District IIEnergy Mineral1301 W. Grand Avenue, Artesia, NM 88210NOV 0 9 2012District III1000 Rio Brazos Road, Aztec, NM 874101220 SouDistrict IV1220 Sou1220 Sou1220 S. St. Francis Dr., Santa Fe, NM 87505RECEIVEDSanta I	New MexicoHOBBS OCDFor Revised Octoband Natural ResourcesNOV 0 9Submit 2 Copies to a District Office in a with Rule 1trvation DivisionNOV 0 9Submit 2 Copies to a District Office in a with Rule 1e, NM 87505RECEIVEDSi	rm C-141 per 10, 2003 appropriate accordance 16 on back de of form					
Release Notification	n and Corrective Action						
Nome of Company Accels Com	<b>OPERATOR</b> Initial Report I Fi	inal Repor					
Address P.O. Box 1849, Eunice, NM, 88231	Telephone No. (575) 390-4186						
Facility Name White Owl Battery (nearest well #1)	Facility Type Production Facility						
Surface Owner Unknown Mineral Owner	State of NM Lease No. 30-025-36689	<u></u>					
LOCATIO	N OF RELEASE						
Unit Letter Section Township Range Feet from the North	South Line Feet from the East/West Line County						
D 2 20S 38E 582 FNL	330 FWL Lea						
Latitude	Longitude						
Type of Release Oil/Produced Water	Volume of Release 12 bbl Volume Recovered 10 bbl						
Source of Release Fire Tube	Date and Hour of Occurrence Date and Hour of Discovery						
Was Immediate Notice Given?	If YES, To Whom?						
Ves No Not Require							
By Whom? Was a Watercourse Reached?	If YES, Volume Impacting the Watercourse.						
If a Watercourse was Impacted, Describe Fully.*							
	•						
	DTW = 35'						
Describe Cause of Problem and Remedial Action Taken.* Southern Union's gas compressor went down overnight and the heater t back-dragged immediately. Most of the fluid remained inside the berme	DTW = 35' eater pressured up resulting in a failure of the fire tube gasket. Spray are d area, but did spray the pasture area.	a was					
Describe Cause of Problem and Remedial Action Taken.* Southern Union's gas compressor went down overnight and the heater t back-dragged immediately. Most of the fluid remained inside the berme Describe Area Affected and Cleanup Action Taken.* The leak affected the bermed containment and an area to the south of th NMOCD approved disposal facility. Representative soil samples were TPH confirmation. The excavations were backfilled with clean soils an I hereby certify that the information given above is true and complete to regulations all operators are required to report and/or file certain release public health or the environment. The acceptance of a C-141 report by should their operations have failed to adequately investigate and remedia or the environment. In addition, NMOCD acceptance of a C-141 report federal, state, or local laws and/or regulations.	eater pressured up resulting in a failure of the fire tube gasket. Spray are d area, but did spray the pasture area. berm, including overspray into pasture land. Impacted soils were remove ollected from the excavations and sent to a commercial laboratory for challeveled. the best of my knowledge and understand that pursuant to NMOCD rule notifications and perform corrective actions for releases which may enda ne NMOCD marked as "Final Report" does not relieve the operator of lia te contamination that pose a threat to ground water, surface water, huma does not relieve the operator of responsibility for compliance with any o	a was ved to a loride and s and inger ability in health ther					
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# **APACHE CORPORATION**

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

# White Owl Battery

# **Closure Report**

API 30-025-36689

Release Date: December 6, 2011

Unit Letter D, Section 2, Township 20S, Range 38E

## Rice Environmental Consulting & Safety

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

## May 8, 2012

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

### RE: TERMINATION REQUEST Apache – White Owl Battery AD UL/D sec. 2 T20S R38E API No. 30-025-36689

Mr. Leking:

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

### **Background and Previous Work**

The site is an accidental discharge of produced water and crude oil associated with the White Owl Battery. A fire tube gasket on a heater treater failed, releasing fluid into the bermed area and south of the bermed area, with overspray into pasture land to the south. An initial form C-141 was submitted by Apache Corporation on December 12, 2011 (Appendix A). The site is located south of Hobbs, in unit letter 'D' of section 2, T20S, R38E in Lea County, New Mexico.

On December 6, 2011, RECS personnel initiated work on the White Owl Battery (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 <16.0 ppm (parts per million or mg/kg) in the overspray area to 5,730 ppm within the bermed area. TPH ranged from <10.0 ppm in the overspray area to 13,080 ppm in the area immediately south of the berm.

The stain surrounding Pt.2 was scraped approximately 6 inches below ground surface (bgs). On December 12, 2011, RECS personnel collected and field tested a representative composite sample from the bottom of the scrape (Figure 2). The sample was submitted to a laboratory for chloride and TPH analyses and contained 32.0 ppm chloride and 66.3 ppm TPH (Appendix C).

The stain within the berm was hand excavated 6 to 8 inches bgs. On December 13, 2011, RECS personnel collected and field tested a sample from the bottom of the excavation at Pt. 1 (Figure

2). The sample was submitted to a laboratory for chloride and TPH analyses and contained 160 ppm chloride and 20.8 ppm TPH (Appendix C).

The stain surrounding Pt. 3 and Pt. 4 was also scraped. Impacted soils were removed from the excavations and transported to a NMOCD approved disposal facility. The berm area excavation was backfilled with clean caliche and leveled. See Appendix B for photographs of field activities.

### Conclusion

According to the New Mexico Office of the State Engineer and the United States Geological Survey (USGS), depth to groundwater in the area approximated 48 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,

Ance Bahen

Bruce Baker Head Foreman RECS (575) 631-5157

Attachments:

Figure 1:Site Plat with Initial Sampling Lab DataFigure 2:Site Plat with Final Excavations and Lab DataAppendix A:Initial Form C-141Appendix B:Site PhotographsAppendix C:Laboratory ResultsAppendix D:Groundwater StudyAppendix E:Final Form C-141



# Figures

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

### **INITIAL SAMPLING LAB DATA**

Sample Description	Cl-	GRO	DRO
PT1 surface	5,730	2,000	2,240
PT2 surface	1,170	5,980	7,100
PT3 surface	80	<10	26.8
PT3 @ 6"	96	<10	<10
PT4 surface	<16	<10	<10



2

### Legend

- SAMPLE POINT
- \* FENCE
- ⇒ ROAD
- BERM
  - CONTAMINATED AREA
- **OIL TANK** 
  - OVERSPRAY AREA
- SEPARATER
- STAIN
  - WATER TANK



LEA COUNTY, NM



## Site Plat



# Appendix A Initial Form C-141

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

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

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.

1220 S. St. Fran	1220 S. St. Francis Dr., Santa Fe, NM 87505 Santa Fe, NM 87505												
		ه الفانية و القر م	Rele	ease Notific	ation	and Co	orrective A	ction					
	•					<b>OPERA</b>	FOR		Initia	l Report		Final Report	
Name of Co	mpany A	pache Corpo	oration			Contact Na	talie Gladden		·			<u>F</u>	
Address PC	) Box 184	Eunice, NI	M 88231		,	Telephone No. 575-390-4186							
Facility Nat	ne White	Owl Battery	(nearest	well #1)		Facility Typ	e Production I	Facility					
Surface Ow	ner Unkno	own		Mineral C	)wner S	ST of NM		Ā	API No.	. 30-025-3	36689		
				LOC		I OF BEI	FASE	I					
Unit Letter	Section	Township	Range	Feet from the	North/	South Line	Feet from the	East/West	t Line	County			
	2	205	295	592	ENI		220	EWI		Len			
<u> </u>	2	205	_ <u>30</u> E		TNL		550	<u> </u>		Lea			
			La	titude		Longitud	le						
·				NAT	URE	OF REL	EASE	·					
Type of Rele	ase Oil/Wa	ter		<u>.</u>		Volume of	Release 12	Ve	olume R	ecovered 1	0		
Source of Release Fire tube     Date and Hour of Occurrence     Date and Hour of Discovery       12/06/11     12/06/11													
Was Immedi	ate Notice C	diven?				If YES, To	Whom?						
			Yes 🗵		equired								
By Whom? I	Vatalie Glad	den				Date and H	lour 12/7 1150ar	n					
Was a Watercourse Reached?													
If a Watercon	urse was Im	nacted Descr	ibe Fully '										
	urse was ma	paotou, Deser	ibe i uliy.					а.					
				·									
Describe Cau	ise of Probl	em and Reme	dial Action	n laken.* vernight and the h	eater tre	ater pressure	l un resulting in a	failure of t	he fire ti	uhe aasket	Snrav s	rea was	
backdragged	immediatel	y. Most of th	e fluid ren	nained inside the	bermed a	area, but did	spray the pasture	area.	ne me u	abe gasket.	opray c	nca was	
										•			
Describe Are	a Affected	and Cleanup	Action Tak	cen.*							<u> </u>		
Clean up wil	l follow the	NMOCD gui	delines.										
I hereby cert	ify that the i	nformation g	iven above	is true and comp	lete to the	ne best of my	knowledge and u	inderstand t	hat purs	uant to NM	OCD n	ules and	
regulations a	Il operators	are required t	o report ar	1d/or file certain r	release no	NMOCD m	nd perform correct arked as "Final P	ctive actions	s for rele	eases which	may er	ndanger	
should their	onerations h	ave failed to:	acceptant	investigate and r	emediate	e contaminati	on that nose a thr	eat to grour	nd water	surface w	rator or ater hu	man health	
or the enviro	nment. In a	ddition, NM(	CD accep	tance of a C-141	report d	oes not reliev	e the operator of	responsibili	ity for co	ompliance v	with any	y other	
federal, state	, or local lay	ws and/or reg	ilations.										
	$\langle \rangle$	. ~	$\cap$	$\cap$			<u>OIL CON</u>	SERVA	TION	DIVISIO	<u>)N</u>		
Signature:	h	talie.	1 -71	Vaddi	$\sim$								
			$\sim$		•	Approved by	Environmental S	pecialist:					
Printed Nam	e: Natalie (	fladden									<u>.</u>		
Title: EHS E	nvironment	al Tech				Approval Da	te:	Exp	oiration l	Date:			
E-mail Addr	ess: natalie (	aladden@ana	checorn co	m		Conditions o	f Approval.						
		wapa		• • • • • • • • • • • • • • • • • • •						Attached			
Date: 12/12	/11	Ph	one: 575-3	390-4186						1			

\* Attach Additional Sheets If Necessary

# Appendix B Site Photographs

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

## **Apache White Owl Battery AD**

Unit D, Section 2, T20S, R38E



Scraping leak, facing west

12/9/2011



Scraped overspray area, facing southeast

12/9/2011



Leak scraped, facing west

12/9/2011



Repairing berm, facing south

12/13/2011



Exporting soil, facing north

12/9/2011



Site complete, facing west

12/13/2011

# Appendix C Laboratory Results

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



### Analytical Results For:

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

Received:	12/07/2011	Sampling Date:	12/06/2011
Reported:	12/14/2011	Sampling Type:	Soil
Project Name:	WHITE OWL BATTERY AD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

### Sample ID: PT. 1 @ SS (H102612-01)

Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5730	16.0	12/07/2011	ND	416	104	400	0.00	
TPH 8015M	mg/kg		Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	2000	100	12/08/2011	ND	197	98.5	200	0.173	
DRO >C10-C28	2240	100	12/08/2011	ND	168	84.0	200	4.20	
Surrogate: 1-Chlorooctane	108 9	55.5-15	4	· · · ·					
Surrogate: 1-Chlorooctadecane	113 9	57.6-15	8						

### Sample ID: PT. 2 @ SS (H102612-02)

Chloride, SM4500CI-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>1170</b> 16.0		12/07/2011	ND	416	104	400	0.00	
TPH 8015M	mg/kg		Analyze	d By: MS		· .			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	5980	100	12/08/2011	ND	197	98.5	200	0.173	
DRO >C10-C28	7100	. 100	12/08/2011	ND	168	84.0	200	4.20	
Surrogate: 1-Chlorooctane	170	% 55.5-15	. 4						
Surrogate: 1-Chlorooctadecane	167	% 57.6-15	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



#### Analytical Results For:

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

Received:	12/07/2011	Sampling Date:	12/06/2011
Reported:	12/14/2011	Sampling Type:	Soil
Project Name:	WHITE OWL BATTERY AD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

### Sample ID: PT. 3 @ SS (H102612-03)

Chloride, SM4500CI-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	ide 80.0 16.0		6.0 12/07/2011		416	104	400	0.00	
TPH 8015M	8015M mg/kg		Analyze	d By: MS					
Analyte	Result	Result Reporting Limit		Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/08/2011	ND	197	98.5	200	0.173	
DRO >C10-C28	26.8	10.0	12/08/2011	ND	168	84.0	200	4.20	
Surrogate: 1-Chlorooctane	81.4%	6 55.5-15	4						
Surrogate: 1-Chlorooctadecane	72.0 %	6 57.6-15	8						

### Sample ID: PT. 4 @ SS (H102612-04)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM			······································		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	<b>16.0</b> <sup>.</sup>	12/07/2011	ND	416	104	400	0.00	
TPH 8015M	mg/kg		Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/08/2011	ND	197	98.5	200	0.173	
DRO >C10-C28	<10.0	10.0	12/08/2011	ND	168	84.0	200	4.20	
Surrogate: 1-Chlorooctane	83.2	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	73.0	% 57.6-15	8						

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



12/06/2011 Soil

Cool & Intact Jodi Henson

#### Analytical Results For:

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

Received:	12/07/2011	Sampling Date:
Reported:	12/14/2011	Sampling Type:
Project Name:	WHITE OWL BATTERY AD	Sampling Condition:
Project Number:	NONE GIVEN	Sample Received By:
Project Location:	NOT GIVEN	

### Sample ID: PT. 3 @ 6" (H102612-05)

Chloride, SM4500CI-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Analyzed Method Blank		% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	12/07/2011	ND	416	104	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/08/2011	ND	177	88.7	200	3.39	
DRO >C10-C28	<10.0	10.0	12/08/2011	ND	157	78.7	200	5.35	
Surrogate: 1-Chlorooctane	87.9	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	73.7	57.6-15	8						

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

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Celeg Di Keine

Celey D. Keene, Lab Director/Quality Manager

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES

	(505) 393-2326 FAX (505) 393-24	/6	(32	5) 6/	3-700	1 F	AX	(325	o)673	-7020													
Company Name	Apache Corp.						10		B	LL TO	精制的	ANALYSIS REQUEST											
Project Manage	<sup>2</sup> Natalie Gladden						Р.(	D. #:															
Address:							Co	mpa	ny:							S							i i
City:	State:	Zip	:				At	n:								o						1	
Phone #:	Fax #:			·		Address:								- Vu									
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101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

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	mero= Andi ManAQue	natalie.gladden@apachecorp.com
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† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

Page 6 of 6



### Analytical Results For:

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

Received:	12/12/2011	Sampling Date:	12/12/2011
Reported:	12/16/2011	Sampling Type:	Soil
Project Name:	WHITE OWL BATTERY AD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

### Sample ID: S SCRAPE 6-8" 5 PT BTM COMP (H102653-01)

Chloride, SM4500Cl-B mg/kg Analyzed By: AP Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 32.0 16.0 12/13/2011 ND 416 104 400 0.00 TPH 8015M mg/kg Analyzed By: ZZZ Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier GRO C6-C10 <10.0 10.0 12/14/2011 ND 183 91.4 200 9.64 DRO >C10-C28 66.3 10.0 12/14/2011 ND 214 107 200 6.10 Surrogate: 1-Chlorooctane 101 % 55.5-154 Surrogate: 1-Chlorooctadecane 115 % 57.6-158

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



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Page 4 of 4



### Analytical Results For:

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

Received:	12/13/2011	Sampling Date:	12/13/2011
Reported:	12/16/2011	Sampling Type:	Soil
Project Name:	WHITE OWL BATTERY AD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

### Sample ID: PT 1 INSIDE BERM (H102678-01)

Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	12/15/2011	ND	432	108	400	3.77	
ТРН 8015М	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/15/2011	ND	221	110	200	9.35	
DRO >C10-C28	20.8	10.0	12/15/2011	ND	242	121	200	17.3	
Surrogate: 1-Chlorooctane	. 97.1	% 55.5-15-	4						
Surrogate: 1-Chlorooctadecane	. 112	% 57 6-15	8						

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Celuz D. Kune

Celey D. Keene, Lab Director/Quality Manager

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	(505) 393-2326 FAX	K (505) 393-24	76	(325	) 673	3-700	1 FA	X (3	325)	673-	7020													
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PLEASE NOTE: Linbility an analyses. All claims includir service. In no event shall Cr affiliates or successors white	d Damages. Cardinal's Itability and clien og those for negligence and any other oa ardinal be kable tyr incidental or consequ og out of or relatod to the performance o	It's exclusive remedy for an use whatsoever shall be d uental damages, including I services hereunder by Co	iy çlain İsəməd Without ardinal,	atising waived limitatic regatols	whether unless m n, busing uss of wh	hased in ade in wr ess intern ether suc	contract c iting and : iptions, los h claim is	r tort, s eceive is of u based	shall be d by Cr së, cr lt upon a	limited ardinal v osé of pr ov of the	to the amount ba within 30 days after refits incurred by a above stated re	id by the client for er completion of t client, its subsidia asons or otherwis	r the he applica mies se,	ale .										
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# 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



O = Wells of unknown use (USGS)

= Non-production wells
 reial, sanitation, domestic, stock)

= section (1 sq. mile)

📌 = Subject Site



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National Water Information System: Web Interface

USGS Water Resources

News updated Nov, 2011

# Groundwater New Mexico GO

**Geographic Area:** 

## **Groundwater levels for New Mexico**

Data Category:

## Search Results -- 1 sites found

Search Criteria

Agency code = usgs

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

## USGS 323613103070101 20S.38E.02.21213

Available data for this site Groundwater: Field measurements	GO GO
Lea County, New Mexico Hydrologic Unit Code 12080003 Latitude 32°36'33.3", Longitude 103°06'57.9" NAD83 Land-surface elevation 3,579.90 feet above NGVD29 This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.	Output formats Table of data Tab-separated data Graph of data Reselect period



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U.S. Department of the Interior | U.S. Geological Survey Title: Groundwater for New Mexico: Water Levels URL: http://nwis.waterdata.usgs.gov/nm/nwis/gwlevels? USA.gov

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USGS Water Resources

News updated Nov, 2011

# Data Category: Geographic Area: Groundwater New Mexico

## **Groundwater levels for New Mexico**

## Search Results -- 1 sites found

Search Criteria

Agency code = usgs

site\_no list =

• 323608103073501

**Minimum number of levels =** 1

Save file of selected sites to local disk for future upload

## USGS 323608103073501 20S.38E.02.311

Available data for this site Groundwater: Field measurements GO Lea County, New Mexico Output formats Hydrologic Unit Code 12080003 Latitude 32°36'08", Longitude 103°07'35" NAD27 Table of data Land-surface elevation 3,570 feet above NGVD29 Tab-separated data The depth of the well is 101 feet below land surface. <u>Graph of data</u> The depth of the hole is 101 feet below land surface. Reselect period This well is completed in the Ogallala Formation (1210GLL) local aquifer.



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USGS Water Resources

News updated Nov, 2011

# Data Category: Geographic Area: Groundwater Image: Comparison of the sector of the se

## **Groundwater levels for New Mexico**

## Search Results -- 1 sites found

Search Criteria

Agency code = usgs site\_no list = • 323454103065001 Minimum number of levels = 1

Save file of selected sites to local disk for future upload

## USGS 323454103065001 20S.38E.11.41440

Lea County, New Mexico	Available data for this site Groundwater: Field measurement	s 🔽 GO
Latitude 32°35'03.6", Longitude 103°06'54.7" NAD83 Land-surface elevation 3,567.00 feet above NGVD29 The depth of the well is 43 feet below land surface. This well is completed in the High Plains aquifer (N100HGHPLN) national aquifer. This well is completed in the Ogallala Formation (1210GLL) local aquifer.	Lea County, New Mexico Hydrologic Unit Code 12080003 Latitude 32°35'03.6", Longitude 103°06'54.7" NAD83 Land-surface elevation 3,567.00 feet above NGVD29 The depth of the well is 43 feet below land surface. This well is completed in the High Plains aquifer (N100HGHPLN) national aquifer. This well is completed in the Ogallala Formation (1210GLL) local aquifer.	Output formats Table of data Tab-separated data Graph of data Reselect period

### USGS Groundwater for New Mexico: Water Levels -- 1 sites



Title: Groundwater for New Mexico: Water Levels URL: http://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?

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GO



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Geographic Area:

New Mexico

National Water Information System: Web Interface

**USGS Water Resources** 

News updated Nov, 2011

# **Groundwater levels for New Mexico**

**Data Category:** 

Groundwater

## Search Results -- 1 sites found

Search Criteria

Agency code = usgs

site\_no list = 323735103075001

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

## USGS 323735103075001 19S.38E.34.22122

Available data for this site Groundwater: Field measurement	ts 💽 GO
Lea County, New Mexico Hydrologic Unit Code 12080003 Latitude 32°37'25.9", Longitude 103°07'48.4" NAD83 Land-surface elevation 3,595.40 feet above NGVD29 The depth of the well is 120 feet below land surface. This well is completed in the High Plains aquifer (N100HGHPLN) national aquifer. This well is completed in the Ogallala Formation (1210GLL) local aquifer.	Output formats Table of data Tab-separated data Graph of data Reselect period



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National Water Information System: Web Interface



News updated Nov, 2011

## Data Category:Geographic Area:Groundwater New MexicoGO

## **Groundwater levels for New Mexico**

## Search Results -- 1 sites found

Search Criteria

Agency code = usgs site\_no list =

• 323621103071101

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

## USGS 323621103071101 19S.38E.35.34424

Available data for this site Groundwater: Field measurement	s 🔄 GO
Lea County, New Mexico Hydrologic Unit Code 12080003 Latitude 32°36'52.2", Longitude 103°07'10.0" NAD83 Land-surface elevation 3,577.80 feet above NGVD29 The depth of the well is 100 feet below land surface. This well is completed in the High Plains aquifer (N100HGHPLN) national aquifer. This well is completed in the Ogallala Formation (1210GLL) local aquifer.	Output formats Table of data Tab-separated data Graph of data Reselect period



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Page Contact Information: <u>New Mexico Water Data Maintainer</u> Page Last Modified: 2011-12-14 12:41:01 EST 0.25 0.23 nadww01



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

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POD has been replaced	O=orphaned,	(au antern		1-1		( )N	IF 2-		-95)				
& no longer serves a water right file.)	C=the file is closed)	(quarters (quarters	are are	sm	alle	est to	v⊨ 3= ⊨large	SVV 4 est)	(NAD83 UTM	1 in meters)		(In fee	et)
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<u>L 03107</u>	L	LE				03	20S	38E	674886	3608704*	80	25	55
L 03125	L	LE	1	4	4	11	20S	38E	677025	3606635*	52	52	0
L 07559 POD1	L	LE	4	2	3	02	20S	38E	676385	3608438*	80	39	41
L 07559 POD10	. L	LE	2	2	3	02	20S	38E	676385	3608638*	75	46	29
L 07559 POD11	L	LE	1	2	3	02	20S	38E	676185	3608638*	75	42	33
L 07559 POD2	L	LE	4	2	3	02	20S	38E	676385	3608438*	70	43	27
L 07559 POD3	L	LE	2	2	3	02	20S	38E	676385	3608638*	71	39	32
L 07559 POD4	L	LE	2	2	3	02	20S	38E	676385	3608638*	75	44	31
L 07559 POD5	L	LE	1	2	3	02	20S	38E	676185	3608638*	75	41	34
L 07559 POD6	L	LE	2	1	3	02	20S	38E	675983	3608632*	80	44	36
L 07559 POD7	L	LE	4	2	3	02	20S	38E	676385	3608438*	75		
L 07559 POD8	L	LE	4	2	3	02	20S	38E	676385	3608438*	75	39	36
L 07559 POD9	. L	LE .	2	2	3	02	20S	38E	676385	3608638*	70	39	31
L 11862 POD1	Ľ	LE	1	1	1	02	20S	38E	675768	3609437*	95	45	50
L 12050 POD1	L	LE		1	1	02	20S	38E	675785	3609291	95	45	50
L 12455 POD1	L	LE	2	1	2	02	20S	38E	676854	3609504	100	68	32
									Avera	age Depth to	o Water	: 44	feet
										Minimun	n Depth	: 25	feet
										Maximun	n Depth	: 68	feet
Record Count: 17					-								· <b></b>

**PLSS Search:** 

Section(s): 1, 2, 3, 10, 11, Township: 20S 12

Range: 38E

### \*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.



## 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 closed)	(quarters (quarters	are are	1= <b>i</b> sm	NW	/ 2=N est to	NE 3=	SW 4= est) (	=SE) (NAD83 UTN	1 in meters)	1	(In feet)	)
	POD		Q	Q	Q	,		·			Depth	Depth \	Nater
POD Number	Code Subbas	in Count	<u>y 64</u>	16	4	Sec	Tws	Rng	X	Y	Well	Water C	olumn
<u>L 0</u> 1034	L	· LE		4	2	34	19S	38E	675447	3610536*	80		
L 01130 POD1	L	LE		4	2	34	19S	38E	675447	3610536*	80	46	34
L 01144 POD 1	L	LE	4	2	2	34	19S	38E			76	50	26
<u>L 01463</u>	L	LE	1	1	1	35	19S	38E	675742	3611044*	85	58	27
L 01687 POD1	L	LE	2	2	1	34	19S	38E	674736	3611024*	50	40	10
<u>L 02477</u>	L	LE	4	4	2	34	19S	38E	675546	3610435*	80	46	34
L 02582	L	LE	4	4	2	34	19S	38E	675546	3610435*	80	57	23
L 02625	L	LE	3	4	2	34	19S	38E	675346	3610435*	60	40	20
L 02829	L	LE	2	1	1	34	19S	38E	674334	3611017*	68	35	33
<u>L_0</u> 3955	L	LE	2	2	2	34	19S	38E	675540	3611037*	100	58	42
L 04532 A	L	LE	3	2	1	35	19S	38E	676145	3610851*	12		•
L 06985	L	LE	2	1	1	35	19S	38E	675942	3611044*	98	66	32
L 12343 POD1	L	LE	4	1	1	34	19S	38E	674434	3610730	66	42	24
L 12419 POD1	L	LE	1	1	1	35	19S	38E	675678	3611134	136		
L 12543 POD1	L	LE	2	1	3	35	19S	38E	676021	3610151	110		
									Avera	age Depth t	o Water	: 48 fe	et
										Minimur	n Depth	: 35 fe	et
		·								Maximun	n Depth	: 66 fe	et
Record Count: 15													

PLSS Search:

Section(s): 34, 35, 36

Township: 19S Ra

Range: 38E

### \*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.

# Appendix E Final Form C-141

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

District I 1625 N. French	Dr., Hobbs,	HOBBS OCD State of			New Mex	HOBB	S OCD	Form C-141 Revised October 10, 2003					
District II 1301 W. Grand J District III 1000 Rio Brazos District IV 1220 S. St. France	Avenue, Art s Road, Azte cis Dr., Sant	NOV 0 9 2012 Oil Conserv 1220 South RECEIVED Santa Fe			vation Division NOV 0 9 St. Francis Dr. NM 87505 RECET			9 : EIVED	Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form				
· · · · ·			Rel	ease Notifi	catio	n and Co	orrective A	ctior	1				
						OPERA	FOR		🔲 Initia	al Report	🛛 F	inal Repo	
Name of Company Apache Corp.						Contact Natalie Gladden							
Address Facility Nar	P.O. B ne White	ox 1849, Et e Owl Batter	nice, NN v (nearesi	1, 88231 t well #1)		Facility Type     Production Facility							
Surface Ow	ner Ui	nknown		Mineral (	Jwner	State of NM	1		Lease N	Jo. 30-025-3	6689		
Surface Ow		·							Lease 1	0. 50-025-5	0009		
Unit Letter	Section	Township	Feet from the	A I IO North	N OF RELEASE								
					ENU		220	FILL					
D	2	205	38E	582	FNL	- •	330	FWL		Lea			
			Lat	itude		Longitu	de						
Tyme of Dolo		Dec duced West		NAT	<b>FURE</b>	OF REL	EASE		V.L.		1.1.1		
Source of Release Fire Tube						Date and Hour of Occurrence Dat			Date and	and Hour of Discovery			
Was Immediate Notice Given?						12/06/11			12/06/11	12/06/11			
was mineura			Yes 🛛	No 🗌 Not R	equired	xd							
By Whom?						Date and Hour							
Was a Watero	course Rea	ched?	Yes 🛛	No ·		If YES, Vo	olume Impacting	the Wat	ercourse.				
If a Watercou	irse was Im	pacted, Descr	ibe Fully. <sup>3</sup>	*					NTIN	: 35'			
Describe Cau Southern Uni back-dragged	se of Probl on's gas co immediate	em and Reme ompressor wer ely. Most of t	dial Actio at down ov ne fluid re	n Taken.* /ernight and the h mained inside the	eater tro e bermeo	eater pressured l area, but did	l up resulting in a spray the pasture	a failure e area.	of the fire t	ube gasket. S	pray are	ea was	
Describe Area The leak affect NMOCD app TPH confirms	a Affected cted the be roved disp ation. The	and Cleanup A rmed containn osal facility. 1 excavations v	Action Tal nent and a Representa vere backf	ken.* n area to the sout ative soil samples illed with clean so	h of the were co	berm, includin ollected from t leveled.	ng overspray into he excavations a	o pasture nd sent (	aland. Impato a comme	ncted soils wer rcial laborator	e remo y for ch	ved to a lloride and	
I hereby certi regulations al public health should their o or the enviror federal, state,	fy that the l operators or the envi operations h ment. In a or local la	information g are required t ronment. The nave failed to addition, NMC ws and/or reg	ven above o report an acceptance adequately OCD accept alations.	e is true and comp nd/or file certain i ce of a C-141 rep v investigate and i otance of a C-141	olete to r release r ort by th remedia report o	the best of my notifications and ne NMOCD m te contaminati does not reliev	knowledge and nd perform corre arked as "Final I on that pose a th e the operator of	understa ctive act Report" c reat to g respons	nd that purs ions for rele loes not reli round water ibility for co	eant to NMO eases which m eve the operate surface wate ompliance wite	CD rule ay enda cor of lia r, huma h any o	s and anger ability an health ther	
Signature:	Natali	<b>fili</b> e e Gladden	G	lodd	er	Approved by District Supervisor Environmental Specialist							
Title FUS	S Environ	mental Tech				Approval De	11/09/12		Evolution	Date:			
E-mail Addre	ss: Nata	alie.gladden@	apachecor	p.com		Conditions of	Approval:	1	плрпацоп				
Date:	Date: 11 G/L Phone: (575) 390-4						]			Attached 11 189-06-14-3091			
<ul> <li>Attach Addit</li> </ul>	tional' She	ets If Necess	ary	л									