

APACHE CORPORATION

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

Washington 33 St. #60 (2RP-1476)

Termination Request

API 30-015-40116

Release Date: September 3rd, 2012

Unit Letter O, Section 33, Township 17S, Range 28E

Rice Environmental Consulting & Safety

P.O. Box 2948 Hobbs, NM 88241 Phone 575.393.2967

March 15th, 2013

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 Corporation Washington 33 St. #60: UL/O sec. 33 T17S R28E API No. 30-015-40116 2RP-1476

Mr. Bratcher:

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

Background and Previous Work

On September 3rd, 2012, an accidental discharge of brine water occurred at the Washington 33 St. #60. The valve on the transfer line malfunctioned during the cement job and the Q-max employee could not transfer the fluid from the pit causing the pit to run over. The standing fluid was recovered from the site. Apache submitted the initial C-141 to NMOCD on September 3rd, 2012 which was approved on January 3rd, 2013 (Appendix A). The site is located 11.5 miles west of Loco Hills, in unit letter 'O', section 33, T-17-S R-28-E in Eddy County, New Mexico. BLM records indicated the groundwater will likely be encountered at a depth of approximately 78.5 feet.

RECS personnel were on site beginning on November 6th, 2012 to initiate work at the Washington 33 St. #60. Surface samples were collected throughout the release area and representative samples were taken to a commercial laboratory for analysis (Figure 1). Laboratory results showed elevated chlorides around the well head and to the north of the well head (Appendix B).

The release area near the well head (West Scrape) was excavated to 4 ft bgs. Composite samples were taken from each wall and the bottom of the excavation and field tested for chlorides (Figure 2). The composite samples were then sent to a commercial laboratory for analysis. The laboratory results returned chloride values below 250 mg/kg for all the walls and the bottom composite except for the west wall which returned a result of 800 mg/kg. The west wall dropped from a laboratory chloride value of 72,000 mg/kg to 800 mg/kg, which is a 99% drop in chloride values.

The north area (Frac Scrape) was excavated to 2 ft bgs and samples were taken and field tested for chlorides. Representative samples from each wall and from the bottom of the excavation were taken to a commercial laboratory for analysis of chlorides. All samples returned results below 250 mg/kg. Both excavations were backfilled with clean, imported soil. Photo documentation of these activities can be found in Appendix C.

2005 yards of contaminated soil was removed from excavated areas on the lease pad. Therefore, Apache submits the final C-141 (Appendix D) and respectfully requests the closure of the regulatory file for this site.

RECS appreciates the opportunity to work with you on this project. Please call Hack Conder at (575) 631-6432 below if you have any questions or wish to discuss the site.

Sincerely,

Lara Weinheimer

JC.W.

Project Scientist

RECS

(575) 441-0431

Attachments:

Figure – Site Map

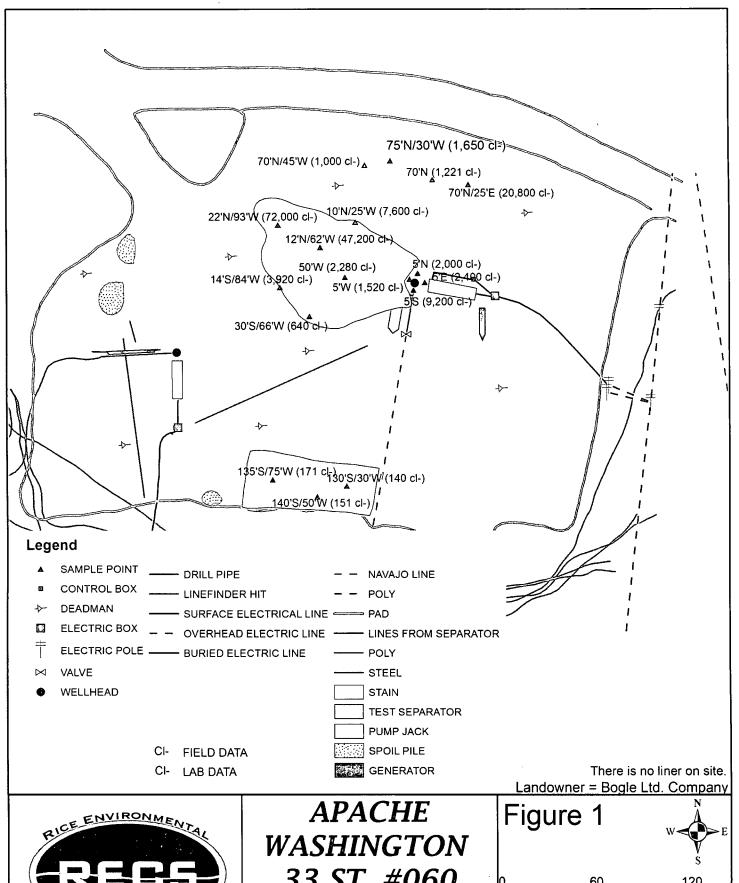
Appendix A – Initial C-141

Appendix B – Laboratory Analysis

Appendix C – Photo Documentation

Appendix D – Final C-141

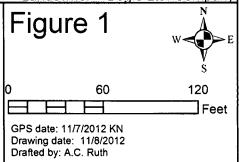
Figures

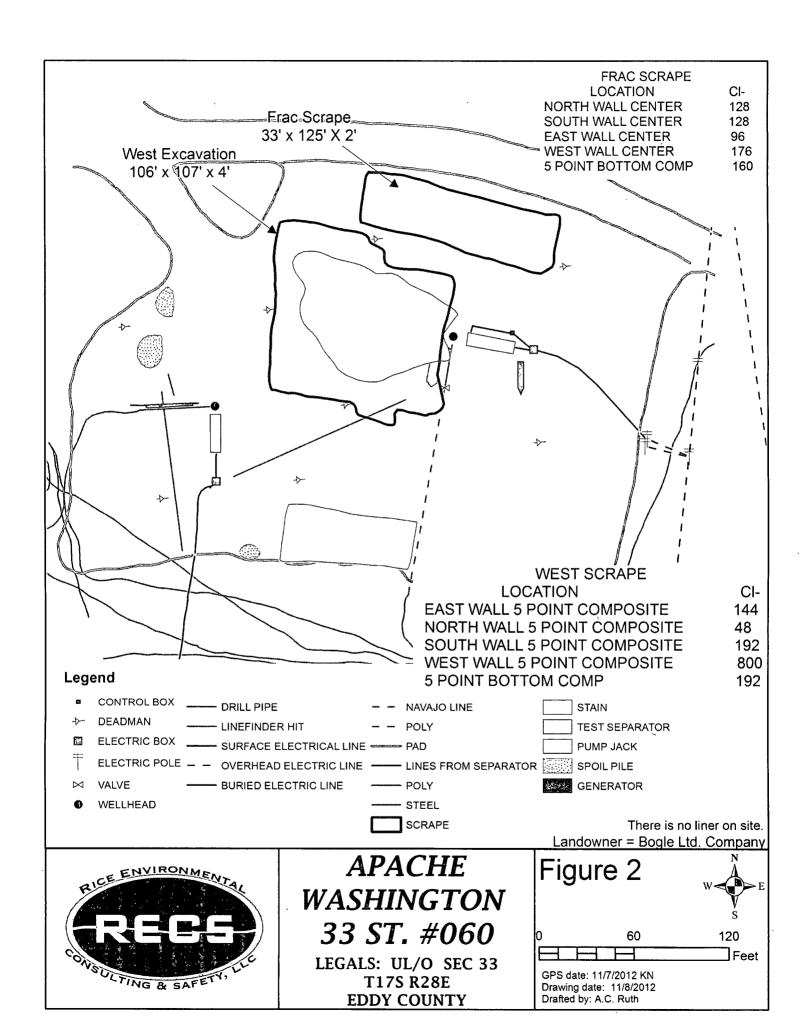




33 ST. #060

LEGALS: UL/O SEC 33 T17S R28E **EDDY COUNTY**









APACHE - EUNICE NATALIE GLADDEN P. O. BOX 1849 **EUNICE NM, 88231** Fax To: 394-2425

Received:

11/06/2012

Reported:

11/12/2012

Project Name: Project Number: WASHINGTON 33 STATE #060 NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

11/06/2012

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: PT. 1 (H202708-01)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2012	ND	1.74	87.2	2.00	9.45	
Toluene*	<0.050	0.050	11/09/2012	ND	1.98	98.8	2.00	9.70	
Ethylbenzene*	< 0.050	0.050	11/09/2012	ND	1.98	99.1	2.00	10.2	
Total Xylenes*	< 0.150	0.150	11/09/2012	ND	6.03	101	6.00	9.53	
Total BTEX	<0.300	0.300	11/09/2012	ND					
Surrogate: 4-Bromofluorobenzene (PID	119 %	6 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1520	16.0	11/08/2012	ND	384	96.0	400	4.08	
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	11/08/2012	ND	189	94.5	200	4.87	
DRO >C10-C28	736	10.0	11/08/2012	ND	204	102	200	9.18	
Surrogate: 1-Chlorooctane	88.0 9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	95.8 9	% 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 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.

Celay & Keene



APACHE - EUNICE NATALIE GLADDEN P. O. BOX 1849 **EUNICE NM, 88231** Fax To: 394-2425

Received:

11/06/2012

Reported:

11/12/2012

Project Name: Project Number: WASHINGTON 33 STATE #060

NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

11/06/2012

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: PT. 2 (H202708-02)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2012	ND	1.74	87.2	2.00	9.45	
Toluene*	<0.050	0.050	11/09/2012	ND	1.98	98.8	2.00	9.70	
Ethylbenzene*	<0.050	0.050	11/09/2012	ND	1.98	99.1	2.00	10.2	
Total Xylenes*	<0.150	0.150	11/09/2012	ND	6.03	101	6.00	9.53	
Total BTEX	<0.300	0.300	11/09/2012	ND					
Surrogate: 4-Bromofluorobenzene (PIE	120 %	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2000	16.0	11/09/2012	ND	384	96.0	400	4.08	
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	11/08/2012	ND	189	94.5	200	4.87	
DRO >C10-C28	83.3	10.0	11/08/2012	ND	204	102	200	9.18	
Surrogate: 1-Chlorooctane	87.3	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	99.8	% 63.6-15	4	-					

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*=Accredited Analyte

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Celay D. Keine



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

Received:

11/06/2012

Sampling Date:

11/06/2012

Reported:

11/12/2012

Sampling Type:

Soil

Project Name:

WASHINGTON 33 STATE #060

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: PT. 3 (H202708-03)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2012	ND	1.74	87.2	2.00	9.45	
Toluene*	<0.050	0.050	11/09/2012	ND	1.98	98.8	2.00	9.70	
Ethylbenzene*	<0.050	0.050	11/09/2012	ND	1.98	99.1	2.00	10.2	
Total Xylenes*	<0.150	0.150	11/09/2012	ND	6.03	101	6.00	9.53	
Total BTEX	<0.300	0.300	11/09/2012	ND					
Surrogate: 4-Bromofluorobenzene (PIL	122 9	6 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2040	16.0	11/09/2012	ND	384	96.0	400	4.08	
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	11/08/2012	ND	189	94.5	200	4.87	
DRO >C10-C28	41.6	10.0	11/08/2012	ND	204	102	200	9.18	
Surrogate: 1-Chlorooctane	90.3	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	101 9	63.6-15	4						

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*=Accredited Analyte

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Celeg & Keine



APACHE - EUNICE NATALIE GLADDEN P. O. BOX 1849 **EUNICE NM, 88231** Fax To: 394-2425

Received:

11/06/2012

Sampling Date:

11/06/2012

Reported:

11/12/2012

Sampling Type:

Soil

Project Name:

WASHINGTON 33 STATE #060

Project Number:

NONE GIVEN

Sampling Condition:

Cool & Intact

Project Location:

NOT GIVEN

104%

63.6-154

Sample Received By:

Jodi Henson

Sample ID: PT. 4 (H202708-04)

BTEX 8021B	mg/	′kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2012	ND	1.74	87.2	2.00	9.45	
Toluene*	<0.050	0.050	11/09/2012	ND	1.98	98.8	2.00	9.70	
Ethylbenzene*	<0.050	0.050	11/09/2012	ND	1.98	99.1	2.00	10.2	
Total Xylenes*	< 0.150	0.150	11/09/2012	ND	6.03	101	6.00	9.53	
Total BTEX	<0.300	0.300	11/09/2012	ND					
Surrogate: 4-Bromofluorobenzene (PIL	119	% 89.4-12	6						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM			,		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9200	16.0	11/09/2012	ND	384	96.0	400	4.08	
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	11/08/2012	ND	189	94.5	200	4.87	
DRO >C10-C28	51.9	10.0	11/08/2012	ND	204	102	200	9.18	
Surrogate: 1-Chlorooctane	90.6	% 65.2-14	0						

Sample ID: PT. 5 (H202708-05)

Surrogate: 1-Chlorooctadecane

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	47200	16.0	11/09/2012	ND	384	96.0	400	4.08	

Cardinal Laboratories

*=Accredited Analyte

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Celeg To Keene



APACHE - EUNICE NATALIE GLADDEN P. O. BOX 1849 **EUNICE NM, 88231** Fax To: 394-2425

Received:

11/06/2012

Sampling Date:

11/06/2012

Reported:

Chloride, SM4500CI-B

11/12/2012

Sampling Type:

Soil

Project Name:

WASHINGTON 33 STATE #060

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

mg/kg

Sample Received By:

Jodi Henson

Sample ID: PT. 6 (H202708-06)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	72000	16.0	11/09/2012	ND	384	96.0	400	4.08	
Sample ID: PT. 7 (H202708-0	07)								
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride ·	3920	16.0	11/09/2012	ND	432	108	400	0.00	
Sample ID: PT. 8 (H202708-0	08)								
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	11/09/2012	ND	432	108	400	0.00	
Sample ID: PT. 9 (H202708-	09)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
. Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2280	16.0	11/09/2012	ND	432	108	400	0.00	
Sample ID: PT. 13 (H202708	-10)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

Analyzed By: HM

Cardinal Laboratories

Chloride

*=Accredited Analyte

0.00

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11/09/2012

ND

432

108

400

Celeg & Keene

Celey D. Keene, Lab Director/Quality Manager

7600

16.0



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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name	. Apache										81	LL TO						Α	NAL	YSIS	RE	QUES	ST			
Project Manager	Natalie Gladden							P.	0. #	:																
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PLEASE NOTE: Liability an analyses, All daims includir service, in no event shall Co	d Danages. Cardinal's liability and clien g those for negligence and any other ca ardinal be liable for incidental or consequ g out of or related to the performance of	use whatsoever shall be o rental damages, including	leeme: withou	d waive It limite	d unle tion, t	ess'made in business inti	watin mopti	g and resions, loss	rived b of use,	y Care or lose	knal w s of pr	ithin 30 days alte ofits incurred by	er completion of client, its subsid	the applic	able											
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† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

1126



November 12, 2012

NATALIE GLADDEN

APACHE - EUNICE

P. O. BOX 1849

EUNICE, NM 88231

RE: WASHINGTON 33 STATE #060

Enclosed are the results of analyses for samples received by the laboratory on 11/07/12 16:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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 accredited 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.

Celey D. Keine

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



APACHE - EUNICE NATALIE GLADDEN P. O. BOX 1849 **EUNICE NM, 88231** Fax To: 394-2425

Received:

11/07/2012

Reported:

11/12/2012

Project Name:

WASHINGTON 33 STATE #060

Project Number:

Analyte

NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

11/07/2012

Sampling Type:

Soil

Sampling Condition: Sample Received By: ** (See Notes)

Jodi Henson

Sample ID: PT. 15 (H202715-01)

Chloride, SM4500CI-B

mg/kg

Analyzed By: HM

Result

Reporting Limit Analyzed

Method Blank

BS

% Recovery True Value QC

RPD

0.00

Qualifier

Chloride

Chloride

1650

Result

20800

16.0

Reporting Limit

16.0

11/09/2012

Analyzed

ND

ND

432

BS

108

400

Sample ID: PT. 16 (H202715-02)

Chloride, SM4500CI-B Analyte

mg/kg

Analyzed By: HM

Method Blank 11/09/2012

432

108

% Recovery

True Value QC 400

RPD 0.00 Qualifier

Cardinal Laboratories

*=Accredited Analyte

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Clay & Keene

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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Celeg & Keene

ARDINAL LABORATORIES

Apache Project Manager: Natalie Gladden

Company Name:

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ANALYSIS REQUEST

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

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BILL TO

P.O. #:

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



November 15, 2012

NATALIE GLADDEN

APACHE - EUNICE

P. O. BOX 1849

EUNICE, NM 88231

RE: WASHINGTON 33 STATE #060

Enclosed are the results of analyses for samples received by the laboratory on 11/13/12 16:22.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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 accredited 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.

Celeg D. Keene

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



APACHE - EUNICE NATALIE GLADDEN P. O. BOX 1849 **EUNICE NM, 88231** Fax To: 394-2425

Received: Reported: 11/13/2012

11/15/2012

WASHINGTON 33 STATE #060

Project Number: Project Location:

Project Name:

NONE GIVEN NOT GIVEN

Sampling Date:

Sampling Type:

Soil

Sampling Condition: Sample Received By: ** (See Notes) Jodi Henson

11/13/2012

Sample ID: NORTH WALL CENTER (H202755-01)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	11/14/2012	ND	416	104	400	3.92	
Sample ID: SOUTH WALL	. CENTER (H20)2755-02)							
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	11/14/2012	ND	416	104	400	3.92	
			11/14/2012	ND	416	104	400	3.92	
Sample ID: EAST WALL C		755-03)	11/14/2012 Analyze		416	104	400	3.92	
Sample ID: EAST WALL C	ENTER (H2027	755-03)			416 BS	104 % Recovery	400 True Value QC	3.92 RPD	Qualifier
Chloride Sample ID: EAST WALL Control Chloride, SM4500CI-B Analyte Chloride	ENTER (H2027	755-03) /kg	Analyze	d By: AP					Qualifier
Sample ID: EAST WALL Control of the	ENTER (H2027 mg, Result 96.0	755-03) /kg Reporting Limit 16.0	Analyze Analyzed	d By: AP Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sample ID: EAST WALL Control of the	ENTER (H2027 mg, Result 96.0	755-03) /kg Reporting Limit 16.0	Analyze Analyzed	d By: AP Method Blank ND	BS	% Recovery	True Value QC	RPD	Qualifier
Sample ID: EAST WALL C Chloride, SM4500CI-B Analyte Chloride	ENTER (H2027 mg, Result 96.0 CENTER (H202	755-03) /kg Reporting Limit 16.0	Analyzed Analyzed 11/14/2012	d By: AP Method Blank ND	BS	% Recovery	True Value QC	RPD	Qualifier Qualifier

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Keene

Celey D. Keene, Lab Director/Quality Manager



APACHE - EUNICE NATALIE GLADDEN P. O. BOX 1849 **EUNICE NM, 88231** Fax To: 394-2425

Received:

11/13/2012

Sampling Date:

11/13/2012

Reported:

11/15/2012

Sampling Type:

Soil

Project Name:

WASHINGTON 33 STATE #060

Sampling Condition:

** (See Notes)

Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sample Received By:

Jodi Henson

Sample ID: 5 PT. BOTTOM COMP (H202755-05)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	11/14/2012	ND	416	104	400	3.92	

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Celeg D. Kena



Notes and Definitions

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RPD Relative Percent Difference

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*** Insufficient time to reach temperature.

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Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Keene

ARDINAL LABORATORIES

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	Apaciic						137	#BI	LL TO	d with the	į			,	ANAL	YSIS	RE	QUE	ST		*	
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FOR LAB USE ONLY					MATR	IX	PRE	SERV	SAMPL	ING	O	TPH		Ге	te							
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER WASTEWATER	SOIL	SLUDGE OTHER	ACID/BASE:	ICE / COOL OTHER:	DATE	TIME	,	,			Complete							
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[†] Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



November 19, 2012

NATALIE GLADDEN

APACHE - EUNICE

P. O. BOX 1849

EUNICE, NM 88231

RE: WASHINGTON 33 STATE #060

Enclosed are the results of analyses for samples received by the laboratory on 11/15/12 16:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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 accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited 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.

Celes D. Keine

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



APACHE - EUNICE NATALIE GLADDEN P. O. BOX 1849 **EUNICE NM, 88231** 394-2425 Fax To:

Received:

Chloride, SM4500CI-B

11/15/2012

Sampling Date:

11/15/2012

Reported:

11/19/2012

Sampling Type:

Soil

Project Name:

WASHINGTON 33 STATE #060

Sampling Condition: Sample Received By:

** (See Notes) Jodi Henson

Project Number:

WEST SCRAPE

mg/kg

Project Location:

NOT GIVEN

Sample ID: E WALL 5 PT. COMP (H202781-01)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	11/16/2012	ND	432	108	400	0.00	
Sample ID: N WALL 5 PT.	COMP (H202	781-02)							
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/16/2012	ND	432	108	400	0.00	
Sample ID: S WALL 5 PT.	COMP (H2027	781-03)							
Chloride, SM4500CI-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	11/16/2012	ND	432	108	400	0.00	
Sample ID: 5 PT. BTTM C	OMP (H20278	1-04)							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	11/16/2012	ND	432	108	400	0.00	

Analyzed By: HM

Cardinal Laboratories

*=Accredited Analyte

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Celay Di Keene



ND

Notes and Definitions

RPD Relative Percent Difference

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*** Insufficient time to reach temperature.

- Chloride by SM4500CI-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

Analyte NOT DETECTED at or above the reporting limit

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Keene



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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: Apache									BILL TO									ANAL	_Y 515	KE!	QUES	<u> </u>				
Project Manager: Natalie Gladden									Р.	0. #	:	***************************************		and the second second												
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Relinquished B	y:	Date:	Re	cei	ved	By:	·							email	il results Natalie.Gladden@usa.apachecorp.com											
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Sampler - UPS - Bus - Other: 2 1							(Initials) Lweir						inheimer@rice-ecs.com													

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



November 19, 2012

NATALIE GLADDEN

APACHE - EUNICE

P. O. BOX 1849

EUNICE, NM 88231

RE: WASHINGTON 33 STATE #060

Enclosed are the results of analyses for samples received by the laboratory on 11/15/12 16:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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 accredited 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.

Celes D. Keene

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



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

Received:

11/15/2012

Sampling Date:

11/14/2012

Reported:

11/19/2012

Sampling Type:

Soil

Project Name:

WASHINGTON 33 STATE #060

Sampling Condition:

** (See Notes)

Project Number:

WEST SCRAPE

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: WEST WALL 5 PT. COMP (H202782-01)

Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	11/16/2012	ND	432	108	400	0.00	

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever 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, whithout limitation, business interruptions, loss of or profits incurred by client, its subsidiaries, affiliables 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 & Keene



ND

Notes and Definitions

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

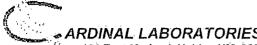
Samples reported on an as received basis (wet) unless otherwise noted on report

Analyte NOT DETECTED at or above the reporting limit

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 finited 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



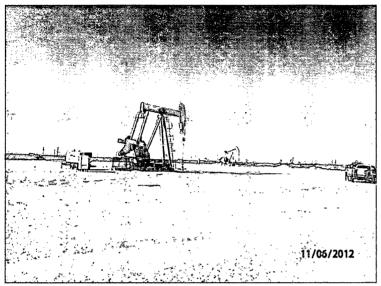
CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

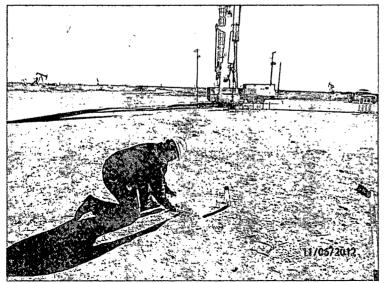
Company Name: Apache								Т		<u>-</u>	BI	LL TO		ANALYSIS REQUEST											
Project Manager: Natalie Gladden								j	P.O.	#:															
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Appendix C Photo Documentation

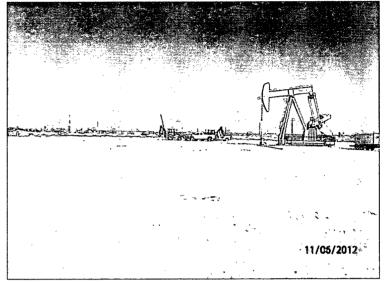
Apache Washington 33 St. #60Unit Letter O, Section 33, T17S, R28E



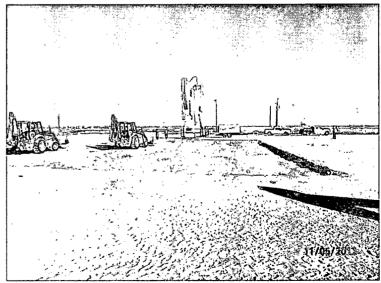
11/6/12 Initial site photo, facing southwest



11/6/12 Collecting surface sample, facing east

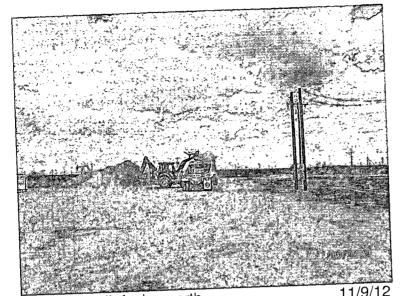


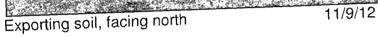
Initial site photo, facing north 11/6/12

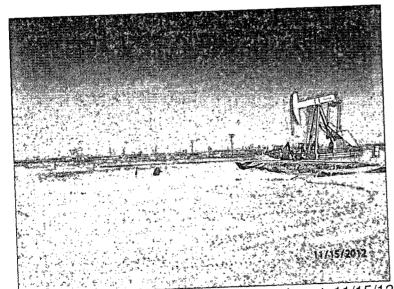


Scraping near well head, facing east

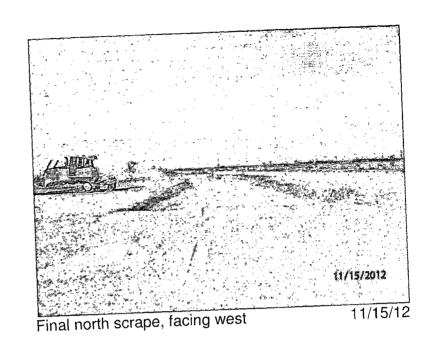
11/6/12

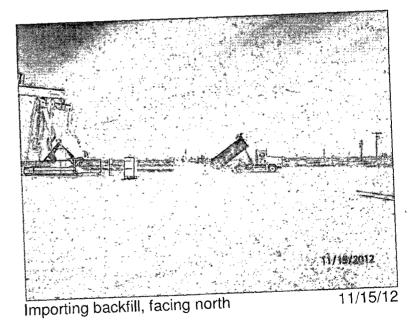






Final scrape near well head, facing northeast 11/15/12





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 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 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

RECEIVED OCT 28 2013

Form C-141 Revised October 10, 2003

NMOCD ARTESIA Copies to appropriate

District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action OPERATOR Initial Report Final Report Contact Larry Bruce Baker Name of Company Apache Corporation Address PO Box 1849, Eunice, NM 88231 Telephone No. (432) 631-6982 Facility Name Washington 33 St. #60 Facility Type Producing well Mineral Owner State 30-015-40116 Surface Owner Bogle Ltd. Company Lease No. LOCATION OF RELEASE Feet from the North/South Line Feet from the Unit Letter Section Township Range East/West Line County 0 33 17S 28E 855' **FSL** 2375' **FEL** Eddy Latitude Longitude NATURE OF RELEASE Type of Release Brine Water Volume of Release 15 Volume Recovered Source of Release Valve Date and Hour of Occurrence Date and Hour of Discovery 9/3/12 9/3/12 If YES, To Whom? Was Immediate Notice Given? Mike Bratcher By Whom? Natalie Gladden Date and Hour 9/4/12 9:07am If YES, Volume Impacting the Watercourse. Was a Watercourse Reached? Yes No If a Watercourse was Impacted, Describe Fully.* Describe Cause of Problem and Remedial Action Taken.* Valve on the transfer line malfunctioned during the cement job and the Q-max employee could not transfer the fluid from the pit and the pit ran over. The standing fluid was recovered. Describe Area Affected and Cleanup Action Taken.* RECS personnel were on site beginning on November 6th, 2012 to initiate work at the Washington 33 St. #60. Surface samples were collected throughout the release area and representative samples were taken to a commercial laboratory for analysis. Laboratory results showed elevated chlorides around the well head and to the north of the well head. The release area near the well head (West Scrape) was excavated to 4 ft bgs. Composite samples were taken from each wall and the bottom of the excavation and field tested for chlorides. The composite samples were then sent to a commercial laboratory for analysis. The laboratory results returned chloride values below 250 mg/kg for all the walls and the bottom composite except for the west wall which returned a result of 800 mg/kg. The west wall dropped from a laboratory chloride value of 72,000 mg/kg to 800 mg/kg, which is a 99% drop in chloride values. The north area (Frac Scrape) was excavated to 2 ft bgs and samples were taken and field tested for chlorides. Representative samples from each wall and from the bottom of the excavation were taken to a commercial laboratory for analysis of chlorides. All samples returned results below 250 mg/kg. Both excavations were backfilled with clean, imported soil. 2005 yards of contaminated soil was removed from excavated areas on the lease pad. 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. OIL CONSERVATION DIVISION Larry Bruce Baher Signature: Approved by District Supervisor: Printed Name: Larry Bruce Baker Title: Environmental Tech Approval Date: Expiration Date: E-mail Address: larry.baker@apachecorp.com Conditions of Approval: Attached 10-21-13

Phone: (432) 631-6982

Attach Additional Sheets If Necessary