

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  
1000 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

HOBBS OCD

Form C-141  
Revised October 10, 2003

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

AUG 09 2012

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 Sat #5 (EBDU#60 nearest well)	Facility Type Production Facility

Surface Owner Lucille Bryant	Mineral Owner BLM	Lease No. 30-025-38113
------------------------------	-------------------	------------------------

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
B	14	21S	37E	1270	FNL	2310	FEL	Lea

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

NATURE OF RELEASE

Type of Release Hydrocarbon/Produced Water	Volume of Release 80	Volume Recovered 70
Source of Release Gasket on Firetube	11/29/09 730am	11/29/09 730am
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 11/30/09 715am	
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=25

Describe Cause of Problem and Remedial Action Taken.\*

Gasket on firetube broke releasing a mixture of hydrocarbon and produced water. Contamination spread out inside the containment walls, west of battery and sprayed a large area southwest of battery. 70bbls of total fluid was recovered.

Describe Area Affected and Cleanup Action Taken.\*

Landowner requested that the pasture area be scrapped up and replaced with fresh topsoil. A local gang excavated the contaminated soil from inside the containment walls, and remainder of location was remediated to meet 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: 	OIL CONSERVATION DIVISION Environmental Specialist	
Printed Name: Natalie Gladden	Approved by District S	
Title: EH&S Environmental Tech	Approval Date: 8/9/12	Expiration Date: -
E-mail Address: natalie.gladden@apachecorp.com	Conditions of Approval: -	Attached <input type="checkbox"/>
Date: 07/25/12 Phone: 575-390-4186	IRP-6-14-3102	

Attach Additional Sheets If Necessary



HOBBS OCD

AUG 09 2012

RECEIVED

EBDU Sat #5  
(Nearest well, EBDU #60)

Lea County

Unit B, 14, 21S, 37E

1270' FNL and 2310' FEL

API # (EBDU #60) 30-025-38113

Release Date 11/29/09

Prepared by: Natalie Gladden

Apache Corporation

HOBBS OCD

AUG 09 2012

Dear Geoffrey,

RECEIVED

Attached you will find a copy of the original C141, Final C141, a diagram of the contaminated 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 Sat #5.

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

Sincerely,

A handwritten signature in dark ink, appearing to read "Natalie Gladden". The signature is fluid and cursive, with the first name "Natalie" written in a larger, more prominent script than the last name "Gladden".

Natalie Gladden

EH&S Environmental Tech

Permian New Mexico District



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

On November 29<sup>th</sup> 2009, the gasket on the fire-tube broke releasing a mixture of hydrocarbon and produced water. The contamination had spread out inside the containment walls, west of the battery and sprayed a large area southwest of the battery. 80bbls of fluid was released and 70bbls was recovered.

The contaminated soil was excavated from inside the facilities containment walls and replaced with clean soil; the west side of the containment walls was excavated and replaced with clean soil and the pasture area where the misting occurred was washed down with dawn soap and water, plus the area was back-dragged. 636 cubic yards of contaminated soil was excavated and hauled to Sundance Services. A total of 936 cubic yards of clean soil was purchased from a local landowner for backfill.

Based on the analytical results of the confirmation soil samples collected from the excavation and which confirmed that the soil inside the battery was over the Standard of 250-ppm chlorides. Otherwise the Standards were met.

Consequently, no further action is needed inside the containment walls as to when the facility is abandoned the site will be remediated to Standard, the areas outside the containment walls was remediated to the State Standards. On behalf of Apache Corporation we respectfully request that the NMOCD/BLM grant closure for the EBDU Sat #5.

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  
1000 S. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

SENT

Form C-141  
Revised October 10, 2003

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

DEC 02 2009

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 Sat #5 (EBDU#60 nearest well)	Facility Type Production Facility

Surface Owner Lucille Bryant	Mineral Owner BLM	Lease No. 30-025-38113
------------------------------	-------------------	------------------------

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
B	14	21S	37E	1270	FNL	2310	FEL	Lea

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

**NATURE OF RELEASE**

Type of Release Hydrocarbon/Produced Water	Volume of Release 80	Volume Recovered 70
Source of Release Gasket on Firetube	11/29/09 730am	11/29/09 730am
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 11/30/09 715am	
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.\*

Gasket on firetube broke releasing a mixture of hydrocarbon and produced water. Contamination spread out inside the containment walls, west of battery and sprayed a large area southwest of battery. 70bbls of total fluid was recovered.

Describe Area Affected and Cleanup Action Taken.\*

Landowner requested that the pasture area be scrapped up and replaced with fresh topsoil. A local gang will excavate the contaminated soil from inside the containment walls, and remainder of location will be remediated to meet 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: natalie.gladden@apachecorp.com		Conditions of Approval:	Attached <input type="checkbox"/>
Date: 12/02/09 Phone: 575-390-4186			

\* Attach Additional Sheets If Necessary



Form NM 3162-1  
(August 2004)UNITED STATES DEPARTMENT OF THE INTERIOR  
Bureau of Land Management  
New Mexico State OfficeSENT  
DEC 02 2009

## REPORT OF UNDESIRABLE EVENT

DATE OF OCCURRENCE/DISCOVERY: 11/29/09 TIME OF OCCURRENCE: 7:30 amDATE REPORTED TO BLM: 11/30/09 TIME REPORTED: 9:40 amBLM OFFICE REPORTED TO: (FIELD/DISTRICT/OTHER) Hobbs - Trisha Badbear - Left  
message on cell +  
officeLOCATION: (1/4 1/4) #8 SECTION 14 T. 21S R. 37E MERIDIANCOUNTY: Lea STATE: Nm WELL NAME EBou Sat #5OPERATOR: COMPANY NAME Apache PHONE NO. 350-4180  
CONTACT PERSON'S NAME NatalieSURFACE OWNER: Lucille Bryant MINERAL OWNER: BLM  
(FEDERAL/INDIAN/FEE/STATE)

LEASE NO.: \_\_\_\_\_ RIGHT-OF-WAY NO.: \_\_\_\_\_

UNIT NAME / COMMUNITIZATION AGREEMENT NO.: \_\_\_\_\_

TYPE OF EVENT, CIRCLE APPROPRIATE ITEM (S):

BLOWOUT, FIRE, FATALITY, INJURY, PROPERTY DAMAGE, OIL SPILL, SALTWATER SPILL, OIL AND  
SALTWATER SPILL, TOXIC FLUID SPILL, HAZARDOUS MATERIAL SPILL, UNCONTROLLED FLOW  
OF WELLBORE FLUIDS, OTHER (SPECIFY):Spill - hydrocarbon + produced water - 80 bbls of H fluid  
70 bbls recoveredCAUSE OF EVENT: gasket on heater brokeHazMat Notified: (for spills) noneLaw Enforcement Notified: (for thefts) none

CAUSE AND EXTENT OF PERSONAL INJURIES/CAUSE OF DEATH(S):

none  
Safety Officer Notified: \_\_\_\_\_EFFECTS OF EVENT: spray out in pasture, fluid pooled west  
of bldg + inside containment wallsACTION TAKEN TO CONTROL EVENT: Wells were shut inLENGTH OF TIME TO CONTROL BLOWOUT OR FIRE: 1 1/2VOLUMES DISCHARGED: OIL 30 WATER 50 GAS \_\_\_\_\_OTHER AGENCIES NOTIFIED: NMCCO - Larry Johnson

ACTION TAKEN OR TO BE TAKEN TO PREVENT RECURRENCE: gasket + fire tube replaced

FINAL INVESTIGATION:

TEAM NAME(S) \_\_\_\_\_

FIELD INSPECTION DATE \_\_\_\_\_

SUMMARY OF RESULTS OF INSPECTION \_\_\_\_\_

RESOURCE LOSS WAS (CIRCLE ITEM):

AVOIDABLE

UNAVOIDABLE

DATE OF MEMO NOTIFYING MINEALS MANAGEMENT SERVICE THAT LOSS WAS AVOIDABLE:

DATE/TIME/PERSON NOTIFIED:

DISTRICT OFFICE \_\_\_\_\_

STATE OFFICE \_\_\_\_\_

WASHINGTON OFFICE \_\_\_\_\_

SUMMARY OF RESULTS OF RECLAMATION/CORRECTIVE ACTION:

REMARKS: \_\_\_\_\_

SIGNATURE OF AUTHORIZED OFFICER \_\_\_\_\_

DATE: \_\_\_\_\_ TITLE: \_\_\_\_\_



# ARDINAL LABORATORIES

PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

April 13, 2010

Natalie Gladden  
Apache Corporation  
P.O. Box 1849  
Eunice, NM 88231

Re: EBDU Sat #5

Enclosed are the results of analyses for sample number H19634, received by the laboratory on 04/09/10 at 2:15 pm.

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 524.2	Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 3 (includes Chain of Custody)

Sincerely,

Celey D. Keene  
Laboratory Director

---

This report conforms with NELAP requirements.





# ARDINAL LABORATORIES

PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR  
APACHE CORPORATION  
ATTN: NATALIE GLADDEN  
P.O. BOX 1849  
EUNICE, NM 88231

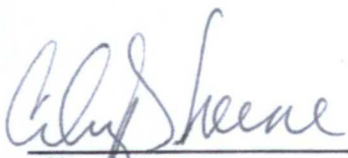
Receiving Date: 04/09/10  
Reporting Date: 04/12/10  
Project Owner: NOT GIVEN  
Project Name: EBDU SAT #5  
Project Location: NOT GIVEN

Analysis Date: 04/12/10  
Sampling Date: 03/15/10  
Sample Type: SOIL  
Sample Condition: INTACT @ 13°C  
Sample Received By: AB  
Analyzed By: HM

LAB NUMBER	SAMPLE ID	Cl <sup>-</sup> (mg/kg)
H19634-1	SP1	240
H19634-2	SP2	48
H19634-3	SP3	352
H19634-4	SP4	592
H19634-5	SP5	576
H19634-6	SP6	80
Quality Control		500
True Value QC		500
% Recovery		100
Relative Percent Difference		< 0.1

METHOD: Standard Methods 4500-Cl<sup>-</sup>B

Note: Analyses performed on 1:4 w:v aqueous extracts.

  
\_\_\_\_\_  
Chemist

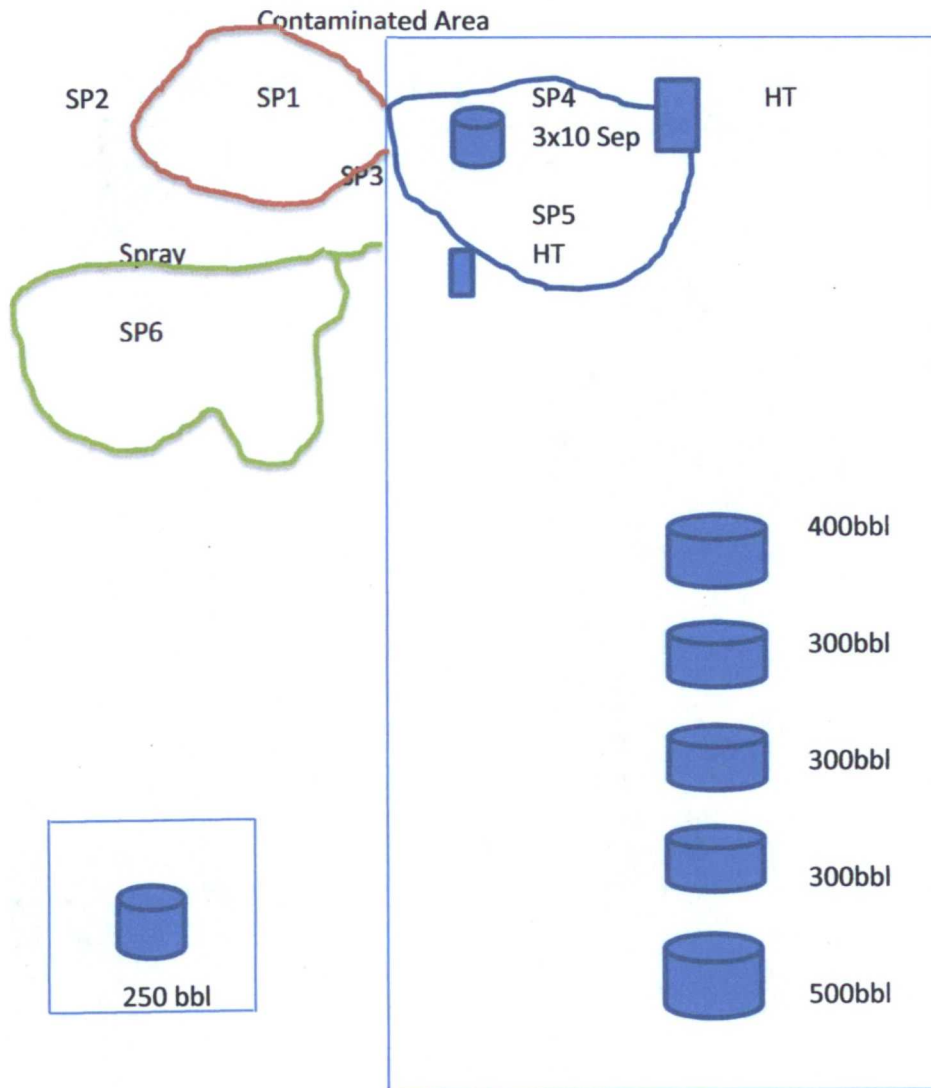
  
\_\_\_\_\_  
Date

H19634 APACHE

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 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.

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

[illegible]



Sample ID	Chlorides
SP1	240-ppm
SP2	48-ppm
SP3	352-ppm
SP4	592-ppm
SP5	576-ppm
SP6	80-ppm