

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  
S. St. Francis Dr., Santa Fe, NM 87505

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

Form C-141  
Revised October 10, 2003

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

AUG 09 2012

RECEIVED

**Release Notification and Corrective Action**

**OPERATOR**

Initial Report  Final Report

Name of Company Apache Corporation	Contact Natalie Gladden
Address P.O. Box 1849 Eunice, NM 88231	Telephone No. 575-390-4186
Facility Name EBDU #106	Facility Type Production Well
Surface Owner McNeil Ranch	Mineral Owner State of NM
Lease No. 30-025-39391	

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
O	1	21S	37E	50'	FSL	1650'	FEL	Lea

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

**NATURE OF RELEASE**

Type of Release Oil/produced water	Volume of Release 30bbls	Volume Recovered 25bbls
Source of Release Workover procedure	Date and Hour of Occurrence 03/15/2010 ?	Date and Hour of Discovery 03/15/2010 9am
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Larry Johnson	
By Whom? Natalie Gladden	Date and Hour 03/15/2010 1025am	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

\* a Watercourse was Impacted, Describe Fully.\*

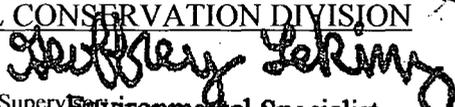
Describe Cause of Problem and Remedial Action Taken.\*

During workover procedure the well stated flowing back releasing approx 30bbls of fluid, recovering 25bbls. A vacuum truck was dispatched out to recovery fluid and once the rig was finished and moved off of location remediation begun.

Describe Area Affected and Cleanup Action Taken.\*

All of the contamination has been excavated and hauled to Sundance Disposal. Location was remediated to meet the NMOCD Guidelines to closure.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: 	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Natalie Gladden	 Approved by District Supervisor Environmental Specialist	
Title: EH&S Environmental Tech	Approval Date: 08/09/12	Expiration Date: -
E-mail Address: natalie.gladden@apachecorp.com	Conditions of Approval: -	Attached <input type="checkbox"/>
Date: 07/24/12 Phone: 575-390-4186		IRP-10-4-2493

\* Attach Additional Sheets If Necessary

JUN 23 2014

HOBBS OCD

AUG 09 2012

RECEIVED

*Apache*

EBDU #106

Lea County

Unit O, 1, 21S, 37E

50' FSL and 1650' FEL

API #30-025-39391

Release Date: 03/15/10

Prepared by: Natalie Gladden

Apache Corporation

HOBBS OCD

AUG 09 2012

RECEIVED

Dear Geoffrey,

Attached you will find a copy of the original C141, Final C141, a diagram of the contamination area along with sample points with sample results and final analyticals taken from this site.

With this information that is provided, Apache Corporation respectfully requests your review and approval of the Closure Document for the produced water release that occurred at the Apache EBDU #106.

If you have any questions or concerns, please feel free to contact me at any time.

Sincerely,

A handwritten signature in black ink, appearing to read "Natalie Gladden". The signature is fluid and cursive, with the first name being more prominent.

Natalie Gladden

EH&S Environmental Tech

Permian New Mexico District

The purpose of this report is to document the cleanup activities and present supporting analytical data to the NMOCD, requesting closure of the referenced hydrocarbon and produced water release incident in accordance with the Guidelines for Remediation of Leaks, Spills and Releases.

On March 15<sup>th</sup> 2010, during a work-over procedure the well started flowing back releasing approximately 30bbls of total fluid, recovering 25bbls. A vacuum truck was dispatched to recover standing fluid, once the rig moved off location the remediation began.

The contaminated soil was excavated, 264 cubic yards of contaminated soil was excavated and hauled to Sundance Services. Final samples were taken from the bottom of the excavation as well as the sidewalls. At this particular location, the release was around the wellhead and the base of the pump jack. Due to the safety risk we were unable to remediate this location to 250-ppm chlorides. Please review the drawing of the release area for details. Approximately 290 cubic yards of caliche was taken from Apache's Grizzell Pit for backfill.

Based on the analytical results of the confirmation soil samples collected from the excavation. Consequently, no further action is recommended or planned at this site until the well is plugged and the site is abandoned. On behalf of Apache Corporation we respectfully request that the NMOCD grant closure for the EBDU #106.

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  
3. 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 October 10, 2003

**SENT**  
APR 14 2010  
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 Corporation	Contact Natalie Gladden
Address P.O. Box 1849 Eunice, NM 88231	Telephone No. 575-390-4186
Facility Name EBDU #106	Facility Type Production Well
Surface Owner McNeil Ranch	Mineral Owner State of NM
Lease No. 30-025-39391	

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
O	1	21S	37E	50'	FSL	1650'	FEL	Lea

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

**NATURE OF RELEASE**

Type of Release Oil/produced water	Volume of Release 30bbbls	Volume Recovered 25bbbls
Source of Release Workover procedure	Date and Hour of Occurrence 03/15/2010 ?	Date and Hour of Discovery 03/15/2010 9am
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Larry Johnson	
By Whom? Natalie Gladden	Date and Hour 03/15/2010 1025am	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

Watercourse was Impacted, Describe Fully.\*

**Describe Cause of Problem and Remedial Action Taken.\***

During workover procedure the well stated flowing back releasing approx 30bbbls of fluid, recovering 25bbbls. A vacuum truck was dispatched out to recovery fluid and once the rig was finished and moved off of location remediation begun.

**Describe Area Affected and Cleanup Action Taken.\***

All of the contamination will be excavated and hauled to Sundance Disposal. Location will be remediated to meet the NMOCD Guidelines to closure.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: 	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Natalie Gladden	Approved by District Supervisor:	
Title: EH&S Environmental Tech	Approval Date:	Expiration Date:
E-mail Address: <a href="mailto:natalie.gladden@apachecorp.com">natalie.gladden@apachecorp.com</a>	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 03/28/2010 Phone: 575-390-4186		

\* Attach Additional Sheets If Necessary

**Analytical Results For:**

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

Received: 07/30/2010  
 Reported: 08/09/2010  
 Project Name: EBDU #106  
 Project Number: NOT GIVEN  
 Project Location: EBDU #106

Sampling Date: 07/28/2010  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Jodi Henson

**Sample ID: SP1 (H020496-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	08/04/2010	ND	432	108	400	3.64		

**Sample ID: SP2 (H020496-02)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
hloride	272	16.0	08/04/2010	ND	432	108	400	3.64		

**Sample ID: SP3 (H020496-03)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	08/04/2010	ND	432	108	400	3.64		

**Sample ID: SP4 (H020496-04)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	592	16.0	08/04/2010	ND	432	108	400	3.64		

**Sample ID: SP5 (H020496-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	736	16.0	08/04/2010	ND	432	108	400	3.64		

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

### Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

---

Cardinal Laboratories

\*=Accredited Analyte

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



# CARDINAL LABORATORIES

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Apache</u>		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>											
Project Manager: <u>Kristine Gladden</u>		P.O. #:													
Address:		Company:													
City:	State:	Zip:	Attn:												
Phone #:	Fax #:	Address:													
Project #:	Project Owner:		City:												
Project Name:		State:	Zip:												
Project Location: <u>EBW #100</u>		Phone #:													
Sampler Name:		Fax #:													

FOR LAB USE ONLY		(GRAB OR C/COMP.)	# CONTAINERS	MATRIX						PRESERV.		SAMPLING		DATE	TIME	LFC
Lab I.D.	Sample I.D.			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :				
<u>1204961</u>	<u>SP1</u>												<u>7-29</u>	<u>5:00</u>		
<u>2</u>	<u>2</u>															
<u>3</u>	<u>3</u>															
<u>4</u>	<u>4</u>															
<u>5</u>	<u>5</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 claim is based upon any of the above stated reasons or otherwise.

Relinquished By: <u>Kristine Gladden</u>	Date: <u>7-30</u>	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Time: <u>5:00</u>	Date:	Received By: <u>Jodi Henson</u>	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Time:	REMARKS: <u>Email</u>	
Delivered By: (Circle One)	Sample Condition	CHECKED BY: <u>JH</u>		
Sampler - UPS - Bus - Other:	Cool <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

#26





August 09, 2010

NATALIE GLADDEN  
APACHE - EUNICE  
P. O. BOX 1849  
EUNICE, NM 88231

RE: EBDU #106

Enclosed are the results of analyses for samples received by the laboratory on 07/30/10 17:00.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

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

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

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V2, V3)

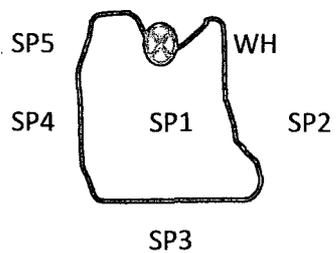
Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene  
Lab Director/Quality Manager

EBDU #106  
3/15/2010



Sample ID	Chl
SP1	272-ppm
SP2	272-ppm
SP3	288-ppm
SP4	592-ppm
SP5	736-ppm