

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

**HOBBS OCD** State of New Mexico  
Energy Minerals and Natural Resources  
**NOV 09 2012**  
**RECEIVED** Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

**HOBBS OCD**  
**NOV 09**  
**RECEIVED**

Form C-141  
Revised October 10, 2003

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

**Release Notification and Corrective Action**

**OPERATOR**  Initial Report  Final Report

Name of Company	Apache Corp.	Contact	Natalie Gladden
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

**LOCATION 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 \_\_\_\_\_

**NATURE OF RELEASE**

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	12/06/11	Date and Hour of Discovery	12/06/11
Was Immediate Notice Given?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?			
By Whom?	Date and Hour				
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	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 treater pressured up resulting in a failure of the fire tube gasket. Spray area was back-dragged immediately. Most of the fluid remained inside the bermed area, but did spray the pasture area.

Describe Area Affected and Cleanup Action Taken.\*

The leak affected the bermed containment and an area to the south of the berm, including overspray into pasture land. Impacted soils were removed to a NMOCD approved disposal facility. Representative soil samples were collected from the excavations and sent to a commercial laboratory for chloride and TPH confirmation. The excavations were backfilled with clean soils and leveled.

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.

Signature: <i>Natalie Gladden</i>	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Natalie Gladden	<i>Jeffrey Sekim</i> Approved by District Supervisor: <b>Environmental Specialist</b>	
Title: EH&S Environmental Tech	Approval Date: 11/09/12	Expiration Date: -
E-mail Address: Natalie.gladden@apachecorp.com	Conditions of Approval: -	Attached <input type="checkbox"/>
Date: 11/9/12	Phone: (575) 390-4186	WRP-06-14-3091

\* Attach Additional Sheets If Necessary

MSAD 1416 834752 *h*



EXPLORING WHAT'S POSSIBLE

HOBBS OCD

NOV 09 2012

RECEIVED

# APACHE CORPORATION

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

## White Owl Battery

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## 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,



Bruce Baker  
Head Foreman  
RECS  
(575) 631-5157

### **Attachments:**

- Figure 1: Site Plat with Initial Sampling Lab Data
- Figure 2: Site Plat with Final Excavations and Lab Data
- Appendix A: Initial Form C-141
- Appendix B: Site Photographs
- Appendix C: Laboratory Results
- Appendix D: Groundwater Study
- Appendix E: Final Form C-141

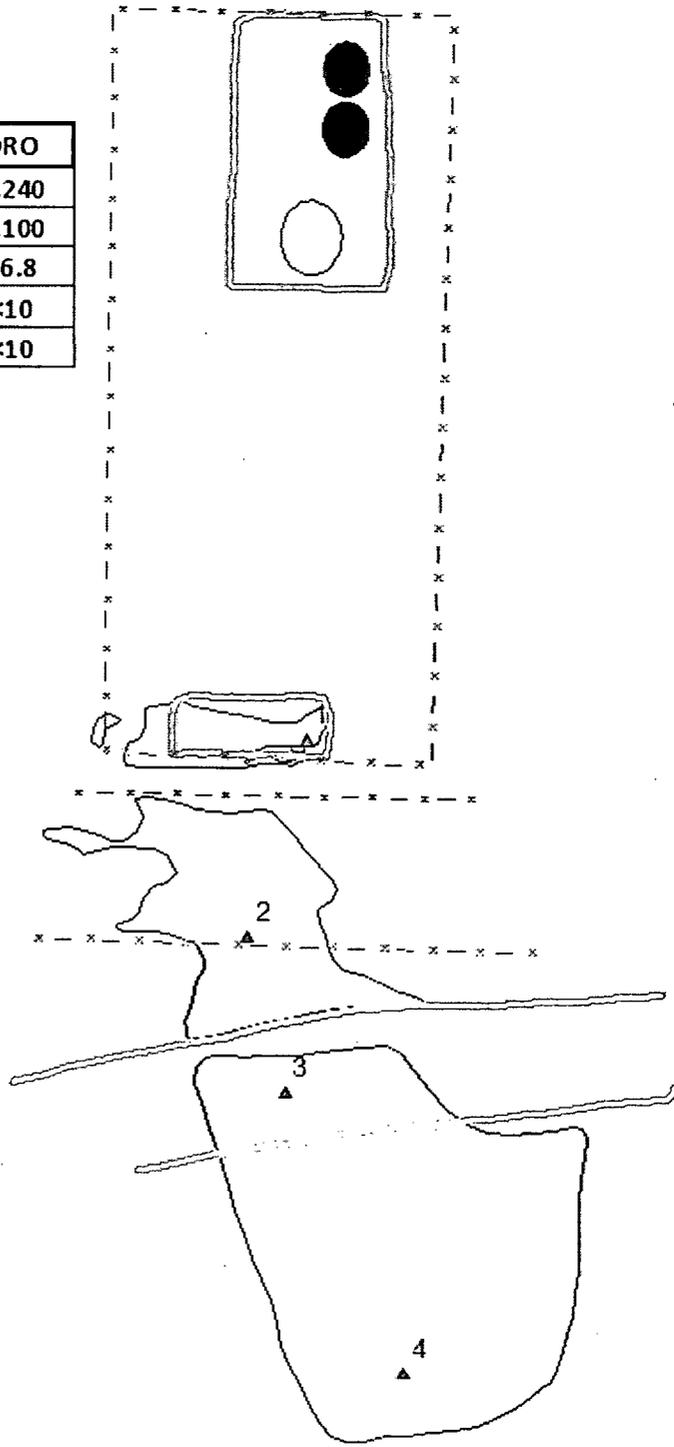
# Figures

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

# Site Plat

## INITIAL 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



### Legend

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



## APACHE WHITE OWL BATTERY AD

UL/D SECTION 2  
T-20-S R-38-E  
LEA COUNTY, NM

### Figure 1

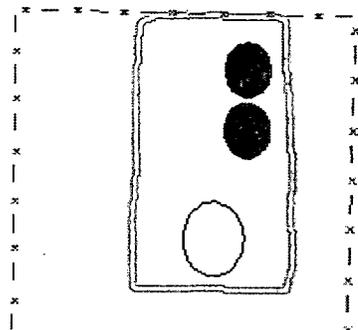


0 10 20 40  

 Feet

GPS date: 12/8/11 by JK  
 Drawing date: 12/7/11  
 Drafted by: TONY GRIECO

# Site Plat

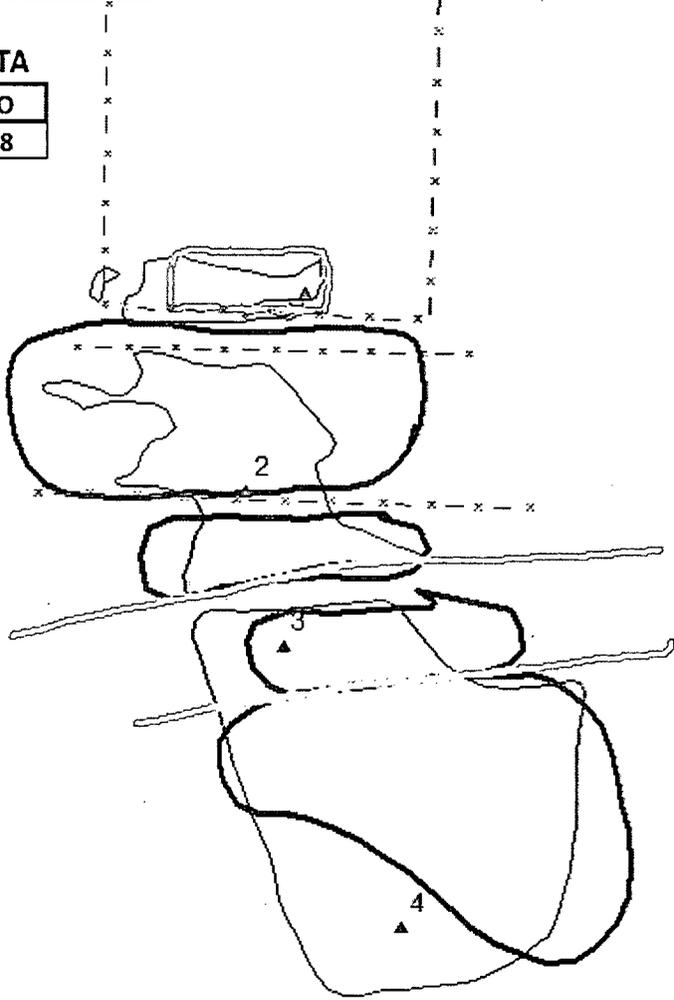


## EXCAVATION AT PT. 2 LAB DATA

Sample Description	Cl-	GRO	DRO
5 Scrape 6-8" 5 Pt Btm Comp	32	<10	66.3

## EXCAVATION WITHIN BERM LAB DATA

Sample Description	Cl-	GRO	DRO
Pt 1 Inside Berm	160	<10	20.8



## Legend

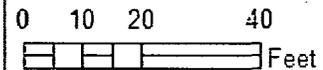
- ▲ SAMPLE POINT
- \* - \* FENCE
- ROAD
- ▭ SCRAPE
- ▭ BERM
- ▭ CONTAMINATED AREA
- ▭ OIL TANK
- ▭ OVERSPRAY AREA
- ▭ SEPARATER
- ▭ STAIN
- ▭ WATER TANK



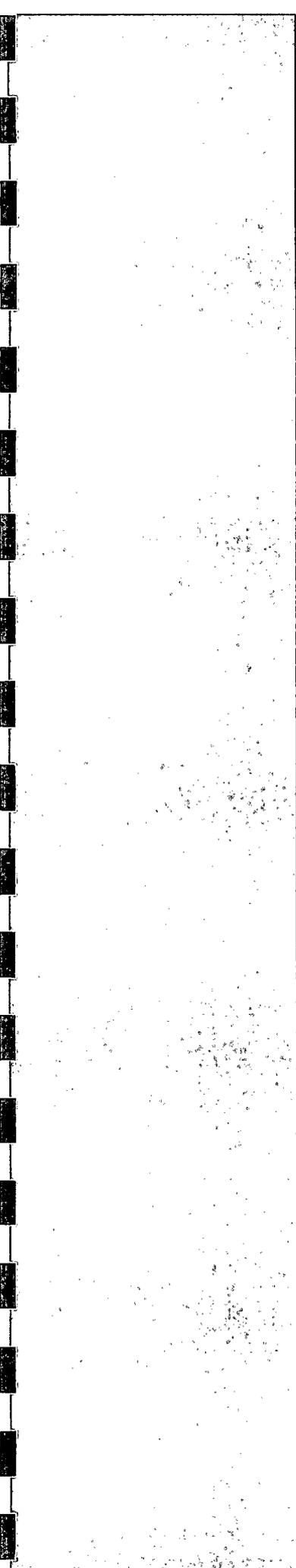
## APACHE WHITE OWL BATTERY AD

UL/D SECTION 2  
T-20-S R-38-E  
LEA COUNTY, NM

## Figure 2



GPS date: 12/8/11 by JK  
Drawing date: 12/7/11  
Drafted by: TONY GRIECO



# Appendix A

Initial Form C-141

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

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

State of New Mexico  
Energy Minerals and Natural Resources  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-141  
Revised August 8, 2011

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

**Release Notification and Corrective Action**

**OPERATOR**

Initial Report  Final Report

Name of Company Apache Corporation	Contact Natalie Gladden
Address PO Box 1849 Eunice, NM 88231	Telephone No. 575-390-4186
Facility Name White Owl Battery (nearest well #1)	Facility Type Production Facility
Surface Owner Unknown	Mineral Owner ST of NM
API No. 30-025-36689	

**LOCATION 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 \_\_\_\_\_

**NATURE OF RELEASE**

Type of Release Oil/Water	Volume of Release 12	Volume Recovered 10
Source of Release Fire tube	Date and Hour of Occurrence 12/06/11	Date and Hour of Discovery 12/06/11
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	
By Whom? Natalie Gladden	Date and Hour 12/7 1150am	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\*

Southern Union's gas compressor went down overnight and the heater treater pressured up resulting in a failure of the fire tube gasket. Spray area was backdragged immediately. Most of the fluid remained inside the bermed area, but did spray the pasture area.

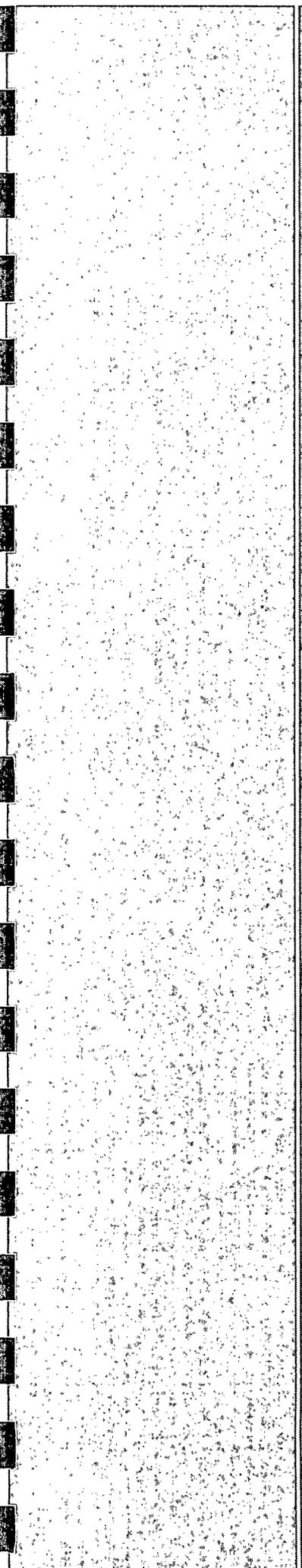
Describe Area Affected and Cleanup Action Taken.\*

Clean up will follow the NMOCD guidelines.

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.

Signature: 	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Natalie Gladden	Approved by Environmental Specialist:	
Title: EHS Environmental Tech	Approval Date:	Expiration Date:
E-mail Address: natalie.gladden@apachecorp.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 12/12/11 Phone: 575-390-4186		

\* Attach Additional Sheets If Necessary



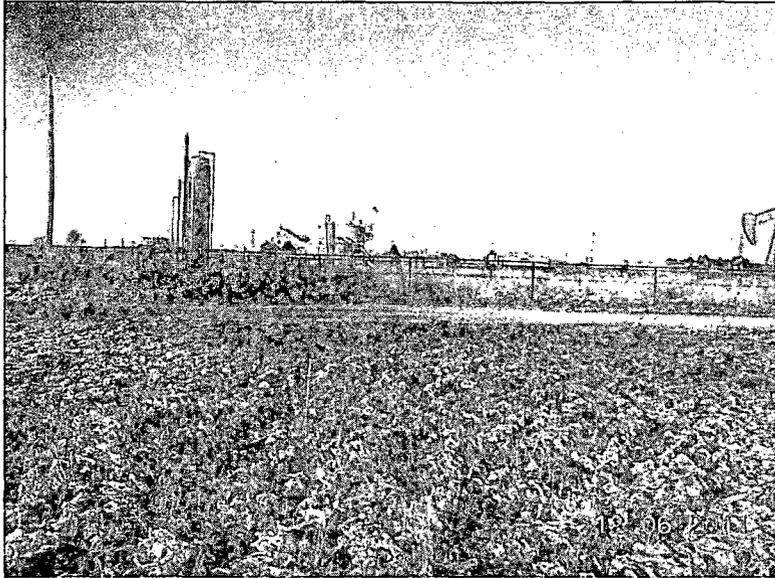
# Appendix B

## Site Photographs

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

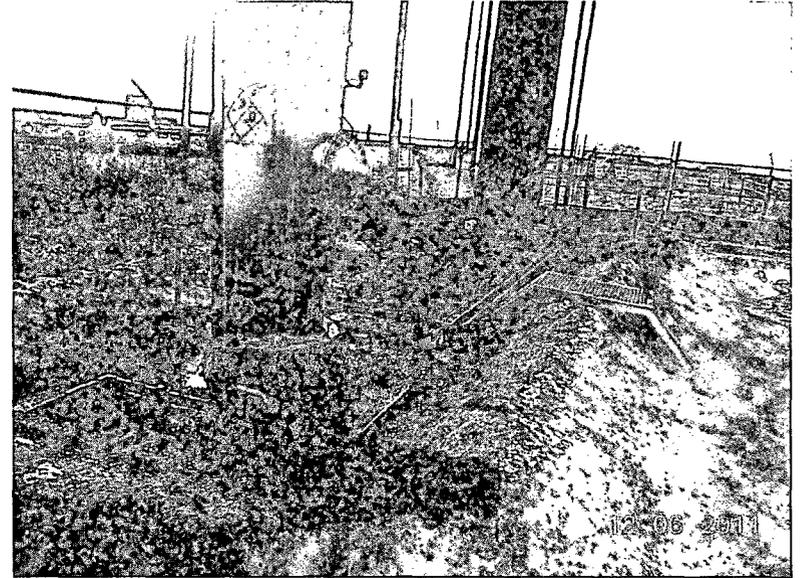
# Apache White Owl Battery AD

Unit D, Section 2, T20S, R38E



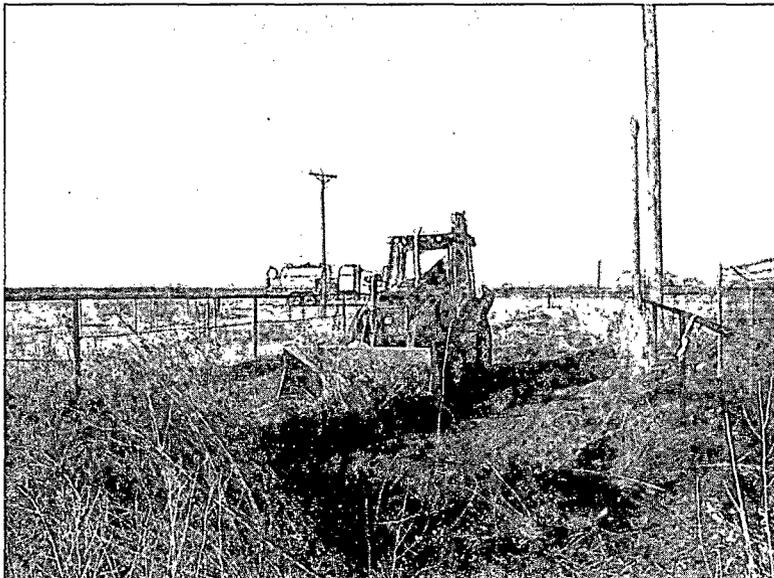
Initial release, facing north

12/6/2011



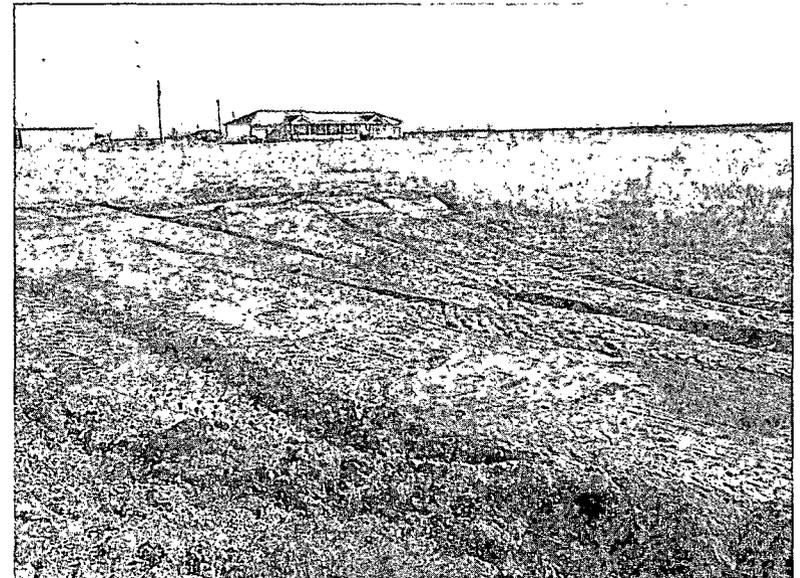
Initial release, facing west

12/6/2011



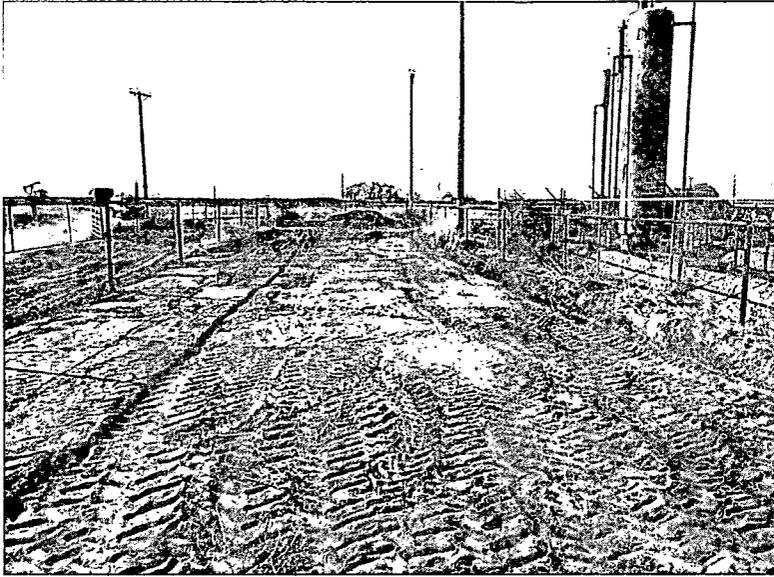
Scraping leak, facing west

12/9/2011



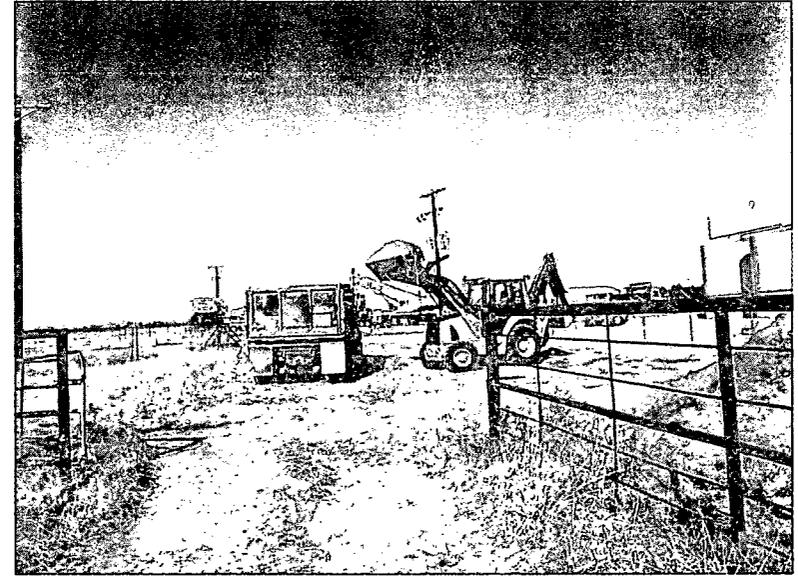
Scraped overspray area, facing southeast

12/9/2011



Leak scraped, facing west

12/9/2011



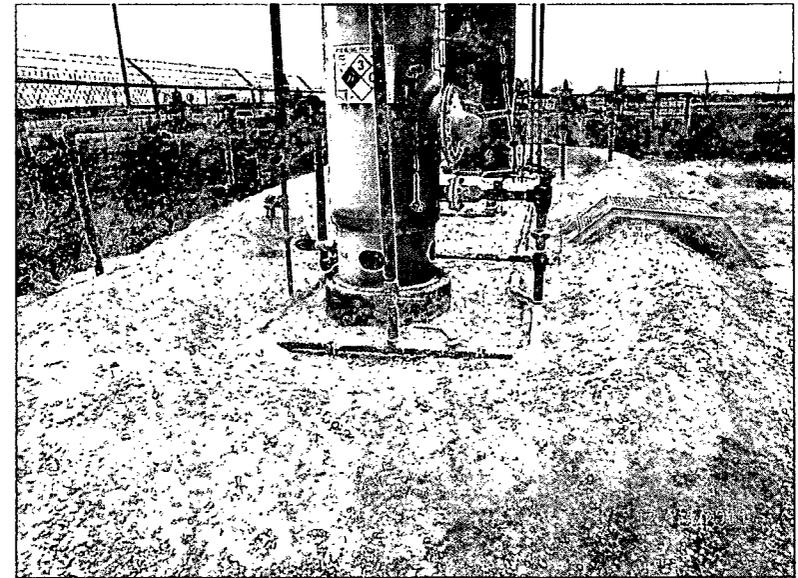
Exporting soil, facing north

12/9/2011



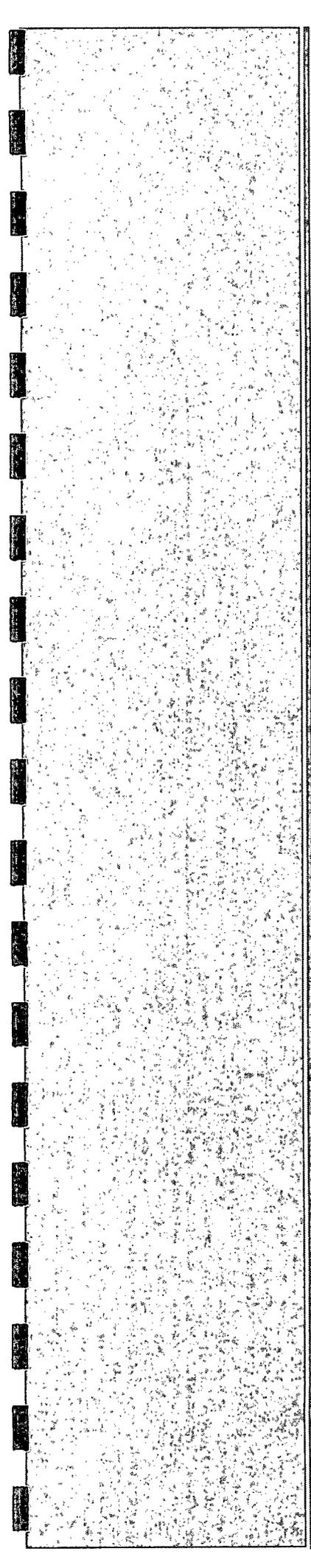
Repairing berm, facing south

12/13/2011



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  
 Reported: 12/14/2011  
 Project Name: WHITE OWL BATTERY AD  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 12/06/2011  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>5730</b>	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	
<b>GRO C6-C10</b>	<b>2000</b>	100	12/08/2011	ND	197	98.5	200	0.173		
<b>DRO &gt;C10-C28</b>	<b>2240</b>	100	12/08/2011	ND	168	84.0	200	4.20		

Surrogate: 1-Chlorooctane 108 % 55.5-154  
 Surrogate: 1-Chlorooctadecane 113 % 57.6-158

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

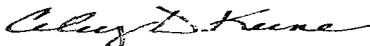
Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>1170</b>	16.0	12/07/2011	ND	416	104	400	0.00		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>5980</b>	100	12/08/2011	ND	197	98.5	200	0.173		
<b>DRO &gt;C10-C28</b>	<b>7100</b>	100	12/08/2011	ND	168	84.0	200	4.20		

Surrogate: 1-Chlorooctane 170 % 55.5-154  
 Surrogate: 1-Chlorooctadecane 167 % 57.6-158

Cardinal Laboratories

\* = Accredited Analyte

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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  
 Reported: 12/14/2011  
 Project Name: WHITE OWL BATTERY AD  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 12/06/2011  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	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	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 % 55.5-154  
 Surrogate: 1-Chlorooctadecane 72.0 % 57.6-158

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

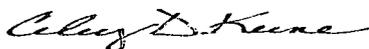
Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/07/2011	ND	416	104	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/08/2011	ND	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 % 55.5-154  
 Surrogate: 1-Chlorooctadecane 73.0 % 57.6-158

Cardinal Laboratories

\* = Accredited Analyte

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Celest 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 @ 6" (H102612-05)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>96.0</b>	16.0	12/07/2011	ND	416	104	400	0.00		

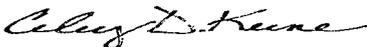
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	12/08/2011	ND	177	88.7	200	3.39		
DRO >C10-C28	<10.0	10.0	12/08/2011	ND	157	78.7	200	5.35		

<i>Surrogate: 1-Chlorooctane</i>	87.9 %	55.5-154
<i>Surrogate: 1-Chlorooctadecane</i>	73.7 %	57.6-158

Cardinal Laboratories

\* = Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey 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:	12/12/2011	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	
<b>Chloride</b>	<b>32.0</b>	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		
<b>DRO &gt;C10-C28</b>	<b>66.3</b>	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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\*=Accredited Analyte

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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:	12/13/2011	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)**

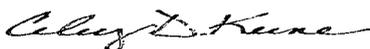
Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>160</b>	16.0	12/15/2011	ND	432	108	400	3.77		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	12/15/2011	ND	221	110	200	9.35		
<b>DRO &gt;C10-C28</b>	<b>20.8</b>	10.0	12/15/2011	ND	242	121	200	17.3		

Surrogate: 1-Chlorooctane	97.1 %	55.5-154
Surrogate: 1-Chlorooctadecane	112 %	57.6-158

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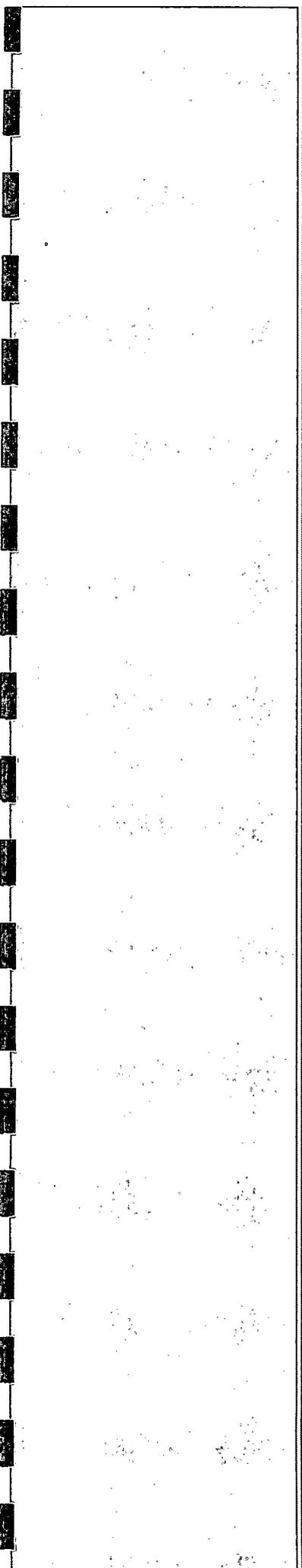
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Celestine Keene, Lab Director/Quality Manager





# Appendix D

## Groundwater Study

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

Apache  
Company

White Owl Battery AD  
site name

D	2	T20S	R38E
Unit Letter	Section	Township	Range

Groundwater Depth: 48 ft

Compiled by: Lara Weinheimer

Date: 12/14/2011

Comments:

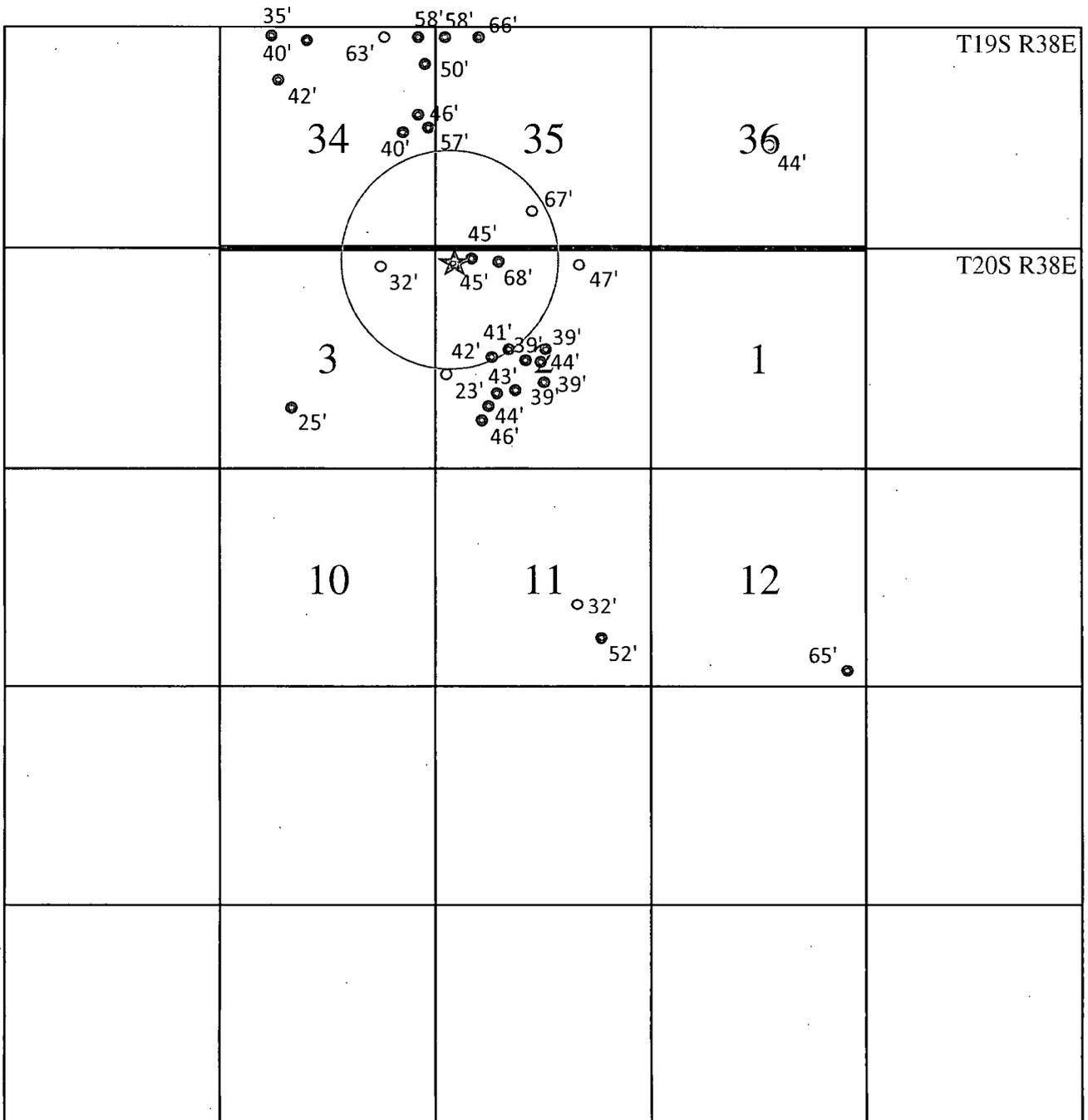
○ = Wells of unknown use (USGS)

● = Non-production wells  
(commercial, sanitation, domestic, stock)

○ = section (1 sq. mile)



★ = Subject Site





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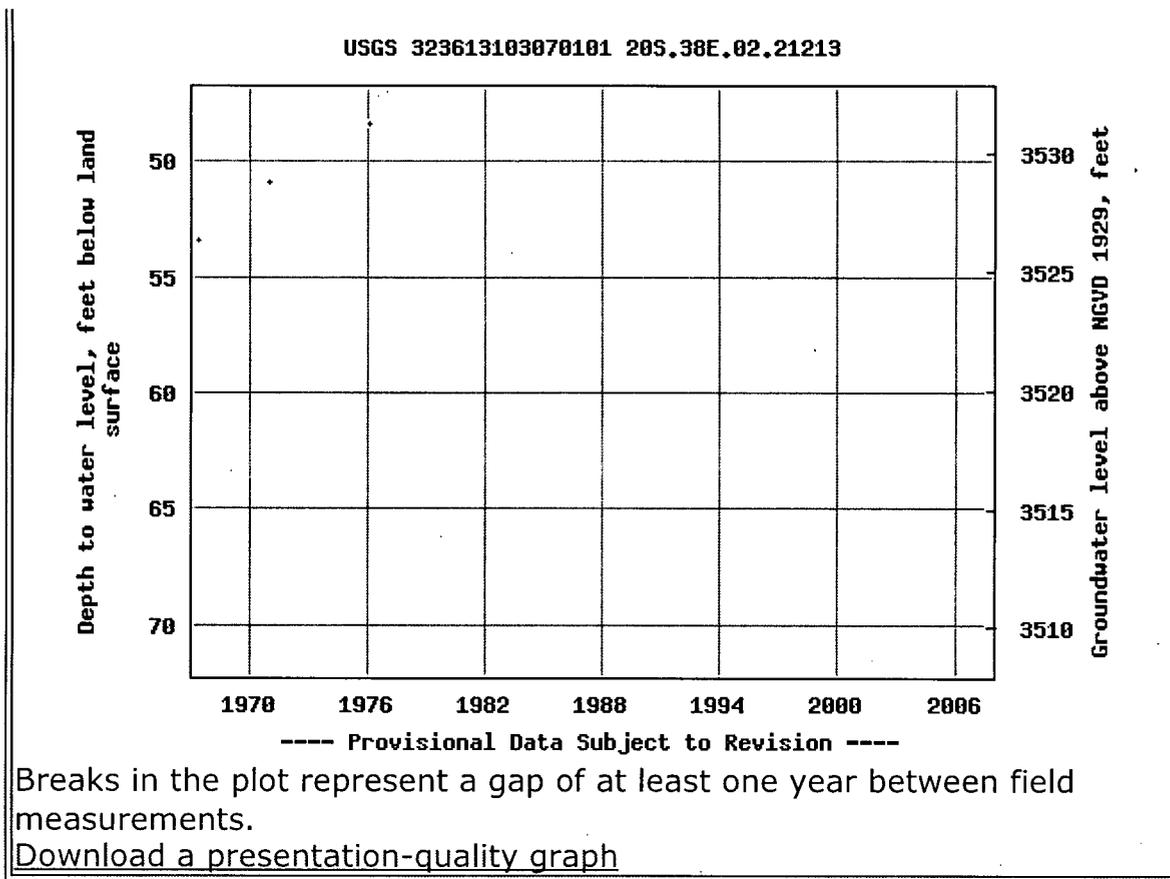
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## USGS 323613103070101 20S.38E.02.21213

Available data for this site   
    

<p>                 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.             </p>	<p><b>Output formats</b></p> <p> <input type="button" value="Table of data"/>  <input type="button" value="Tab-separated data"/>  <input type="button" value="Graph of data"/>  <input type="button" value="Reselect period"/> </p>
Data table content area	



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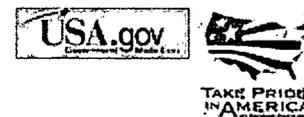
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**URL: <http://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?>**



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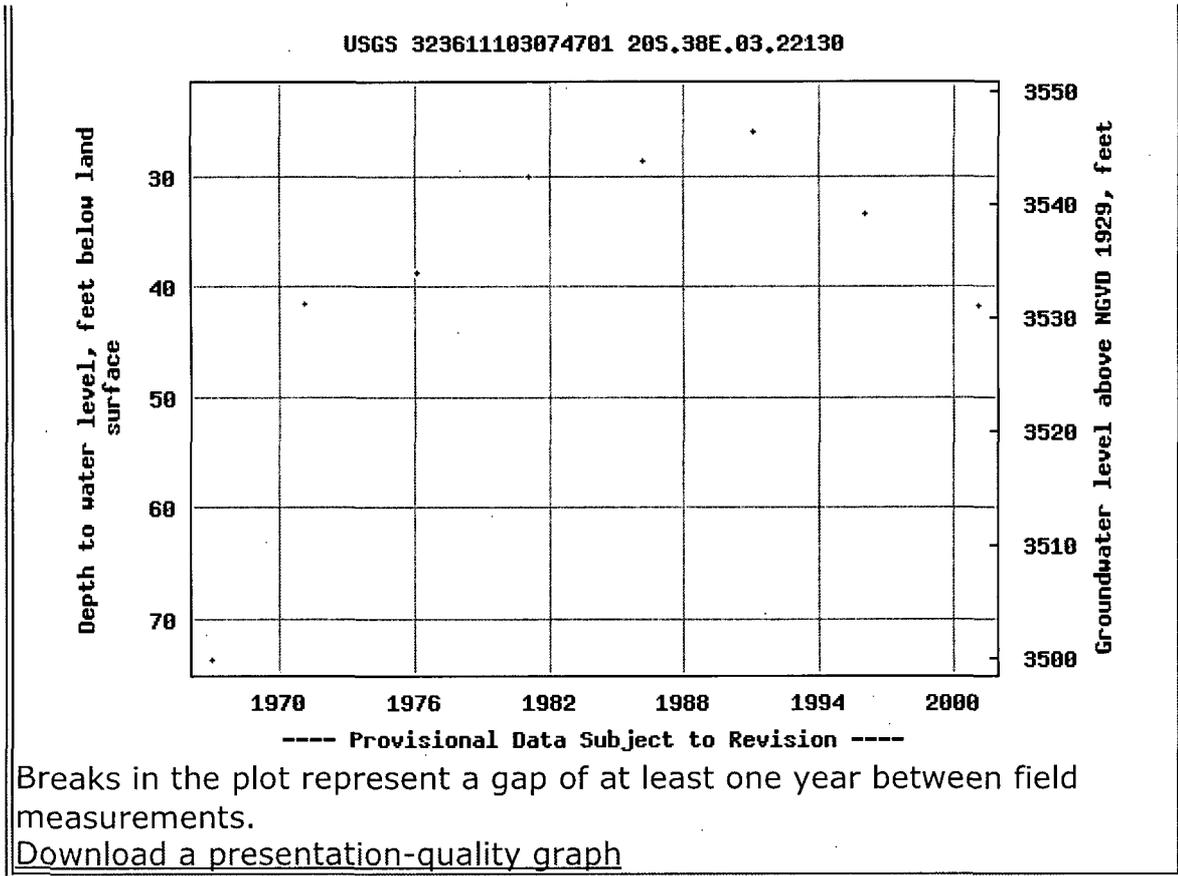
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## USGS 323611103074701 20S.38E.03.22130

Available data for this site

<p>Lea County, New Mexico          Hydrologic Unit Code 12080003          Latitude 32°36'29", Longitude 103°07'53" NAD27          Land-surface elevation 3,572.90 feet above NGVD29          The depth of the well is 90 feet below land surface.          This well is completed in the Ogallala Formation          (121OGLL) local aquifer.</p>	<p><b>Output formats</b></p> <p><a href="#">Table of data</a></p> <p><a href="#">Tab-separated data</a></p> <p><a href="#">Graph of data</a></p> <p><a href="#">Reselect period</a></p>



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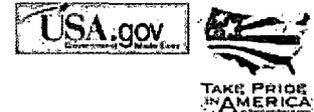
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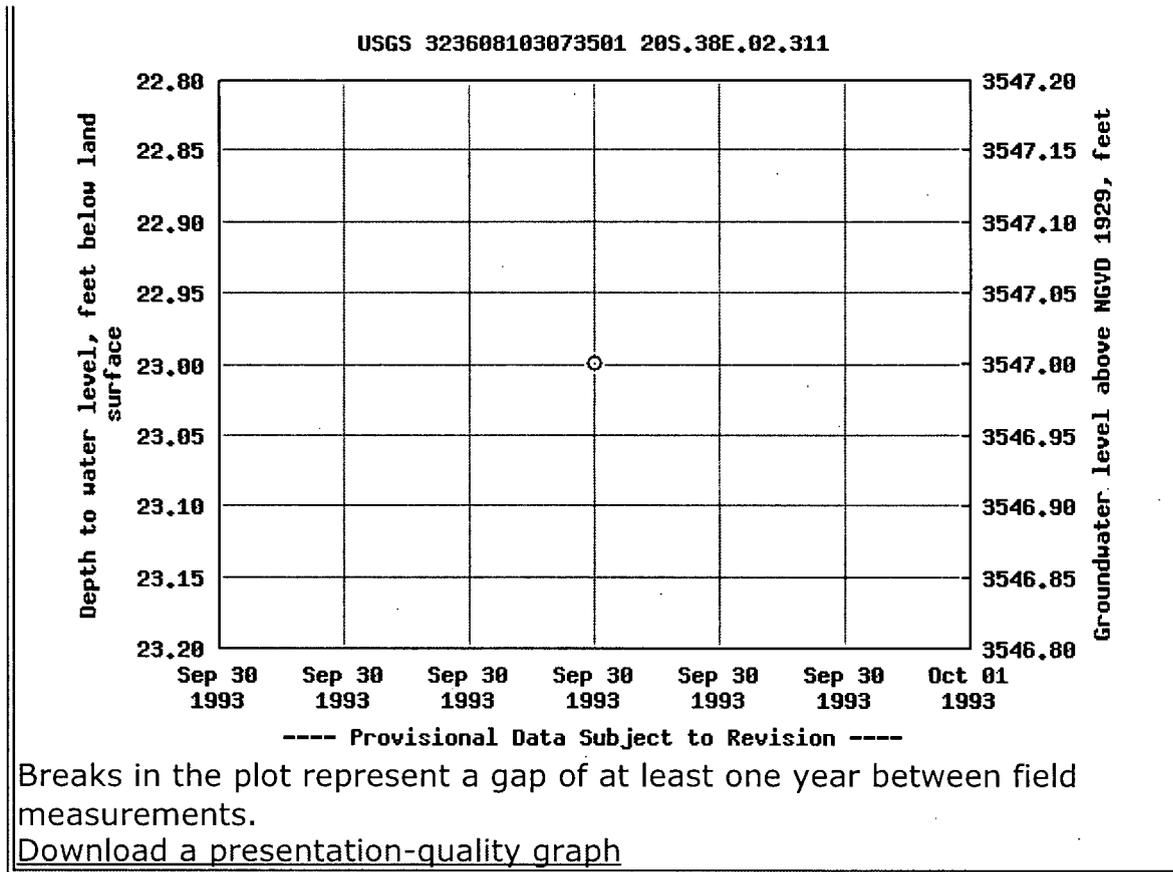
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### USGS 323608103073501 20S.38E.02.311

Available data for this site

<p>Lea County, New Mexico                  Hydrologic Unit Code 12080003                  Latitude 32°36'08", Longitude 103°07'35" NAD27                  Land-surface elevation 3,570 feet above NGVD29                  The depth of the well is 101 feet below land surface.                  The depth of the hole is 101 feet below land surface.                  This well is completed in the Ogallala Formation                  (121OGLL) local aquifer.</p>	<p><b>Output formats</b></p> <p><a href="#">Table of data</a></p> <p><a href="#">Tab-separated data</a></p> <p><a href="#">Graph of data</a></p> <p><a href="#">Reselect period</a></p>
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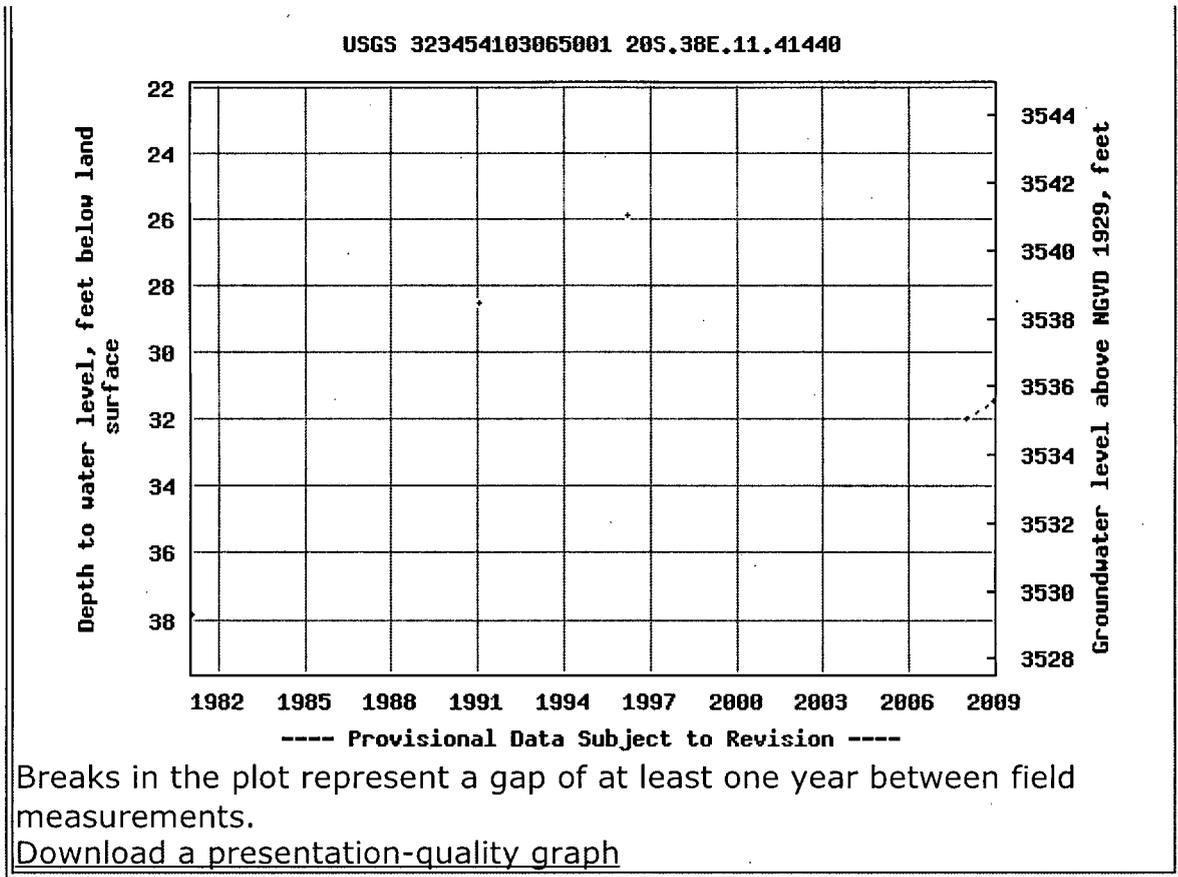
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## USGS 323454103065001 20S.38E.11.41440

Available data for this site

<p>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 (121OGLL) local aquifer.</p>	<p><b>Output formats</b></p> <table border="1"> <tr><td><a href="#">Table of data</a></td></tr> <tr><td><a href="#">Tab-separated data</a></td></tr> <tr><td><a href="#">Graph of data</a></td></tr> <tr><td><a href="#">Reselect period</a></td></tr> </table>	<a href="#">Table of data</a>	<a href="#">Tab-separated data</a>	<a href="#">Graph of data</a>	<a href="#">Reselect period</a>
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<a href="#">Tab-separated data</a>					
<a href="#">Graph of data</a>					
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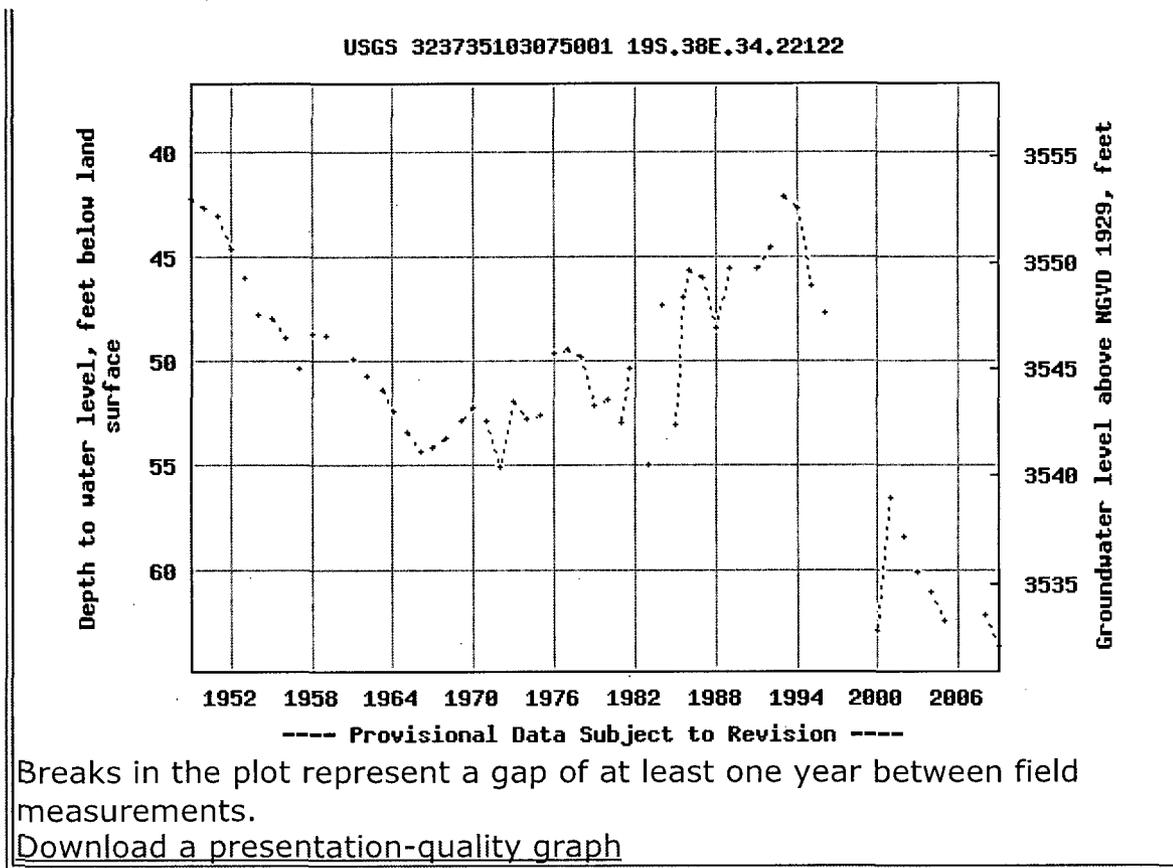
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### USGS 323735103075001 19S.38E.34.22122

Available data for this site

<p>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 (121OGLL) local aquifer.</p>	<p><b>Output formats</b></p> <p><a href="#">Table of data</a></p> <p><a href="#">Tab-separated data</a></p> <p><a href="#">Graph of data</a></p> <p><a href="#">Reselect period</a></p>
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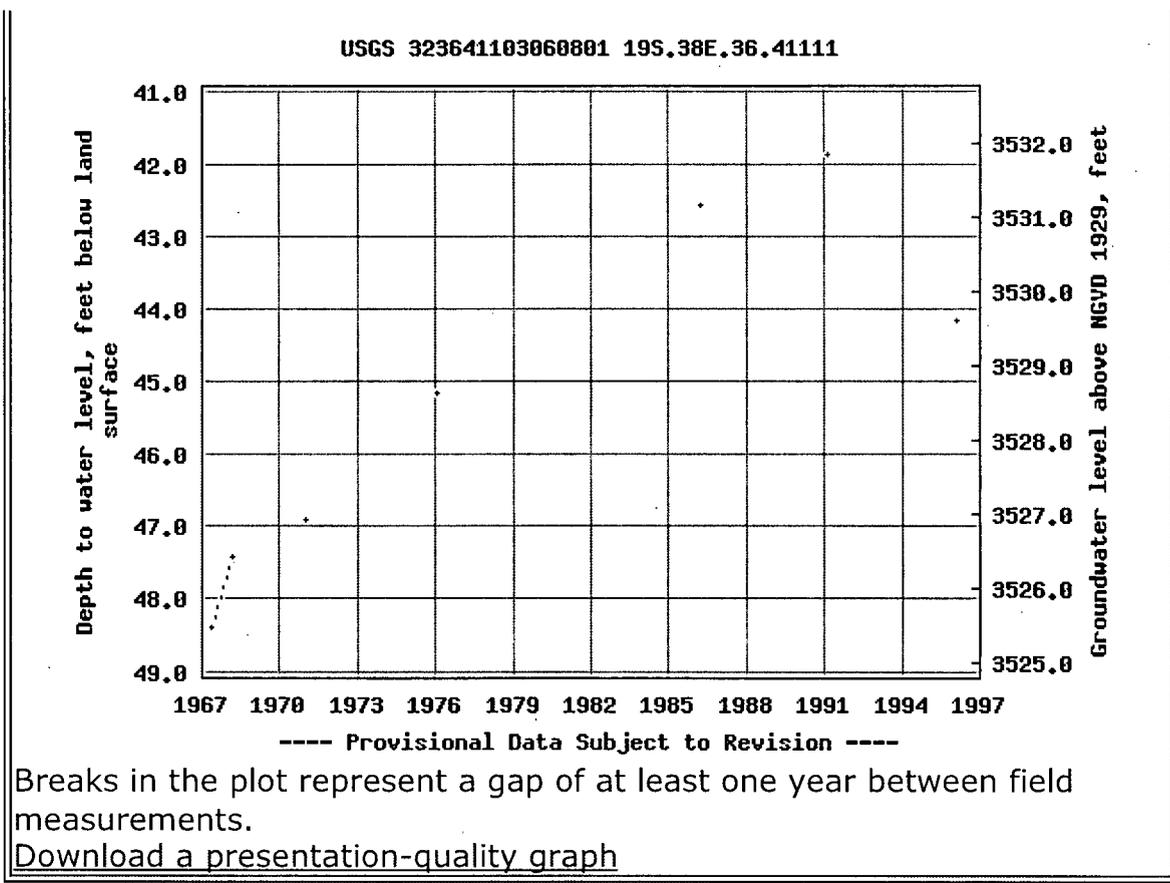
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## USGS 323641103060801 19S.38E.36.41111

Available data for this site

<p>Lea County, New Mexico                  Hydrologic Unit Code 12080003                  Latitude 32°37'00", Longitude 103°06'07" NAD27                  Land-surface elevation 3,573.80 feet above NGVD29                  The depth of the well is 101 feet below land surface.                  This well is completed in the Ogallala Formation                  (121OGLL) local aquifer.</p>	<p><b>Output formats</b></p> <p><input type="button" value="Table of data"/></p> <p><input type="button" value="Tab-separated data"/></p> <p><input type="button" value="Graph of data"/></p> <p><input type="button" value="Reselect period"/></p>
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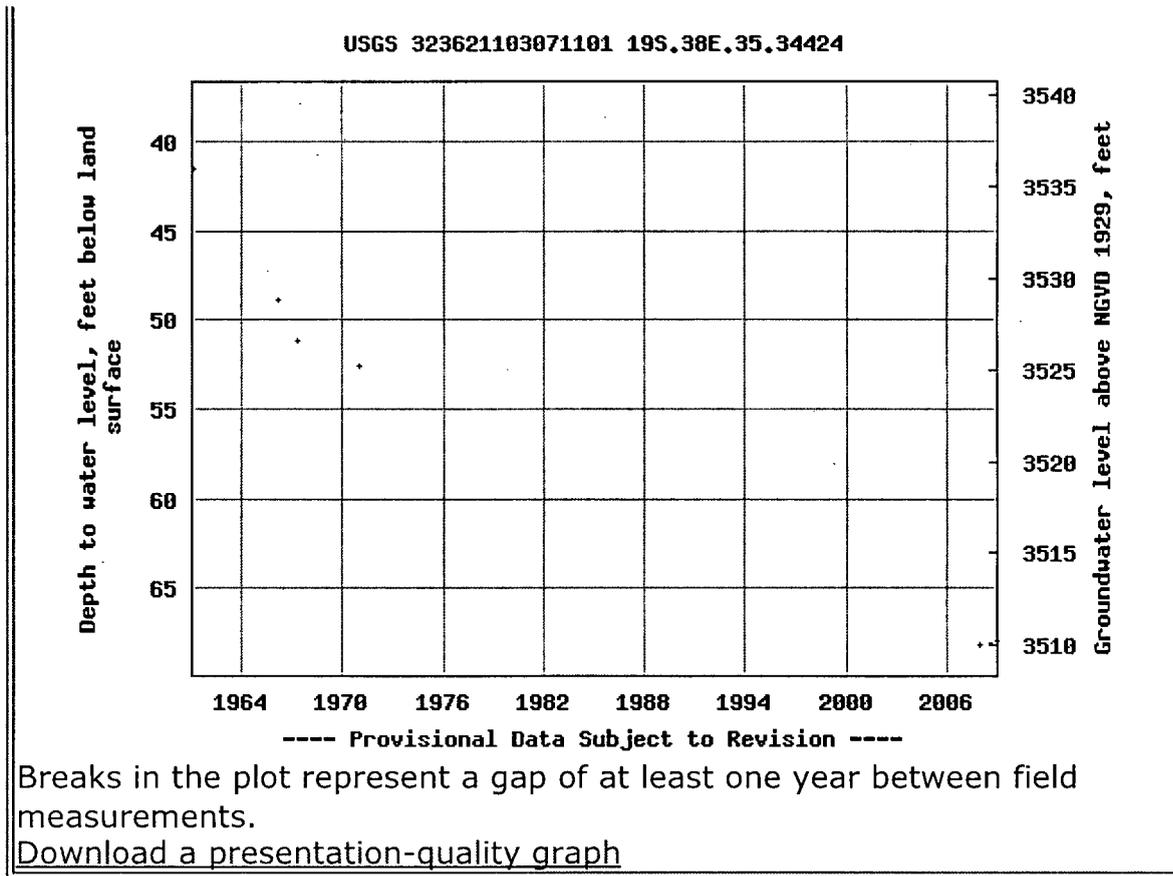
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## USGS 323621103071101 19S.38E.35.34424

Available data for this site

<p>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 (121OGLL) local aquifer.</p>	<p><b>Output formats</b></p> <p><input type="button" value="Table of data"/></p> <p><input type="button" value="Tab-separated data"/></p> <p><input type="button" value="Graph of data"/></p> <p><input type="button" value="Reselect period"/></p>
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0.25 0.23 nadww01



# 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 are 1=NW 2=NE 3=SW 4=SE)  
(quarters are smallest to largest)

(NAD83 UTM in meters) (In feet)

POD Number	POD Code	Subbasin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
L 02735	L	LE	LE	4	4	4	12	20S	38E	678836	3606463*	90	65	25
L 03107	L	LE	LE				03	20S	38E	674886	3608704*	80	25	55
L 03125	L	LE	LE	1	4	4	11	20S	38E	677025	3606635*	52	52	0
L 07559 POD1	L	LE	LE	4	2	3	02	20S	38E	676385	3608438*	80	39	41
L 07559 POD10	L	LE	LE	2	2	3	02	20S	38E	676385	3608638*	75	46	29
L 07559 POD11	L	LE	LE	1	2	3	02	20S	38E	676185	3608638*	75	42	33
L 07559 POD2	L	LE	LE	4	2	3	02	20S	38E	676385	3608438*	70	43	27
L 07559 POD3	L	LE	LE	2	2	3	02	20S	38E	676385	3608638*	71	39	32
L 07559 POD4	L	LE	LE	2	2	3	02	20S	38E	676385	3608638*	75	44	31
L 07559 POD5	L	LE	LE	1	2	3	02	20S	38E	676185	3608638*	75	41	34
L 07559 POD6	L	LE	LE	2	1	3	02	20S	38E	675983	3608632*	80	44	36
L 07559 POD7	L	LE	LE	4	2	3	02	20S	38E	676385	3608438*	75		
L 07559 POD8	L	LE	LE	4	2	3	02	20S	38E	676385	3608438*	75	39	36
L 07559 POD9	L	LE	LE	2	2	3	02	20S	38E	676385	3608638*	70	39	31
L 11862 POD1	L	LE	LE	1	1	1	02	20S	38E	675768	3609437*	95	45	50
L 12050 POD1	L	LE	LE		1	1	02	20S	38E	675785	3609291	95	45	50
L 12455 POD1	L	LE	LE	2	1	2	02	20S	38E	676854	3609504	100	68	32

Average Depth to Water: **44 feet**

Minimum Depth: **25 feet**

Maximum Depth: **68 feet**

**Record Count: 17**

**PLSS Search:**

**Section(s): 1, 2, 3, 10, 11, 12    Township: 20S    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 are 1=NW 2=NE 3=SW 4=SE)  
(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD		Q Q Q					X	Y	Depth				
	Code	Subbasin	County	64	16	4	Sec			Tws	Rng	Well	Water	Column
<u>L 01034</u>	L		LE	4	2	34	19S	38E	675447	3610536*	80			
<u>L 01130</u> POD1	L		LE	4	2	34	19S	38E	675447	3610536*	80	46	34	
<u>L 01144</u> 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
<u>L 01687</u> 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
<u>L 02582</u>	L		LE	4	4	2	34	19S	38E	675546	3610435*	80	57	23
<u>L 02625</u>	L		LE	3	4	2	34	19S	38E	675346	3610435*	60	40	20
<u>L 02829</u>	L		LE	2	1	1	34	19S	38E	674334	3611017*	68	35	33
<u>L 03955</u>	L		LE	2	2	2	34	19S	38E	675540	3611037*	100	58	42
<u>L 04532</u> A	L		LE	3	2	1	35	19S	38E	676145	3610851*	12		
<u>L 06985</u>	L		LE	2	1	1	35	19S	38E	675942	3611044*	98	66	32
<u>L 12343</u> POD1	L		LE	4	1	1	34	19S	38E	674434	3610730	66	42	24
<u>L 12419</u> POD1	L		LE	1	1	1	35	19S	38E	675678	3611134	136		
<u>L 12543</u> POD1	L		LE	2	1	3	35	19S	38E	676021	3610151	110		

Average Depth to Water: **48 feet**  
Minimum Depth: **35 feet**  
Maximum Depth: **66 feet**

**Record Count: 15**

**PLSS Search:**

**Section(s): 34, 35, 36**

**Township: 19S**

**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, 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

**HOBBS OCD** State of New Mexico  
Energy Minerals and Natural Resources  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

**HOBBS OCD**

Form C-141  
Revised October 10, 2003

NOV 09 2012

NOV 09

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

RECEIVED

RECEIVED

### Release Notification and Corrective Action

#### OPERATOR

Initial Report  Final Report

Name of Company	Apache Corp.	Contact	Natalie Gladden
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
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#### LOCATION 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 \_\_\_\_\_

#### NATURE OF RELEASE

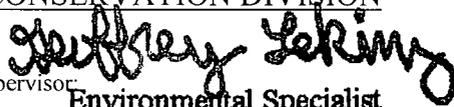
Type of Release	Oil/Produced Water	Volume of Release	12 bbl	Volume Recovered	10 bbl
Source of Release	Fire Tube	Date and Hour of Occurrence	12/06/11	Date and Hour of Discovery	12/06/11
Was Immediate Notice Given?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?			
By Whom?		Date and Hour			
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	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 treater pressured up resulting in a failure of the fire tube gasket. Spray area was back-dragged immediately. Most of the fluid remained inside the bermed area, but did spray the pasture area.

Describe Area Affected and Cleanup Action Taken.\*  
The leak affected the bermed containment and an area to the south of the berm, including overspray into pasture land. Impacted soils were removed to a NMOCD approved disposal facility. Representative soil samples were collected from the excavations and sent to a commercial laboratory for chloride and TPH confirmation. The excavations were backfilled with clean soils and leveled.

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.

Signature: 	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Natalie Gladden	 Approved by District Supervisor: <b>Environmental Specialist</b>	
Title: EH&S Environmental Tech	Approval Date: 11/09/12	Expiration Date: -
E-mail Address: Natalie.gladden@apachecorp.com	Conditions of Approval: -	Attached <input type="checkbox"/>
Date: 11/9/12 Phone: (575) 390-4186	WRP-06-14-3091	

\* Attach Additional Sheets If Necessary