

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

HOBBS OCD

DEC 16 2011

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	NMGSAU 206	Facility Type	Producer

Surface Owner	Cooper	Mineral Owner	State	Lease No.	30-025-05627
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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
F	18	19S	37E	1980	FNL	1980	FWL	Lea

Latitude \_\_\_\_\_ Longitude \_\_\_\_\_

NATURE OF RELEASE

Type of Release	Produced Water	Volume of Release	unknown	Volume Recovered	0
Source of Release	Buried fiberglass line leaked	Date and Hour of Occurrence	06/22/11	Date and Hour of Discovery	06/22/11
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.\*

Describe Cause of Problem and Remedial Action Taken.\*

A buried fiberglass line leaked an unknown volume. It was found once it surfaced. Line was repaired.

Describe Area Affected and Cleanup Action Taken.\*

The leak affected the caliche area around the buried line junction south of the wellhead. Representative soil samples were sent to a commercial laboratory for chloride and TPH analysis, and the impacted area was excavated to 16 ft bgs. A soil bore was drilled to determine depth to groundwater which was detected at 56 ft bgs. The impacted soils totaling 1,416 cubic yards were removed to a NMOCD approved disposal facility. The excavation was backfilled with clean blended soil 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.

Signature: <i>Natalie Gladden</i>	OIL CONSERVATION DIVISION <i>Jeffrey J. King</i> Approved by District Superintendent Environmental Specialist	
Printed Name: Natalie Gladden	Approval Date: 12/16/11	Expiration Date: -
Title: EH&S Environmental Tech	Conditions of Approval: -	Attached <input type="checkbox"/>
E-mail Address: Natalie.gladden@apachecorp.com	Date: 12-16-11	Phone: (575) 390-4186
		IRP-06-14-3080

\* Attach Additional Sheets If Necessary

JUN 17 2014

NSAD1416441595



EXPLORING WHAT'S POSSIBLE

HOBBS OCD

DEC 16 2011

RECEIVED

# APACHE CORPORATION

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

## NMGSAU #206

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# Closure Report

API 30-025-05627

Release Date: June 22, 2011

Unit Letter F, Section 18, Township 19S, Range 37E

# Rice Environmental Consulting & Safety

P.O. Box 5630 Hobbs, NM 88241

Phone 575.393.4411 Fax 575.393.0293

**September 27, 2011**

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 – NMGSAU #206 AD  
UL/F sec. 18 T19S R37E**

Mr. Leking:

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

## **Background and Previous Work**

The site is an accidental discharge of fluids associated with the NMGSAU #206 well when a buried, produced water fiberglass line ruptured. The line was repaired, and an initial form C-141 was submitted by Apache Corporation on June 22, 2011 (Appendix A). The site is located southwest of the intersection of U.S. Highway 62/180 and NM State Highway 8 north of Monument, NM in unit letter 'F' of section 18, T19S, R37E in Lea County, New Mexico.

On June 27, 2011, RECS personnel initiated work on the NMGSAU #206. Soil samples were collected from the site as excavation of the leak proceeded and tested for chloride. Headspace measurements were also taken in the field using a Photo Ionization Detector (PID). The impacted area was excavated to a depth of 16 ft below ground surface (bgs) and covered a lateral area of 2,270 ft<sup>2</sup> (Figure). Representative composite samples were collected from each of the excavation walls and the excavation floor, and were submitted to a commercial laboratory for analysis of chloride and TPH (GRO/DRO). Chloride in the wall composite samples did not exceed 64 ppm (parts per million or mg/kg), and the excavation floor contained 48 ppm. TPH was non-detect in all samples (Appendix D).

On June 29, 2011, a 65 ft. soil bore was drilled southwest of the well location (Figure) to determine depth of groundwater at the site. RECS personnel used a Heron Water Level Meter to verify any accumulation of groundwater. Water was detected within the borehole at the total depth of 56 ft. bgs. On July 1, 2011, RECS personnel plugged the borehole to ground surface with bentonite (Appendix B).

A total of 1,416 cubic yards of impacted soil was removed from the excavation and transported to a NMOCD approved facility for disposal. The excavation was backfilled with clean imported

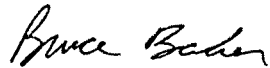
caliche totaling 1,572 cubic yards and contoured to the surrounding area. See Appendix C for photographs of field activities.

### **Conclusion**

Due to the complete removal of impacted soils, 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:

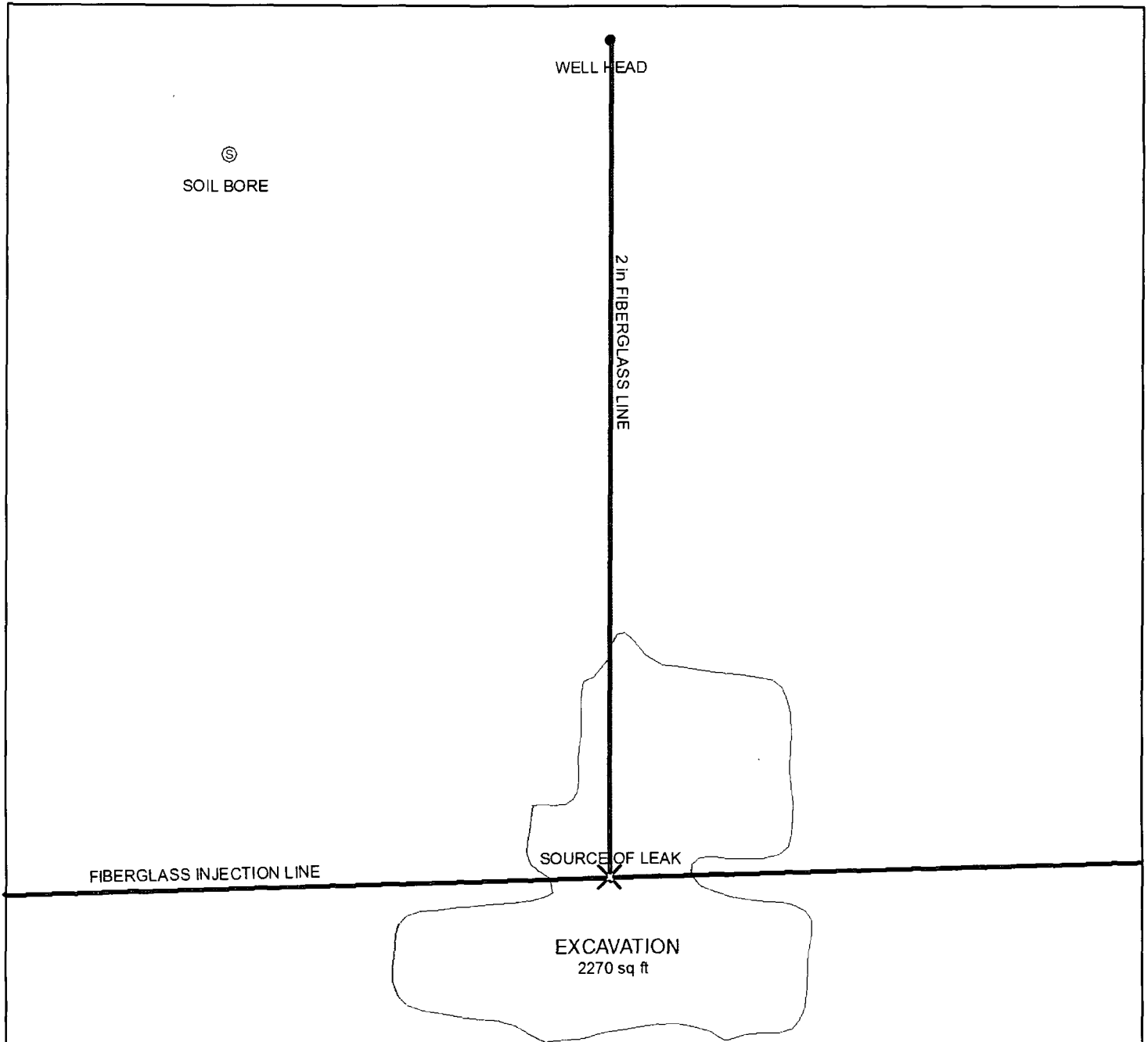
- Figure: Site Plat
- Appendix A: Initial Form C-141
- Appendix B: Soil Bore Log, Letter of Groundwater Verification, and Plugging Report
- Appendix C: Site Photographs
- Appendix D: Laboratory Results
- Appendix E: Final Form C-141



Figure

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

# Site Plat



## Lab Data

	CI-	GRO	DRO
West wall composite	48	<10	<10
North wall composite	48	<10	<10
South wall composite	64	<10	<10
East wall composite	32	<10	<10
5 pt bottom composite	48	<10	<10




## APACHE NMGSAU 206 AD

LEGALS: UL F SEC 18  
T-19-S R-37-E

## FIGURE



0 5 10 20  
 Feet

GPS date: 7/1/11 DAK HARRIS  
Drawing date: 7/1/11  
Drafted by: L. Weinheimer

# Appendix A

Initial Form C-141

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

District I  
1625 N. French Dr., Hobbs, NM 88240  
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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 88240	Telephone No. 575-390-4186	
Facility Name NMGSAU 206	Facility Type Producer	
Surface Owner Cooper	Mineral Owner State	API No. 30-025-05627

**LOCATION OF RELEASE**

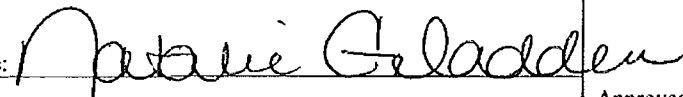
Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
F	18	19S	37E	1980	FNL	1980	FWL	Lea

Latitude \_\_\_\_\_ Longitude \_\_\_\_\_

**NATURE OF RELEASE**

Type of Release Produced Water	Volume of Release unknown	Volume Recovered 0
Source of Release Buried fiberglass line leaked	Date and Hour of Occurrence 06/22/11	Date and Hour of Discovery 06/22/11
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.*		
Describe Cause of Problem and Remedial Action Taken.* A buried fiberglass line leaked an unknown volume. It was found once it surfaced. Line was repaired.		
Describe Area Affected and Cleanup Action Taken.* We drilled to find that ground water was at 35' bgs. Therefore all of the contamination was excavated.		

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: 04/11/11 Phone: 575-390-4186		

\* Attach Additional Sheets If Necessary

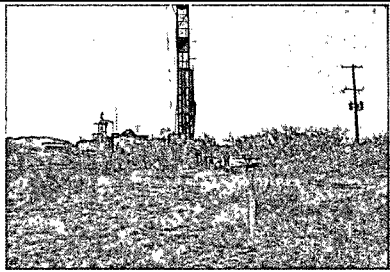



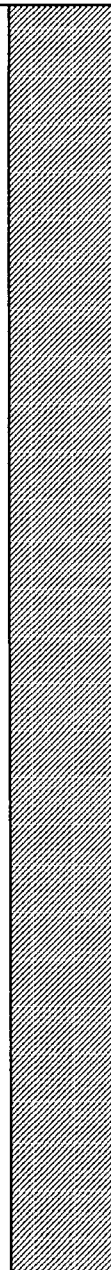
# Appendix B

Soil Bore Log, Letter of Groundwater Verification,  
and Plugging Report

**RICE Environmental Consulting and Safety (RECS)**

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

<b>Logger:</b>	Bruce Baker			
<b>Driller:</b>	Harrison & Cooper, Inc.			
<b>Drilling Method:</b>	Air rotary		<b>Company:</b> Apache Corporation	
<b>Start Date:</b>	6/29/2011		<b>Project Name:</b> NMGSAU #206 AD	<b>Well ID:</b> SB-1
<b>End Date:</b>	6/29/2011	<b>Project Consultant:</b> RECS	<b>Location:</b> UL/F sec. 18 T19S R37E	
<b>Comments:</b> No sampling occurred on this well. Well was drilled to determine depth to groundwater. Field samples were not taken for analysis. DRAFTED BY: L. Weinheimer TD = 65 ft      GW = 56 ft			<b>Lat:</b> 32°39'43.562"N <b>County:</b> Lea <b>Long:</b> 103°17'35.063"W <b>State:</b> NM	

Depth (feet)	chloride field tests	LAB	PID	Description		Lithology		Well Construction	
				CALICHE					<div>Bentonite seal</div>
5 ft									
10 ft									
15 ft									
				FINE CALICHE					
20 ft									
				SANDSTONE					
25 ft									
				SAND					
30 ft									
35 ft									
				SAND, SANDSTONE					
40 ft									
				SANDSTONE					
45 ft									

Depth (feet)	chloride field tests	LAB	PID	Description		Lithology		Well Construction		
				WET SAND						
50 ft										
55 ft										
60 ft										
65 ft										

# Rice Environmental Consulting & Safety

P.O. Box 5630 Hobbs, NM 88241

Phone 575.393.4411 Fax 575.393.0293

July 8<sup>th</sup>, 2011

Natalie Gladden

Apache Corp.

P.O. Box 1849

Eunice, New Mexico 88231

**Re: Apache NMGSAU #206 AD**

Ms. Gladden,

On June 29<sup>th</sup>, 2011, RECS personnel drilled an observational well at the Apache NMGSAU #206 AD to a depth of 65 ft. On the same day, I supervised RECS personnel checking for water accumulation within the borehole using a Heron depth to water meter. The meter indicated water had accumulated within the borehole at the total depth of 56 ft.

Sincerely,



Bruce Baker

Head Foreman

Rice Environmental Consulting & Safety



## Monitor Well Plugging Report

P.O. Box 5630  
Hobbs, NM 88241  
Phone: 575-393-4411

Client	Apache Corp.
Contractor	RECS
Date Completed	7/1/2011
Site	NMGSAU #206 AD
County	Lea
Legal Description	UL/F sec. 18 T19S R37E
Well ID	SB-1 (check for groundwater)
Casing Diameter	N/A
Well Depth	65'
Casing Material	N/A
Plugging Material	Bentonite

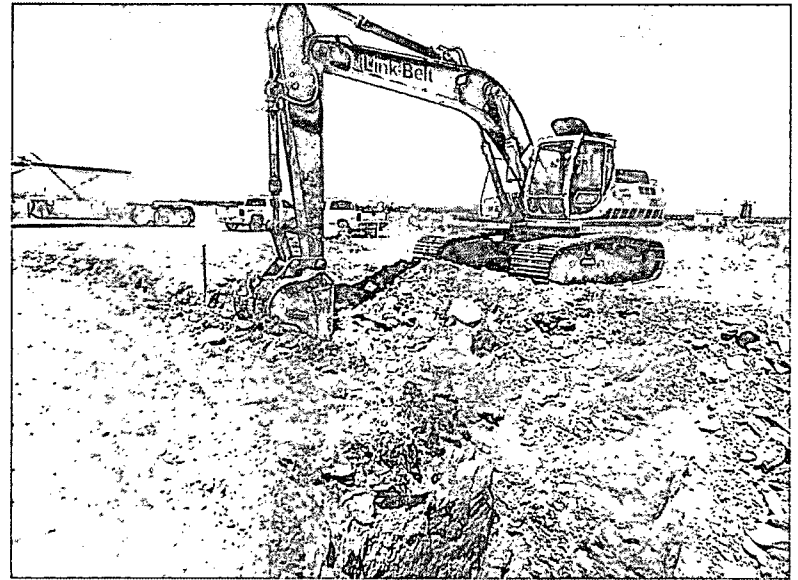
# Appendix C

## Site Photographs

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

## NMGSAU #206

Unit Letter F, Section 18, T19S, R37E



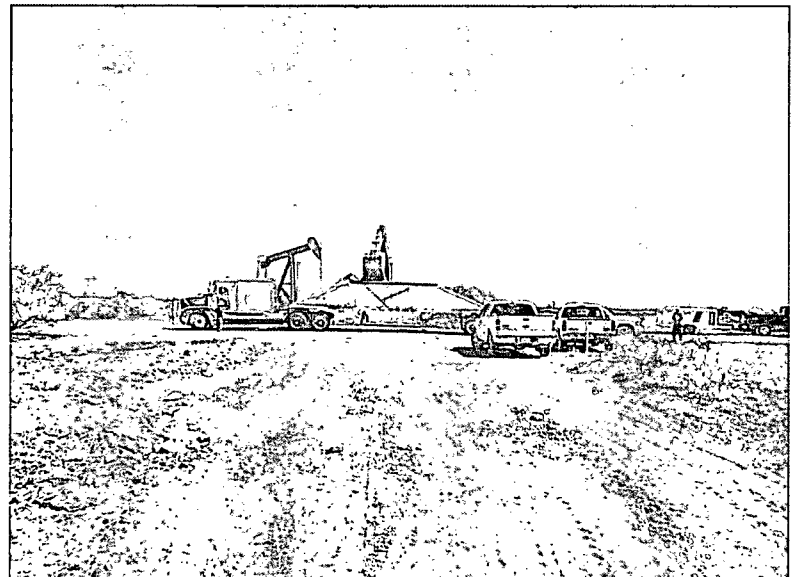
Excavating leak, facing north

6/28/2011



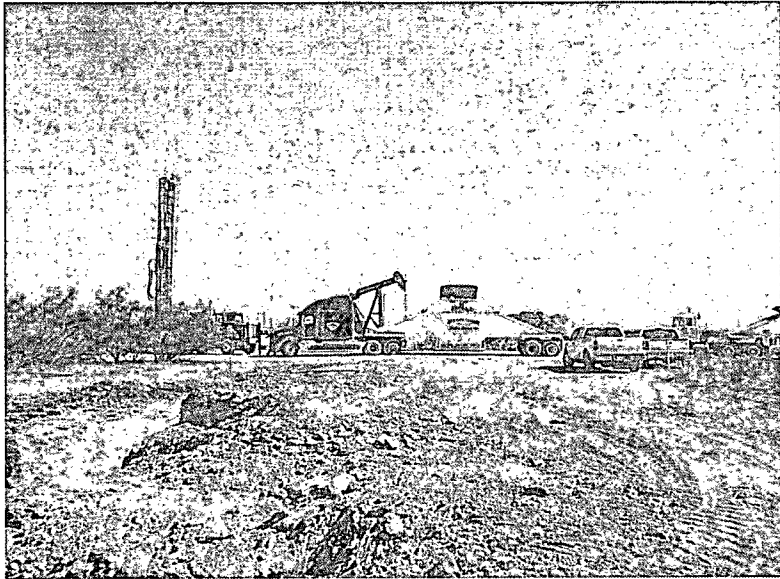
Excavating leak, facing east

6/30/2011



Removing spoil pile, facing north

6/29/2011



Drilling soil bore, facing northwest

6/29/2011



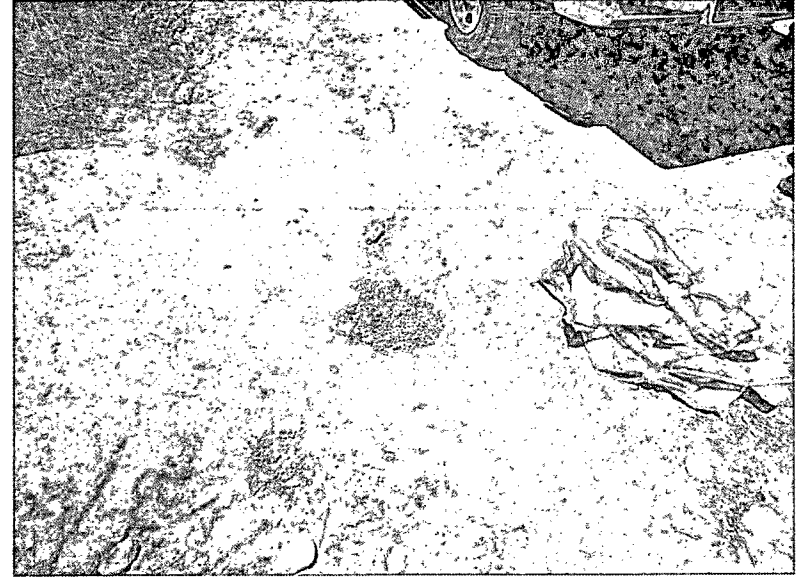
Checking for water,

6/29/2011



Plugging soil bore, facing north

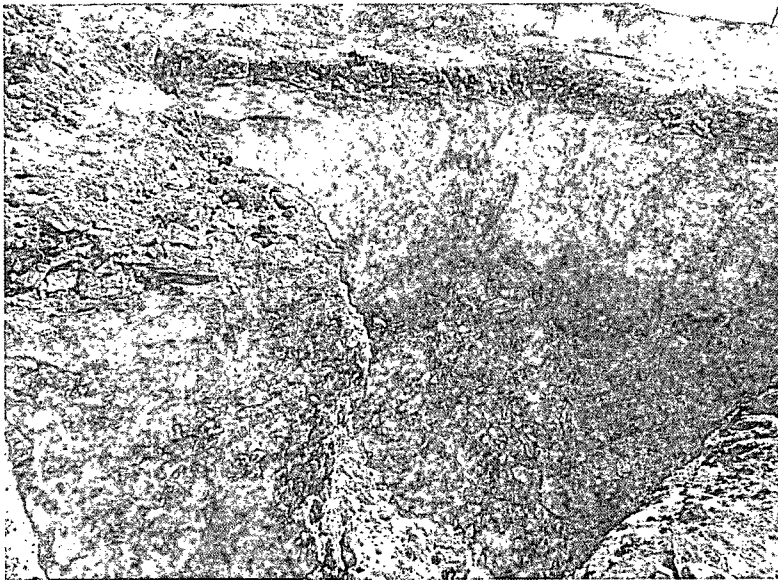
6/30/2011



Soil bore plugged, facing north

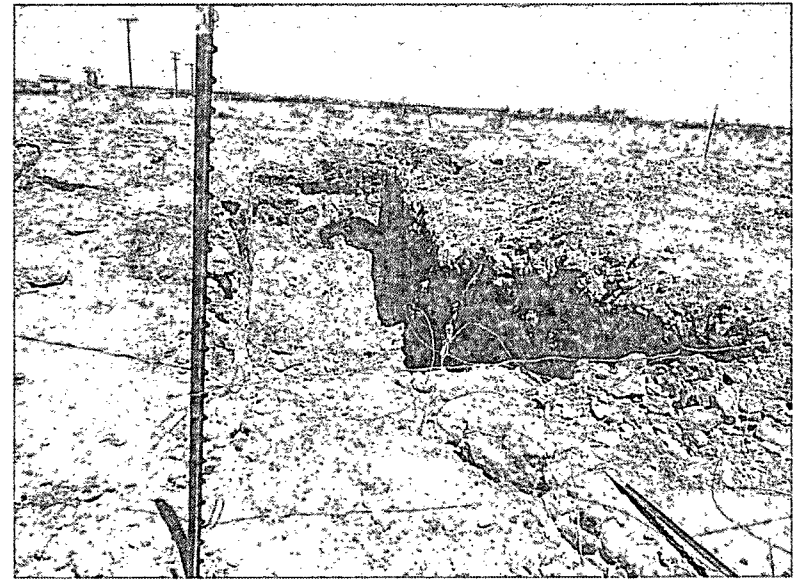
6/30/2011





Final excavation, facing northwest

7/1/2011



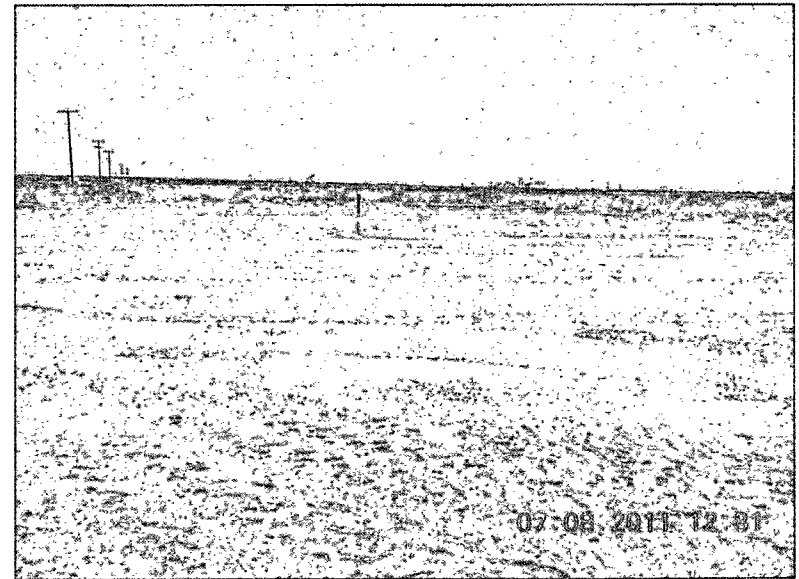
Final excavation, facing west

7/1/2011



Final excavation, facing northwest

7/1/2011



Site backfilled, facing south

7/8/2011

# Appendix D

## 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: 07/01/2011  
Reported: 07/06/2011  
Project Name: NMGSAU #206  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 06/30/2011  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Jodi Henson

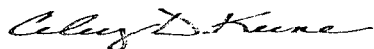
**Sample ID: 8 PT COMP BLENDED BKFILL (H101366-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/05/2011	ND	416	104	400	3.77	

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240  
(505) 393-2326 FAX (505) 393-2476

Company Name: <u>APAC Corp.</u>		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>																				
Project Manager: <u>NATHIE GLADEN</u>		P.O. #:																						
Address:		Company:																						
City: State: <u>NM</u> Zip:		Attn:																						
Phone #: Fax #:		Address:																						
Project #: Project Owner:		City:																						
Project Name: <u>UNESA # 906</u>		State: Zip:																						
Project Location:		Phone #:																						
Sampler Name: <u>DAVE HARRIS</u>		Fax #:																						
FOR LAB USE ONLY																								
Lab I.D.	Sample I.D.	(C)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.	SAMPLING		CL												
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL											OTHER	DATE	TIME
<u>H101366</u>	<u>APT. COMP Bleached Rock Fill</u>	<u>C</u>	<u>1</u>			<u>✓</u>																	<u>6/30/11</u>	<u>11:00</u>

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 the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be 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 services hereunder by Cardinal, regardless of whether such claims are based upon any of the above stated reasons or otherwise.

Relinquished By: <u>[Signature]</u>	Date: <u>7-1-11</u> Time: <u>3:15pm</u>	Received By: <u>Bruce Baker</u>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By: <u>Bruce Baker</u>	Date: <u>7-1-11</u> Time: <u>3:24pm</u>	Received By: <u>[Signature]</u>	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - <u>Other</u>		Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: <u>[Signature]</u> (Initials)	
REMARKS: <u>H Center</u> <u>W Weinheimer</u> <u>B Baker</u> <u>NATHIE GLADEN APT</u>				

**Analytical Results For:**

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

 Received: 07/01/2011  
 Reported: 07/06/2011  
 Project Name: NMGSAU #206 A.D.  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 06/30/2011  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: W WALL COMP (H101367-01)**

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>48.0</b>	16.0	07/05/2011	ND	416	104	400	3.77		
TPH 8015M			mg/kg							Analyzed By: ab
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	07/05/2011	ND	172	85.8	200	3.10		
DRO >C10-C28	<10.0	10.0	07/05/2011	ND	154	76.9	200	3.30		
<i>Surrogate: 1-Chlorooctane</i>			85.8 %	70-130						
<i>Surrogate: 1-Chlorooctadecane</i>			98.0 %	70-130						

**Sample ID: N WALL COMP (H101367-02)**

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>48.0</b>	16.0	07/05/2011	ND	432	108	400	3.77		
TPH 8015M			mg/kg							Analyzed By: ab
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	07/05/2011	ND	172	85.8	200	3.10		
DRO >C10-C28	<10.0	10.0	07/05/2011	ND	154	76.9	200	3.30		
<i>Surrogate: 1-Chlorooctane</i>			81.0 %	70-130						
<i>Surrogate: 1-Chlorooctadecane</i>			88.4 %	70-130						

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: 07/01/2011  
 Reported: 07/06/2011  
 Project Name: NMGS AU #206 A.D.  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 06/30/2011  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: S WALL COMP (H101367-03)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/05/2011	ND	432	108	400	3.77	
TPH 8015M		mg/kg		Analyzed By: ab					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/06/2011	ND	172	85.8	200	3.10	
DRO >C10-C28	<10.0	10.0	07/06/2011	ND	154	76.9	200	3.30	
Surrogate: 1-Chlorooctane		95.2 %	70-130						
Surrogate: 1-Chlorooctadecane		110 %	70-130						

**Sample ID: E WALL COMP (H101367-04)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/05/2011	ND	432	108	400	3.77	
TPH 8015M		mg/kg		Analyzed By: ab					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/06/2011	ND	172	85.8	200	3.10	
DRO >C10-C28	<10.0	10.0	07/06/2011	ND	154	76.9	200	3.30	
Surrogate: 1-Chlorooctane		93.1 %	70-130						
Surrogate: 1-Chlorooctadecane		111 %	70-130						

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.



Celest D. Keene, Lab Director/Quality Manager

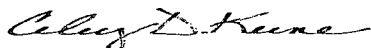
**Analytical Results For:**APACHE - EUNICE  
NATALIE GLADDEN  
P. O. BOX 1849  
EUNICE NM, 88231  
Fax To: 394-2425Received: 07/01/2011  
Reported: 07/06/2011  
Project Name: NMGSAU #206 A.D.  
Project Number: NONE GIVEN  
Project Location: NOT GIVENSampling Date: 07/01/2011  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson**Sample ID: 5 PT BTM COMP (H101367-05)**

Chloride, SM4500Cl-B			mg/kg		Analyzed By: HM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/05/2011	ND	432	108	400	3.77	
TPH 8015M			mg/kg		Analyzed By: ab				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/06/2011	ND	172	85.8	200	3.10	
DRO >C10-C28	<10.0	10.0	07/06/2011	ND	154	76.9	200	3.30	
Surrogate: 1-Chlorooctane	91.4 %	70-130							
Surrogate: 1-Chlorooctadecane	107 %	70-130							

Cardinal Laboratories

\*=Accredited Analyte

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Caley D. Keene, Lab Director/Quality Manager



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240  
(505) 393-2326 FAX (505) 393-2476

Company Name: <b>ADCO CORP</b>				<b>BILL TO</b>				ANALYSIS REQUEST											
Project Manager: <b>NATHAN GLADEN</b>				P.O. #:															
Address:				Company:															
City: State: Zip:				Attn:															
Phone #: Fax #:				Address:															
Project #: Project Owner:				City:															
Project Name: <b>AMC-20V #506 A.D.</b>				State: Zip:															
Project Location:				Phone #:															
Sampler Name: <b>Dick Harris</b>				Fax #:															
FOR LAB USE ONLY				PRESERV				SAMPLING											
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME						
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:										
H1013101																			
1	West Wall Composite	C				✓				✓		6/24/11	2:46	✓					
2	North Wall Composite	C				✓				✓		6/24/11	2:25	✓					
3	South Wall Composite	C				✓				✓		6/24/11	2:55	✓					
4	East Wall Composite	C				✓				✓		6/24/11	3:00	✓					
5	Spill Basin Composite	C				✓				✓		6/24/11	10:05	✓					

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 the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: <i>[Signature]</i>		Date: <i>7-1-11</i>	Received By: <i>Bruce Baker</i>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No [Add'l Phone #:
		Time: <i>3:18pm</i>			Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No [Add'l Fax #:
Relinquished By: <i>Bruce Baker</i>		Date: <i>7-1-11</i>	Received By: <i>Jodi Benson</i>		REMARKS: <i>H. Conder L. Weinberger</i>
		Time: <i>3:26pm</i>			<i>B. Baker</i>
Delivered By: (Circle One) Sampler - UPS - Bus <input checked="" type="radio"/> Other: <input type="radio"/>			Sample Condition Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/> <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) <i>[Signature]</i>	<i>Z. Conder</i> <i>NAMING/ADDRESS APPLIC CORP.</i>



# Appendix E

Final Form C-141

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

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

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

HOBBS OCD

DEC 16 2011

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	NMGSAU 206	Facility Type	Producer
Surface Owner	Cooper	Mineral Owner	State
		Lease No.	30-025-05627

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
F	18	19S	37E	1980	FNL	1980	FWL	Lea

Latitude \_\_\_\_\_ Longitude \_\_\_\_\_

NATURE OF RELEASE

Type of Release	Produced Water	Volume of Release	unknown	Volume Recovered	0
Source of Release	Buried fiberglass line leaked	Date and Hour of Occurrence	06/22/11	Date and Hour of Discovery	06/22/11
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 = 56' PER THIS INVESTIGATION


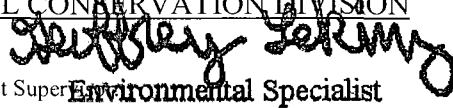

Describe Cause of Problem and Remedial Action Taken.\*

A buried fiberglass line leaked an unknown volume. It was found once it surfaced. Line was repaired.

Describe Area Affected and Cleanup Action Taken.\*

The leak affected the caliche area around the buried line junction south of the wellhead. Representative soil samples were sent to a commercial laboratory for chloride and TPH analysis, and the impacted area was excavated to 16 ft bgs. A soil bore was drilled to determine depth to groundwater which was detected at 56 ft bgs. The impacted soils totaling 1,416 cubic yards were removed to a NMOCD approved disposal facility. The excavation was backfilled with clean blended soil 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.

Signature: 	OIL CONSERVATION DIVISION  Approved by District Superintendent Environmental Specialist	
Printed Name: Natalie Gladden	Approval Date: 12/16/11	Expiration Date: -
Title: EH&S Environmental Tech	Conditions of Approval: -	Attached <input type="checkbox"/>
E-mail Address: Natalie.gladden@apachecorp.com	IRP-06-14-3080	
Date: 12-16-11  Phone: (575) 390-4186		

\* Attach Additional Sheets If Necessary