

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	8 Ellison Lane, Eunice, NM 88231	Telephone No.	(432) 631-6982
Facility Name	LG Warlick C Battery	Facility Type	Battery

Surface Owner	State	Mineral Owner		API No.	30-025-06597
---------------	-------	---------------	--	---------	--------------

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
P	15	21S	37E	1650'	FSL	2140'	FEL	Lea

Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release	Oil and produced water	Volume of Release	4 barrels of oil and 4 barrels of water	Volume Recovered	2 barrels of oil and 2 barrels of water
Source of Release	Heater Treater	Date and Hour of Occurrence	11-18-2013	Date and Hour of Discovery	11-18-2013 at 10:00 a.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.*

The Heater Treater pressured up and released fluid from the man way gasket. A vacuum truck was dispatched to pick-up fluid and the treater was isolated and man way gasket replaced.

Describe Area Affected and Cleanup Action Taken.*

All the standing fluid was contained inside battery pad and lease road. A total of 5,634 sq ft of battery lease pad and lease road was affected. RECS was on site beginning on November 18th, 2013 to assess the release. Soil samples were taken at two points within the release and field tested for chlorides and organic vapors. Based on the field data, the area within the battery was scraped down six inches and a sample of the bottom of the scrape was taken to a laboratory for analysis. The laboratory returned results of non-detect for all constituents. The area on the lease road was also scraped down 6 inches. A 5 point composite of the bottom of the scrape was taken to a commercial laboratory for analysis and returned a chloride value of 80 mg/kg, a Gasoline Range Organics (GRO) value of non-detect and a Diesel Range Organics (DRO) value of 52.4 mg/kg. The contaminated soil was taken to a NMOCD approved facility for disposal. A total of 36 yards of clean caliche was imported to the site to serve as backfill. The site was backfilled 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 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: *Bruce Baker*

Printed Name: Bruce Baker

Title: Environmental Technician

E-mail Address: larry.baker@apachecorp.com

Date: 2-3-14

Phone: (432) 631-6982

OIL CONSERVATION DIVISION

Approved by Environmental Specialist *Larry Baker*
Environmental Specialist

Approval Date: 2/12/14

Expiration Date: —

Conditions of Approval: —

Attached ☐

IRP-02-14-3018

* Attach Additional Sheets If Necessary

NSAD1416839341



EXPLORING WHAT'S POSSIBLE

APACHE CORPORATION

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

LG Warlick C Battery

Termination Request

approved
Jeffrey Sekins
Environmental Specialist
NMOCD-DIST 1
2/12/14

API 30-025-06597

Release Date: November 18th, 2013

Unit Letter P, Section 15, Township 21S, Range 37E

Rice Environmental Consulting & Safety

P.O. Box 2948, Hobbs, NM 88241

Phone 575.393.2967

January 16th, 2014

Geoffrey Leking

New Mexico Energy, Minerals, & Natural Resources

Oil Conservation Division, Environmental Bureau – District 1

1625 N. French Dr.

Hobbs, NM 88240-9273

RE: Termination Request

Apache Corporation – LG Warlick C Battery

UL/P sec. 15 T21S R37E

API No. 30-025-06597

Mr. Leking:

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 2.3 miles northeast of Eunice, New Mexico at UL/P sec. 15 T21S R37E. NM OSE and BLM records indicate that groundwater will likely be encountered at a depth of approximately 53.5 +/- feet.

On November 18th, 2013, Apache discovered a leak from a heater-treater at the LG Warlick C Battery. The heater-treater released 4 barrels of oil and 4 barrels of produced water onto 5,634 square feet of battery lease pad and lease road. A vacuum truck was called to the site and recovered 2 barrels of oil and 2 barrels of produced water. An initial C-141 was written on December 11th, 2013 and submitted to NMOCD (Appendix A).

RECS was on site beginning on November 18th, 2013 to assess the release. Soil samples were taken at two points within the release and field tested for chlorides and organic vapors (Figure 1). Based on the field data, the area within the battery was scraped down six inches and a sample of the bottom of the scrape was taken to a laboratory for analysis (Figure 2). The laboratory returned results of non-detect for all constituents (Appendix B). The area on the lease road was also scraped down 6 inches. A 5 point composite of the bottom of the scrape was taken to a commercial laboratory for analysis and returned a chloride value of 80 mg/kg, a Gasoline Range Organics (GRO) value of non-detect and a Diesel Range Organics (DRO) value of 52.4 mg/kg.

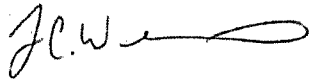
The contaminated soil was taken to a NMOCD approved facility for disposal. A total of 36 yards of clean caliche was imported to the site to serve as backfill. The site was backfilled and contoured to the surrounding location.

Photo documentation of these activities can be found in Appendix C.

Given that the contaminated soil has been removed and replaced with clean, imported caliche, 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 black ink, appearing to read 'JL.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 – Laboratory Analyses
- Appendix C – Photo Documentation
- Appendix D – Final C-141

Figures

RICE Environmental Consulting and Safety (RECS)

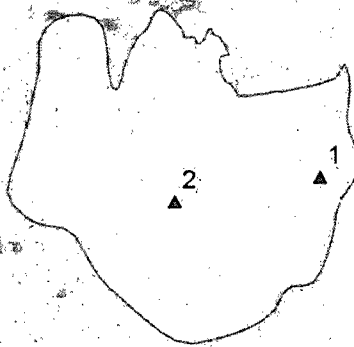
P.O. Box 2948, Hobbs, NM 88241

Phone 575.393.2967

Initial Sampling Data

Initial Field Data

	CI-	PID
Point 1 Surface	786	557
Point 2 Surface	205	202.8



Landowner: State
Lessee: William Paige McNeill
DGW: 53.5 ft

Source: Esri, DigitalGlobe, GeoEye,
Getmapping, Aerogrid, IGN, IGP, swi

Legend

- ▲ SAMPLE POINTS
- STAIN (5,634 sq ft)



APACHE LG WARLICK C TANK BATTERY

LEGALS: UL/P sec. 15
T-21-S R-37-E
LEA COUNTY, NM

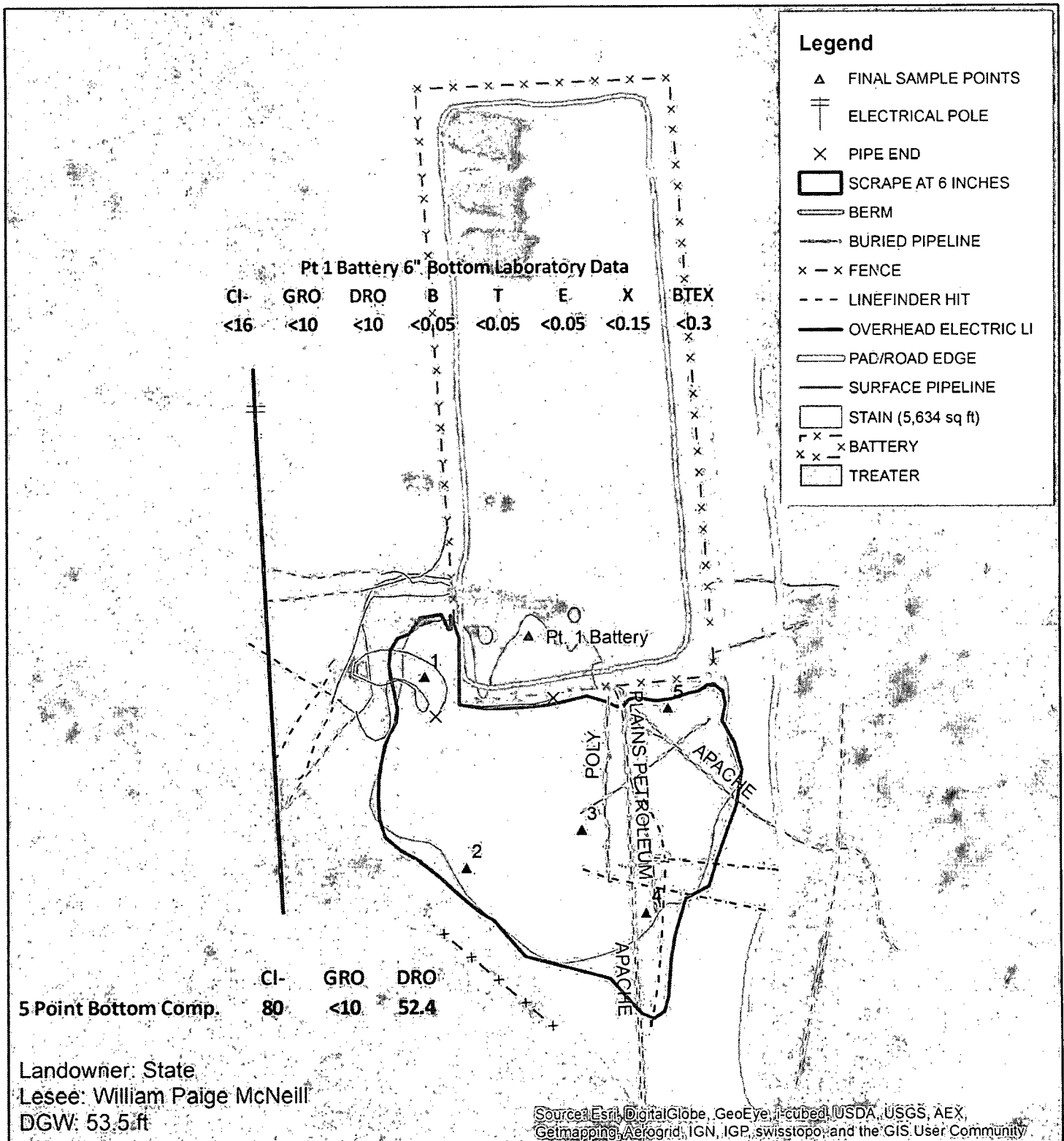
Figure 1



0 30 60
Feet

GPS date: 11/18/13 ZC
Drawing date: 11/19/13
Drafted by: L. Weinheimer

Excavation Data



Landowner: State
 Lessee: William Paige McNeill
 DGW: 53.5 ft



APACHE LG WARLICK C TANK BATTERY

LEGALS: UL/P sec. 15
 T-21-S R-37-E
 LEA COUNTY, NM

Figure 2



0 20 40
 Feet

GPS date: 12/13/13 JB
 Drawing date: 12/23/13
 Drafted by: 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
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State of New Mexico
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1220 South St. Francis Dr.
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☒ Initial Report ☐ Final Report

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Facility Name	LG Warlick C Battery	Facility Type	Battery
Surface Owner	State	Mineral Owner	API No. 30-025-06597

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Latitude _____ Longitude _____

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Source of Release	Heater Treater	Date and Hour of Occurrence	11-18-2013	Date and Hour of Discovery	11-18-2013 at 10:00 a.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.*

The Heater Treater pressured up and released fluid from the man way gasket. A vacuum truck was dispatched to pick-up fluid and the treater was isolated and man way gasket replaced.

Describe Area Affected and Cleanup Action Taken.*

All the standing fluid was contained inside battery, pad, and lease road. The release area was mapped and samples collected. The battery has been excavated to a depth of 6" and the pad and lease road will be scraped once all the lines are identified in the release area.

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

Signature: <i>Bruce Baker</i>	Approved by Environmental Specialist:		
Printed Name: Bruce Baker	Approval Date: _____ Expiration Date: _____		
Title: Environmental Technician	Conditions of Approval:		
E-mail Address: larry.baker@apachecorp.com	Attached <input type="checkbox"/>		
Date: 12-11-13	Phone: (432) 631-6982		

* Attach Additional Sheets If Necessary

Appendix B

Laboratory Analyses

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

December 04, 2013

BRUCE BAKER

APACHE - EUNICE

P. O. BOX 1849

EUNICE, NM 88231

RE: L G WARLICH C TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 11/27/13 11:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

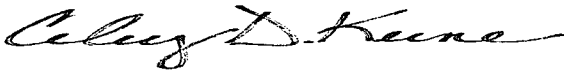
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



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: 11/27/2013
 Reported: 12/04/2013
 Project Name: L G WARLICH C TANK BATTERY
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 11/27/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: PT. 1 BATTERY 6" BOTTOM (H302906-01)

BTEX 8021B			mg/kg		Analyzed By: CK				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/02/2013	ND	2.19	110	2.00	0.949	
Toluene*	<0.050	0.050	12/02/2013	ND	2.17	108	2.00	0.646	
Ethylbenzene*	<0.050	0.050	12/02/2013	ND	2.15	107	2.00	0.0399	
Total Xylenes*	<0.150	0.150	12/02/2013	ND	6.23	104	6.00	0.167	
Total BTEX	<0.300	0.300	12/02/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 119 % 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	<16.0	16.0	12/04/2013	ND	432	108	400	3.77	

TPH 8015M			mg/kg		Analyzed By: ck				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/02/2013	ND	193	96.7	200	2.56	
DRO >C10-C28	<10.0	10.0	12/02/2013	ND	190	95.0	200	3.01	

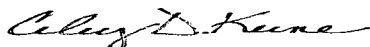
Surrogate: 1-Chlorooctane 77.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 77.0 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

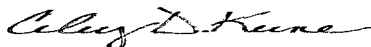
Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



Page 4 of 4

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Relinquished By:		Date:	Received By:	Phone Result:	<input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
<i>[Signature]</i>		Time:	<i>Jodi Henson</i>	Fax Result:	<input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:		Date:	Received By:	REMARKS:		
		Time:		Larry Barker @ Apache Corp. com		
Delivered By: (Circle One)				lweinheimer @ rice-ecs.com		
Sampler - UPS - Bus - Other:		Sample Condition		Kwannon @ rice-ecs.com		
		Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>		hcarder @ rice.swd.com		
		Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>		CHECKED BY:		
				<i>[Signature]</i>		

#51 15751 302-2226



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

December 21, 2013

BRUCE BAKER

APACHE - EUNICE

P. O. BOX 1849

EUNICE, NM 88231

RE: L G WARLICH C TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 12/16/13 10:20.

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)
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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: 12/16/2013
Reported: 12/21/2013
Project Name: L G WARLICH C TANK BATTERY
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 12/12/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

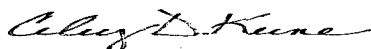
Sample ID: 5 PT. BOTTOM (H303040-01)

Chloride, SM4500Cl-B			mg/kg							Analyzed By: AP
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	12/21/2013	ND	416	104	400	0.00		
TPH 8015M			mg/kg							Analyzed By: ms
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	12/20/2013	ND	198	98.8	200	1.26		
DRO >C10-C28	52.4	10.0	12/20/2013	ND	197	98.6	200	1.90		
Surrogate: 1-Chlorooctane	101 %	65.2-140								
Surrogate: 1-Chlorooctadecane	101 %	63.6-154								

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

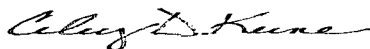
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Cardinal Laboratories

*=Accredited Analyte

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Page 4 of 4

[illegible]

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Relinquished By:		Date: 12-18-03	Received By: Jodi Hanson	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Time: 10:20				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:		Date:	Received By:	REMARKS:	
		Time:		Email Bruce Baker, Laraz Weinheimer, Kyle Norman, Zach Condris	
Delivered By: (Circle One)			Sample Condition	CHECKED BY:	
Sampler - UPS - Bus - Other:			Cool Intact	(Initials)	
			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	JPH	

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

#54

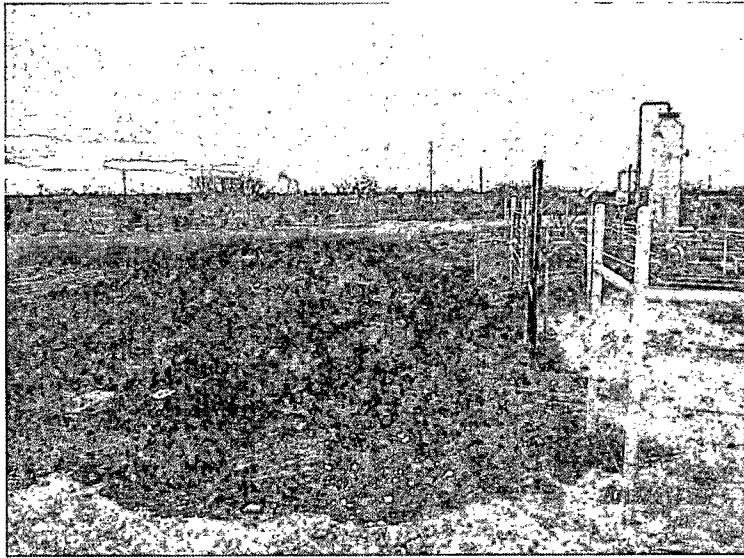
Appendix C

Photo Documentation

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

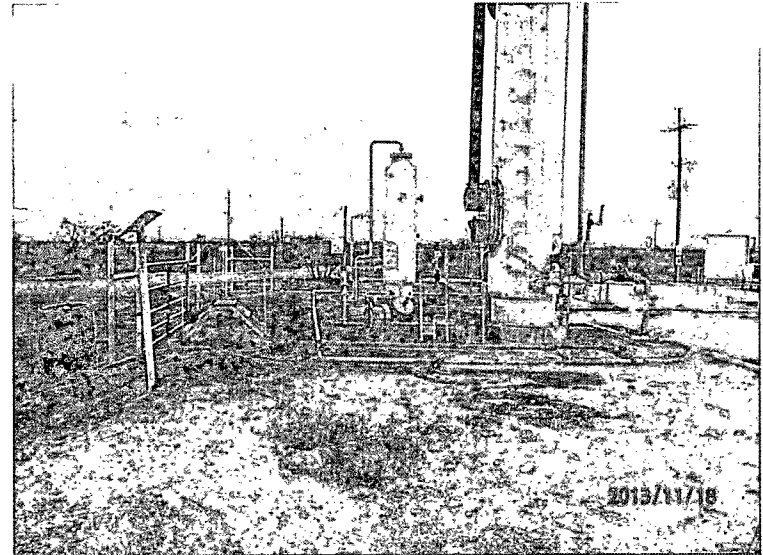
Apache LG Warlick C Tank Battery

Unit Letter P, Section 15, T21S, R37E



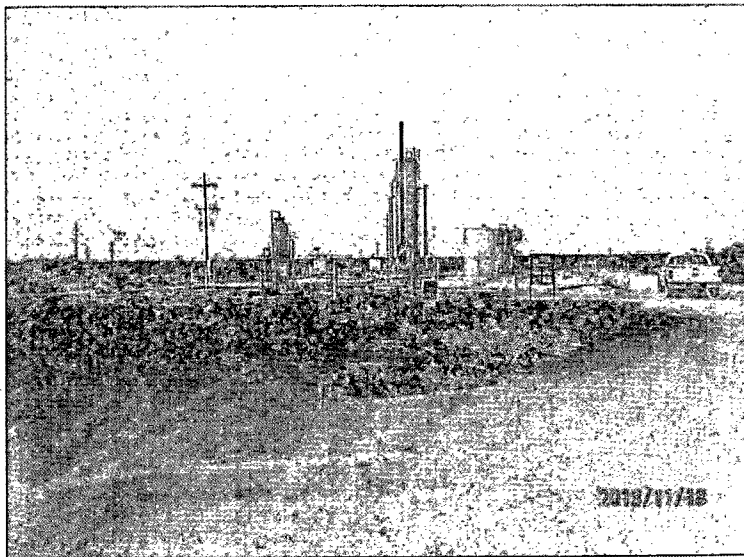
Initial release area, facing west

11/18/13



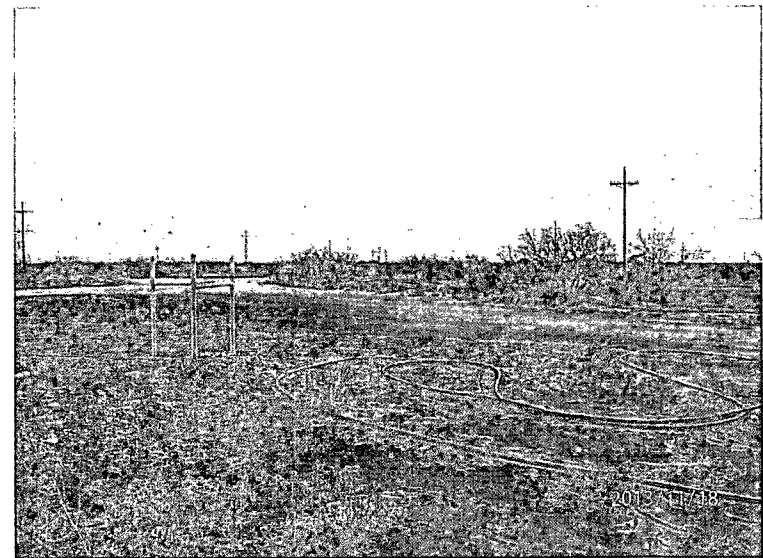
Initial release area, facing west

11/18/13



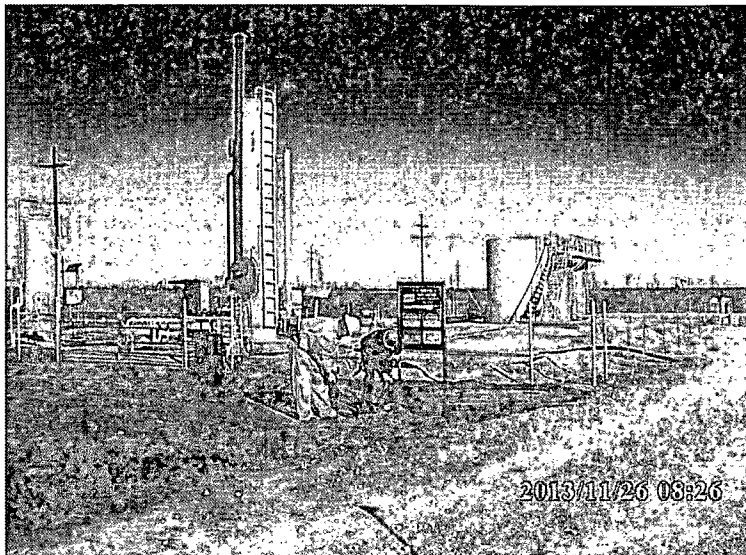
Initial release area, facing northwest

11/18/13



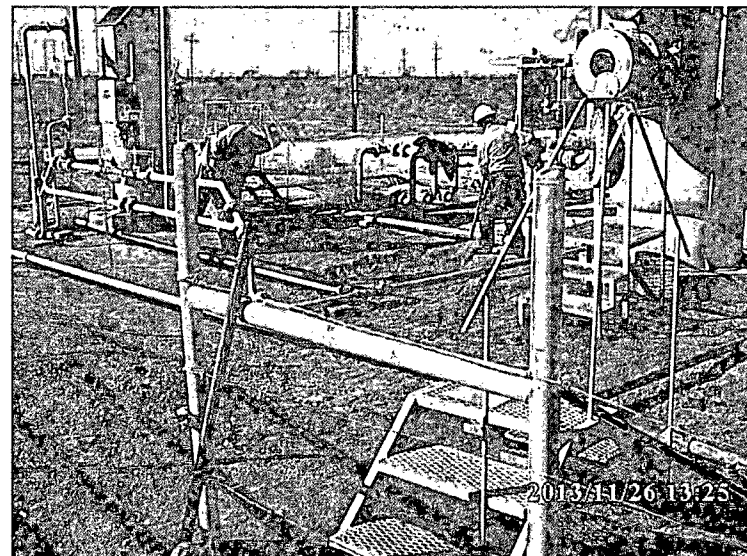
Initial release area, facing south

11/18/13



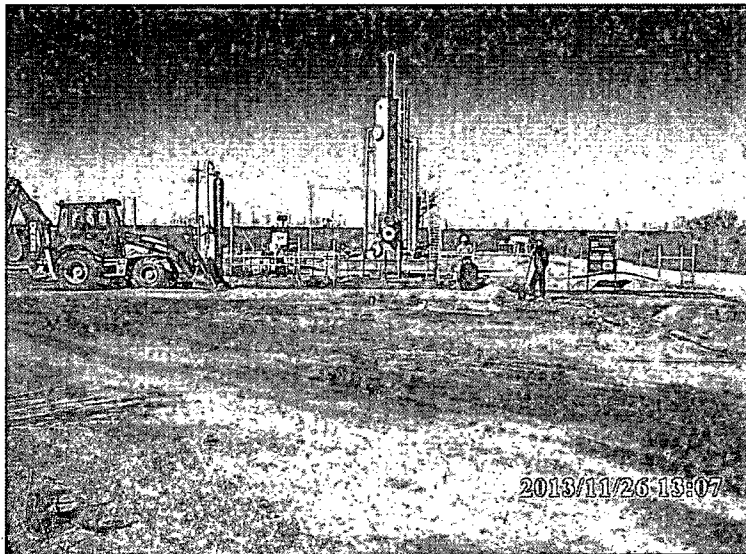
Spotting lines, facing northwest

11/26/13



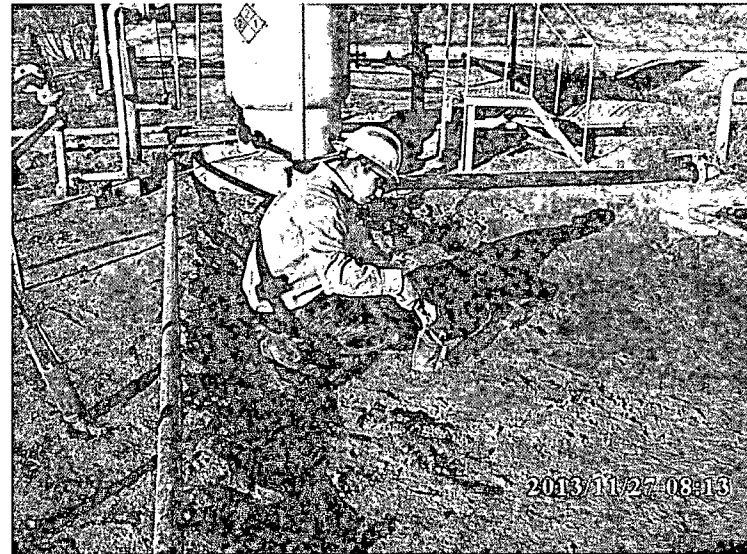
Hand shoveling in battery, facing northwest

11/26/13



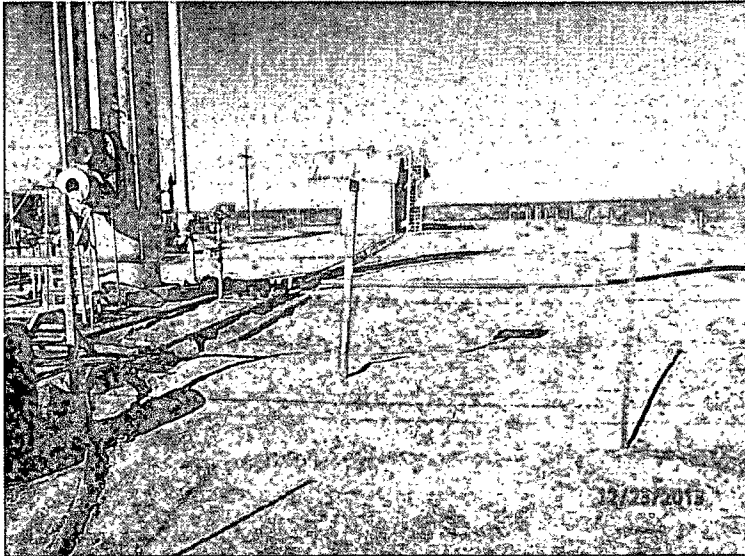
Scraping outside the battery, facing north

11/26/13

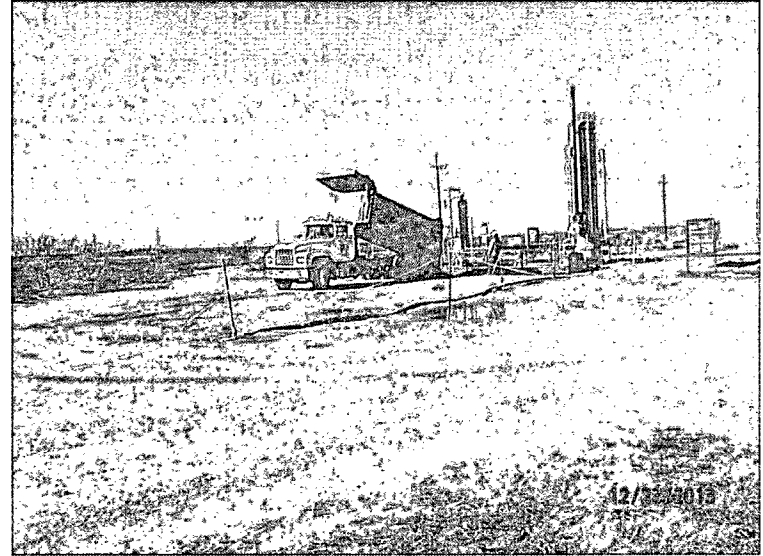


Sampling scrape inside battery, facing west

11/27/13

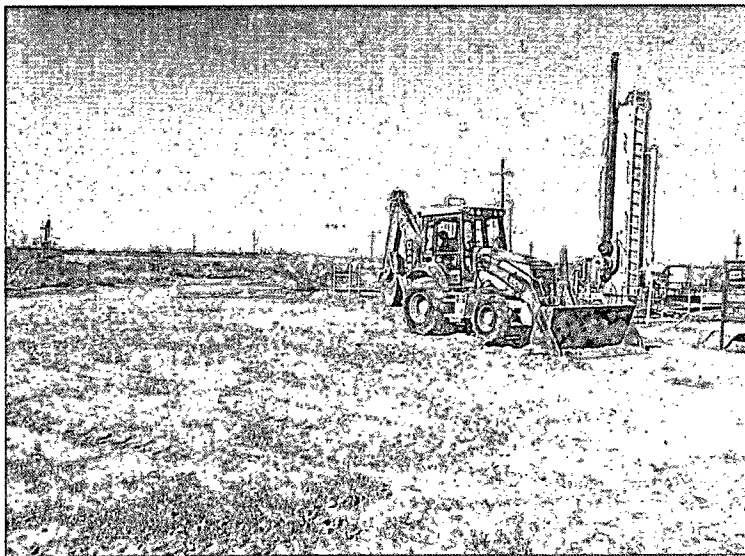


Scrape completed in the battery, facing north 12/23/13



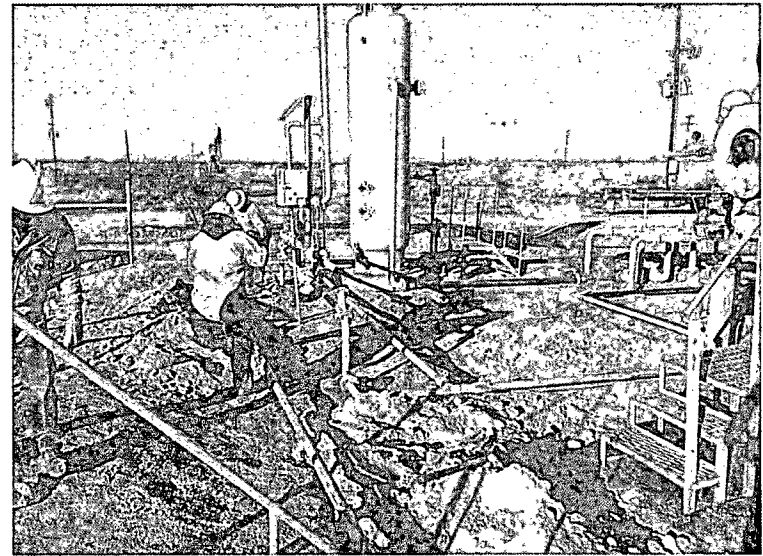
Importing caliche, facing west

12/23/13



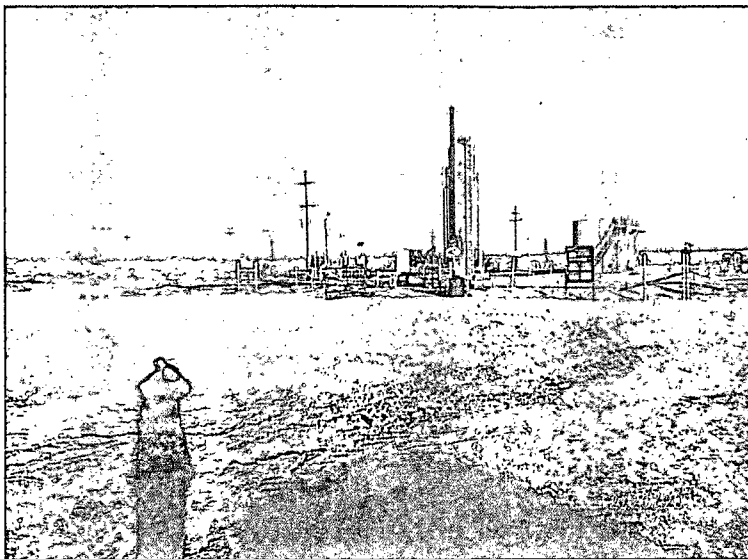
Backfilling lease road, facing northwest

12/24/13

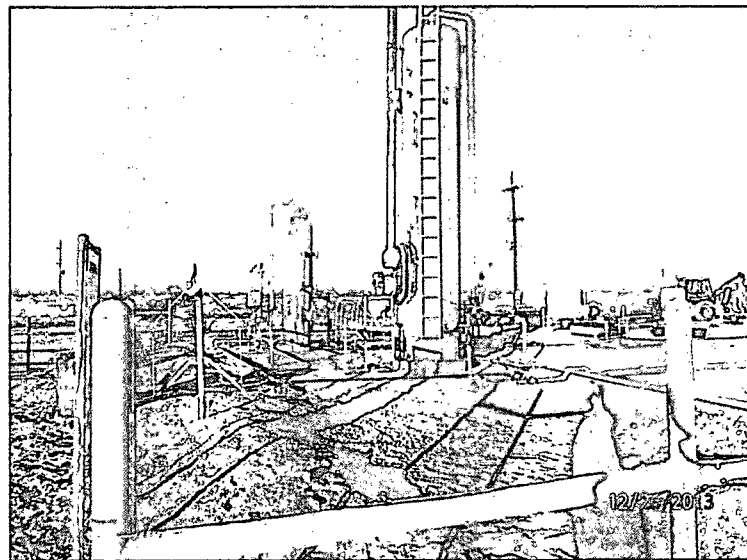


Backfilling battery, facing northwest

12/24/13



Backfill of lease road completed, facing northwest
12/26/13



Backfill of battery completed, facing northwest
12/26/13

Appendix D

Final C-141

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