

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 (1RP-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,

JC.W.

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

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

Excavation Map

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	And the second second second second second	
Point 2 Cl- PID	GRO DRO Point 1	1
Surface 3257 235	GRO DRO Point 1 CI- PID GRO DRO $\times - \times - \times -$	- × -
0.5 FT 1272 1.3	Surface 2377 43.5	×
1 FT 1067 2.3	0.5 FT 706 2.8	×
1.5 FT 1340 1.5	<10 17.9 1 FT 490 2	×
2 FT 912 1.8	1.5 FT 160 1.3 <10 1	×
2.5 FT 489 1.8	2 FT 240 2.4 <10 <10 ×	×
3 FT 570 1.3	★	×
3.5 FT 481 1	*	— × I
4 FT 426 1.2	PT 3	
4.5 FT 445 2	PT 1	- /
5 FT 471 1.4		
5.5 FT 495 1.4	Doint 2	
6 FT 608 1.9 6.5 FT 272	Point 3 CI- PID GRO DRO	
7 FT 224	Surface 2493 68.6	<u> </u>
//// 224	0.5 FT 874 2.8	
Additional C	1FT 929 2.4	-3
Legend	1.5 FT 496 1.9 <10 <10	1.14
CONTROL BOX BERM	2 FT 826 1.7	-
DEADMAN DEADMAN CHAIN LI	NK FENCE 2.5 FT 826 2.3	20
	AD ELECTRIC LINE 3 FT 714 1	41
PAD/ROA	AD EDGE 3.5 FT 647 1.8	162
ELECTRICAL BOX RISER WELLHEAD SUBFACE	4 FT 552 1.3	393
	E PIPELINE 4.5 FT 542 2.4 @ 1.5 FT/20-MIL REINFORCED	1.00
	JER 5FT 415 1.6	10
× — × BARBED WIRE FENCE CHEMICA		aka
PUMPJAG	6 FT 192 1.2 Landowner: Apac	cne
CI- FIELD DATA STAIN (1,	688 sq ft) ce: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics,	632
CI- LAB DATA	S/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, stopo, and the GIS User Community	1.4
	ADACHE DLOM Eiguro 1	
	APACHE PLOW Figure 1	ЪE
	BOY FEDERAL #1	7 S
DEOC	0 25 50	
RECS	Legals: UL/J sec. 35 T-19-S R-38-E GPS date: 5/9/14 KH	
RICE ENVIRONMENTAL	LEA COUNTY. NM Drawing date: 6/20/14	
CONSULTING & SAFETY	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

MAY 2 0 2014

HOBBS OCD

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.

P TU 1418

						OPERA'			🛛 Initia	1 Rep	ort 🗌	Final Re	
		pache Corpo				Contact Bruce Baker							
		ne Eunice, N				Telephone No. (432)- 631- 6982							
Facility Na	ne Plow E	Boy Federal	#1			Facility Typ	e Oil Well				_		
Surface Ow	ner Apacl	ne Corporatio	on	Mineral	Owner	Owner Federal API No. 30-025-36962							
				LOC	ATIO	N OF REI	LEASE						
Unit Letter J	Section 35	Township 19S	Range 38E	Feet from the 2275 ⁺		/South Line FSL	Feet from the 2310'	1.000	West Line FEL		Cour		
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				NA	TURE	OF RELL	EASE						
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6-141 by 9-11-14

SUL 0 9 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/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated 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. Keine

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	Sampling Date:	05/09/2014
Reported:	05/19/2014	Sampling Type:	Soil
Project Name:	PLOW BOG FED #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

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

Chloride, SM4500Cl-B	mg	/kg	Analyze	d 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	
Surrogate: 1-Chlorooctane	113	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	111 9	% 63.6-15	4						

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

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	
Surrogate: 1-Chlorooctane	108	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	112	% 63.6-15	4						

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 whatscever 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 whoto limitation, business interruptors, loss of growths incurred by client, its subsidiaries, affiliates or successor 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. Keine

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	Sampling Date:	05/09/2014
Reported:	05/19/2014	Sampling Type:	Soil
Project Name:	PLOW BOG FED #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: PT. 3 @ 1.5' (H401453-03)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d 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	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	107	% 63.6-15	4						

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 whatscever 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 whoto limitation, business interruptors, loss of growths incurred by client, its subsidiaries, affiliates or successor 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. Keine

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

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

RDINAL 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

Company Name:	AP- ChP		1	1			120		BI	11 70					A	NAL	YSIS R	EQUEST		
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City: Hobbs																Cations/Anions			1 1	
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FOR LAB USE ONLY	Kyle Humphrey	Г	Π		MATR	XIX			SERV	SAMPLI	NG	10	TPH 8015		Texas TPH	ete				
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PLEASE NOTE: Liability and Damages. Cardina'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

analyses, no cause strong increment and environment of services measurement of the bootened management in magnetic environment of the application of the application

Relinquished By:	5/13/14 The: 40	Coli Junson	Phone Result: Yes No Add'I Findle Fax Result: Yes No Add'I Fax #: REMARKS: Lar13. Baker@apacheCorf. (DM) email results Knorman@rice-ecs.com Kjones@riceswd.com; jkamplain@rice-ecs.com hconder@rice-ecs.com;
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Time.	Sample Condition Cool Intact Ves Pres No No	Luciphaimar@rico.acs.com

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

Page 5 of 5



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/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated 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. Keine

Celey D. Keene Lab Director/Quality Manager



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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	de, SM4500Cl-B mg/kg		Analyze	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. Keine

Celey D. Keene, Lab Director/Quality Manager



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- ** 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

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 4 of 4

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VISA	RDIN	AL LI	ABO	R

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

Company Name:	Apachp		BILLTO	ANALYSIS REQUEST	
Project Manager:	Pruce Baker		P.O. #:		
Address:	v		Company:	<u>ା</u> ମୁକ୍ର	
tity: Hobbs	State: NM	Zip: 88240	Attn:	llorides H 8015 M BTEX cas TPH Cations/Anions TDS	
hone #:	Fax #:		Address:	- A	
roject #:	Project Owner		City:	Chlorides TPH 8015 M BTEX Texas TPH ete Cations// TDS	
roject Name:		1	State: Zip:	Chlorides PH 8015 N BTEX Texas TPH Texas TPH TDS TDS	
roject Location:	PLOW BOY F	ed. #1	Phone #:	hloride BTEX BTEX xas TF xas TF TDS TDS	
ampler Name: }			Fax #: PRESERV. SAMPLING		
FOR LABUSE ONLY		MATRIX	PRESERV. SAMPLING		
Lab I.D.	Sample I.D. P.t. 2 @ 2.Ft.	 (G)RAB OR (C)OM # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL 	ACIDIGE OTHER: ACIDIBASE: ACIDIBA	Complete	
	The Warth				
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service. In no event shall Cardinal be liable for incidental or or alidiales 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: MAZO AMM	Ting . 50 And Henson	Phone Result: Yes No Add'l Phone #: Fax Result: Yes No Add'l Fax #: REMARKS:
Relinquished By:	Date: Received By: Time:	email results Knorman@rice-ecs.com Kjones@riceswd.com; jkamplain@rice-ecs.com hconder@rice-ecs.com;
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Sample Condition CHECKED By Cool mact (In Hass	Lweinheimer@rice-ecs.com Khumphrey@rice-ecs.com sedwards@rice-ecs.com,lflores@rice-ecs.com

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-24-6



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/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated 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. Keine

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	Sampling Date:	06/12/2014
Reported:	06/19/2014	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 @ 6' (H401798-01)

Chloride, SM4500Cl-B	e, SM4500Cl-B mg/kg		Analyze	d 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, SM4500Cl-B mg/kg		Analyze	d 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, SM4500Cl-B mg/kg		Analyze	d 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. Keine

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	Sampling Date:	06/12/2014
Reported:	06/19/2014	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. 1 @ 1.5' (H401798-04)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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		Analyze	d 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		
Surrogate: 1-Chlorooctane	106	% 65.2-14	0							
Surrogate: 1-Chlorooctadecane	124	% 63.6-15	4							

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

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d By: MS					RPD Qualifier
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	
Surrogate: 1-Chlorooctane	97.9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	114	% 63.6-15	4						

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keine

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

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

RDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603 (505) 202 2226 EAX (505) 203 2476 (325) 673-7001 EAX (325)673-7020

Company Name:	(505) 393-2326 FAX ((000) 000 000			-						4 70					A	NAL	YSIS	REQU	JEST		
Project Manager	die	Ker						P.0	. #:													
Address:	01.0 41 00	AL.						Cor	mpan	y:							S					
City: Hobbs		State: NM Zi	ip: {	882	40			Att	n:					1	_		Cations/Anions	1				
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Project Name:	h1. 17	Es/	-	44	1				one #	-			19	01	ŵ	F	tic	TDS				
Project Location		sy ico		++	+			-	c#:				Chlorid	00	BTEX	as	S	H				
FOR LAB USE ONLY	Kyle Humphrey		Т	Т	-	MATE	XIX	-	PRES	ERV.	SAMPLIN	NG	5	TPH 8015	ш	Texas						10
FOR LAB USE UNLT		5	- WL		~									F		F	e.					
Lab I.D.	Sample I.D		BRAB OR (C)	# CONTAINERS	GROUNDWATER WASTEWATER	SOIL	OIL SI UDGE	DTHER:	ACID/BASE:	OTHER:	DATE	TIME					Complete					
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analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unlass made in writing and received by Cardinal within 30 days alter completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,

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: Kalp pure Relinquished By:	1110 2:00 L	eceived By:	Phone Result: Yes No Add'l Phone #: Fax Result: Yes No Add'l Fax #: REMARKS: email resulls Knorman@rice-ecs.com Kjones@riceswd.com; jkamplain@rice-ecs.com hconder@rice-ecs.com;
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Sample Condition CHECKED EY: Cool Intect (Initials) Pres Pres No No	Lweinheimer@rice-ecs.com Khumphrey@rice-ecs.com sedwards@rice-ecs.com,lflores@rice-ecs.com

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2406

S Page 5 of



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/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated 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. Keine

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		Analyze	d 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		/kg	Analyze	d 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. Keine

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

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

RDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603

(505) 393-2326 FAX (505) 393-24 Company Name: A D C M		BILL TO	ANALYSIS REQUEST
Company Name: APacky Project Manager: Bruch Packyr		P.O. #:	
Address:		Company:	
City: Hobbs State: NM	Zip: 88240	Attn:	
Phone #: Fax #:		Address:	
Project #: Project Owner		City:	
Project Name:		State: Zip:	
Project Location: PLOW BOG Fed.	#1	Phone #:	Chlorides Chlorides BTEX BTEX Texas TPH Texas TPH TDS TDS
Sampler Name: Kyle Humphrey		Fax #:	
FOR LAB USE ONLY	MATRIX	PRESERV. SAMPLING	Chl Chl
Lab I.D. Sample I.D. $H40198^{\circ}$ 1 Point 20 6.57+ 2 Point 20 7 ft.			

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atiliates or successors arising out of or related to the performance Relinquished By: Kulle Humphyn Relinquished By:	07te: /14 Rece	ived By:	\mathcal{M}	Phone Result: I Yes No Add'l Phone #: Fax Result: I Yes No Add'l Fax #: REMARKS: email results Knorman@rice-ecs.com Kjones@riceswd.com; jkamplain@rice-ecs.com hconder@rice-ecs.com;
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	4.6°	Sample Condition Cool Intact Yes Yes No No	CHECKED BY:	Lweinheimer@rice-ecs.com Khumphrey@rice-ecs.com sedwards@rice-ecs.com,lflores@rice-ecs.com

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

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 southeast





Initial release area, facing east

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 west 6/12/14



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



Installing vertical, facing southwest

6/12/14



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



Padding liner, facing southeast

7/23/14



Liner installation completed, facing west





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



Contouring site, facing west

7/23/14



Site completed, facing southeast

7/23/14



Site completed, facing west

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 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.

WARRAND AND A THICKNE THE AND A	almirzzagnii - <i>Katazza Millera d</i> a	anaan an a	Rele	ease Notific	atio	n and Co	orrective A	ctior	1	1497-1499-1998-1282-1998-1998-1998-1998-1998-19		28223997022237777722997777722977979797777777777
						OPERA	FOR	🗌 Initia	al Report	\boxtimes	Final Report	
		Apache Corpo		14.000.10		Contact Bruce Baker Telephone No. (432) 631-6982						
		rland Street, Boy Federal		M 88240		Telephone F Facility Typ		982				
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Surface Ow	ner Apaci	he Corporatio	on	Mineral O	wner	Federal			API No	. 30-025-:	36962]
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Unit Letter	Section	Township	Range	Feet from the	North/	South Line	Feet from the	East/	Vest Line	County		
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			Lat	itude		_ Longitud	e					
				NAT	URE	OF RELI	EASE					
Type of Relea	ase Oil and	d produced wa	iter			Volume of	Release 21 barn	els of		Recovered 1	0 barre	els of water
Source of Rel	lease press	aure sause on	well head				barrel of oil our of Occurrenc	<u>م</u>	and ½ bar	rel of oil Hour of Disc		4/30/2014
	_		wenneau			4/30/2014		0	at 8:00 a.i		Jovery	4/30/2014
Was Immedia	ate Notice C		Yes 🔲	No 🗌 Not Re	quired	If YES, To Geoffrey L	Whom? eking (NMOCD)	and Jef	fery Robert	son (BLM)		
By Whom?							our 4/30/2014					
Was a Watero	ourse Read		Yes 🖂	No		If YES, Vo	lume Impacting t	he Wate	ercourse.			
If a Watercou	rse was Im	pacted, Descri	be Fully.*			1						
Describe Cau The pressure standing fluid	gauge on w			Taken.* ng in the loss of f	luid. Tl	ie pressure ga	uge was isolated	and a v	acuum truc	, k was dispat	ched to	pick up
personnel wer Verticals were field tested fo laboratory and July 23 rd , 201- site began on	88 square fe e on site be e installed a r chlorides alysis, the re 4, a Path Fo July 23 rd , 2 rd	eet of the lease eginning on Ap at 1 ft bgs to de and organic va elease was scr orward was sul 014. A 20-mi	pad was a pril 30 th , 2 etermine th apors. Rep aped down bmitted to I reinforce	en.* affected. The satu 014. An initial as the depth of contar presentative samp a an additional 6 in NMOCD and BL d poly liner was i pported to the site	sessmer nination les from nches. A M. NM nstalled	at was completed by As the vert of the verticals All excavated ACD approv and property	eted at the site and icals were installe were taken to a c soil was taken to ed the Path Forw seated over Poin	d then the ed, samp commerce a NMC ard on J t 2 and 1	ne site was a ples were ta plas laborate DCD approv JCD approv uly 23 nd , 20 Point 3. Ch	scraped dow ken at regular ory for analy yed facility for 14. Liner in ean top soil	n to 1 f ar inter sis. Ba or disp astallati was im	t bgs. vals and used on the osal. On on at the ported to the
regulations all public health of should their op	operators a or the envir perations ha ment. In ac	are required to onment. The a ave failed to ad Idition, NMO	report and acceptance dequately CD accept	is true and comple d/or file certain re e of a C-141 repor investigate and re ance of a C-141 re	lease no t by the mediate	tifications an NMOCD ma contaminatio	d perform correct rked as "Final Re on that pose a thre	tive acti port" de at to gre	ons for rele oes not relie ound water,	ases which i eve the opera , surface wat	nay end ator of l er, hun	danger liability nan health
Signature:	Bruce	e Bah	И				OIL CONS	SERV	ATION	DIVISIO	<u>N</u>	
Printed Name:	Bruce Ba	ıker			A	Approved by I	Environmental Sp	ecialist	:			
Title: Enviror	nmental Tec	hnician			A	Approval Date	:		Expiration E	Date:		
E-mail Addres	-		orp.com		c	Conditions of .	Approval:			Attached		
Date: 9	- 4 - 1	4	Phone:	(432) 631-6982								