1-Chlorooctadecane	75.0	% 57.6-15	58						

Sample ID: W. WALL S. END (H101829-06)

Chloride, SM4500Cl-B	mg,	mg/kg		d By: AP				· · · · · ·	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/31/2011	ND	400	100	400	7.69	
ТРН 8015М	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	09/01/2011	ND	163	81.5	200	1.53	
DRO >C10-C28	<10.0	10.0	09/01/2011	ND	161	80.3	200	2.07	
Surrogate: 1-Chlorooctane	99.9	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	105	% 57.6-15	8						

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Celeg & Keene



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

Received:

08/30/2011

Sampling Date:

08/29/2011

Reported:

09/02/2011

Sampling Type:

Soil

Project Name:

GERONIMO #1 A.D. FLOWLINE

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: W. WALL N. END (H101829-07)

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	08/31/2011	ND	400	100	400	7.69	
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	09/01/2011	ND	163	81.5	200	1.53	
DRO >C10-C28	<10.0	10.0	09/01/2011	ND	161	80.3	200	2.07	
Surrogate: 1-Chlorooctane	100	% 55.5-15							
Surrogate: 1-Chlorooctadecane	103	% 57.6-13	8						

Sample ID: N. WALL E. END (H101829-08)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/31/2011	ND	400	100	400	7.69	
трн 8015М	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	09/01/2011	ND	163	81.5	200	1.53	
DRO >C10-C28	<10.0	10.0	09/01/2011	ND	161	80.3	200	2.07	
Surrogate: 1-Chlorooctane	91.3	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	94.8	% 57.6-15	8						

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Celeg & Keene



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

Received:

08/30/2011

Sampling Date:

08/29/2011

Reported:

Sampling Type:

Soil

09/02/2011

Project Name:

GERONIMO #1 A.D. FLOWLINE

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: E. WALL N. END (H101829-09)

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	08/31/2011	ND	400	100	400	7.69	
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	09/01/2011	ND	163	81.5	200	1.53	
DRO >C10-C28	<10.0	10.0	09/01/2011	ND	161	80.3	200	2.07	
Surrogate: 1-Chlorooctane	89.1	% 55.5-15	i.4	-	***	 -			
Surrogate: 1-Chlorooctadecane	89.6	% 57.6-15	i8		,				

Sample ID: N. WALL W. END (H101829-10)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP	_				<u></u>
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/31/2011	ND	400	100	400	7.69	
ТРН 8015М	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	09/01/2011	ND	163	81.5	200	1.53	
DRO >C10-C28	<10.0	10.0	09/01/2011	ND	161	80.3	200	2.07	
Surrogate: 1-Chlorooctane	99.0	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	101	% 57.6-15	8						

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Celey D. Keine



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

Received:

08/30/2011

Sampling Date:

08/29/2011

Reported:

Sampling Type:

Soil

09/02/2011

Project Name:

GERONIMO #1 A.D. FLOWLINE

Reporting Limit

16.0

Sampling Condition:

Cool & Intact

Project Number: Project Location:

Analyte

NONE GIVEN

NOT GIVEN

Sample Received By:

Jodi Henson

Sample ID: E. WALL S. END (H101829-11)

Chloride, SM4500Cl-B

Chloride

TPH 8015M

mg/kg

mg/kg

Result

<16.0

Analyzed By: AP

Analyzed

08/31/2011

ilyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
1/2011	ND	400	100	400	7.69	
Analyzed	l By: ab					

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/01/2011	ND	163	81.5	200	1.53	
DRO >C10-C28	<10.0	10.0	09/01/2011	ND	161	80.3	200	2.07	

94.0 % 55.5-154 Surrogate: 1-Chlorooctane 94.7% 57.6-158 Surrogate: 1-Chlorooctadecane

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Celey D. Keine



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

Cardinal Laboratories

*=Accredited Analyte

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Celey & Keene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ANALYSIS REQUEST

ARDINAL LABORATORIES

Äpache

Project Manager: Natalie Gladden

Company Name:

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.

Address:					Compâný:		ļ	ł			SI		1	1	l	ł	1				
City:	State: NM	Zip:	<u> </u>		A	ttn:	·-···							Cations/Anions							
Phone #:	Fax #:	1			A	ddre	ss:							\ I							
Project #:	Project Owne	r: , ,			c	ity:			_		≥			s//					. 1		
Project Name:	GeronimocII) A.D. Elin	1/19	0		s	tate:		Zip:		es	75		교)US							
Project Locatio	n:		:/-		Р	hone	#:		***************************************	<u>.</u> E	8015	Ш	F (atic	TDS						
Sampler Name:	()ah Harn) 5	······································			F	Fax #:			Chlorides	8	BTEX	Texas TPH	CS	11						1	
FOR LAB USE ONLY	MATRIX				X	PRI	SERV	SAMPL	ING	िं	TPH		G,	e							
Lab I.D.	Sample I.D.	()(G)RAB OR (C)OMP.	#CONTAINERS	WASTEWATER SOIL	SLUDGE	ACID/BASE:	ICE / COOL OTHER:	DATE	TIME		F			Complete							
-	BHM Conter		71	V			1	8/29/11	9:00	V	1/										
2	BHH NIN Corner	C-	T	V			1	8/24/11	9:05	V,	V										
3	BHH SIE' Corner	C-	7	V			1	8/4/11	9:10	1	V										
4	BHAME, CERNER	6)	V			V	8/29/11	9:15	7	V										
5	BHM S.W. Corner	6					V	8/29/11	9:20	1	V						·				
6	W. Wall 5. Eno			.v			V	8/9/11	9:95	V ,	U										
	Wilvall N. Enn	G.	1				1	8/29/11	9.30	V	ν										
E	N. Wall E. EDD	G.	1-	V			1/	8 04/11	9:35	V	V										
q	E. Wall N. EDD	6	Π	U			V	8/99/11	9:40	V.	V.										
Jø	Nervall IVEEDD	5	1	$ \mathcal{J} $			J	8/24//	9:45	V	V										
analyses. All claims includi	nd Dameges, Cardinn'is lisblikly and client's exclusive ruinedy for ng lhèse (cr'nègligence and eny citier cause whatsoever shall be radinal pe leble for incidental or consequental dameges, includin ng out pro related to the performance of services heraunder by	deemed w	alved u mitallor	nless made in wilti , business interrup	ng and red tions, loss	elved by of use, c	Cardinal tota of	within 30 days att profits incurred by	er completion of th client, its subsidia	io applical rios.	ble		,								
Relinguished/B	V. ∫ Date: €/30//	Rec	eive	l By:	د. شهر				Phone Res		☐ Ye			Add'l F		#:					
100	HILLY Time:	-		C->		3			REMARKS	3 ;		5 12	140.	<u>Add I I</u>	ax #.						
Relinquished B	shed-By Date Received By:			lle	M	Öv.		email Natali Zcond	ie.G	ladd								ım.			
Delivered By	ed By (Circle One) Sample Con			ct>				Zconder@rice-ecs.com; Bbaker@rice-ecs.com; hconder@rice-ecs.com; Lweinheimer@rice-ecs.com				·om									
Sampler - UPS	- Bus - Other:	70		Yes [Yes	1 7	M	بند	1100110	U (W)	,1100	- CO3.	00111	, Ŀvv	CHAL	CITIE) (<u>W</u>)	100-0	,03.0	Om	l

BILL TO

P.O. #:

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

5044

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				41.	II , BI	ANALYSIS REQUEST													
Project Manager: Natalie Gladden				P;	P:O. #:														
Address:				Company:								Anions							
City: State: NM Zip:				At	Attn:														
Phone #: Fax #:				Address:															
Project #:	Project Owr	er:			City:					Σ	<u>-</u>		SIF						
Project #: Project Owner: Project Name: & COUNTIND # AD: 1-1614/1111C				State: Zip:			ě	H 8015	BTEX	Texas TPH	Cation	TDS							
Project Location:				Phone #:_			Chlorides												
Sampler Name: POK HOPO'S				Fax #:															
Lab I.D.	Sample I.D.	(C)RABOR (C)OMP.	CONTAINERS	GROUNDWATER WASTEWATER SOIL SILIDGE	OTHER	ACID/BASE: AB ST. ICE / COOL BS ST. ICE / COOL B	PATE	TIME) 	Hdl		Te	Complete Cations/Anions						
		بنك	L					e Nama i managai	لــــا	L.,								 	<u> </u>
analyses. All claims including service. In no event shall C	d Damages, Cerdina's liability and client's exclusive remody to those for negligiance and any other cause whatecover shall admine to liable for incidental or, consequental damages, including the fact of or relation to the performance of services hereunder to the performance of servi	oe doeme ing witho y Cardina	d walve ut limita I, regar	d unless made in writing ar tion, business interruptions	d recei	ived by Cardinal fuse, or loss of p	within 30 days after	or completion of the	e application e. sult:	□ Ye □ Ye		No No	Add'l I Add'l I	Phone #	# :				
Refinquished By: Date: Sample Condition Cool Intact: Sampler - UPS - Bus - Other: Date: Sample Condition Cool Intact: No No No					-		(ED BY:	email results Natalie.Gladden@usa.apachecorp.com; Zconder@rice-ecs.com; Bbaker@rice-ecs.com hconder@rice-ecs.com; Lweinheimer@rice-ec				om							

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



Phone 575.393.2967

Apache Company

	J	28	17S	28E
	Unit Letter	Section	Township	Range
	Considerate a Double	0	0	æ
	Groundwater Depth:	8	8	ft
Compiled by:	Amy C	C. Ruth	Date:	10/9/2012
Comments:		nearest well less t	than 2 miles NNE	
	16S 27E	16S 28E	16S 29E	
·	105 27E	103 Z6E	0	
	♦ 70' Domestic		110' Domestic	
	6 20' Dom			
14' Doi	56' 550' Stoo	k		
86' Don	226' Dom/Mon	170 200	170 200	
	1/52/E • 80' Dom • 40' Pro	17S 28E	17S 29E	
		\Rightarrow		
	₱120' Prospect			
	• 50' Prospec	t		
	18S 27E	100 200	100 200	
	165 271	18 S 28E	18S 29E	
	spect			
65' Prospec	t 🧿 🐧 97' Stk/Expl	Ø 65'		

Geronimo 28 State #1



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)

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

(In feet)

POD Number	POD Code Subbasin	County	Q 64	-	-	Sec	Tws	Rna	X	Y	Depth Well	•	Water Column
RÁ 00399		ĘD						27E	.563583				
RÁ 02550		ĖĎ	·3	3	1	27	1 6Ş	27E	567884	3639835,*	/83		
RA 02550 REPÁR		ED	٠3	3	1	27	16S	27E	567884	3639835*	180	70	110
RA 04176		ХХ	.3	4	1	23	168	27E		3641470 age Depth t		; 7 01	feet
		Minimura Depth					. 70 .1	feet					
										Maximur	n Depth	70	feet

Record Count: 4

PLSS Search:

Township: 16S

Range: 27E

*UTM location was derived from PLSS - see Help



New Mexico Office of the State Engineer Active & Inactive Points of Diversion

(with Ownership Information)

(acre ft per annum) :

WR File Nors Span

niùse) Diversion Owner, DOM 3 R.B. HORNER:

County POD Number ED RA 02550 REPAR

(R=POD has been replaced

and no longer serves this file; (quarters are 1=NW 2=NE 3=SW 4=SE)

C=the file is closed)

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

Code Grant

Shallow 3 3 1 27 16S 27E 567884

'Xi 7884, 13639835

Record Count: 1

POD Search:

POD Number: RA 02550 REPAR

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, or suitability for any particular purpose of the data.



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

No records found.

PLSS Search:

Township: 16S

Range: 28E



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

(R=POD has been replaced,

O=orphaned.

POD

C=the file is

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

closed) (quarters are smallest to largest) (NAD83 UTM in meters) (In.feet)

POD Number

water right file.)

Code Subbasin County 64 16 4 Sec Tws Rng

Depth Depth Water Well Water Column

RA 09342

4 4 3 19 16S 29E

QQQ

582737 3640640* 220

Average Depth to Water: 110 feet

Minimum Depth: 110 feet

Maximum Depth: 110 feet

Record Count: 1

PLSS Search:

Township: 16S

Range: 29E



New Mexico Office of the State Engineer Active & Inactive Points of Diversion

(with Ownership Information)

(acre ft per annum)

POD Number *RA'09342

Code Grant

and no longer serves this file. (quarters are 1=NW 2=NE 3=SW 4=SE)

C=the file is closed) (quarters are smallest to largest). (NAD83 UTM in meters) pagin qu

> Source 6416 4 Sec Tws Rng Shallow: 4 4 3' 19' 16S, 29E

Record Count: 1

POD Search:

POD Number: RA 09342

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 warrantles, expressed or implied, concerning the accuracy, completeness, reliability; usability; or suitability for any particular purpose of the data.



(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) (qua

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

(In feet)

Water right me.y.	POD	Martin 1	^	Q	^		, <u>, , , , , , , , , , , , , , , , , , </u>		W. 233 410		سرويوس المهودة والمراجعة	101.00	}
POD Number	Code Subbasi	n County				Sec	Tws	Rng	×	Y		Depth Water (
ŔÅ 01493		ED		ż	1	27	17S	27E	. 568468	3630529	8 7 <u>6</u>		
ŔÁ 01716 (D)	Ċ	ÉD.	4	4	ż	16	178	27E	566953	3632420*	1220	175	1045
ŔÁ 01716 S		ED	4	4	3	16	178	27E	: :566953	3632420*	1200		
RA 02966		ED	4	4	4	05	17S	27E	566117	3635707*	80	30	50
RA-03279		ED		3	2	· 07	175	27E	564020	3635011*	-250	14	236
RA 03661		ED	3	2	å	32	175	√27E	565186	3628038*	330	140	190
RA 03664		ĊH	Ì	Ż	š	32	17S	27E	565186	3628038*	400	100	300
RA 03694		ΕÒ			4	17	178	27E	565854	3632721*	300	90	210
RA 03816		СН			4	17	17S	27E	565854	3632721*	945	931	14
RA 04114		ŁE.	4	4	3	16	'17 S	27E	666953	3632420	1042	250	782
RA:04153		СН	4	4	3	16	"17S	27E	566953	3632420	1220	175	1045
RA 04320		ÉD			3	17	175	27E	565053	3632719	120	. č 0	70
RA 04554		ED			1	23	17S	27E	569859	3631947	220	40	180
RA 04561	•	ED.		4	2	26	17 <u>\$</u>	27E	570871	3630142	250		
RA 04786		ED	4.	3	2	18	178	27E	564133	3633277	138	1111	27
RA 06531		ED	4	1	4	17	178	27E	565747	3632821	:200		
RA 06560		ĆН	2.	. 1	2	20	17S	27E	565757	3632217	1133	⊴80	;53
RA 06635		ED	.2	2	2	18′	17S	27Ē	564531	3633852	325	60	265
'RA.07774		EÒ	3	2	1	11	175	27Ę	569933	36352511	100	50	50
RÅ 07844		ED	3	4	3	16	47Ş	27E	566753	3632420	1300	180	1120
'RA 07844 EXPL		ED		4	3	16	17S	27E	566854	3632521	1300	180	1120
RA 08823		ĘD	1	-1	3	.17	′17Ş	27E	564745	·3633019	348	60	288
RA 11691 RODI		ED	2	1	4	17	17S	:27 <u>E</u>	565800	3633029	150	0	1 50 .

*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, or suitability for any particular purpose of the data.

Average Depth to Water: 143 feet

Minimum Depth: 0 feet

Maximum Depth: 931 feet

Record Count: 23

PLSS Search:

Township: 17S Ra

Range: 27E



(with Ownership Information)

No PODs found.

POD Search:

POD Number: RA 01716 D

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, or suitability for any particular purpose of the data...



New Mexico Office of the State Engineer

Active & Inactive Points of Diversion

(with Ownership Information)

(acre ft per annum)

RA 04114

basin Use Diversion Owner.

DOM.

3.J. HIRAM MOORE

ะ ดีอันที่จำคิดที่เก็บไท้เก็บอีก LE RA:04114

(R=POD has been replaced and no longer serves this file,

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

C=the file is closed)

Coda Grant:

Artesian 4 4 3 16 17\$ 27E :566953 3632420*

Record Count: 1

POD Search:

POD Number: RA 04114

. 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 sultability for any particular purpose of the data:



(with Ownership Information)

RA:04153

3. J. HIRAM MOORE

ounty POD Number CH RA 04153

(R=POD has been replaced

and no longer serves this file, (quarters are 1=NW 2=NE 3=SW 4=SE)

C=the file is closed)

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

Code Grant

Artesian 4 4 3 16 17S 27E

Record Count: 1

POD Séarch:

POD Number: RA 04153

Sorted by: File Number

"*UTM location was derived from PLSS - see Help

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(with Ownership Information)

(acre if per annum)

Sub Abasini, Üse i Diversioni 'Owneri

RIVERSIDE WATER USERS ASSOC.

ED: RA 07844

RA 07844 EXPL

RA/07844

EXP

O RIVERSIDE WATER USERS ASSOC.

ED RA 07844 EXPL

(R=POD has been replaced and no longer serves this file C=the file is closed)

Callo Grant

and no longer serves this file, (quarters are 1=NW 2=NE 3=SW 4=SE).

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

Source 6416 4 Sec Tws Rng. Shellow 2 4 3 16 17S 27E

566753. :3632420°

Artesian 4 3 16 17S 27E

66854 3632521*

Record Count: 2

POD Search.

POD Number: RA 07844

Sorted by: File Number

*UTM location was derived from PLSS - see Help-

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(with Ownership Information)

TREPOD has been replaced

and no longer serves this file; (quarters are 1=NW 2=NE 3=SW 4=SE)

C=tha file is closed) -

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

Source 6416 4 Sec Twe Ring ·Υ Shallow 4 4:4 : 05 17S, 27E

3 JIM HOOTEN

Record Count: '1

POD Search:

POD Number: RA 02968

Sorted by: File Number

"UTM location was derived from PLSS - see Help

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(with Ownership Information)

(R=POD has been replaced '

and no longer serves this file: . (quarters are 1=NW 2=NE 3=SW 4=SE)

· C=the file is closed)"

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

Code Grant

Source 6416 4 Sec. Tws Ring. 3 2 07 17S 27E

564020 3635011*

3 EMILP BACH

County POD Number ED RA 03279

Record Count: 1'

POD Search:

POD Number, RA 03279

Sorted by: File Number

*UTM location was derived from PLSS + see Help

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(with Ownership Information)

(R=POD has been replaced and no longer serves this file,

C=the file is closed)

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

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

Code Grant:

Shallow 3 2 3 32 17S 27E

RA 03681

D-HUMBLE OIL & REFINING.

ounty POD Number

Record Count: 1

POD Search:

POD Number: RA 03661

Sorted by: File Number

"UTM location was derived from PLSS - see Help

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(with Ownership Information)

(R=POD has been replaced

C=the file is closed)

and no longer serves this file. (quarters are 1=NW 2=NE 3=SW 4=SE)

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

(acre ft penannum)

County POD Number ED RA 03694

Record Count: 1

POD Search:

PÕD Number: RA 03694

Sorted by: File Number

*UTM location was derived from PLSS - see Help -

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7/16/12:9:38 AM

:Page 1 of 1



(with Ownership Information)

(R=POD has been replaced

C=the file is closed)

and no longer serves this file. (quarters are 1=NW 2=NE 3=SW 4=SE)

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

Source 6416 44 Sec Twe Ring Code Grant Artesian

4 17 17S 27E :565854 : 3632721*

(acre ft per annum)

WR FILE Nor Dasini Use Diversion Owner RA 03816

DOM: 3 R.D. COLLIER County POD Number CH' RA 03816

Record Count: 1

POD Search:

POD Number: RA 03816

a 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.

7/16/12 9:39 AM:

Page 1 of 1



New Mexico Office of the State Engineer

Active & Inactive Points of Diversion

(with Ownership Information)

County, POD, Number

ED: RA 04320-

(acré it per/annum)

basin Usa (Diversion Owner)

3 C.V. BROWN

(R=POD has been replaced

C=the file is closed)

Cous Grant

and no longer serves this file, (quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters:are smallest to largest) (NAD83 UTM in meters) เรื่อนเรื่อง 6416 ขึ้นSecult พริ่งหกัญ X Y

Artésian 3 17 17S 27E

565053 3632719*

Record Count: 1

RA 04320

POD Search:

POD Number: RA 04320

Sorted by: File Number

*UTM location was derived from PLSS - see Help

The data is turnished 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 for any particular purpose of the data.

7/16/12 9:40 AM.

Page 1 of 1



(with Ownership Information)

(acre ft per annum) / Sûby / Basin User Diversion Owner 3, HAMMOND PHILLIP J

County POD Number ED RA 08823

'R=POD has been replaced C=the file is closed)

Code Grant

and no longer serves this file, (quarters are 1=NW 2=NE 3=SW 4=SE)

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

Shallow 1 1 3 17 17S 27E

Record Count:. 1

POD Search:

POD Number: RA 08823

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:



(with Ownership Information)

(acre it per annum)

WR File Nor

Sub basini Use Diversion Owner.

O INTEGRATED WATER SERVIES

County POD Number ED RA 11691 POD1 (R=FOD has been replaced and no longer serves this file C=(he file is closed)

Code Grant

and no longer serves this file, (quarters are 1=NW 2=NE 3=SW 4=SE)

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

q q q

Source (6416 4 Sec. Tws Right 2 1 4 17 17S 27E

Record Count: 1

POD Search:

POD Number: RA 11691 POD1'

Sorted by: File Number:

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7/16/12 9:41 AM

Page 1 of 1



(with Ownership Information)

(acre ft.per annum)',

WRIFIIe Nbr. Dasini (Uso) Dive

D' LOWE DRILLING COMPANY

County POD Numbe

(REPOD has been replaced and he longer serves this flie,

and no longer serves this flie; (quarters are a C=the file is closed) (quarters are si

Code Grant

and his longer serves this file; (quarters are 1=NW 2=NE 3=SW 4=SE)

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

Source (6410,40 Sec) Tws (Ring) X Y

Artesian 1 23 17S 27E 569859 3631947*

Record Count: 1

POD Search:

POD Number: RA 04554

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, retrability tusability for any particular purpose of the data.



(with Ownership Information)

(R=POD has been replaced

C=the file is closed)

and no longer serves this file. (quarters are 1=NW 2=NE 3=SW 4=SE)

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

Codo Grant: Artesian 4, 3-2 18 17S 27E

RA:04786

basin Use Diversion Owner 3 DAVE COLLIER

County POD Number ED RA 04788:

Record Count: 1

POD Search:

POD Number: RA 04786

Sorted by::File Number

*UTM location was derived from PLSS - see Help -

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



(with Ownership Information)

(acre ft per annum)

WR File Nor.

eup libasimilise) Diversion (Owner; DOM 3. TONY HALL

Conny POD Number

(R=POD has been replaced

and no longer serves this file, (quarters are 1=NW 2=NE 3=SW 4=SE)

C=the file is closed)

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

- Code Grante

Spurce 6416 4/Sec Two Ring.
Shallow 2 1 2 20 17S 27E 5657

Record Count: 1

POD Search:

POD Number: RA 06560

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...



(with Ownership Information)

(R=POD has been replaced

Code Grant

and no longer serves this file. (quarters are 1=NW 2=NE 3=SW 4=SE)

C=this file is closed)

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

g qiq Source (6416 4 Sec Tws Ring) Shallow 3 2 1 11 17S 27E

RA:07774

Tacre ft per:annum) 3 BOGLE FARMS

County POD Number ED 'RA.07774'

Record Count: 1

POD Search:

POD Number: RA 07774

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, creliability, usability, or sultability for any particular purpose of the data:



No records found.

PLSS Search:

Township: 17S Range: 28E



(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,

POD

(quarters are 1=NW 2=NE 3=SW 4=SE) C=the file is closed)

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

(In feet)

POD Number

QQQ Code Subbasin County 64 16 4 Sec Tws Rng

Depth Depth Water Y Well Water Column

RA 11807 POD1

1 2 3 22 17S 29E

587360 3631585 250

Average Depth to Water:

Minimum Depth:

Maximum Depth:

Record Count: 1

PLSS Search:

Township: 175

Range: 29E



(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

(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 Number	POD Code Subbas	in County		Q 16		Şec	Tws	Rng	×	Υ		Depth Water (Water Column
RA 037.14		СН	À	4	2	08	185	27E	566212	3625253*	381		
RA.03917		LE	4.	1	2	10	185	27E	569019	3625660*	130	50	8,0
RA 04048		LE	1	4	À.	14	185	27E	570841	3623030*	2096		
RA 04211		CH		3	1	28	188	27E	566512	3620562*	120	100	20
RA 04298		ÉD		1	2	19	18S	27E	564082	3622523*	92		
RA 05524		ED.		2	4	33	188	27E	567721	3618532*	90	49	41
RA 05660		ED		3	4	31	185	27E	564094	3 618 090°	305	65	⁻ 240
RA 05864		ΕĎ		4	7	33	188	27E	566914	3618936*	٠	145	
RA 06091		EĎ	1	2	3	Ż 9	18Ŝ	27E	565211 Avera	3620222 age Depth t			73 feet
										Minimur	n Depth	171	feet
										'Maximur	ii nebiu	145	ieei

Record Count: 9

PLSS Search:

Township: 18S.

Range: 27E

^{*}UTM location was derived from PLSS - see Help



(with Ownership Information)

(R=POD has been replaced

C=the file is closed)

Code Grant

and no longer serves this file, (quarters are 1=NW 2=NE 3=SW 4=SE)

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

Source 6416 4 Sec Tws Ring Artesian 4 1 2, 10 18S 27E

Record Count:. 1

POD Search:

POD Number: RA 03917

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.



(with Ownership Information)

(R=POD has been replaced

and no longer serves this life; (quarters are 1=NW 2=NE-3=SW 4=SE)

C=the file is closed)

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

Shallow 3 1 28 18S 27E

Code Grant Source: 6416 4 Sec Twe Ring

566512 36205621

WR FILE NOT .

(acre it per annum)

Sub.

Sub.

Dasin Vuse, iDiversion vowner,

PRO 0 JOHN H. TRIGG

County POD Number CH 1 RA 04211

Number • Co

Record Count: 1

POD Search:

POD Number: RA 04211

Sorted by: File Number

*UTM location was derived from PLSS - see Help

The data is turnished 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; or sulfability for any particular purpose of the data.



(with Ownership Information)

(REPOD has been replaced and no longer serves this file, (quarters are 1=NW 2=NE 3=SW 4=SE)

C=the file is closed)

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

39998

Source 6416 4 Sec Tws Rng. 2 4 33 18S 27E

.567721 3618532*

·RA/05524

3. RAYMOND NETHERLIN

County POD Number ED RA 05524

Record Count: 16

POD Search:

POD Number: RA 05524

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.

7/16/12 10:05 AM

:Page 1 of 1



(with Ownership Information)

(acre ft per annum)

(R=POD has been replaced

and no longer serves this file. (quarters are 1=NW 2=NE 3=SW 4=SE)

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

C=the file is closed)

GOTCO 6416 4 SOC TWO RTG.

Code Grante

Artesian 4 1 33 18S 27E

RA 05664 EXPL

RA 05664

OBS

O YATES DRILLING COMPANY YATES DRILLING COMPANY

RA 05664

POD Numbers

₹RA 056641

Artesian 4 1 33 18S 27E

566914 36189361

Record Count:: 2

POD'Search:

POD Number: RA 05664

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.



(with Ownership Information)

Chasin Use Diversion Owner. RA 05660

Q INC. READ & STEVENS:

County POD Number ED RA 05660

(R=POD has been replaced C=the file is closed)

Code Grant

and no longer serves this file. (quarters are 1=NW 2=NE 3=SW 4=SE)

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

Source 6416 4 Sec Tws Ringt Shallow 3 4 31 185 27E

564094 36180901

Record Counts 1

POD Soarch:

POD Number: RA 05660

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 warrantles, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

7/16/12 10:07 AM

Page 1 of 1



(with Ownership Information)

(R=POD has been replaced and no longer serves this file. (quarters are 1=NW 2=NE 3=SW 4=SE). C=the file is closed)

(quarters are smallest to largest) (NAD83 UTM in meters) 9 9 9

Source 6416 4 Soc. Tws Ring Shallow 1 2 3: 29 18S 27E

(acre fi per annum)

County POD Number

Record Count: 1

POD Search:

POD Number: RA 06091

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:

·7/16/12 10:09 AM'

Page 1 of 1



(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;

(quarters are 1=NW.2=NE 3=SW 4=SE) C=the file is

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

(In feet)

March inducturion)	ologod) (-	444,1010					2017				(11) 1901)					
	POD		QQ	Q	: -				•	Depth I	Depth	Water				
POD Number	Code Subbasin	County	64 16	4	Sec	Tws	Rng	X	Y	-	•	olumn				
L 01142 POD1	Ŀ	LE	2 .	4.	15	18 <u>Ş</u>	28€	578921	3623453*	.80						
L 01150 POD1	L,	LE	i	1	35	185	28E	579344	3619433*	135	65	.70				
RA 09588		ED	1	2	33.	185	28E	57697 <u></u>	3619384*	:300						
								-Aver	age Depth t	o Water:	65 f	eet				
									Minimur	n Depth:	65 f	eet				
									Maximur	n Depth:	65 (eet				
									•	• • •						

Record Count: 3

PLSS Search:

Township: 18S

Range: 28E



(with Ownership Information)

No PÓDs found.

POD Search:

POD Number: RA 01150 POD1

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:



(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

POD

closed)

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

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

(In feet)

water right file.)

Q Q Q

Depth Depth Water

POD Number

Code Subbasin County 64 16 4 Sec Tws Rng

Y Well Water Column

CP 00863

ED 1 4 2 27 18S 29E

588341 3620768*

3* 32**0**

Average Depth to Water:

Minimum Depth: --

Maximum Depth:

Record Count: 1

PLSS Search:

Township: 185

Range: 29E

*UTM location was derived from PLSS - see Help

USGS 325122104151001 17S.27E.11.12311

GO₁ Available data for this site Groundwater: Field measurements Eddy County, New Mexico **Output formats** Hydrologic Unit Code 13060011 Table of data Latitude 32°51'22", Longitude 104°15'10" NAD27 Land-surface elevation 3,390 feet above NGVD29 Tab-separated data The depth of the well is 100.00 feet below land surface. Graph of data This well is completed in the Artesia Group (313ARTS) Reselect period local aquifer. USGS 325122104151001 175.27E.11.12311 3337.6 53,0 3336.0 3335.0 3334.0 3333.0 3332.0 3331.0 60.0 3330.0 2002 1994 1996 1998 2800 2004 2006 2008 ---- Provisional Data Subject to Revision -

USGS 324855104093101 17S.28E.22.34242

- (<u>- Ġ</u> Groundwater: Field measurements Available data for this site Eddy County, New Mexico **Output formats** Hydrologic Unit Code 13060011 Table of data Latitude 32°48'55", Longitude 104°09'31" NAD27 Tab-séparated data Land-surface elevation 3,578 feet above NGVD29 The depth of the well is 95.00 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 324855104093101 175.28E.22.34242 3504.0 74.8 Depth to water levél, feet below land surface 3583.6 75,8 76.0 3502:0 77.0 3501.0 78.0 3500.0 79.8 3499.0 1986 1988 1990 1992 1994 1996 1998 2000 --- Provisional Data Subject to Revision ---

USGS 324424104103901 18S.28E.21.21212

[-GO-] Groundwater: Field measurements Available data for this site Eddy County, New Mexico **Output formats** Hydrologic Unit Code 13060011 Tablé of data Latitude 32°44'24", Longitude 104°10'39" NAD27 Land-surface elevation 3,580 feet above NGVD29 Tab-separated data The depth of the well is 250.00 feet below land surface. Graph of data This well is completed in the Artesia Group (313ARTS) Reselect period local aquifer. USGS 324424104103901 185.28E.21.21212 3355.00 225,00 Depth to water level, feet below land surface 3354.80 225,20 3354.60 225.40 225,68 3354,40 225,69 3354.28 226.00 3354.80 226.20 3353.80 2000 1990 1992 1994 1986 1988 1996 1998 ---- Provisional Data Subject to Revision ----



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

side of form

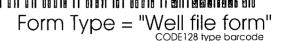
Form C-141 Revised October 10, 2003

Release Notification and Corrective Action

OPERATOR Initial Papart M. Einal Papart												Time 1 D				
Name of Company Apache Corp.																
					 											
					· 											
ner Unk	nown	Mineral O	wner	State API No. 30-015-31829												
							,									
Section	Township	Range	Feet from the	North/	South Line	Feet from	the	East/W	est Line	County						
28	17S	28E	1500	FSL		1800 -		FEL		Eddy						
LatitudeLongitude																
ise Prod	uced Water				~	<u>_</u>	lecovered	0 bbls	 -							
	ter Line				•	our of Occ	urrence									
						77.71			8/24/11	12 pm						
ite Notice C		Yes 🛛	No 🔲 Not Re	quired	If YES, 10	Whom?										
By Whom?									-							
Was a Watercourse Reached?							cting th	ie Water	course.							
ree was Im	nacted Descri	he Fully *			<u> </u>				·							
If a watercourse was impacted, Describe runy.																
Describe Cause of Problem and Remedial Action Taken.*																
ked betwee	en the Red Lak	e Battery	and the Geronimo	well. I	Line was repa	iired and re	emediat	ion bega	ın.							
Affected a	and Cleanup A	ction Tak							<u></u>							
ted 11,052	ft² of pasture	land adjac	ent to a lease road	l. Impa	cted soils we	e removed	to a NI	MOCD :	approved o	disposal faci	lity. So	oil samples				
from the 1	l ft. deep exca	vation and	sent to a commer	cial lab	oratory for co	onfirmation	of chlo	oride and	TPH. T	ie site was b	ackfille	d with				
and contour	ed to the surro	ounding ar	ea.									}				
fy that the in	nformation giv	en above	is true and comple	ete to th	e best of my	knowledge	and un	derstand	that purs	uant to NMC	OCD m	les and				
operators	are required to	report an	d/or file certain re	lease no	tifications ar	d perform	correcti	ive actio	ns for rele	ases which	may en	danger				
					ne NMOCD marked as "Final Report" does not relieve the operator of liability											
perations na ment In a	ave tailed to a	iequately CD accent	investigate and re	meatate enort do	contaminations	on that pose the operat	e a threa	at to gro	und water	, surtace was	er, hun	nan health				
				cport do	·	the operat	101 01 10	sponsio	inty for co	mphance w	iui any	oniei				
					OIL CONSERVATION DIVISION											
Rauca	Rober			}												
17mc	1 march				1											
Printed Name: Bruce Baker							Approved by District Supervisor:									
ironme	in tal	Tech	4	A	Approval Date:				xpiration I	Date:						
s: Lar	ry.bake	v @a	pachecom.c	om C	Conditions of	Approval:			Attached	П						
1-13		Phone:	(575) 394-1503		Autoreu []											
	BOX 1849 BOX 18	BOX 1849, Eunice, NM ne Geronimo 28 State ner Unknown Section Township 28 17S ase Produced Water lease Water Line ate Notice Given? Course Reached? Trse was Impacted, Descri ase of Problem and Remediked between the Red Laker ated 11,052 ft² of pasture of from the 1 ft. deep excar and contoured to the surrous from the 1 ft. deep excar and contoured to the surrous from the environment. The separations have failed to as ment. In addition, NMOs or local laws and/or regulations have failed to as ment. In addition, NMOs or local laws and/or regulations have failed to as ment. In addition, NMOs or local laws and/or regulations have failed to as ment. In addition, NMOs or local laws and/or regulations have failed to as ment. In addition, NMOs or local laws and/or regulations have failed to as ment. In addition, NMOs or local laws and/or regulations have failed to as ment. In addition, NMOs or local laws and/or regulations have failed to as ment. 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In addition, NMOCD accept or local laws and/or regulations. Bruce Baker Trowment for Technical Security Baker & Affected and Cleanup Action Take the environment. The acceptance perations have failed to adequately ment. In addition, NMOCD accept or local laws and/or regulations. Bruce Baker Trowment for Technical Security Baker & Affected acceptance perations have failed to adequately ment. In addition, NMOCD accept or local laws and/or regulations.	BOX 1849, Eunice, NM 88231 The Geronimo 28 State #1 THE Unknown Mineral O LOCA Section Township Range Feet from the 28 17S 28E 1500 Latitude NAT THE Notice Given? Yes No Not Resource Reached? Yes No Not Resource Was Impacted, Describe Fully.* See of Problem and Remedial Action Taken.* Taked between the Red Lake Battery and the Geronimon and contoured to the surrounding area. The sted 11,052 ft² of pasture land adjacent to a lease road of from the 1 ft. deep excavation and sent to a comment and contoured to the surrounding area. 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Impart of the first the information given above is true and complete to the loperators are required to report and/or file certain release no or the environment. The acceptance of a C-141 report by the perations have failed to adequately investigate and remediate ment. In addition, NMOCD acceptance of a C-141 report door local laws and/or regulations. Bruce Baker The North State Papachecorp.com A fire was a failed to a dequately investigate and remediate ment. In addition, NMOCD acceptance of a C-141 report door local laws and/or regulations.	mpany Apache Corp. Contact B BOX 1849, Eunice, NM 88231 Telephone N ne Geronimo 28 State #1 Facility Typ ner Unknown Mineral Owner State	Telephone No. (575 pacility Type Produced Water	mpany Apache Corp. BOX 1849, Eunice, NM 88231 Telephone No. (575) 394- Facility Type Production Mineral Owner State LOCATION OF RELEASE Section Township Range Feet from the North/South Line Feet from the 175 28E 1500 Latitude Longitude NATURE OF RELEASE See Produced Water Volume of Release 5 bbls Date and Hour of Occurrence 8/24/11 Ite Notice Given? Yes No Not Required Townse Reached? Yes No Not Required Townse Was Impacted, Describe Fully.* See of Problem and Remedial Action Taken.* ked between the Red Lake Battery and the Geronimo well. Line was repaired and remediat and contoured to the surrounding area. To the first of pasture land adjacent to a lease road. Impacted soils were removed to a Nid afform the 1 ft. deep excavation and sent to a commercial laboratory for confirmation of chic and contoured to the surrounding area. To that the information given above is true and complete to the best of my knowledge and unloperators are required to report and/or file certain release notifications and perform correct or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Remember failed to adequately investigate and remediate contamination that pose a three ment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator or receive the environment. The acceptance of a C-141 report does not relieve the operator or receive the surrounding area. Surrow was law for regulations. OIL CONS Build Provided Surrow and the Surrow and the Surrow and Provided Surrow and Prov	March Marc	March Marc	March Marc	Martine Mart				

^{*} Attach Additional Sheets If Necessary

This is a Patch T type separator sheet.

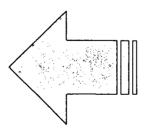




Portrait Feed
New Form Follows...

This is a Patch T type separator sheet.

Form Type = "Well file form"



Landscape Feed
New Form Follows...

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

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Revised October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance

Form C-141

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

1220 S. St. Francis Dr., Santa Fe, NM 87505 **Release Notification and Corrective Action OPERATOR** Initial Report Final Report Contact Bruce Baker Name of Company Apache Corp. Address PO BOX 1849, Eunice, NM 88231 Telephone No. (575) 394-1503 Facility Name Geronimo 28 State #1 Facility Type Production Well Mineral Owner State Surface Owner Unknown API No. 30-015-31829 LOCATION OF RELEASE North/South Line | Feet from the Township Feet from the East/West Line Unit Letter Section Range County 28E 1500 FSL 1800 FEL 28 17S Eddy Latitude_____Longitude NATURE OF RELEASE Volume of Release 5 bbls Volume Recovered 0 bbls Type of Release Produced Water Source of Release Water Line Date and Hour of Occurrence Date and Hour of Discovery 8/24/11 8/24/11 12 pm 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.* Water line leaked between the Red Lake Battery and the Geronimo well. Line was repaired and remediation began. Describe Area Affected and Cleanup Action Taken.* The leak affected 11,052 ft² of pasture land adjacent to a lease road. Impacted soils were removed to a NMOCD approved disposal facility. Soil samples were collected from the 1 ft. deep excavation and sent to a commercial laboratory for confirmation of chloride and TPH. The site was backfilled with clean topsoil 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 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 Bruce Baker Signature: Approved by District Supervisor: Printed Name: Bruce Baker Title: Environmental Tech Approval Date: Expiration Date: E-mail Address: Larry baker@apachecorp.com Conditions of Approval: Attached

Date: 8-1-13
* Attach Additional Sheets If Necessary

Phone: (575) 394-1503

2RP-2958