



EXPLORING WHAT'S POSSIBLE

APACHE CORPORATION

2350 W. Marland Street
Hobbs, NM 88240
Phone 432.631.6982

Plow Boy Federal #1
1RP-3153

Termination Request

API No. 30-025-36962

Release Date: April 30th, 2014

Unit Letter J, Section 35, Township 19S, Range 38E

September 4th, 2014

Dr. Tomáš Oberding, PhD

Environmental Specialist – New Mexico Oil Conservation Division
Energy, Minerals and Natural Resources Department
1625 N. French Dr.
Hobbs, NM 88240

**RE: Termination Request
Apache Corporation – Plow Boy Federal #1 (IRP-3153)
UL/J sec. 35 T19S R38E
API No. 30-025-36962**

Dr. Oberding:

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 0.8 miles southeast of Nadine, New Mexico at UL/J sec. 35 T19S R38E. NM OSE and USGS records indicate that groundwater will likely be encountered at a depth of approximately 54 +/- feet.

On April 30th, 2014, Apache discovered a release of 21 barrels of produced water and 1 barrel of oil from the well head. The pressure gauge on the well head malfunctioned and released the fluid over 1,688 square feet of the lease pad. A vacuum truck was called to the site and recovered 10 barrels of produced water and ½ barrel of oil. The saturated soil was scraped up and was disposed at a NMOCD approved facility. NMOCD and BLM were notified of the release of April 30th, 2014, and an initial C-141 was sent to NMOCD and BLM. NMOCD approved the initial C-141 on July 8th, 2014 (Appendix A).

RECS personnel were on site beginning on April 30th, 2014. An initial assessment was completed at the site and then the site was scraped down to 1 ft bgs. Verticals were installed at 1 ft bgs to determine the depth of contamination (Figure 1). As the verticals were installed, samples were taken at regular intervals and field tested for chlorides and organic vapors. Representative samples from the verticals were taken to a commercial laboratory for analysis (Appendix B). Based on the laboratory analysis, the release was scraped down an additional 6 inches. All excavated soil was taken to a NMOCD approved facility for disposal.

On July 23rd, 2014, a Path Forward was submitted to NMOCD and BLM. The Path Forward stated that a 20-mil reinforced poly liner would be installed at the base of the scrape surrounding the areas over Point 2 and Point 3. The liner would be padded to prevent punctures. Clean

caliche would be imported to the site to serve as backfill and to contour the site to the surrounding location. NMOCD approved the Path Forward on July 23rd, 2014.

Liner installation at the site began on July 23rd, 2014. A 20-mil reinforced poly liner was installed and properly seated over Point 2 and Point 3. Clean top soil was imported to the site to pad the liner and then clean caliche was imported to the site to backfill the entire scrape. The backfilled scrape was contoured to the surrounding location. Photo documentation of field activities can be found in Appendix C.

Given that the site was remediated per the NMOCD approved Path Forward, 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".

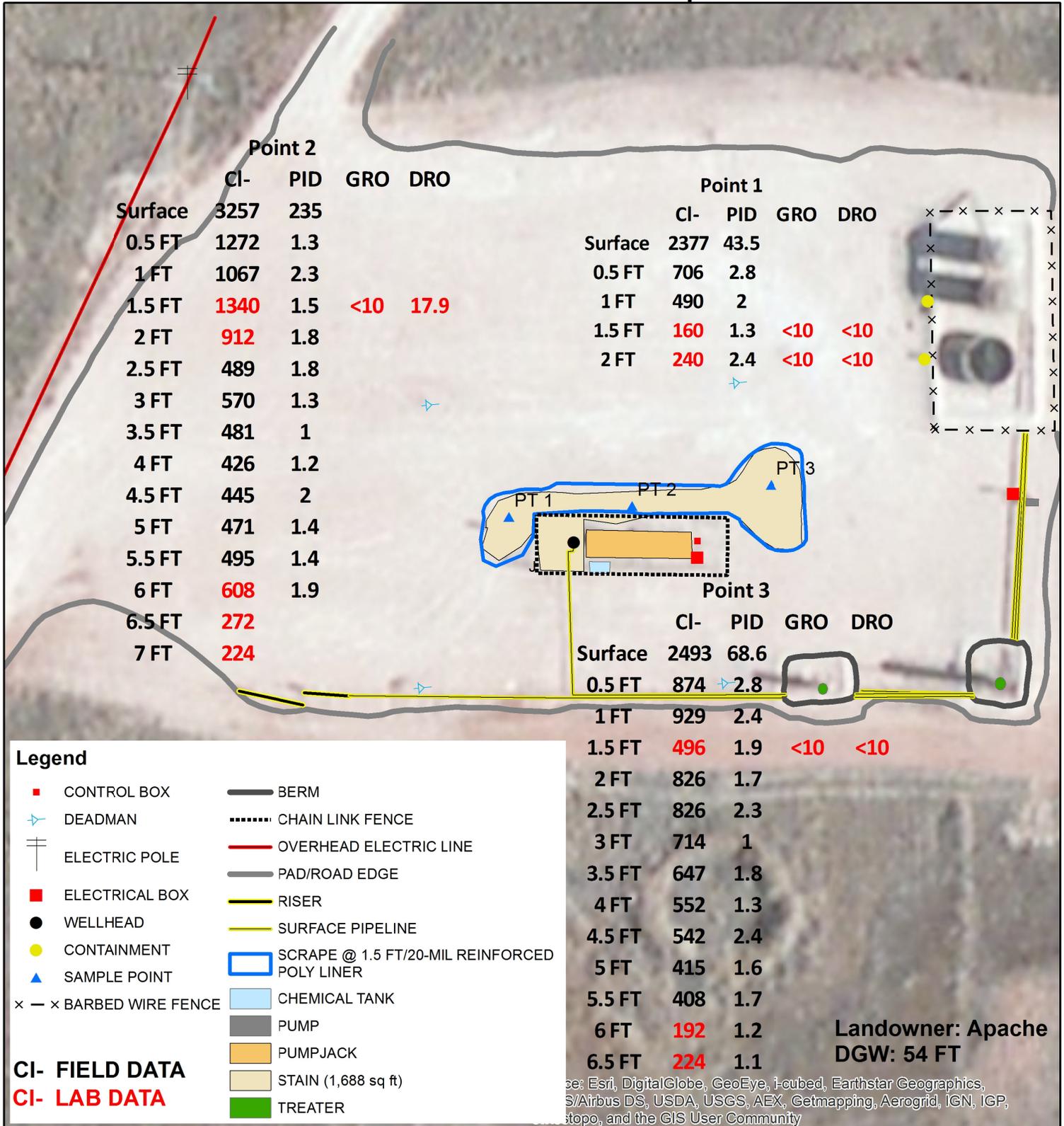
Lara Weinheimer
Project Scientist
RECS
(575) 441-0431

Attachments:

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

Figures

Excavation Map



Legend

- CONTROL BOX
- ⚡ DEADMAN
- ⊥ ELECTRIC POLE
- ELECTRICAL BOX
- WELLHEAD
- CONTAINMENT
- ▲ SAMPLE POINT
- × - × BARBED WIRE FENCE
- BERM
- CHAIN LINK FENCE
- OVERHEAD ELECTRIC LINE
- PAD/ROAD EDGE
- RISER
- SURFACE PIPELINE
- SCRAPER @ 1.5 FT/20-MIL REINFORCED POLY LINER
- CHEMICAL TANK
- PUMP
- PUMPJACK
- STAIN (1,688 sq ft)
- TREATER

CI- FIELD DATA

CI- LAB DATA

APACHE PLOW BOY FEDERAL #1

Legals: UL/J sec. 35
T-19-S R-38-E
LEA COUNTY, NM

Figure 1



0 25 50
Feet

GPS date: 5/9/14 KH
Drawing date: 6/20/14
Drafted by: T. Grieco/L. Weinheimer

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

MAY 20 2014

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

OPERATOR

Initial Report Final Report

Name of Company Apache Corporation	Contact Bruce Baker
Address 8 Ellison Lane Eunice, NM 88231	Telephone No. (432)- 631- 6982
Facility Name Plow Boy Federal # 1	Facility Type Oil Well
Surface Owner Apache Corporation	Mineral Owner Federal
API No. 30-025-36962	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	35	19S	38E	2275'	FSL	2310'	FEL	Lea

Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release Oil and produced water	Volume of Release 21 barrels of water and 1 barrel of oil	Volume Recovered 10 barrels of water and 1/2 barrel of oil.
Source of Release pressure gauge on well head	Date and Hour of Occurrence 4/30/2014	Date and Hour of Discovery 4/30/2014 at 8:00 a.m.
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Geoffrey Leking (NMOCD) and Jeffery Robertson (BLM)	
By Whom? Bruce Baker	Date and Hour 4/30/2014	
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.* *depth to g H₂O 50-75*

Describe Cause of Problem and Remedial Action Taken.*
The pressure gauge on well head blew out resulting in the loss of fluid. The pressure gauge was isolated and a vacuum truck was dispatched to pick-up standing fluid.

Describe Area Affected and Cleanup Action Taken.*
The affected area was all contained on the well pad. The area was mapped and field surface samples collected. The saturated soil was back dragged with a backhoe and hauled to an NMOCD approved facility.

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>	OIL CONSERVATION DIVISION	
Printed Name: Bruce Baker	Approved by Environmental Specialist:	
Title: Environmental Technician	Approval Date: <i>7-8-14</i>	Expiration Date: <i>9-11-14</i>
E-mail Address: larry.baker@apachecorp.com	Conditions of Approval: <i>Site samples require</i>	Attached <input type="checkbox"/> <i>7-74-3153</i>
Date: 5/20/14	Phone: (432) 631-6982	

* Attach Additional Sheets If Necessary

Deliniate & remediate site as per NMOCD guidelines. Submit Form C-141 by 9-11-14

*ogrid 873
N TO 1418 954357
P TO 1418*

JUL 09 2014

Appendix B

Excavation Labs

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



May 19, 2014

BRUCE BAKER
APACHE - EUNICE
P. O. BOX 1849
EUNICE, NM 88231

RE: PLOW BOG FED #1

Enclosed are the results of analyses for samples received by the laboratory on 05/13/14 16:40.

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.

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 - EUNICE
 BRUCE BAKER
 P. O. BOX 1849
 EUNICE NM, 88231
 Fax To: 394-2425

 Received: 05/13/2014
 Reported: 05/19/2014
 Project Name: PLOW BOG FED #1
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 05/09/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: 1 FT. COMP (H401453-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	944	16.0	05/14/2014	ND	400	100	400	3.92	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/17/2014	ND	216	108	200	11.3	
DRO >C10-C28	<10.0	10.0	05/17/2014	ND	238	119	200	12.0	
<i>Surrogate: 1-Chlorooctane</i>	<i>113 %</i>	<i>65.2-140</i>							
<i>Surrogate: 1-Chlorooctadecane</i>	<i>111 %</i>	<i>63.6-154</i>							

Sample ID: PT. 2 @ 1.5' (H401453-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1340	16.0	05/14/2014	ND	400	100	400	3.92	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/17/2014	ND	216	108	200	11.3	
DRO >C10-C28	17.9	10.0	05/17/2014	ND	238	119	200	12.0	
<i>Surrogate: 1-Chlorooctane</i>	<i>108 %</i>	<i>65.2-140</i>							
<i>Surrogate: 1-Chlorooctadecane</i>	<i>112 %</i>	<i>63.6-154</i>							

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 - EUNICE
 BRUCE BAKER
 P. O. BOX 1849
 EUNICE NM, 88231
 Fax To: 394-2425

 Received: 05/13/2014
 Reported: 05/19/2014
 Project Name: PLOW BOG FED #1
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 05/09/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: PT. 3 @ 1.5' (H401453-03)
Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	05/14/2014	ND	400	100	400	3.92	

TPH 8015M **mg/kg** **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/18/2014	ND	198	99.0	200	9.70	
DRO >C10-C28	<10.0	10.0	05/18/2014	ND	227	114	200	10.0	

Surrogate: 1-Chlorooctane 105 % 65.2-140

Surrogate: 1-Chlorooctadecane 107 % 63.6-154

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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

May 28, 2014

BRUCE BAKER
APACHE - EUNICE
P. O. BOX 1849
EUNICE, NM 88231

RE: PLOW BOY FED #1

Enclosed are the results of analyses for samples received by the laboratory on 05/21/14 15:50.

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.

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,



Celey D. Keene
Lab Director/Quality Manager

Analytical Results For:

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

Received:	05/21/2014	Sampling Date:	05/21/2014
Reported:	05/28/2014	Sampling Type:	Soil
Project Name:	PLOW BOY FED #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: PT. 2 @ 2' (H401562-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	912	16.0	05/23/2014	ND	416	104	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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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



ARDINAL 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: Apache		BILL TO		ANALYSIS REQUEST											
Project Manager: Bruce Baker		P.O. #:		Chlorides TPH 8015 M BTEX Texas TPH Complete Cations/Anions TDS											
Address:		Company:													
City: Hobbs State: NM Zip: 88240		Attn:													
Phone #: Fax #:		Address:													
Project #: Project Owner:		City:													
Project Name:		State: Zip:													
Project Location: Plow Boy Fed. #1		Phone #:													
Sampler Name: Kyle Humphrey		Fax #:													
FOR LAB USE ONLY															
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS							MATRIX			PRESERV.	SAMPLING	
H401562	pt. 2 @ 2.Ft.	6	1	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	DATE	TIME				
						<input checked="" type="checkbox"/>				5-21-14	(12:00)				

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: Kyle Humphrey	Date: 5/21/14	Received By: Jodi Henson	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
	Time: 13:50		Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:		email results Bruce P. Knorman@rice-ecs.com Kjones@riceswd.com; jkamplain@rice-ecs.com hconder@rice-ecs.com; Lweinheimer@rice-ecs.com Khumphrey@rice-ecs.com sedwards@rice-ecs.com, lflores@rice-ecs.com	
Delivered By: (Circle One)	Sample Condition	CHECKED BY:		
Sampler - UPS - Bus - Other:	Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Infact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	[Signature]		

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

#54

June 19, 2014

BRUCE BAKER
APACHE - EUNICE
P. O. BOX 1849
EUNICE, NM 88231

RE: PLOW BOY FED #1

Enclosed are the results of analyses for samples received by the laboratory on 06/12/14 14:00.

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.

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,



Celey D. Keene
Lab Director/Quality Manager

Analytical Results For:

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

 Received: 06/12/2014
 Reported: 06/19/2014
 Project Name: PLOW BOY FED #1
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 06/12/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: PT. 2 @ 6' (H401798-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	06/18/2014	ND	416	104	400	0.00	

Sample ID: PT. 3 @ 6' (H401798-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	06/18/2014	ND	416	104	400	0.00	

Sample ID: PT. 3 @ 6.5' (H401798-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	06/18/2014	ND	416	104	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 06/12/2014
 Reported: 06/19/2014
 Project Name: PLOW BOY FED #1
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 06/12/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: PT. 1 @ 1.5' (H401798-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	06/18/2014	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	<10.0	10.0	06/19/2014	ND	207	104	200	7.29	
DRO >C10-C28	<10.0	10.0	06/19/2014	ND	216	108	200	8.55	
<i>Surrogate: 1-Chlorooctane</i>		<i>106 %</i>	<i>65.2-140</i>						
<i>Surrogate: 1-Chlorooctadecane</i>		<i>124 %</i>	<i>63.6-154</i>						

Sample ID: PT. 1 @ 2' (H401798-05)

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	06/18/2014	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	<10.0	10.0	06/19/2014	ND	207	104	200	7.29	
DRO >C10-C28	<10.0	10.0	06/19/2014	ND	216	108	200	8.55	
<i>Surrogate: 1-Chlorooctane</i>		<i>97.9 %</i>	<i>65.2-140</i>						
<i>Surrogate: 1-Chlorooctadecane</i>		<i>114 %</i>	<i>63.6-154</i>						

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

July 07, 2014

BRUCE BAKER

APACHE - EUNICE

P. O. BOX 1849

EUNICE, NM 88231

RE: PLOW BOY FED #1

Enclosed are the results of analyses for samples received by the laboratory on 07/01/14 11:25.

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.

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,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received:	07/01/2014	Sampling Date:	07/01/2014
Reported:	07/07/2014	Sampling Type:	Soil
Project Name:	PLOW BOY FED #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	NOT GIVEN		

Sample ID: POINT 2 @ 6.5' (H401984-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	07/03/2014	ND	400	100	400	0.00	

Sample ID: POINT 2 @ 7' (H401984-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	07/03/2014	ND	400	100	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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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 Plow Boy Federal #1

Unit Letter J, Section 35, T19S, R38E



Initial release area, facing southeast 4/30/14



Initial release area, facing east 4/30/14



Initial release area, facing southeast 4/30/14



Scraping the release, facing north 4/30/14



Hand shoveling release, facing southwest 4/30/14



Scrape to 1 ft bgs completed, facing south 6/12/14



Scrape to 1 ft bgs completed, facing west 6/12/14



Installing vertical, facing southwest 6/12/14



2014/07/23

Installing 20-mil reinforced poly liner at 1.5 ft, facing south 7/23/14



2014/07/23

Liner installation completed, facing west 7/23/14



2014/07/23

Padding liner, facing southeast 7/23/14



2014/07/23

Backfilling with imported caliche, facing southwest 7/23/14



Contouring site, facing west

7/23/14



Site completed, facing west

7/23/14



Site completed, facing southeast

7/23/14



Site completed, facing south

7/23/14

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 Street, Hobbs, NM 88240	Telephone No. (432) 631-6982
Facility Name Plow Boy Federal #1	Facility Type Oil Well
Surface Owner Apache Corporation	Mineral Owner Federal
API No. 30-025-36962	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	35	19S	38E	2275'	FSL	2310'	FEL	Lea

Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release Oil and produced water	Volume of Release 21 barrels of water and 1 barrel of oil	Volume Recovered 10 barrels of water and 1/2 barrel of oil
Source of Release pressure gauge on well head	Date and Hour of Occurrence 4/30/2014	Date and Hour of Discovery 4/30/2014 at 8:00 a.m.
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Geoffrey Leking (NMOCD) and Jeffery Robertson (BLM)	
By Whom? Bruce Baker	Date and Hour 4/30/2014	
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.*

The pressure gauge on well head blew out resulting in the loss of fluid. The pressure gauge was isolated and a vacuum truck was dispatched to pick up standing fluid.

Describe Area Affected and Cleanup Action Taken.*

A total of 1,688 square feet of the lease pad was affected. The saturated soil was scraped up and was disposed at a NMOCD approved facility. RECS personnel were on site beginning on April 30th, 2014. An initial assessment was completed at the site and then the site was scraped down to 1 ft bgs. Verticals were installed at 1 ft bgs to determine the depth of contamination. As the verticals were installed, samples were taken at regular intervals and field tested for chlorides and organic vapors. Representative samples from the verticals were taken to a commercial laboratory for analysis. Based on the laboratory analysis, the release was scraped down an additional 6 inches. All excavated soil was taken to a NMOCD approved facility for disposal. On July 23rd, 2014, a Path Forward was submitted to NMOCD and BLM. NMOCD approved the Path Forward on July 23rd, 2014. Liner installation at the site began on July 23rd, 2014. A 20-mil reinforced poly liner was installed and properly seated over Point 2 and Point 3. Clean top soil was imported to the site to pad the liner and then clean caliche was imported to the site to backfill the entire scrape. The backfilled scrape was 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>	OIL CONSERVATION DIVISION	
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:	
Date: 9-4-14	Phone: (432) 631-6982	Attached <input type="checkbox"/>