



EXPLORING WHAT'S POSSIBLE

APACHE CORPORATION

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

Lee Federal #70
(2RP-2388)

Termination Request

API No. 30-015-41112

Release Date: June 27th, 2014

Section 20, Township 17S, Range 31E

November 20th, 2014

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 Lee Federal #70 (2RP-2388)
UL/I sec. 20 T17S R31E
API No. 30-015-41112**

Mr. Bratcher:

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

Background and Previous Work

The site is located approximately 5.4 miles east of Loco Hills, New Mexico at UL/I sec. 20 T17S R31E. This site is in an area of no known groundwater.

On June 27th, 2014, Apache discovered a release of 2 barrels of oil and 5 barrels of produced water coming from the well head. A cow had opened the 1 inch valve below the well head allowing the release. The valve was shut and the handle removed to prevent future incidents of this nature. The release covered 1,085 square feet of lease pad. A vacuum truck was called to the site and recovered 4 barrels of fluid. An initial C-141 was sent NMOCD on July 22nd, 2014, and approved on July 24th, 2014 (Appendix A).

RECS personnel were on site beginning on June 30th, 2014, to begin site activities. Two points within the release area were sampled at the surface and at 1 ft bgs (Figure 1). The soil samples were field tested for chlorides and organic vapors, and all four samples were taken to a commercial laboratory for analysis. Point 1 returned a laboratory chloride reading of 432 mg/kg at the surface and 48 mg/kg at 1 ft bgs. Gasoline Range Organics (GRO) readings at Point 1 returned a value of 1,250 mg/kg at the surface and a value of non-detect at 1 ft bgs. Diesel Range Organics (DRO) readings at Point 1 returned a value of 24,000 mg/kg at the surface and a value of 20.6 mg/kg at 1 ft bgs. BTEX readings at Point 1 returned values below regulatory standards at the surface and values of non-detect at 1 ft bgs. Point 2 returned a laboratory chloride reading of 496 mg/kg at the surface and 112 mg/kg at 1 ft bgs. GRO, DRO and BTEX readings at Point 2 returned values of non-detect at the surface and at 1 ft bgs, except for the DRO reading at the surface, which returned a value of 481 mg/kg (Appendix B).

Based on the laboratory readings, the site was scraped down to 1 ft bgs, where initial sampling data showed that all constituents would be below regulatory standards (Figure 2). All excavated soil was taken to a NMOCD approved facility for disposal. Clean caliche was imported to the site to replace the soil taken for disposal. The site was backfilled with the imported caliche and contoured to the surrounding location.

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

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

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

Sincerely,

A handwritten signature in dark ink, appearing to read 'J.C.W.' followed by a stylized flourish.

Lara Weinheimer
Project Scientist
RECS
(575) 441-0431

Attachments:

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

Figures

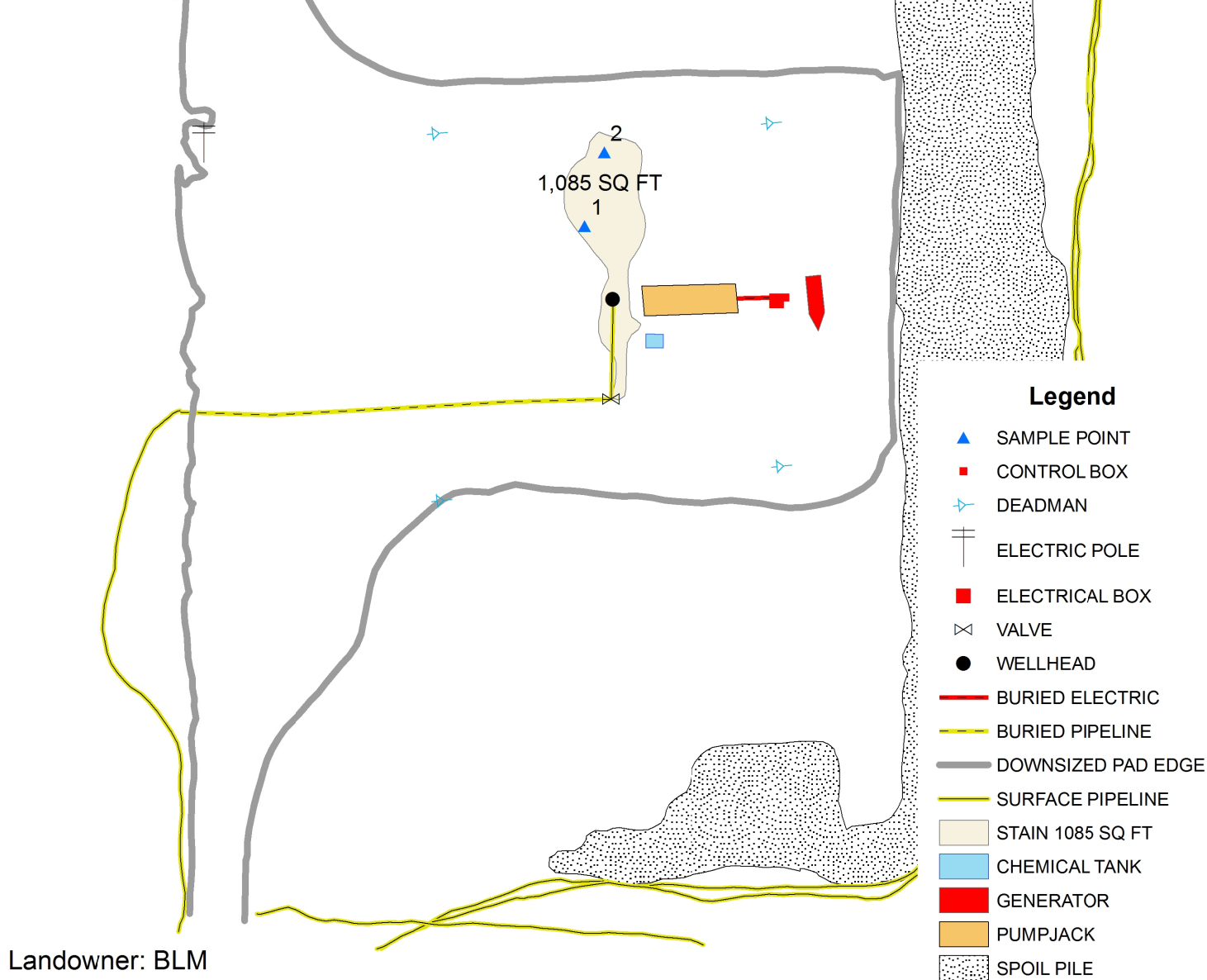
Initial Sampling Data

SAMPLE POINT 1

DEPTH	CI-	PID	GRO	DRO	B	T	E	X	TOTAL BTEX
SS	432	677	1250	24000	<1.00	2.15	17.2	27.4	46.7
1'	48	273	<10.0	20.6	<0.050	<0.050	<0.050	<0.150	<0.300

SAMPLE POINT 2

DEPTH	CI-	PID	GRO	DRO	B	T	E	X	TOTAL BTEX
SS	496	101	<10.0	481	<0.050	<0.050	<0.050	<0.150	<0.300
1'	112	24	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300



Landowner: BLM
Groundwater: None

**APACHE
LEE FEDERAL #70**

UL I SECTION 20
T-17-S R-31-E
EDDY COUNTY, NM

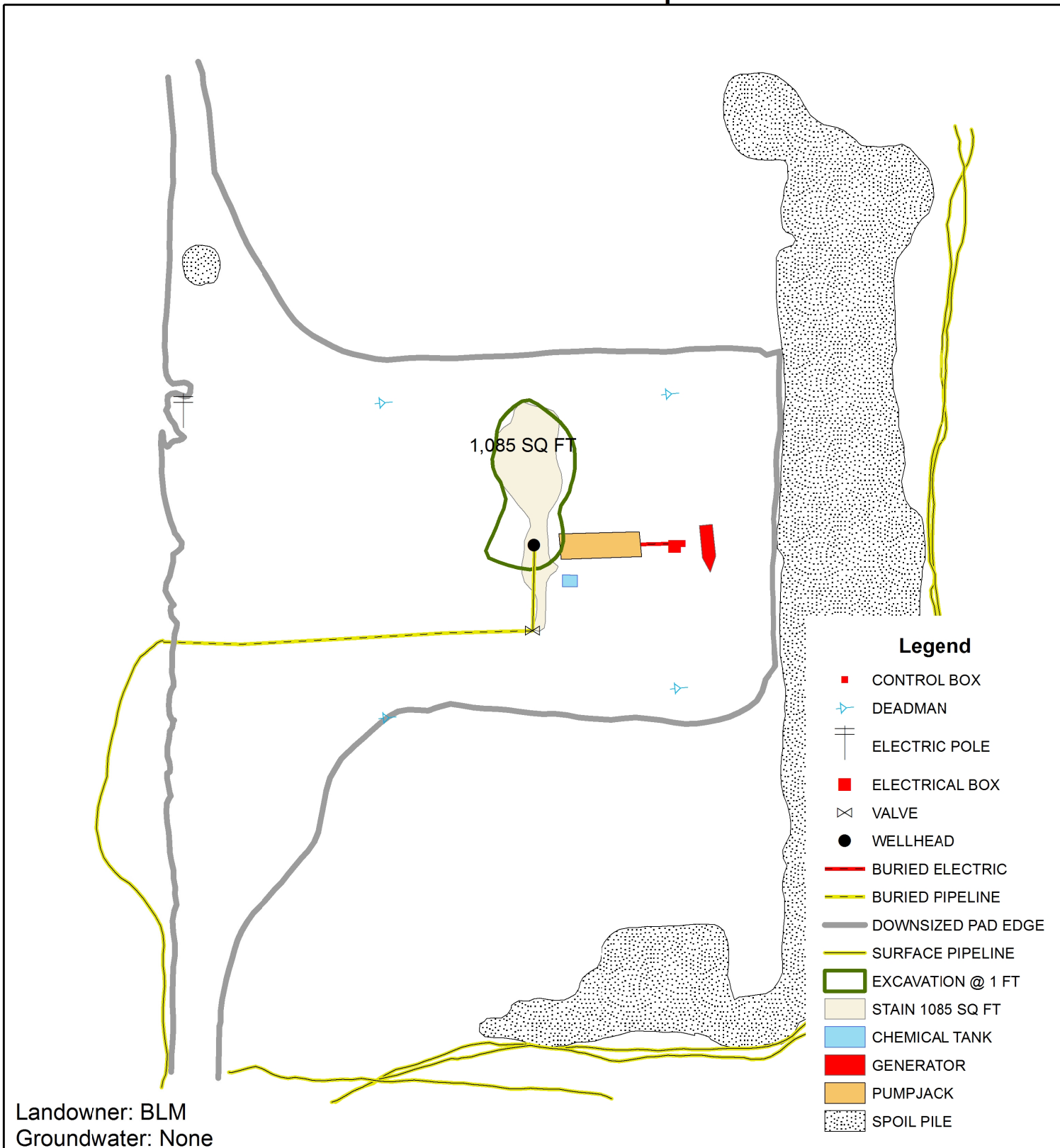
Figure 1



0 50 100
Feet

GPS date: 1/31/14 TG, 6/30/14 KH
Drawing date: 7/1/14
Drafted by: T. Grieco

Excavation Map



**APACHE
LEE FEDERAL #70**

UL I SECTION 20
T-17-S R-31-E
EDDY COUNTY, NM

Figure 2



0 50 100
Feet

GPS date: 1/31/14 TG, 7/11/14 KH
Drawing date: 7/14/14
Drafted by: T. Grieco

Appendix A

Initial C-141

NM OIL CONSERVATION
ARTESIA DISTRICT

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

JUL 22 2014

Form C-141
Revised August 8, 2011

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

RECEIVED

Release Notification and Corrective Action

NAB1420527240

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	Apache Corporation	873	Contact	Bruce Baker
Address	2350 W Marland Blvd Hobbs New Mexico 88240		Telephone No.	432-631-6982
Facility Name	Lee Federal # 70		Facility Type	Oil Well

Surface Owner	Federal	Mineral Owner		API No.	30-015-41112
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
	20	17S	31E	2260'	FSL	990'	FEL	Eddy

Latitude 37.81624 Longitude 103.8865524

NATURE OF RELEASE

Type of Release	oil and produced water	Volume of Release	2 barrels of oil and 5 barrels of water	Volume Recovered	4 barrels of total fluid.
Source of Release	Well head	Date and Hour of Occurrence	6/27/2014 at 2:30 p.m.	Date and Hour of Discovery	6/27/2014 at 2:30 p.m.
Was Immediate Notice Given?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?			
By Whom?		Date and Hour			
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
A cow rubbed up against the valve handle on 1 inch valve below the well head pressure gauge opening the valve. The valve was shut and the valve handle was removed from the valve.

Describe Area Affected and Cleanup Action Taken.*
The entire release was contained on the lease pad approximately 2,000 square feet. A vacuum truck was dispatched to pick-up standing fluid. The release area was mapped and samples were collected at surface and 1 foot below ground surface and taken to a commercial laboratory for analysis.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: <u>Bruce Baker</u>	OIL CONSERVATION DIVISION	
Printed Name: Bruce Baker	Approved by Environmental Specialist:	<u>[Signature]</u>
Title: Environmental Technician	Approval Date: <u>7/24/14</u>	Expiration Date: <u>NA</u>
E-mail Address: larry.baker@apachecorp.com	Conditions of Approval: remediation per UCD Rule & Guidelines, & like approval by BLM. SUBMIT REMEDIATION	Attached <input type="checkbox"/>
Date: 7/22/2014 Phone: 432-631-6982		

* Attach Additional Sheets If Necessary

PROPOSAL NO LATER THAN:

8/24/14

2RP-2388

Appendix B

Initial Laboratory Sampling

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



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

July 10, 2014

BRUCE BAKER

APACHE - EUNICE

P. O. BOX 1849

EUNICE, NM 88231

RE: LEE FEDERAL #70

Enclosed are the results of analyses for samples received by the laboratory on 07/03/14 16:45.

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: 07/03/2014
Reported: 07/10/2014
Project Name: LEE FEDERAL #70
Project Number: NOT GIVEN
Project Location: NOT GIVEN

Sampling Date: 06/30/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: PT. 1 @ SURFACE (H402043-01)

BTX 8021B		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	07/08/2014	ND	1.85	92.6	2.00	7.12	
Toluene*	2.15	1.00	07/08/2014	ND	1.94	97.2	2.00	7.57	
Ethylbenzene*	17.2	1.00	07/08/2014	ND	1.72	86.2	2.00	8.12	
Total Xylenes*	27.4	3.00	07/08/2014	ND	5.35	89.2	6.00	7.60	
Total BTX	46.7	6.00	07/08/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 141 % 89.4-126

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	07/09/2014	ND	400	100	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1250	100	07/08/2014	ND	190	95.1	200	0.320	
DRO >C10-C28	24000	100	07/08/2014	ND	199	99.7	200	4.31	

Surrogate: 1-Chlorooctane 209 % 65.2-140

Surrogate: 1-Chlorooctadecane 615 % 63.6-154

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: 07/03/2014
Reported: 07/10/2014
Project Name: LEE FEDERAL #70
Project Number: NOT GIVEN
Project Location: NOT GIVEN

Sampling Date: 06/30/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: PT. 1 @ 1' (H402043-02)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/08/2014	ND	1.85	92.6	2.00	7.12	
Toluene*	<0.050	0.050	07/08/2014	ND	1.94	97.2	2.00	7.57	
Ethylbenzene*	<0.050	0.050	07/08/2014	ND	1.72	86.2	2.00	8.12	
Total Xylenes*	<0.150	0.150	07/08/2014	ND	5.35	89.2	6.00	7.60	
Total BTX	<0.300	0.300	07/08/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/09/2014	ND	400	100	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	07/08/2014	ND	190	95.1	200	0.320	
DRO >C10-C28	20.6	10.0	07/08/2014	ND	199	99.7	200	4.31	

Surrogate: 1-Chlorooctane 120 % 65.2-140

Surrogate: 1-Chlorooctadecane 135 % 63.6-154

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*=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: 07/03/2014
Reported: 07/10/2014
Project Name: LEE FEDERAL #70
Project Number: NOT GIVEN
Project Location: NOT GIVEN

Sampling Date: 06/30/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: PT. 2 @ SURFACE (H402043-03)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/08/2014	ND	1.85	92.6	2.00	7.12		
Toluene*	<0.050	0.050	07/08/2014	ND	1.94	97.2	2.00	7.57		
Ethylbenzene*	<0.050	0.050	07/08/2014	ND	1.72	86.2	2.00	8.12		
Total Xylenes*	<0.150	0.150	07/08/2014	ND	5.35	89.2	6.00	7.60		
Total BTX	<0.300	0.300	07/08/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 89.4-126

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	07/09/2014	ND	400	100	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	07/08/2014	ND	190	95.1	200	0.320	
DRO >C10-C28	481	10.0	07/08/2014	ND	199	99.7	200	4.31	

Surrogate: 1-Chlorooctane 114 % 65.2-140

Surrogate: 1-Chlorooctadecane 138 % 63.6-154

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*=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: 07/03/2014
Reported: 07/10/2014
Project Name: LEE FEDERAL #70
Project Number: NOT GIVEN
Project Location: NOT GIVEN

Sampling Date: 06/30/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: PT. 2 @ 1' (H402043-04)

BTX 8021B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/09/2014	ND	1.71	85.3	2.00	13.6		
Toluene*	<0.050	0.050	07/09/2014	ND	1.69	84.5	2.00	14.0		
Ethylbenzene*	<0.050	0.050	07/09/2014	ND	1.69	84.5	2.00	14.0		
Total Xylenes*	<0.150	0.150	07/09/2014	ND	5.11	85.1	6.00	13.7		
Total BTX	<0.300	0.300	07/09/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	07/09/2014	ND	400	100	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	07/08/2014	ND	190	95.1	200	0.320	
DRO >C10-C28	<10.0	10.0	07/08/2014	ND	199	99.7	200	4.31	

Surrogate: 1-Chlorooctane 122 % 65.2-140

Surrogate: 1-Chlorooctadecane 137 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Apache				BILL TO				ANALYSIS REQUEST											
Project Manager: Bruce Baker				P.O. #:				<div>Chlorides</div> <div>TPH 8015 M</div> <div>BTEX</div> <div>Texas TPH</div> <div>Complete Cations/Anions</div> <div>TDS</div>											
Address:				Company:															
City: Hobbs State: NM Zip: 88240				Attn:															
Phone #: Fax #:				Address:															
Project #: Project Owner:				City:															
Project Name:				State: Zip:															
Project Location: Lee Fed. # 70				Phone #:															
Sampler Name: Kyle Humphrey				Fax #:															
FOR LAB USE ONLY																			
Lab I.D.		Sample I.D.		(GRAB OR (COMP. # CONTAINERS		MATRIX				PRESERV.		SAMPLING							
						GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER				ACID/BASE: ICE / COOL OTHER		DATE TIME							
H402043																			
1		Point 1 @ Surface		6								6-30-14 1:00P							
2		Point 1 @ 1 ft.		6								6-30-14 1:05							
3		Point 2 @ Surface		6								6-30-14 1:10							
4		Point 2 @ 1 ft.		6								6-30-14 1:15							

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: 6/3/14		Received By: Jodi Benson		Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Add'l Phone #:	
		Time: 4:45				Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Add'l Fax #:	
Relinquished By:		Date:		Received By:		REMARKS:			
		Time:				email results Larry.Baker@apachecorp.com			
Delivered By: (Circle One)				Sample Condition		CHECKED BY: [Signature]			
Sampler - UPS - Bus - Other:				Cool Intact		Knorman@rice-ecs.com			
				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Kjones@riceswd.com; jkamplain@rice-ecs.com hconder@rice-ecs.com;			
				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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 505-393-2476

#54

Appendix C

Photo Documentation

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

Apache Lee Federal #70

Unit Letter I, Section 20, T17S, R31E



Initial site photo, facing north

6/30/14



Initial site photo, facing west

6/30/14



Initial site photo, facing south

6/30/14



Scraping release, facing southwest

7/11/14



Exporting soil, facing east

7/11/14



Scrape completed, facing north

7/11/14



Importing soil, facing north

7/11/14



Backfilling site, facing northeast

7/11/14



Site completed, facing south

10/27/14



Site completed, facing east

10/27/14

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	Lee Federal #70	Facility Type	Oil Well

Surface Owner	Federal	Mineral Owner		API No.	30-015-41112
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
	20	17S	31E	2260'	FSL	990'	FEL	Eddy

Latitude 32.819024 Longitude 103.8865524

NATURE OF RELEASE

Type of Release	oil and produced water	Volume of Release	2 barrels of oil and 5 barrels of water	Volume Recovered	4 barrels of total fluid.
Source of Release	Well head	Date and Hour of Occurrence	6/27/2014 at 2:30 p.m.	Date and Hour of Discovery	6/27/2014 at 2:30 p.m.
Was Immediate Notice Given?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?			
By Whom?	Date and Hour				
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

A cow rubbed up against the valve handle on 1 inch valve below the well head pressure gauge opening the valve. The valve was shut and the valve handle was removed from the valve.

Describe Area Affected and Cleanup Action Taken.* The release covered 1,085 square feet of lease pad. RECS personnel were on site beginning on June 30th, 2014, to begin site activities. Two points within the release area were sampled at the surface and at 1 ft bgs. The soil samples were field tested for chlorides and organic vapors, and all four samples were taken to a commercial laboratory for analysis. Point 1 returned a laboratory chloride reading of 432 mg/kg at the surface and 48 mg/kg at 1 ft bgs. Gasoline Range Organics readings at Point 1 returned a value of 1,250 mg/kg at the surface and a value of non-detect at 1 ft bgs. Diesel Range Organics readings at Point 1 returned a value of 24,000 mg/kg at the surface and a value of 20.6 mg/kg at 1 ft bgs. BTEX readings at Point 1 returned values below regulatory standards at the surface and values of non-detect at 1 ft bgs. Point 2 returned a laboratory chloride reading of 496 mg/kg at the surface and 112 mg/kg at 1 ft bgs. GRO, DRO and BTEX readings at Point 2 returned values of non-detect at the surface and at 1 ft bgs, except for the DRO reading at the surface, which returned a value of 481 mg/kg. Based on the laboratory readings, the site was scraped down to 1 ft bgs, where initial sampling data showed that all constituents would be below regulatory standards. All excavated soil was taken to a NMOC approved facility for disposal. Clean caliche was imported to the site to replace the soil taken for disposal. The site was backfilled with the imported caliche and contoured to the surrounding location.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOC 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 NMOC 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, NMOC acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: <u>Bruce Baker</u>		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:	Attached <input type="checkbox"/>
Date: <u>11-20-14</u> Phone: 432-631-6982			

* Attach Additional Sheets If Necessary