



EXPLORING WHAT'S POSSIBLE

# **APACHE CORPORATION**

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

## **Outlaw State #10** **(2RP-2971)**

---

# **Termination Request**

API No. 30-015-42560

Release Date: April 12<sup>th</sup>, 2015

Unit Letter J, Section 29, Township 17S, Range 28E



PO Box 2948 | Hobbs, NM 88241 | Phone 575.393.2967

**August XX, 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 Outlaw State #10 (2RP-2971)  
UL/J sec. 29 T17S R28E  
API No. 30-015-42560**

Mr. Bratcher:

Apache Corporation (Apache) has retained Basin Environmental Services Technologies, LLC (BEST) to address potential environmental concerns at the above-referenced site.

**Background and Previous Work**

The site is located approximately 12.5 miles west of Loco Hills, New Mexico at UL/J sec. 29 T17S R28E. NM OSE and USGS monitor well data suggests that the depth to groundwater is located at approximately +/- 87 ft.

On April 12<sup>th</sup>, 2015, Apache discovered a release of produced water and oil from the pop off valve on the generator. A total of 2 barrels of oil and 5 barrels of produced water was released over 10,860 square feet of the lease pad and 41,855 square feet of the pasture as overspray. None of this fluid was recovered. An initial C-141 was submitted to NMOCD on April 27<sup>th</sup>, 2015, and NMOCD approved the initial C-141 on April 29<sup>th</sup>, 2015 (Appendix A).

BEST personnel were on site beginning on April 16<sup>th</sup>, 2015, to assess the release. Three points within the release area on the lease pad were sampled at the surface and with depth, and one point within the overspray was sampled at the surface (Figure 1). All soil samples were field tested for chlorides and organic vapors. Representative samples from each point were taken to a commercial laboratory analyses (Appendix B).

Based on the laboratory analyses, the release area was scraped down 6 inches (Figure 2). The excavated soil was taken to a NMOCD approved facility for disposal. Clean caliche was imported to the site to serve as backfill. The scrape was backfilled to the surface with the imported soil and contoured to the surrounding area. The overspray area was washed with clean water and Dawn dish soap to remove any staining.

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

Given that Apache has removed the contaminated soil and replaced it with clean, imported soil, Apache respectfully requests 'remediation termination' and site closure.

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

Sincerely,

A handwritten signature in dark ink, appearing to read 'J.C.W.' followed by a long, horizontal, slightly wavy line.

Lara Weinheimer  
Project Scientist  
RECS  
(575) 441-0431

Attachments:

- Figure 1 – Initial Sampling Data
- Figure 2 – Excavation Data
- Appendix A – Initial C-141
- Appendix B – Laboratory Analyses
- Appendix C – Photo Documentation
- Appendix D – Final C-141

# Figures

# Initial Sampling Data

### Point 1

	CI-	PID	GRO	DRO	B	T	E	X	BTEX
SS	974	55.6							
6'	144	10.9	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3

### Point 2

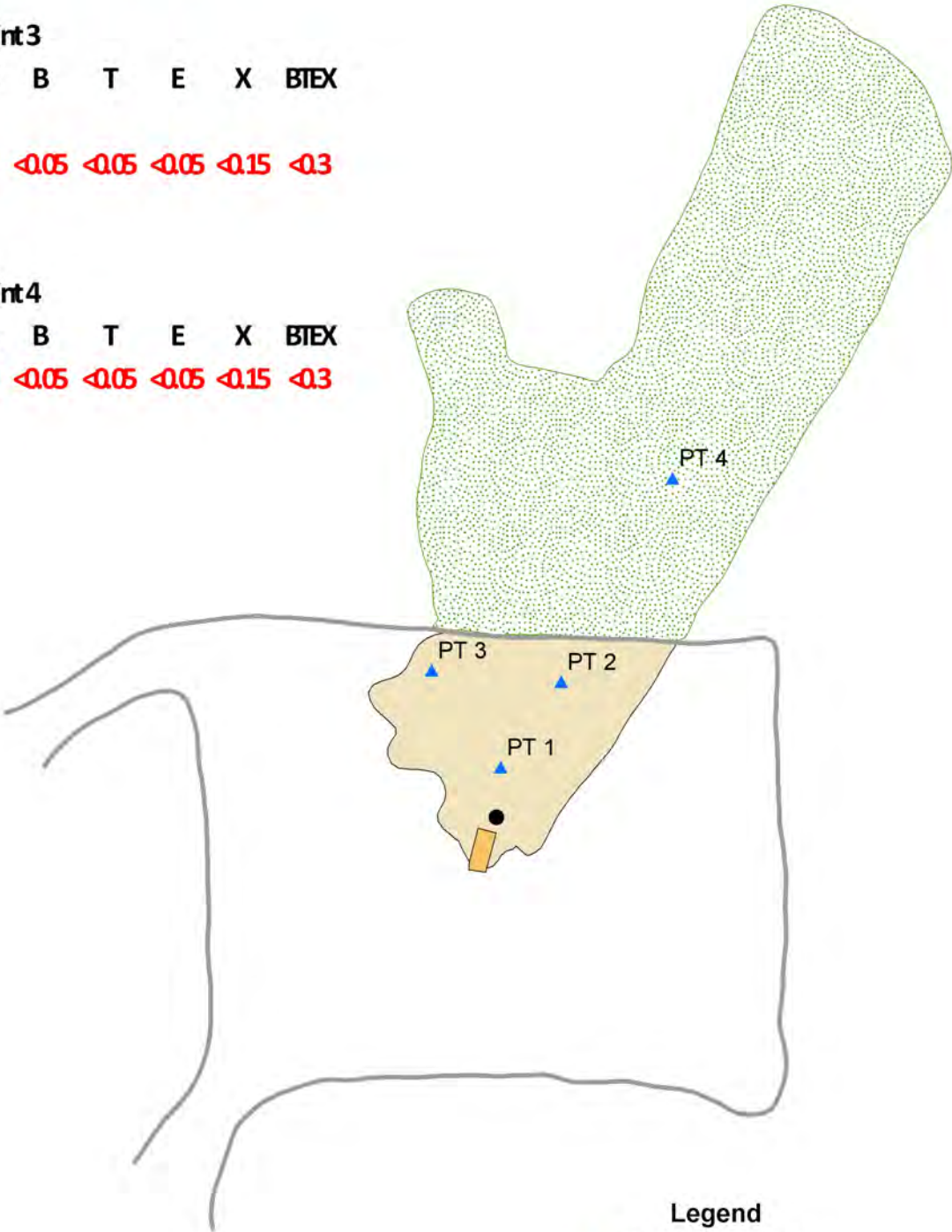
	CI-	PID	GRO	DRO	B	T	E	X	BTEX
SS	80	63.9	95.6	5550	<0.05	<0.05	0.092	0.432	0.524
6'	48	5.7	<10	229	<0.05	<0.05	<0.05	<0.15	<0.3

### Point 3

	CI-	PID	GRO	DRO	B	T	E	X	BTEX
SS	2791	322.2							
6'	64	22.1	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3

### Point 4

	CI-	PID	GRO	DRO	B	T	E	X	BTEX
SS	16	52.5	<50	1660	<0.05	<0.05	<0.05	<0.15	<0.3



### Legend

- ▲ SAMPLE POINT
- WELLHEAD
- PAD EDGE
- OVERSPRAY
- PUMPJACK
- STAIN (10,860 sq ft)

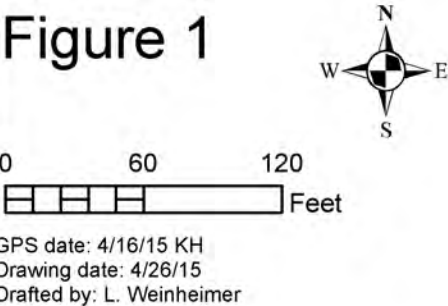
GPS at wellhead: 32.802547, -104.194777  
Landowner: State  
DGW: 87 FT

CI- FIELD DATA  
CI- LAB DATA

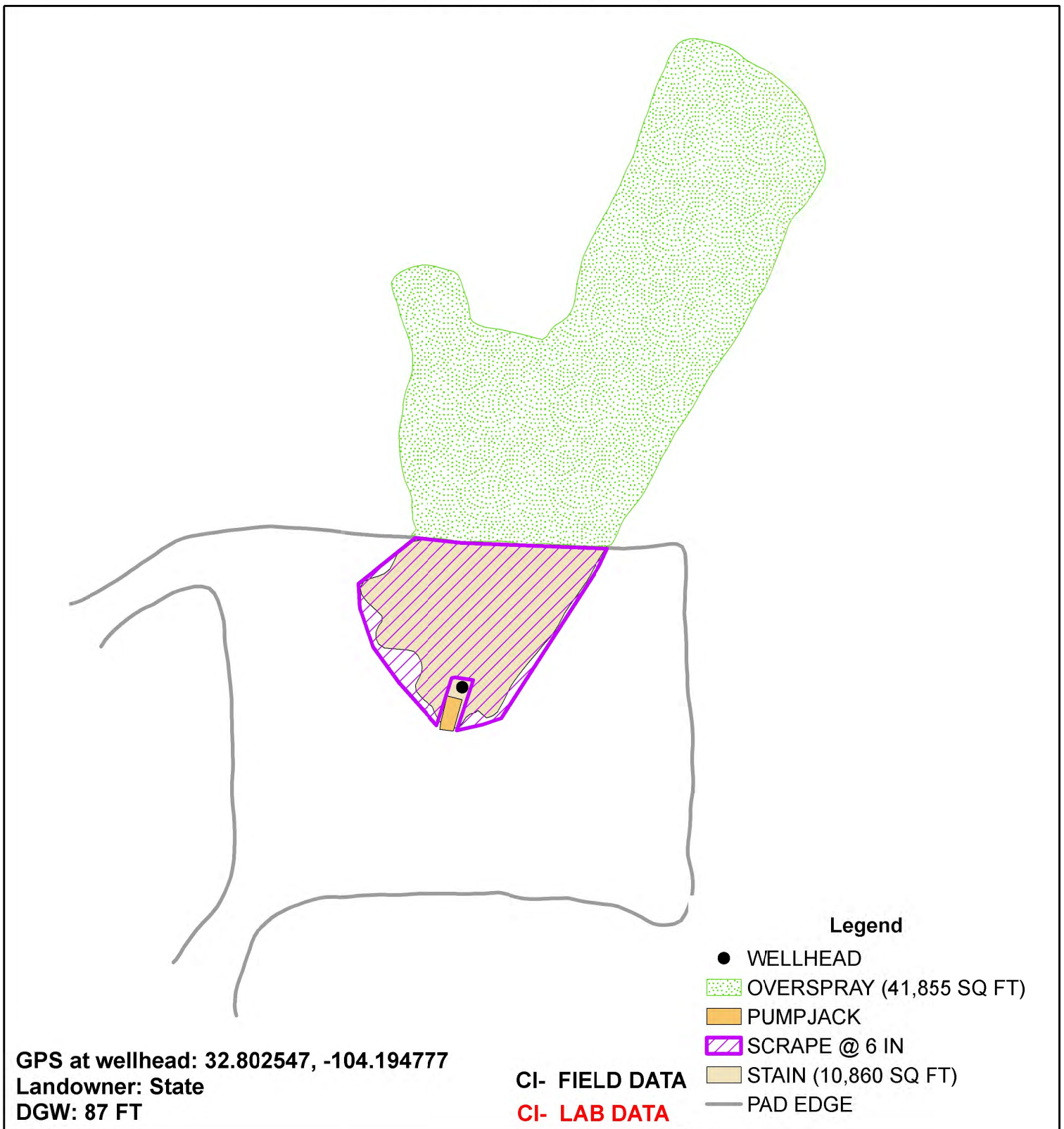


**APACHE OUTLAW  
STATE #10**  
NMOCD Case #: 2RP-2971  
UL J SECTION 29  
T-17-S R-28-E  
EDDY COUNTY, NM

Figure 1



# Excavation Data

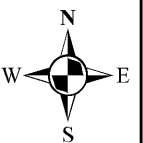


## APACHE OUTLAW STATE #10

NMOCD Case #: 2RP-2971

UL J SECTION 29  
T-17-S R-28-E  
EDDY COUNTY, NM

## Figure 2



0 60 120  
Feet

GPS date: 4/16/15 KH  
Drawing date: 7/27/15  
Drafted by: B. Cooper



# Appendix A

Initial C-141

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 **NM OIL CONSERVATION**  
Energy Minerals and Natural Resources  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

ARTESIA DISTRICT

Form C-141  
Revised August 8, 2011

APR 27 2015  
Copy to appropriate District Office in  
accordance with 19.15.29 NMAC.

RECEIVED

**Release Notification and Corrective Action**

NAB1511957258

**OPERATOR**

☒ Initial Report ☐ Final Report

Name of Company	Apache Corporation	873	Contact	Bruce Baker
Address	2350 W. Marland Blvd, Hobbs, NM 88240		Telephone No.	(432) 631-6982
Facility Name	Outlaw State #10		Facility Type	Well head

Surface Owner	State	Mineral Owner		API No.	30-015-42560
---------------	-------	---------------	--	---------	--------------

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	29	17S	28E	1650	FSL	1650	FEL	Eddy

Latitude 32.8025395407241 Longitude -104.194808863564

**NATURE OF RELEASE**

Type of Release	Produced water and oil	Volume of Release	2 bbl Oil & 5 bbl Produced Water	Volume Recovered	0
Source of Release	Oil Well	Date and Hour of Occurrence	4/12/15	Date and Hour of Discovery	4/12/15
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.\*  
Pop off valve on generator popped off due to pressure.

Describe Area Affected and Cleanup Action Taken.\*  
The release area covered 10,860 sq ft of the lease pad and 41,855 sq ft of the pasture as overspray.. A path forward will be submitted to NMOCD after delineation efforts.

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: <u>Bruce Baker</u>		<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Bruce Baker		Approved by Environmental Specialist: <u>[Signature]</u>	
Title: Environmental Technician		Approval Date: <u>4/29/15</u>	Expiration Date: <u>N/A</u>
E-mail Address: larry.baker@apachecorp.com		Conditions of Approval:	
Date: 4/27/15 Phone: (432) 631-6982		Remediation per O.C.D. Rules & Guidelines SUBMIT REMEDIATION PROPOSAL NO LATER THAN: <u>5/29/15</u>	

Attached ☐

\* Attach Additional Sheets If Necessary

2RP-2971



# Appendix B

## Laboratory Analyses

**Basin Environmental Service Technologies (BEST)**  
P.O. Box 2948 Hobbs, NM 88241  
Phone 575.393.2967



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

---

April 24, 2015

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: OUTLAW STATE #10

Enclosed are the results of analyses for samples received by the laboratory on 04/21/15 15:00.

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". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

APACHE CORP - HOBBS  
BRUCE BAKER  
2350 W. MARLAND BLVD.  
HOBBS NM, 88240  
Fax To: (575) 393-2432

Received: 04/21/2015  
Reported: 04/24/2015  
Project Name: OUTLAW STATE #10  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 04/16/2015  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: PT. 2 @ SURFACE (H501035-01)**

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/22/2015	ND	2.13	106	2.00	0.0278	
Toluene*	<0.050	0.050	04/22/2015	ND	1.90	95.2	2.00	0.400	
Ethylbenzene*	<b>0.092</b>	0.050	04/22/2015	ND	1.81	90.3	2.00	0.992	
<b>Total Xylenes*</b>	<b>0.432</b>	0.150	04/22/2015	ND	5.72	95.4	6.00	1.48	
<b>Total BTX</b>	<b>0.524</b>	0.300	04/22/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 61-154

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>80.0</b>	16.0	04/22/2015	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>95.6</b>	50.0	04/22/2015	ND	200	99.9	200	5.98	
<b>DRO &gt;C10-C28</b>	<b>5550</b>	50.0	04/22/2015	ND	214	107	200	9.62	

Surrogate: 1-Chlorooctane 134 % 47.2-157

Surrogate: 1-Chlorooctadecane 146 % 52.1-176

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 CORP - HOBBS  
BRUCE BAKER  
2350 W. MARLAND BLVD.  
HOBBS NM, 88240  
Fax To: (575) 393-2432

Received: 04/21/2015  
Reported: 04/24/2015  
Project Name: OUTLAW STATE #10  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 04/16/2015  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: PT. 4 @ SURFACE (H501035-02)**

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/22/2015	ND	2.13	106	2.00	0.0278	
Toluene*	<0.050	0.050	04/22/2015	ND	1.90	95.2	2.00	0.400	
Ethylbenzene*	<0.050	0.050	04/22/2015	ND	1.81	90.3	2.00	0.992	
Total Xylenes*	<0.150	0.150	04/22/2015	ND	5.72	95.4	6.00	1.48	
Total BTEx	<0.300	0.300	04/22/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 61-154

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	04/22/2015	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	<50.0	50.0	04/22/2015	ND	200	99.9	200	5.98	
DRO >C10-C28	1660	50.0	04/22/2015	ND	214	107	200	9.62	

Surrogate: 1-Chlorooctane 106 % 47.2-157

Surrogate: 1-Chlorooctadecane 116 % 52.1-176

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





101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603  
(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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:		Date: 4/25/15	Received By:	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
Relinquished By:		Time: 3:00	Received By:	Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One)		Time:	Sample Condition	REMARKS:	
Sampler - UPS - Bus - Other:		-3.62	<input checked="" type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No	email: hconder@riceswd.com; lflores@rice-ecs.com; lweinheimer@rice-ecs.com; knorman@rice-ecs.com; jkamplain@rice-ecs.com; sedwards@rice-ecs.com; cursanic@rice-ecs.com Environmental Tech: @rice-ecs.com	

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

5-393-2476  
#54



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

---

May 07, 2015

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: OUTLAW STATE #10

Enclosed are the results of analyses for samples received by the laboratory on 05/01/15 16:04.

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". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

APACHE CORP - HOBBS  
BRUCE BAKER  
2350 W. MARLAND BLVD.  
HOBBS NM, 88240  
Fax To: (575) 393-2432

Received: 05/01/2015  
Reported: 05/07/2015  
Project Name: OUTLAW STATE #10  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 04/24/2015  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: PT. 1 @ 6" (H501147-01)**

BTX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/05/2015	ND	1.90	95.2	2.00	0.220	
Toluene*	<0.050	0.050	05/05/2015	ND	1.71	85.6	2.00	0.421	
Ethylbenzene*	<0.050	0.050	05/05/2015	ND	1.64	82.0	2.00	2.17	
Total Xylenes*	<0.150	0.150	05/05/2015	ND	5.39	89.8	6.00	2.17	
Total BTX	<0.300	0.300	05/05/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	05/05/2015	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/05/2015	ND	197	98.4	200	0.528	
DRO >C10-C28	<10.0	10.0	05/05/2015	ND	203	102	200	1.44	

Surrogate: 1-Chlorooctane 92.3 % 47.2-157

Surrogate: 1-Chlorooctadecane 87.7 % 52.1-176

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 CORP - HOBBS  
BRUCE BAKER  
2350 W. MARLAND BLVD.  
HOBBS NM, 88240  
Fax To: (575) 393-2432

Received: 05/01/2015  
Reported: 05/07/2015  
Project Name: OUTLAW STATE #10  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 04/24/2015  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: PT. 2 @ 6" (H501147-02)**

BTEx 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/05/2015	ND	1.90	95.2	2.00	0.220	
Toluene*	<0.050	0.050	05/05/2015	ND	1.71	85.6	2.00	0.421	
Ethylbenzene*	<0.050	0.050	05/05/2015	ND	1.64	82.0	2.00	2.17	
Total Xylenes*	<0.150	0.150	05/05/2015	ND	5.39	89.8	6.00	2.17	
Total BTEx	<0.300	0.300	05/05/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/05/2015	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/05/2015	ND	203	101	200	0.827	
DRO >C10-C28	229	10.0	05/05/2015	ND	210	105	200	1.22	

Surrogate: 1-Chlorooctane 94.8 % 47.2-157

Surrogate: 1-Chlorooctadecane 97.3 % 52.1-176

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 CORP - HOBBS  
BRUCE BAKER  
2350 W. MARLAND BLVD.  
HOBBS NM, 88240  
Fax To: (575) 393-2432

Received: 05/01/2015  
Reported: 05/07/2015  
Project Name: OUTLAW STATE #10  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 04/24/2015  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: PT. 3 @ 6" (H501147-03)**

BTEx 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/05/2015	ND	1.90	95.2	2.00	0.220		
Toluene*	<0.050	0.050	05/05/2015	ND	1.71	85.6	2.00	0.421		
Ethylbenzene*	<0.050	0.050	05/05/2015	ND	1.64	82.0	2.00	2.17		
Total Xylenes*	<0.150	0.150	05/05/2015	ND	5.39	89.8	6.00	2.17		
Total BTEx	<0.300	0.300	05/05/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/05/2015	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/05/2015	ND	203	101	200	0.827	
DRO >C10-C28	<10.0	10.0	05/05/2015	ND	210	105	200	1.22	

Surrogate: 1-Chlorooctane 93.6 % 47.2-157

Surrogate: 1-Chlorooctadecane 91.0 % 52.1-176

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 2111 Beechwood, Abilene, TX 79603  
(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <b>APAOW</b>				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																			
Project Manager: <b>BRUCE VANCE</b>				P.O. #:				<div>Chlorides</div> <div>TPH 8015 M</div> <div>BTEX</div> <div>Texas TPH</div> <div>Complete Cations/Anions</div> <div>TDS</div>																			
Address:				Company:																							
City: Hobbs State: NM Zip: 88240				Attn:																							
Phone #: Fax #:				Address:																							
Project #: Project Owner:				City:																							
Project Name:				State: Zip:																							
Project Location: <b>Out Low State #10</b>				Phone #:																							
Sampler Name: <b>Kyle Thompson</b>				Fax #:																							
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING																			
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME													
<b>H501147</b>																											
<b>1</b>	<b>Pt 1 @ 6 inches</b>	<b>6</b>	<b>1</b>			<b>1</b>					<b>1</b>		<b>0-21-15</b>	<b>12:00</b>	<b>1</b>	<b>1</b>	<b>1</b>										
<b>2</b>	<b>Pt 2 @ 6 inches</b>	<b>6</b>	<b>1</b>			<b>1</b>					<b>1</b>		<b>4-24-15</b>	<b>12:05</b>	<b>1</b>	<b>1</b>	<b>1</b>										
<b>3</b>	<b>Pt 3 @ 6 inches</b>	<b>6</b>	<b>1</b>			<b>1</b>					<b>1</b>		<b>4-24-15</b>	<b>12:10</b>	<b>1</b>	<b>1</b>	<b>1</b>										

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: <b>[Signature]</b>	Date: <b>3-1-15</b> Time: <b>4:04</b>	Received By: <b>[Signature]</b>	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date:	Received By:	Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One)			REMARKS:	
Sampler - UPS - Bus - Other:	<b>3.2°C</b>	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	email: hconder@riceswd.com; lflores@rice-ecs.com; lweinheimer@rice-ecs.com; knorman@rice-ecs.com; jkamplain@rice-ecs.com; sedwards@rice-ecs.com; cursanic@rice-ecs.com Environmental Tech: @rice-ecs.com	
		CHECKED BY: <b>[Signature]</b>		

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

**#54**

# Appendix C

Photo Documentation

**Basin Environmental Service Technologies (BEST)**  
P.O. Box 2948 Hobbs, NM 88241  
Phone 575.393.2967



# Apache Outlaw State #10

Unit Letter J, Section 29, T17S, R28E



Initial release area, facing southwest

4/16/15



Initial overspray area, facing southwest

4/16/15



Initial overspray area, facing northwest

4/16/15



Installing verticals, facing east

4/23/15





Scraping pad, facing southeast

4/24/15



Scraping pad, facing east

4/24/15



Site completed, facing east

7/1/15



Site completed, facing southwest

7/1/15



# Appendix D

Final C-141

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

Form C-141  
Revised August 8, 2011

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

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	Outlaw State #10	Facility Type	Well head

Surface Owner	State	Mineral Owner		API No.	30-015-42560
---------------	-------	---------------	--	---------	--------------

#### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	29	17S	28E	1650'	FSL	1650'	FEL	Eddy

Latitude 32.8025395407241 Longitude -104.194808863564

#### NATURE OF RELEASE

Type of Release	Produced water and oil	Volume of Release	2 bbls Oil & 5 bbls Produced Water	Volume Recovered	0
Source of Release	Oil Well	Date and Hour of Occurrence	4/12/15	Date and Hour of Discovery	4/12/15
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.			

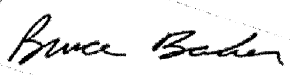
If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\*  
Pop off valve on generator popped off due to pressure.

Describe Area Affected and Cleanup Action Taken.\*

The release area covered 10,860 sq ft of the lease pad and 41,855 sq ft of the pasture of overspray. Three points within the release area on the lease pad were sampled at the surface and with depth, and one point within the overspray was sampled at the surface. All soil samples were field tested for chlorides and organic vapors. Representative samples from each point were taken to a commercial laboratory analyses. Based on the laboratory analyses, the release area was scraped down 6 inches (Figure 2). The excavated soil was taken to a NMOCD approved facility for disposal. Clean caliche was imported to the site to serve as backfill. The scrape was backfilled to the surface with the imported soil and contoured to the surrounding area. The overspray area was washed with clean water and dawn dish soap to remove any staining.

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: 	<u>OIL CONSERVATION DIVISION</u>		
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>8-20-15</u> Phone: (432) 631-6982			

\* Attach Additional Sheets If Necessary