



EXPLORING WHAT'S POSSIBLE

# **APACHE CORPORATION**

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

**MJ SWD Line**  
**(2RP-2827)**

---

## **Termination Request**

API No. 30-015-00724

Release Date: February 5<sup>th</sup>, 2015

Unit Letter A, Section 2, Township 18S, Range 27E

**March 11<sup>th</sup>, 2015**

**Mike Bratcher**

New Mexico Energy, Minerals, & Natural Resources  
Oil Conservation Division, Environmental Bureau – District 2  
811 S. First St.  
Artesia, NM 88210

**RE: Termination Request  
Apache MJ SWD Line (2RP-2827)  
UL/A sec. 2 T18S R27E  
API No. 30-015-00724**

Mr. Bratcher:

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

**Background and Previous Work**

The site is located approximately 8.7 miles east of Atoka, New Mexico. Although the initial C-141 stated that the release is located in UL/A, the release also encroached into UL/H of sec. 2 T18S R27E. NM OSE and USGS monitor well data suggest that the depth to groundwater is located at approximately +/- 50 ft.

On February 5<sup>th</sup>, 2015, a Non-Apache, third party contractor was installing a 3 inch water line and ran over a padded poly line with rippers from the blade. The line ruptured and released 15 barrels of produced water over 5,907 square feet of pasture land. None of the fluid was recovered. An initial C-141 was submitted to NMOCD for their approval, and NMOCD approved the initial C-141 on February 19<sup>th</sup>, 2015 (Appendix A).

RECS personnel were on site beginning on February 11<sup>th</sup>, 2015, to assess the release. Based on the assessment, the release area was scraped to a depth where field sampling of the bottom and walls of the scrape showed that these samples would return laboratory readings below regulatory standards (Figure 1). Representative samples from the walls of the scrape and an 8 point bottom composite were then taken to a commercial laboratory for analyses (Appendix B). All wall samples returned laboratory chloride readings at or near non-detectable levels, except for East Wall 2, which returned a laboratory chloride reading of 320 mg/kg. The 8 point bottom composite returned a laboratory chloride reading of 224 mg/kg.

A request to backfill the site was sent to NMOCD on March 4<sup>th</sup>, 2015, and NMOCD approved the site to be backfilled on March 6<sup>th</sup>, 2015. All excavated soil was taken to a NMOCD approved facility for disposal. Top soil was imported to the site to replace the contaminated soil taken for disposal. A sample of the imported top soil was taken to a commercial laboratory and

returned a chloride reading of non-detect. The site was backfilled with the imported soil and contoured to the surrounding location.

Photo documentation of field activities can be found in Appendix C.

Given that Apache removed the contaminated soil and replaced it with clean, imported top soil, Apache respectfully requests 'remediation termination' and site closure. A final C-141 can be found in Appendix D.

RECS appreciates the opportunity to work with you on this project. Please call Hack Conder at (575) 393-2967 or me if you have any questions or wish to discuss the site.

Sincerely,

A handwritten signature in cursive script, appearing to read 'Lara Weinheimer', with a long horizontal flourish extending to the right.

Lara Weinheimer  
Project Scientist  
RECS  
(575) 441-0431

Attachments:

- Figure 1 – Excavation Data
- Appendix A – Initial C-141
- Appendix B – Remediation Labs
- Appendix C – Photo Documentation
- Appendix D – Final C-141

# Figures



# Appendix A

Initial C-141

**RICE Environmental Consulting and Safety (RECS)**  
P.O. Box 2948 Hobbs, NM 88241  
Phone 575.393.2967

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

**NM OIL CONSERVATION**

ARTESIA DISTRICT

FEB 19 2015

Form C-141  
Revised August 8, 2011

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

RECEIVED

**Release Notification and Corrective Action**

*NAB1505127312*  
*NAB1505129029*

**OPERATOR**

Initial Report  Final Report

Name of Company: Apache Corporation <i>813</i>	Contact Bruce Baker
Address: 2350 W Marland Blvd Hobbs, NM 88240	Telephone No. (432) 631-6982
Facility Name MJ SWD Line (near well EAU I-16 B)	Facility Type: Oil Well
Surface Owner State	Mineral Owner
API No. 30-15-00724	

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	2	18S	27E	990'	FNL	330'	FEL	Eddy

Latitude N324647.476 Longitude W1041426.916

**NATURE OF RELEASE**

Type of Release: produced water	Volume of Release: 15 barrels of water	Volume Recovered: 0 barrels
Source of Release: flow-line	Date and Hour of Occurrence: 2/5/2015	Date and Hour of Discovery: 2/5/2015
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" 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 Non-Apache third party contactor installing a 3 in water line ran over padded poly flow line and ruptured the line with rippers on blade. The line was isolated and repaired.		
Describe Area Affected and Cleanup Action Taken.* The entire release was in pasture.		
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>Bruce Baker</i>	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Bruce Baker	Approved by Environmental Specialist: <i>[Signature]</i>	
Title: Environmental Technician	Approval Date: <i>2/19/15</i>	Expiration Date: <i>N/A</i>
E-mail Address: larry.baker@apachecorp.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 2/19/2015	Phone: (432) 631-6982	

**Remediation per O.C.D. Rules & Guidelines**

**SUBMIT REMEDIATION PROPOSAL NO**

**LATER THAN: 3/19/15**

\* Attach Additional Sheets If Necessary

*2RP-2827*

# Appendix B

## Remediation Labs

**RICE Environmental Consulting and Safety (RECS)**  
P.O. Box 2948 Hobbs, NM 88241  
Phone 575.393.2967



February 27, 2015

JACOB KAMPLAIN

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: SMITHCO APACHE MJ SWD LINE

Enclosed are the results of analyses for samples received by the laboratory on 02/25/15 16:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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 (V1, 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,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

 RICE ENVIRONMENTAL CONSULTING & SAFETY  
 JACOB KAMPLAIN  
 419 W. CAIN  
 HOBBS NM, 88240  
 Fax To: (575) 397-1471

Received:	02/25/2015	Sampling Date:	02/25/2015
Reported:	02/27/2015	Sampling Type:	Soil
Project Name:	SMITHCO APACHE MJ SWD LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: IMPORTED TOPSOIL (H500547-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/27/2015	ND	400	100	400	0.00	

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



---

Celey D. Keene, Lab Director/Quality Manager





March 02, 2015

JACOB KAMPLAIN

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: SMITHCO APACHE MJ SWD LINE

Enclosed are the results of analyses for samples received by the laboratory on 03/02/15 11:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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 (V1, 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,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

 RICE ENVIRONMENTAL CONSULTING & SAFETY  
 JACOB KAMPLAIN  
 419 W. CAIN  
 HOBBS NM, 88240  
 Fax To: (575) 397-1471

Received:	03/02/2015	Sampling Date:	02/25/2015
Reported:	03/02/2015	Sampling Type:	Soil
Project Name:	SMITHCO APACHE MJ SWD LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SOUTH WALL (H500570-01)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/02/2015	ND	400	100	400	3.92	

**Sample ID: EAST WALL 2 (H500570-02)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>320</b>	16.0	03/02/2015	ND	400	100	400	3.92	

**Sample ID: WEST WALL 2 (H500570-03)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>48.0</b>	16.0	03/02/2015	ND	400	100	400	3.92	

**Sample ID: NORTH WALL (H500570-04)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>32.0</b>	16.0	03/02/2015	ND	400	100	400	3.92	

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:**

 RICE ENVIRONMENTAL CONSULTING & SAFETY  
 JACOB KAMPLAIN  
 419 W. CAIN  
 HOBBS NM, 88240  
 Fax To: (575) 397-1471

Received:	03/02/2015	Sampling Date:	02/26/2015
Reported:	03/02/2015	Sampling Type:	Soil
Project Name:	SMITHCO APACHE MJ SWD LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: 8 PT BOTTOM COMP (H500570-05)**
**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>224</b>	16.0	03/02/2015	ND	400	100	400	3.92	

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



---

Celey D. Keene, Lab Director/Quality Manager





# Appendix C

Photo Documentation

**RICE Environmental Consulting and Safety (RECS)**  
P.O. Box 2948 Hobbs, NM 88241  
Phone 575.393.2967

# Apache MJ SWD Line

Unit Letter A, Section 2, T18S, R27E



Initial release area, facing west

2/11/15



Initial release area, facing north

2/11/15



Initial release area, facing south

2/11/15



Initial release area, facing east

2/11/15



Scraping site, facing north

2/13/15



Exporting soil, facing east

2/24/15



Continue scraping site, facing northeast

2/24/15



Site completed, facing south

3/4/15



Site completed, facing north

3/4/15



Site completed, facing east

3/4/15

# Appendix D

Final C-141

**RICE Environmental Consulting and Safety (RECS)**  
P.O. Box 2948 Hobbs, NM 88241  
Phone 575.393.2967

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	Bruce Baker
Address	2350 W. Marland Blvd, Hobbs, NM 88240	Telephone No.	(432) 631-6982
Facility Name	MJ SWD Line (near well EAU I-16 B)	Facility Type	Oil Well

Surface Owner	State	Mineral Owner	API No. 30-015-00724
---------------	-------	---------------	----------------------

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	2	18S	27E	990'	FNL	330'	FEL	Eddy

Latitude N324647.476 Longitude W1041426.916

**NATURE OF RELEASE**

Type of Release	produced water	Volume of Release	15 barrels of water	Volume Recovered	0 Barrels
Source of Release	flow line	Date and Hour of Occurrence	2/5/2015	Date and Hour of Discovery	2/5/2015
Was Immediate Notice Given?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" 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 Non-Apache third party contractor installing a 3 in water line ran over padded poly flow line and ruptured the line with rippers on blade. The line was isolated and repaired.

Describe Area Affected and Cleanup Action Taken.\*  The release affected 5,907 square feet of pasture land. RECS personnel were on site beginning on February 11<sup>th</sup>, 2015, to assess the release. Based on the assessment, the release area was scraped to a depth where field sampling of the bottom and walls of the scrape showed that these samples would return laboratory readings below regulatory standards. Representative samples from the walls of the scrape and an 8 point bottom composite were then taken to a commercial laboratory for analyses. All wall samples returned laboratory chloride readings at or near non-detectable levels, except for East Wall 2, which returned a laboratory chloride reading of 320 mg/kg. The 8 point bottom composite returned a laboratory chloride reading of 224 mg/kg. A request to backfill the site was sent to NMOCD on March 4<sup>th</sup>, 2014, and NMOCD approved the site to be backfilled on March 6<sup>th</sup>, 2014. All excavated soil was taken to a NMOCD approved facility for disposal. Top soil was imported to the site to replace the contaminated soil taken for disposal. A sample of the imported top soil was taken to a commercial laboratory and returned a chloride reading of non-detect. The site was backfilled with imported soil and contoured to the surrounding location.

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>Bruce Baker</i>	<b>OIL CONSERVATION DIVISION</b>		
Printed Name: Bruce Baker	Approved by Environmental Specialist:		
Title: Environmental Technician	Approval Date:	Expiration Date:	
E-mail Address: larry.baker@apachecorp.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: <u>3-11-15</u> Phone: (432) 631-6982			

\* Attach Additional Sheets If Necessary