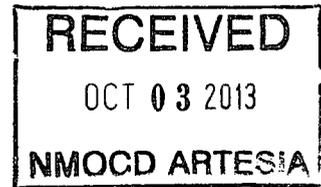




EXPLORING WHAT'S POSSIBLE



APACHE CORPORATION

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

D State #49 Battery (2RP-856)

Closure Report

API 30-015-38470

Release Date: August 4th, 2011

Unit Letter P, Section 26, Township 17S, Range 28E

Rice Environmental Consulting & Safety

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

June 27th, 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 – D State #49 Battery (2RP-856)
UL/P sec. 26 T-17-S R-28-E
API No. 30-015-38470**

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 9.5 miles west of Loco Hills, New Mexico at UL/P sec. 26 T17S R28E. NM OSE and BLM records indicate that there is no groundwater at the site.

On August 4th, 2011, a buried fiberglass line broke inside a junction box. A total of 45 barrels were released and a total of 30 barrels was recovered from the site. Approximately 17,000 sq ft of land was affected by the release along the pipeline right-of-way. The line was repaired and Apache informed NMOCD by an initial C-141 of the release on August 5th, 2011 (Appendix A).

RECS personnel were on site beginning on August 4th, 2011 to work the D State #49 Battery. Initial surface samples were taken along the release area and field tested for chlorides and hydrocarbons (Figure 1). The samples were then taken to a commercial laboratory for analysis (Appendix B).

Two verticals were installed at the site to determine the depth of contamination at the site. Vertical field data of Vertical #1 showed chloride values less than 250 mg/kg at 5 ft bgs and Vertical #2 showed chloride values less than 250 mg/kg at 4 ft bgs. Based on the vertical data, two excavations were dug at the vertical sites. The northwest excavation was excavated to 4 ft bgs and the west excavation was excavated to 5 ft bgs (Figure 2). Final samples of the walls and bottoms of each excavation were taken to a commercial laboratory for analysis of chlorides and hydrocarbons (Appendix C).

Two scrapes were completed at the site. Both the northwest and south scrapes were scraped to a depth of six inches. After the scrapes were completed, six points were taken

along the length of the south scrape and taken to a commercial laboratory for analysis. The walls and bottom samples of the northwest scrape were also taken to a commercial laboratory for analysis (Appendix C).

The excavated soil was taken to a NMOCD approved facility for disposal. Clean soil was imported to the site to use as backfill. The lease road was backfilled with caliche and the excavations and scrapes in the pasture were backfilled with top soil.

Photo Documentation of these activities can be found in Appendix D.

Since the contaminated soil was removed from the release area and replaced with clean, imported soil, Apache submits the final C-141 (Appendix E) 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,

A handwritten signature in black ink, appearing to read 'L. Weinheimer', with a long horizontal flourish extending to the right.

Lara Weinheimer
Project Scientist
RECS
(575) 441-0431

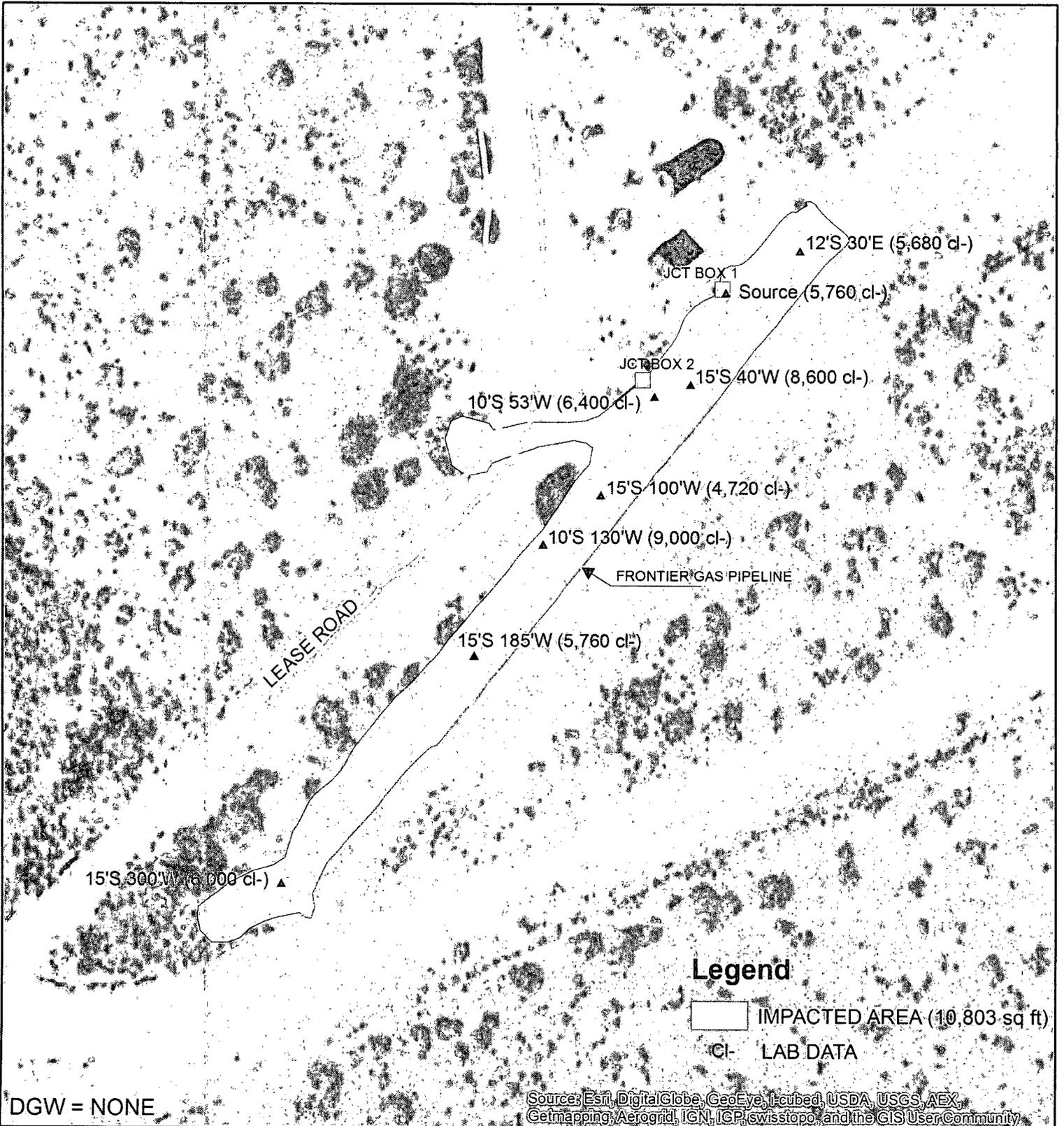
Attachments:

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

Figures

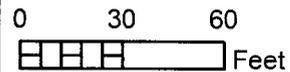
RICE Environmental Consulting and Safety (RECS)
P.O. Box 2948, Hobbs, NM 88241
Phone 575.393.2967

Initial Lab Data



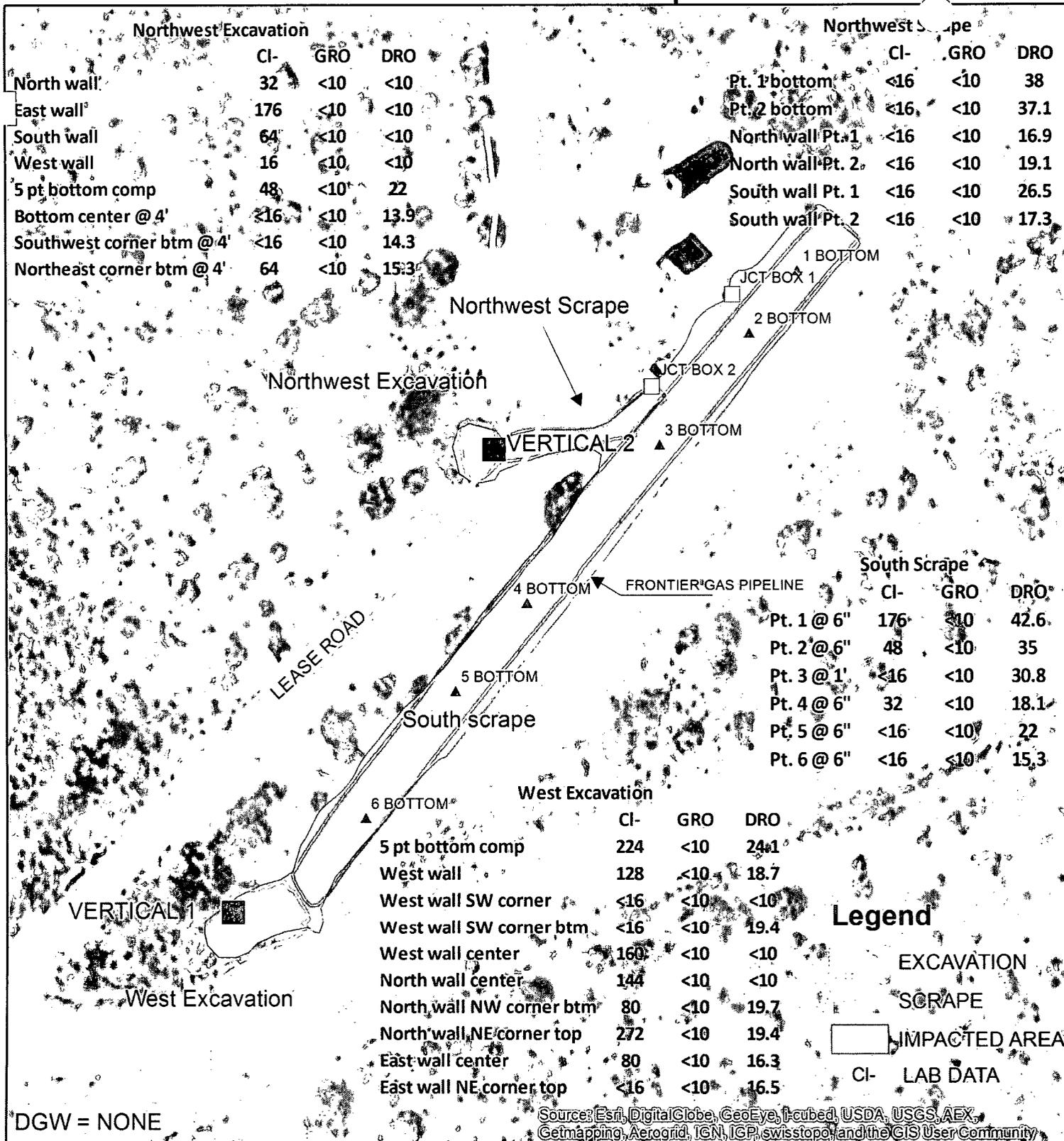
APACHE
'D' STATE #049 AD
 UL/H SECTION 35
 T-17-S R-28-E
 EDDY COUNTY, NM
 NMOCD Case #: 2RP-856

Figure 1



GPS date: 8/9-11/11 DH
 Drawing date: 8/12/11
 Drafted by: T. Grieco and L. Weinheimer

Excavation Map



DGW = NONE

Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, ICP, swisstopo, and the GIS User Community



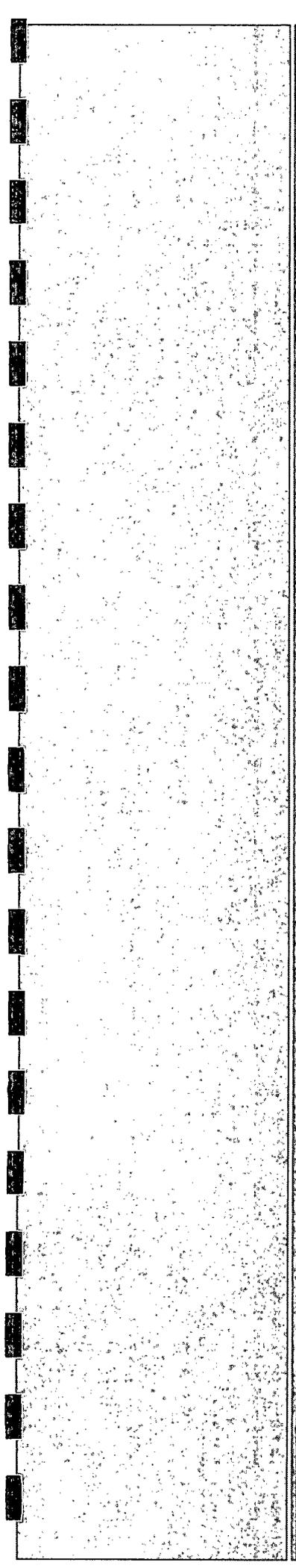
APACHE
'D' STATE #049 AD
 UL/H SECTION 35
 T-17-S R-28-E
 EDDY COUNTY, NM
 NMOCD Case #: 2RP-856

Figure 2



0 30 60
 Feet

GPS date: 8/9-11/11 DH
 Drawing date: 8/12/11
 Drafted by: T. Grieco and L. Weinheimer



Appendix A

Initial C-141

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

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

RECEIVED
AUG 5 2011
NMOCD ARTESIA

Form C-141
Revised August 1, 2011
Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action

NMLB1122937050

OPERATOR

Initial Report Final Report

Name of Company Apache Corporation	873	Contact Natalie Gladden
Address PO Box 1849, Eunice NM		Telephone No. 575-390-4186
Facility Name D State #49 Bty (near #59 well)		Facility Type Production Battery
Surface Owner State of NM	Mineral Owner State of NM	Lease No. 30-015-38470

LOCATION OF RELEASE

Unit Letter P	Section 26	Township 17S	Range 28E	Feet from the 290	North/South Line FSL	Feet from the 175	East/West Line FEL	County Eddy
------------------	---------------	-----------------	--------------	----------------------	-------------------------	----------------------	-----------------------	----------------

Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release 45	Volume Recovered 30
Source of Release Fiberglass line	Date and Hour of Occurrence 08/04/11 830am	Date and Hour of Discovery same
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input 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 buried fiberglass line busted inside the junction box. Line has been repaired and remediation has begun.

Describe Area Affected and Cleanup Action Taken.*
Recently we drilled near this facility at the C49 SWD and found no ground water. Therefore it is safe to say that it does not exist. 17000 sq ft of land has been disturbed along a pipeline right-of way. NMOCD guidelines will be followed to close.

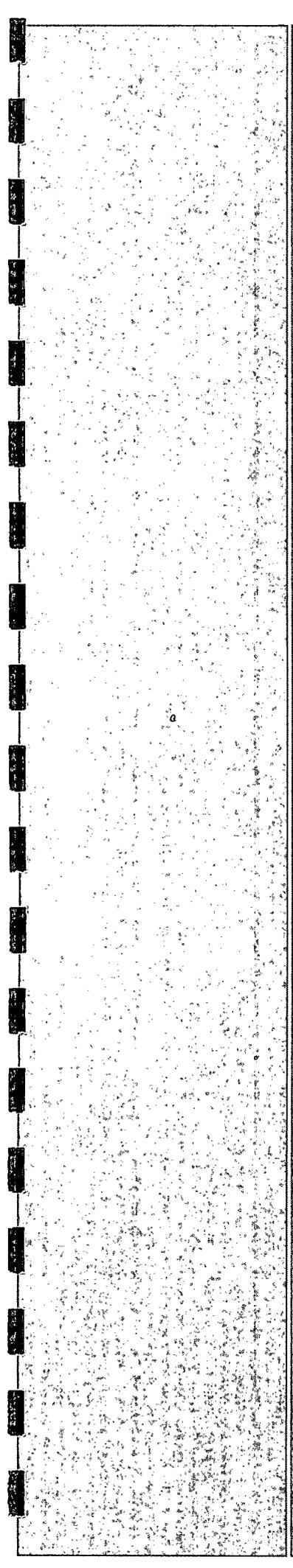
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger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

Signature: <i>Natalie Gladden</i>	OIL CONSERVATION DIVISION	
Printed Name: Natalie Gladden	Signed By <i>Mike Brannon</i>	
Title: EHS Environmental Tech	Approved by District Supervisor:	
E-mail Address: natalie.gladden@apachecorp.com	AUG 17 2011	Approval Date:
Date: 08/05/11 Phone: 575-390-4186	Expiration Date:	
	Conditions of Approval:	Attached <input type="checkbox"/>

Remediation per OCD Rules & Guidelines. **SUBMIT REMEDIATION PROPOSAL NOT LATER THAN:**
9/17/2011

2RP-856

* Attach Additional Sheets If Necessary



Appendix B

Initial Sampling Laboratory Analyses

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

June 25, 2013

NATALIE GLADDEN

APACHE - EUNICE

P. O. BOX 1849

EUNICE, NM 88231

RE: D STATE #49 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 08/05/11 8:02.

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

Received:	08/05/2011	Sampling Date:	08/04/2011
Reported:	06/25/2013	Sampling Type:	Soil
Project Name:	D STATE #49 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: 15' SOUTH 40' WEST (H101627-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8600	16.0	08/08/2011	ND	448	112	400	6.45		
TPH 8015M		mg/kg		Analyzed By: ab						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	35.6	10.0	08/10/2011	ND	187	93.7	200	2.82		
DRO >C10-C28	572	10.0	08/10/2011	ND	179	89.5	200	3.74		

Surrogate: 1-Chlorooctane 93.8 % 70-130
 Surrogate: 1-Chlorooctadecane 111 % 70-130

Sample ID: SOURCE (H101627-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5760	16.0	08/08/2011	ND	448	112	400	6.45		
TPH 8015M		mg/kg		Analyzed By: ab						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	70.1	10.0	08/10/2011	ND	187	93.7	200	2.82		
DRO >C10-C28	1060	10.0	08/10/2011	ND	179	89.5	200	3.74		

Surrogate: 1-Chlorooctane 92.1 % 70-130
 Surrogate: 1-Chlorooctadecane 99.4 % 70-130

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	08/05/2011	Sampling Date:	08/04/2011
Reported:	06/25/2013	Sampling Type:	Soil
Project Name:	D STATE #49 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: 10' SOUTH / 130' WEST (H101627-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	9000	16.0	08/08/2011	ND	448	112	400	6.45		
TPH 8015M		mg/kg		Analyzed By: ab						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	13.3	10.0	08/10/2011	ND	187	93.7	200	2.82		
DRO >C10-C28	25.5	10.0	08/10/2011	ND	179	89.5	200	3.74		

Surrogate: 1-Chlorooctane 90.6 % 70-130
 Surrogate: 1-Chlorooctadecane 111 % 70-130

Sample ID: 10' SOUTH / 53' WEST (H101627-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6400	16.0	08/08/2011	ND	448	112	400	6.45		
TPH 8015M		mg/kg		Analyzed By: ab						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/10/2011	ND	187	93.7	200	2.82		
DRO >C10-C28	<10.0	10.0	08/10/2011	ND	179	89.5	200	3.74		

Surrogate: 1-Chlorooctane 64.1 % 70-130
 Surrogate: 1-Chlorooctadecane 94.9 % 70-130

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	08/05/2011	Sampling Date:	08/04/2011
Reported:	06/25/2013	Sampling Type:	Soil
Project Name:	D STATE #49 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: 12' SOUTH / 30' EAST (H101627-05)

Chloride, SM4500CI-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5680	16.0	08/08/2011	ND	448	112	400	6.45		
TPH 8015M		mg/kg		Analyzed By: ab						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	52.2	10.0	08/10/2011	ND	187	93.7	200	2.82		
DRO >C10-C28	581	10.0	08/10/2011	ND	179	89.5	200	3.74		

Surrogate: 1-Chlorooctane 85.5 % 70-130

Surrogate: 1-Chlorooctadecane 106 % 70-130

Sample ID: 15' SOUTH / 100' WEST (H101627-06)

Chloride, SM4500CI-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4720	16.0	08/08/2011	ND	448	112	400	6.45		
TPH 8015M		mg/kg		Analyzed By: ab						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	120	10.0	08/10/2011	ND	187	93.7	200	2.82		
DRO >C10-C28	2440	10.0	08/10/2011	ND	179	89.5	200	3.74		

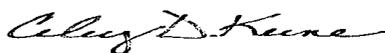
Surrogate: 1-Chlorooctane 106 % 70-130

Surrogate: 1-Chlorooctadecane 112 % 70-130

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	08/05/2011	Sampling Date:	08/04/2011
Reported:	06/25/2013	Sampling Type:	Soil
Project Name:	D STATE #49 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: 15' SOUTH / 185' WEST (H101627-07)

Chloride, SM4500CI-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5760	16.0	08/08/2011	ND	448	112	400	6.45		
TPH 8015M		mg/kg		Analyzed By: ab						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	14.7	10.0	08/10/2011	ND	187	93.7	200	2.82		
DRO >C10-C28	60.6	10.0	08/10/2011	ND	179	89.5	200	3.74		

Surrogate: 1-Chlorooctane 69.1 % 70-130
 Surrogate: 1-Chlorooctadecane 92.6 % 70-130

Sample ID: 15' SOUTH / 300' WEST (H101627-08)

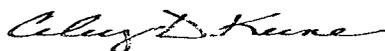
Chloride, SM4500CI-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6000	16.0	08/08/2011	ND	448	112	400	6.45		
TPH 8015M		mg/kg		Analyzed By: ab						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	15.6	10.0	08/10/2011	ND	187	93.7	200	2.82		
DRO >C10-C28	199	10.0	08/10/2011	ND	179	89.5	200	3.74		

Surrogate: 1-Chlorooctane 77.5 % 70-130
 Surrogate: 1-Chlorooctadecane 97.5 % 70-130

Cardinal Laboratories

*=Accredited Analyte

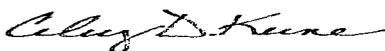
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived 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

- 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



Celey D. Keene, Lab Director/Quality Manager

Appendix C

Final Laboratory Analyses

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

June 25, 2013

NATALIE GLADDEN

APACHE - EUNICE

P. O. BOX 1849

EUNICE, NM 88231

RE: D STATE #49 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 08/12/11 8:10.

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

Received:	08/12/2011	Sampling Date:	08/10/2011
Reported:	06/25/2013	Sampling Type:	Soil
Project Name:	D STATE #49 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: NW EXC N WALL CENTER (H101689-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/12/2011	ND	416	104	400	3.92		
TPH 8015M		mg/kg		Analyzed By: ab						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/13/2011	ND	191	95.6	200	0.904		
DRO >C10-C28	<10.0	10.0	08/13/2011	ND	165	82.7	200	0.0604		
<i>Surrogate: 1-Chlorooctane</i>		<i>108 %</i>	<i>70-130</i>							
<i>Surrogate: 1-Chlorooctadecane</i>		<i>111 %</i>	<i>70-130</i>							

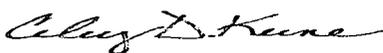
Sample ID: NW EXC E WALL CENTER (H101689-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	08/12/2011	ND	416	104	400	3.92		
TPH 8015M		mg/kg		Analyzed By: ab						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/13/2011	ND	191	95.6	200	0.904		
DRO >C10-C28	<10.0	10.0	08/13/2011	ND	165	82.7	200	0.0604		
<i>Surrogate: 1-Chlorooctane</i>		<i>107 %</i>	<i>70-130</i>							
<i>Surrogate: 1-Chlorooctadecane</i>		<i>113 %</i>	<i>70-130</i>							

Cardinal Laboratories

*=Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	08/12/2011	Sampling Date:	08/10/2011
Reported:	06/25/2013	Sampling Type:	Soil
Project Name:	D STATE #49 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: NW EXC S WALL CENTER (H101689-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	08/12/2011	ND	416	104	400	3.92		
TPH 8015M		mg/kg		Analyzed By: ab						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/13/2011	ND	191	95.6	200	0.904		
DRO >C10-C28	<10.0	10.0	08/13/2011	ND	165	82.7	200	0.0604		

Surrogate: 1-Chlorooctane 107 % 70-130
 Surrogate: 1-Chlorooctadecane 112 % 70-130

Sample ID: NW EXC W WALL CENTER (H101689-04)

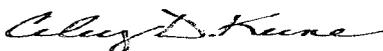
Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	08/12/2011	ND	416	104	400	3.92		
TPH 8015M		mg/kg		Analyzed By: ab						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/13/2011	ND	191	95.6	200	0.904		
DRO >C10-C28	<10.0	10.0	08/13/2011	ND	165	82.7	200	0.0604		

Surrogate: 1-Chlorooctane 109 % 70-130
 Surrogate: 1-Chlorooctadecane 115 % 70-130

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

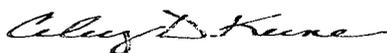
Notes and Definitions

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

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

June 25, 2013

NATALIE GLADDEN

APACHE - EUNICE

P. O. BOX 1849

EUNICE, NM 88231

RE: D STATE #49 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 08/10/11 8:12.

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

Received:	08/10/2011	Sampling Date:	08/08/2011
Reported:	06/25/2013	Sampling Type:	Soil
Project Name:	D STATE #49 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: PT. 1 @ 6' (H101674-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	08/11/2011	ND	416	104	400	3.92		
TPH 8015M		mg/kg		Analyzed By: ab						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/12/2011	ND	155	77.3	200	1.34		
DRO >C10-C28	42.6	10.0	08/12/2011	ND	144	72.0	200	0.956		

Surrogate: 1-Chlorooctane 82.5 % 70-130

Surrogate: 1-Chlorooctadecane 89.3 % 70-130

Sample ID: PT. 2 @ 6" (H101674-02)

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	08/11/2011	ND	416	104	400	3.92		
TPH 8015M		mg/kg		Analyzed By: ab						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/12/2011	ND	155	77.3	200	1.34		
DRO >C10-C28	35.0	10.0	08/12/2011	ND	144	72.0	200	0.956		

Surrogate: 1-Chlorooctane 83.0 % 70-130

Surrogate: 1-Chlorooctadecane 91.2 % 70-130

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 08/10/2011
 Reported: 06/25/2013
 Project Name: D STATE #49 BATTERY
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 08/08/2011
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: PT. 3 @ 1' (H101674-03)

Chloride, SM4500Cl-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	08/11/2011	ND	416	104	400	3.92		
TPH 8015M		mg/kg		Analyzed By: ab						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/12/2011	ND	155	77.3	200	1.34		
DRO >C10-C28	30.8	10.0	08/12/2011	ND	144	72.0	200	0.956		
<i>Surrogate: 1-Chlorooctane</i>	81.9 %	70-130								
<i>Surrogate: 1-Chlorooctadecane</i>	92.8 %	70-130								

Sample ID: PT. 4 @ 6" (H101674-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/11/2011	ND	416	104	400	3.92		
TPH 8015M		mg/kg		Analyzed By: ab						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/12/2011	ND	155	77.3	200	1.34		
DRO >C10-C28	18.1	10.0	08/12/2011	ND	144	72.0	200	0.956		
<i>Surrogate: 1-Chlorooctane</i>	85.2 %	70-130								
<i>Surrogate: 1-Chlorooctadecane</i>	93.7 %	70-130								

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	08/10/2011	Sampling Date:	08/08/2011
Reported:	06/25/2013	Sampling Type:	Soil
Project Name:	D STATE #49 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: PT. 5 @ 6" (H101674-05)

Chloride, SM4500Cl-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	08/11/2011	ND	416	104	400	3.92		
TPH 8015M		mg/kg		Analyzed By: ab						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/12/2011	ND	155	77.3	200	1.34		
DRO >C10-C28	22.0	10.0	08/12/2011	ND	144	72.0	200	0.956		
<i>Surrogate: 1-Chlorooctane</i>	83.3 %	70-130								
<i>Surrogate: 1-Chlorooctadecane</i>	91.2 %	70-130								

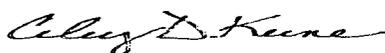
Sample ID: PT. 6 @ 6" (H101674-06)

Chloride, SM4500Cl-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	08/11/2011	ND	416	104	400	3.92		
TPH 8015M		mg/kg		Analyzed By: ab						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/12/2011	ND	155	77.3	200	1.34		
DRO >C10-C28	15.3	10.0	08/12/2011	ND	144	72.0	200	0.956		
<i>Surrogate: 1-Chlorooctane</i>	86.0 %	70-130								
<i>Surrogate: 1-Chlorooctadecane</i>	95.3 %	70-130								

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

June 25, 2013

NATALIE GLADDEN

APACHE - EUNICE

P. O. BOX 1849

EUNICE, NM 88231

RE: D STATE #49 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 08/12/11 8:10.

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

Received:	08/12/2011	Sampling Date:	08/11/2011
Reported:	06/25/2013	Sampling Type:	Soil
Project Name:	D STATE #49 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: W EXC 5 PT BTM COMP (H101690-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	08/12/2011	ND	416	104	400	3.92		
TPH 8015M		mg/kg		Analyzed By: ab						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/15/2011	ND	196	97.9	200	2.46		
DRO >C10-C28	24.1	10.0	08/15/2011	ND	203	101	200	6.17		

Surrogate: 1-Chlorooctane	77.2 %	70-130
Surrogate: 1-Chlorooctadecane	82.7 %	70-130

Sample ID: NW EXC 5 PT BTM COMP (H101690-02)

Chloride, SM4500Cl-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	08/12/2011	ND	416	104	400	3.92		
TPH 8015M		mg/kg		Analyzed By: ab						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/15/2011	ND	196	97.9	200	2.46		
DRO >C10-C28	22.0	10.0	08/15/2011	ND	203	101	200	6.17		

Surrogate: 1-Chlorooctane	98.3 %	70-130
Surrogate: 1-Chlorooctadecane	102 %	70-130

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	08/12/2011	Sampling Date:	08/11/2011
Reported:	06/25/2013	Sampling Type:	Soil
Project Name:	D STATE #49 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: W EXC W WALL CENTER (H101690-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	08/12/2011	ND	416	104	400	3.92		
TPH 8015M		mg/kg		Analyzed By: ab						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/15/2011	ND	196	97.9	200	2.46		
DRO >C10-C28	18.7	10.0	08/15/2011	ND	203	101	200	6.17		

Surrogate: 1-Chlorooctane 103 % 70-130

Surrogate: 1-Chlorooctadecane 102 % 70-130

Sample ID: W EXC W WALL SW CORNER (H101690-04)

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	08/12/2011	ND	416	104	400	3.92		
TPH 8015M		mg/kg		Analyzed By: ab						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/15/2011	ND	196	97.9	200	2.46		
DRO >C10-C28	<10.0	10.0	08/15/2011	ND	203	101	200	6.17		

Surrogate: 1-Chlorooctane 121 % 70-130

Surrogate: 1-Chlorooctadecane 132 % 70-130

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	08/12/2011	Sampling Date:	08/11/2011
Reported:	06/25/2013	Sampling Type:	Soil
Project Name:	D STATE #49 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: W EXC W WALL SW CORNER BTM (H101690-05)

Chloride, SM4500Cl-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	08/12/2011	ND	416	104	400	3.92		
TPH 8015M		mg/kg		Analyzed By: ab						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/15/2011	ND	196	97.9	200	2.46		
DRO >C10-C28	19.4	10.0	08/15/2011	ND	203	101	200	6.17		

Surrogate: 1-Chlorooctane 92.7 % 70-130

Surrogate: 1-Chlorooctadecane 98.2 % 70-130

Sample ID: W EXC W WALL CENTER (H101690-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	08/12/2011	ND	416	104	400	3.92		
TPH 8015M		mg/kg		Analyzed By: ab						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/15/2011	ND	196	97.9	200	2.46		
DRO >C10-C28	<10.0	10.0	08/15/2011	ND	203	101	200	6.17		

Surrogate: 1-Chlorooctane 128 % 70-130

Surrogate: 1-Chlorooctadecane 132 % 70-130

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	08/12/2011	Sampling Date:	08/11/2011
Reported:	06/25/2013	Sampling Type:	Soil
Project Name:	D STATE #49 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: W EXC N WALL CENTER (H101690-07)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	08/12/2011	ND	416	104	400	3.92		
TPH 8015M		mg/kg		Analyzed By: ab						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/15/2011	ND	196	97.9	200	2.46		
DRO >C10-C28	<10.0	10.0	08/15/2011	ND	203	101	200	6.17		

Surrogate: 1-Chlorooctane 110 % 70-130
 Surrogate: 1-Chlorooctadecane 119 % 70-130

Sample ID: W EXC N WALL NW CORNER BTM (H101690-08)

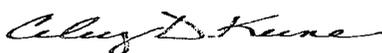
Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	08/12/2011	ND	432	108	400	3.77		
TPH 8015M		mg/kg		Analyzed By: ab						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/15/2011	ND	196	97.9	200	2.46		
DRO >C10-C28	19.7	10.0	08/15/2011	ND	203	101	200	6.17		

Surrogate: 1-Chlorooctane 85.1 % 70-130
 Surrogate: 1-Chlorooctadecane 90.8 % 70-130

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	08/12/2011	Sampling Date:	08/11/2011
Reported:	06/25/2013	Sampling Type:	Soil
Project Name:	D STATE #49 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: W EXC N WALL NE CORNER TOP (H101690-09)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	08/12/2011	ND	432	108	400	3.77		
TPH 8015M		mg/kg		Analyzed By: ab						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/15/2011	ND	196	97.9	200	2.46		
DRO >C10-C28	19.4	10.0	08/15/2011	ND	203	101	200	6.17		

Surrogate: 1-Chlorooctane 100 % 70-130

Surrogate: 1-Chlorooctadecane 107 % 70-130

Sample ID: W EXC E WALL CENTER (H101690-10)

Chloride, SM4500CI-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	08/12/2011	ND	432	108	400	3.77		
TPH 8015M		mg/kg		Analyzed By: ab						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/15/2011	ND	196	97.9	200	2.46		
DRO >C10-C28	16.3	10.0	08/15/2011	ND	203	101	200	6.17		

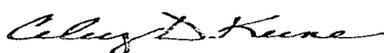
Surrogate: 1-Chlorooctane 102 % 70-130

Surrogate: 1-Chlorooctadecane 119 % 70-130

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

Z-01	One or more surrogates above historical limits.
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

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* = 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: Natalie Gladden		P.O. #:		<table border="1"> <tr><td>Chlorides</td></tr> <tr><td>TPH 8015 M</td></tr> <tr><td>BTEX</td></tr> <tr><td>Texas TPH</td></tr> <tr><td>Complete Cations/Anions</td></tr> <tr><td>TDS</td></tr> <tr><td></td></tr> <tr><td></td></tr> <tr><td></td></tr> <tr><td></td></tr> <tr><td></td></tr> <tr><td></td></tr> </table>										Chlorides	TPH 8015 M	BTEX	Texas TPH	Complete Cations/Anions	TDS						
Chlorides																									
TPH 8015 M																									
BTEX																									
Texas TPH																									
Complete Cations/Anions																									
TDS																									
Address:		Company:																							
City: State: NM Zip:		Attn:																							
Phone #: Fax #:		Address:																							
Project #: Project Owner:		City:																							
Project Name: <i>D State-40 Emulsion Line A.D.</i>		State: Zip:																							
Project Location:		Phone #:																							
Sampler Name: <i>Dick Harris</i>		Fax #:																							

Lab I.D.	Sample I.D.	(GRAB OR (C)OMP. # CONTAINERS	MATRIX					PRESERV.		SAMPLING		Chlorides	TPH 8015 M	BTEX	Texas TPH	Complete Cations/Anions	TDS
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:						
H101690																	
-1	W. EXCAVATION 5-PT BHM CORP	C	1			✓				✓		8-11-11	9:55	✓	✓		
2	N.W. EXCAVATION 5-PT BHM CORP	C	1			✓				✓		8-11-11	11:32	✓	✓		
3	W. EXCAVATION WEST WALL CENTER	G	1			✓				✓		8-11-11	11:47	✓	✓		
4	W. EXC WEST WALL S.N. CORNER	G	1			✓				✓		8-11-11	11:55	✓	✓		
5	W. EXC W. WALL S.W. CORNER BHM	G	1			✓				✓		8-11-11	1:00	✓	✓		
6	W. EXC W. WALL CENTER	G	1			✓				✓		8-11-11	1:05	✓	✓		
7	W. EXC N. WALL CENTER	G	1			✓				✓		8-11-11	1:10	✓	✓		
8	W. EXC N. WALL N.W. CORNER BHM	G	1			✓				✓		8-11-11	1:15	✓	✓		
9	W. EXC N. WALL N.E. CORNER TOP	G	1			✓				✓		8-11-11	1:20	✓	✓		
10	W. EXC E. WALL CENTER	G	1			✓				✓		8-11-11	1:25	✓	✓		

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Relinquished By: <i>Dick Harris</i>	Date: <i>8/11/11</i> Time: <i>7:20</i>	Received By: <i>Tom G</i>	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
Relinquished By: <i>Tom G</i>	Date: <i>8/12/11</i> Time: <i>8:10</i>	Received By: <i>April Meadows</i>	Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other: <i>-90</i>	Sample Condition Cool <input type="checkbox"/> Yes <input type="checkbox"/> No Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) <i>AG</i>	REMARKS: email results Natalie.Gladden@usa.apachecorp.com; Zconder@rice-ecs.com; Bbaker@rice-ecs.com; hconder@rice-ecs.com; Lweinheimer@rice-ecs.com	

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

#26

June 25, 2013

NATALIE GLADDEN

APACHE - EUNICE

P. O. BOX 1849

EUNICE, NM 88231

RE: D STATE #49 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 08/12/11 8:10.

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

Received:	08/12/2011	Sampling Date:	08/10/2011
Reported:	06/25/2013	Sampling Type:	Soil
Project Name:	D STATE #49 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: W EXC E WALL NE COR TOP (H101691-01)

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	08/12/2011	ND	432	108	400	3.77		
TPH 8015M		mg/kg		Analyzed By: ab						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/15/2011	ND	196	97.9	200	2.46		
DRO >C10-C28	16.5	10.0	08/15/2011	ND	203	101	200	6.17		
<i>Surrogate: 1-Chlorooctane</i>		<i>95.8 %</i>	<i>70-130</i>							
<i>Surrogate: 1-Chlorooctadecane</i>		<i>107 %</i>	<i>70-130</i>							

Sample ID: NW SCRAPE @ 6" PT.1 BTM (H101691-02)

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	08/12/2011	ND	432	108	400	3.77		
TPH 8015M		mg/kg		Analyzed By: ab						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/16/2011	ND	196	97.9	200	2.46		
DRO >C10-C28	38.0	10.0	08/16/2011	ND	203	101	200	6.17		
<i>Surrogate: 1-Chlorooctane</i>		<i>105 %</i>	<i>70-130</i>							
<i>Surrogate: 1-Chlorooctadecane</i>		<i>110 %</i>	<i>70-130</i>							

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	08/12/2011	Sampling Date:	08/10/2011
Reported:	06/25/2013	Sampling Type:	Soil
Project Name:	D STATE #49 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: NW SCRAPE @ 6' PT. 2 BTM (H101691-03)

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	08/12/2011	ND	432	108	400	3.77		
TPH 8015M		mg/kg		Analyzed By: ab						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/16/2011	ND	196	97.9	200	2.46		
DRO >C10-C28	37.1	10.0	08/16/2011	ND	203	101	200	6.17		
<i>Surrogate: 1-Chlorooctane</i>		<i>113 %</i>	<i>70-130</i>							
<i>Surrogate: 1-Chlorooctadecane</i>		<i>121 %</i>	<i>70-130</i>							

Sample ID: NW SCRAPE N WALL PT. 1 (H101691-04)

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	08/12/2011	ND	432	108	400	3.77		
TPH 8015M		mg/kg		Analyzed By: ab						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/16/2011	ND	196	97.9	200	2.46		
DRO >C10-C28	16.9	10.0	08/16/2011	ND	203	101	200	6.17		
<i>Surrogate: 1-Chlorooctane</i>		<i>101 %</i>	<i>70-130</i>							
<i>Surrogate: 1-Chlorooctadecane</i>		<i>108 %</i>	<i>70-130</i>							

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	08/12/2011	Sampling Date:	08/10/2011
Reported:	06/25/2013	Sampling Type:	Soil
Project Name:	D STATE #49 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: NW SCRAPE N WALL PT. 2 (H101691-05)

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	08/12/2011	ND	432	108	400	3.77		
TPH 8015M		mg/kg		Analyzed By: ab						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/16/2011	ND	196	97.9	200	2.46		
DRO >C10-C28	19.1	10.0	08/16/2011	ND	203	101	200	6.17		

Surrogate: 1-Chlorooctane 109 % 70-130

Surrogate: 1-Chlorooctadecane 112 % 70-130

Sample ID: NW SCRAPE S WALL PT 1 (H101691-06)

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	08/12/2011	ND	432	108	400	3.77		
TPH 8015M		mg/kg		Analyzed By: ab						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/16/2011	ND	196	97.9	200	2.46		
DRO >C10-C28	26.5	10.0	08/16/2011	ND	203	101	200	6.17		

Surrogate: 1-Chlorooctane 94.5 % 70-130

Surrogate: 1-Chlorooctadecane 103 % 70-130

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 08/12/2011
 Reported: 06/25/2013
 Project Name: D STATE #49 BATTERY
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 08/10/2011
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: NW SCRAPE S WALL PT. 2 (H101691-07)

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	08/12/2011	ND	432	108	400	3.77	
TPH 8015M		mg/kg		Analyzed By: ab					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/16/2011	ND	196	97.9	200	2.46	
DRO >C10-C28	17.3	10.0	08/16/2011	ND	203	101	200	6.17	

Surrogate: 1-Chlorooctane 88.1 % 70-130

Surrogate: 1-Chlorooctadecane 112 % 70-130

Sample ID: NW EXC BTTM CENTER @ 4' (H101691-08)

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	08/12/2011	ND	432	108	400	3.77	
TPH 8015M		mg/kg		Analyzed By: ab					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/16/2011	ND	196	97.9	200	2.46	
DRO >C10-C28	13.9	10.0	08/16/2011	ND	203	101	200	6.17	

Surrogate: 1-Chlorooctane 85.6 % 70-130

Surrogate: 1-Chlorooctadecane 119 % 70-130

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	08/12/2011	Sampling Date:	08/10/2011
Reported:	06/25/2013	Sampling Type:	Soil
Project Name:	D STATE #49 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: NW EXC SW CORNER BTM @4' (H101691-09)

Chloride, SM4500Cl-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	08/12/2011	ND	432	108	400	3.77		
TPH 8015M		mg/kg		Analyzed By: ab						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/16/2011	ND	196	97.9	200	2.46		
DRO >C10-C28	14.3	10.0	08/16/2011	ND	203	101	200	6.17		
<i>Surrogate: 1-Chlorooctane</i>	<i>84.0 %</i>	<i>70-130</i>								
<i>Surrogate: 1-Chlorooctadecane</i>	<i>108 %</i>	<i>70-130</i>								

Sample ID: NE CORNER BTM @ 4' (H101691-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	08/12/2011	ND	432	108	400	3.77		
TPH 8015M		mg/kg		Analyzed By: ab						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/16/2011	ND	196	97.9	200	2.46		
DRO >C10-C28	14.8	10.0	08/16/2011	ND	203	101	200	6.17		
<i>Surrogate: 1-Chlorooctane</i>	<i>101 %</i>	<i>70-130</i>								
<i>Surrogate: 1-Chlorooctadecane</i>	<i>105 %</i>	<i>70-130</i>								

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager

June 25, 2013

NATALIE GLADDEN

APACHE - EUNICE

P. O. BOX 1849

EUNICE, NM 88231

RE: D STATE #49 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 08/10/11 8:12.

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

Received:	08/10/2011	Sampling Date:	08/09/2011
Reported:	06/25/2013	Sampling Type:	Soil
Project Name:	D STATE #49 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: NORTH WALL PT. 1 (H101675-01)

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	08/11/2011	ND	416	104	400	3.92		
TPH 8015M		mg/kg		Analyzed By: ab						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/12/2011	ND	196	98.2	200	3.54		
DRO >C10-C28	<10.0	10.0	08/12/2011	ND	179	89.5	200	2.25		
<i>Surrogate: 1-Chlorooctane</i>		<i>111 %</i>	<i>70-130</i>							
<i>Surrogate: 1-Chlorooctadecane</i>		<i>128 %</i>	<i>70-130</i>							

Sample ID: NORTH WALL PT. 2 (H101675-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/11/2011	ND	416	104	400	3.92		
TPH 8015M		mg/kg		Analyzed By: ab						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/12/2011	ND	196	98.2	200	3.54		
DRO >C10-C28	<10.0	10.0	08/12/2011	ND	179	89.5	200	2.25		
<i>Surrogate: 1-Chlorooctane</i>		<i>105 %</i>	<i>70-130</i>							
<i>Surrogate: 1-Chlorooctadecane</i>		<i>121 %</i>	<i>70-130</i>							

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 08/10/2011
 Reported: 06/25/2013
 Project Name: D STATE #49 BATTERY
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 08/09/2011
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: NORTH WALL PT. 3 (H101675-03)

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	08/11/2011	ND	416	104	400	3.92		
TPH 8015M		mg/kg		Analyzed By: ab						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/12/2011	ND	196	98.2	200	3.54		
DRO >C10-C28	<10.0	10.0	08/12/2011	ND	179	89.5	200	2.25		
<i>Surrogate: 1-Chlorooctane</i>		<i>111 %</i>	<i>70-130</i>							
<i>Surrogate: 1-Chlorooctadecane</i>		<i>119 %</i>	<i>70-130</i>							

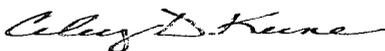
Sample ID: NORTH WALL PT. 4 (H101675-04)

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	08/11/2011	ND	416	104	400	3.92		
TPH 8015M		mg/kg		Analyzed By: ab						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/12/2011	ND	196	98.2	200	3.54		
DRO >C10-C28	<10.0	10.0	08/12/2011	ND	179	89.5	200	2.25		
<i>Surrogate: 1-Chlorooctane</i>		<i>108 %</i>	<i>70-130</i>							
<i>Surrogate: 1-Chlorooctadecane</i>		<i>116 %</i>	<i>70-130</i>							

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	08/10/2011	Sampling Date:	08/09/2011
Reported:	06/25/2013	Sampling Type:	Soil
Project Name:	D STATE #49 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: NORTH WALL PT. 5 (H101675-05)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	752	16.0	08/11/2011	ND	416	104	400	3.92		
TPH 8015M		mg/kg		Analyzed By: ab						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/12/2011	ND	196	98.2	200	3.54		
DRO >C10-C28	35.1	10.0	08/12/2011	ND	179	89.5	200	2.25		

Surrogate: 1-Chlorooctane 112 % 70-130
 Surrogate: 1-Chlorooctadecane 123 % 70-130

Sample ID: NORTH WALL PT. 6 (H101675-06)

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	08/11/2011	ND	416	104	400	3.92		
TPH 8015M		mg/kg		Analyzed By: ab						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/12/2011	ND	196	98.2	200	3.54		
DRO >C10-C28	<10.0	10.0	08/12/2011	ND	179	89.5	200	2.25		

Surrogate: 1-Chlorooctane 111 % 70-130
 Surrogate: 1-Chlorooctadecane 129 % 70-130

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 08/10/2011
 Reported: 06/25/2013
 Project Name: D STATE #49 BATTERY
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 08/09/2011
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: EAST WALL PT. 1 (H101675-07)

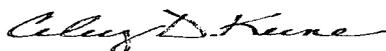
Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	08/11/2011	ND	416	104	400	3.92		
TPH 8015M		mg/kg		Analyzed By: ab						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/13/2011	ND	196	98.2	200	3.54		
DRO >C10-C28	91.8	10.0	08/13/2011	ND	179	89.5	200	2.25		

Surrogate: 1-Chlorooctane 110 % 70-130
 Surrogate: 1-Chlorooctadecane 119 % 70-130

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Celey D. Keene, Lab Director/Quality Manager

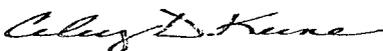
Notes and Definitions

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

Cardinal Laboratories

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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

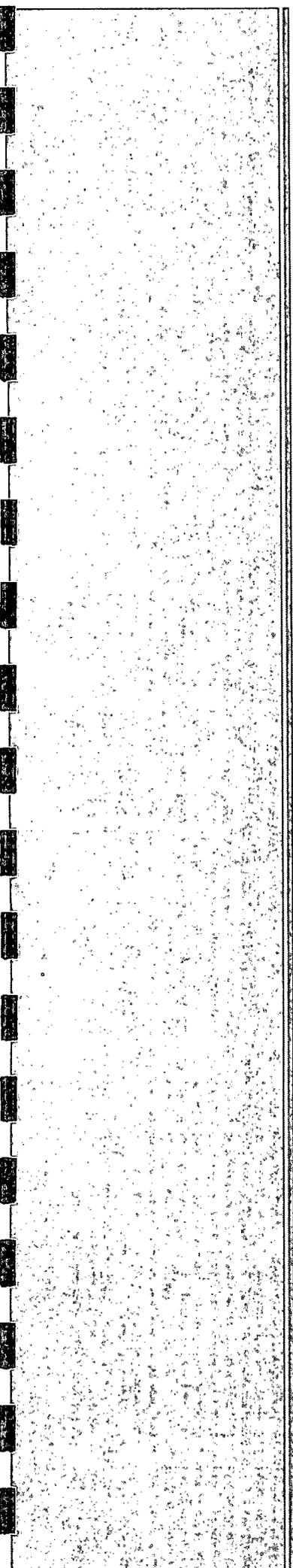
Company Name: Apache				BILL TO				ANALYSIS REQUEST																								
Project Manager: Natalie Gladden				P.O. #:																												
Address:				Company:																												
City:		State: NM		Zip:		Attn:																										
Phone #:		Fax #:		Address:																												
Project #:		Project Owner:		City:																												
Project Name: D-40 Emulsion line AID.				State:				Zip:																								
Project Location:				Phone #:																												
Sampler Name: Dave Harris				Fax #:																												
FOR LAB USE ONLY														Chlorides	TPH 8015 M	BTEX	Texas TPH	Complete Cations/Anions	TDS													
Lab I.D.		Sample I.D.		GIRABOR (COMP. # CONTAINERS)	MATRIX					PRESERV.		SAMPLING																				
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER:							DATE	TIME											
A101675				G-1									8-9-11							10:30	✓	✓										
1		North Wall PT 1		G-1									8-9-11							10:35	✓	✓										
2		North Wall PT 2		G-1									8-9-11							10:40	✓	✓										
3		North Wall PT 3		G-1									8-9-11							10:45	✓	✓										
4		North Wall PT 4		G-1									8-9-11							10:50	✓	✓										
5		North Wall PT 5		G-1									8-9-11							10:55	✓	✓										
6		North Wall PT 6		G-1									8-9-11							11:00	✓	✓										
7		EAST WALL PT 1		G-1																												

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Relinquished By: <i>Dave Harris</i>	Date: 8/9/11 Time: 7:30	Received By: <i>[Signature]</i>	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
Relinquished By: <i>[Signature]</i>	Date: 8/10/11 Time: 6:12	Received By: <i>Joceli Henson</i>	Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No	CHECKED BY: (Initials) <i>[Signature]</i>	REMARKS: email results Natalie.Gladden@usa.apachecorp.com; Zconder@rice-ecs.com; Bbaker@rice-ecs.com; hconder@rice-ecs.com; Lweinheimer@rice-ecs.com	

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

#26



Appendix D

Photo Documentation

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

Apache D State #049 Battery AD

Unit Letter P, Section 26, T17S, R28E



Initial release area, facing west

8/4/11



Initial release area, facing north

8/4/11



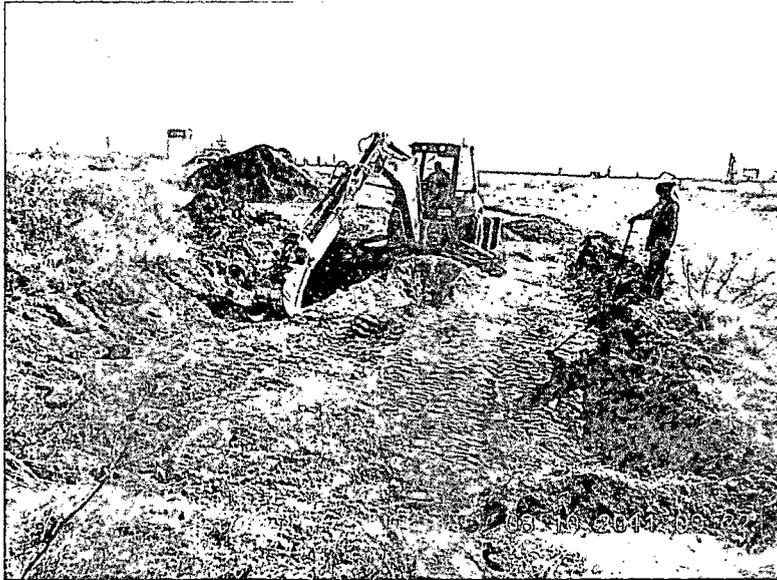
Initial release source, facing north

8/4/11



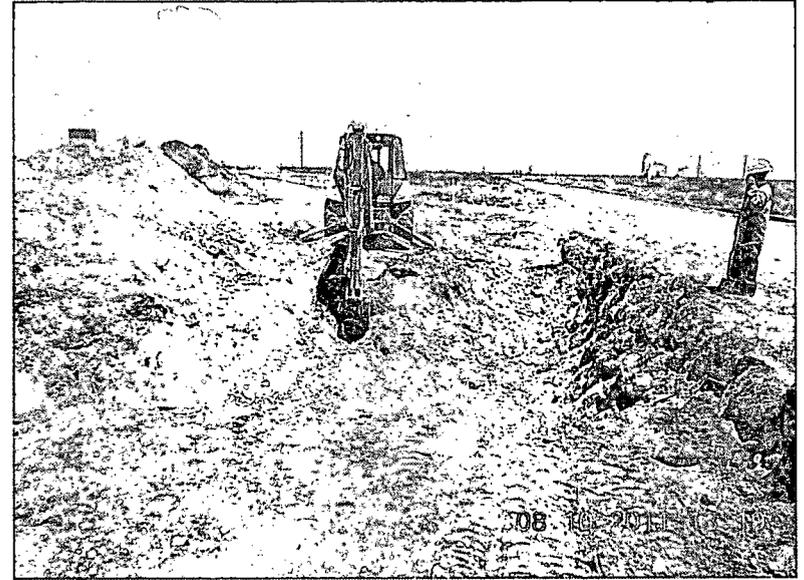
Scraping release area, facing west

8/4/11

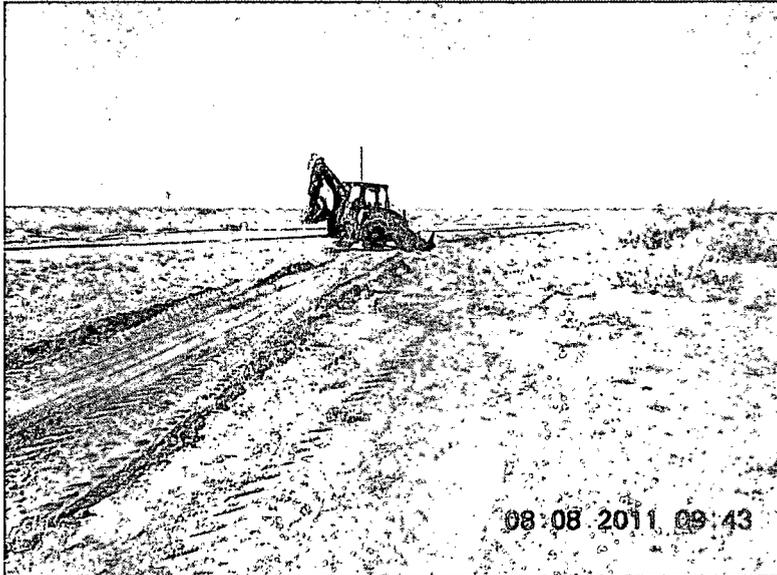


Digging vertical, facing east

8/10/11

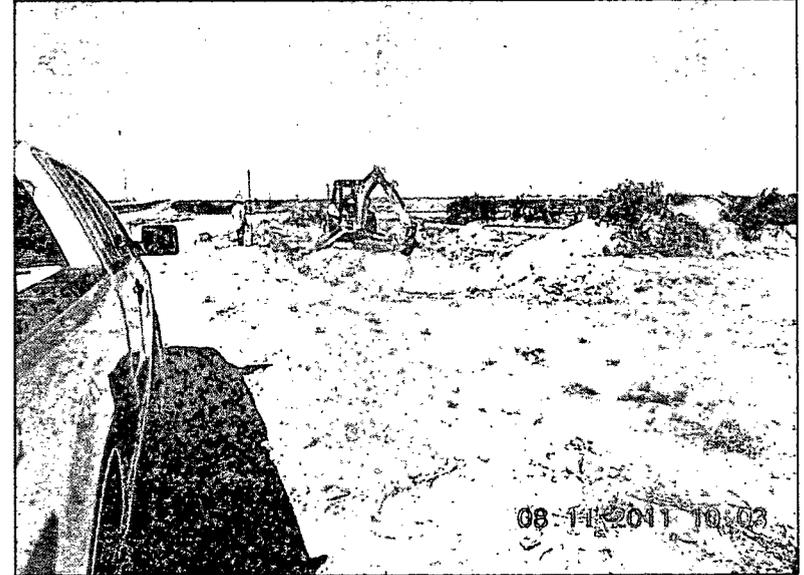


Excavating northwest excavation, facing east 8/10/11



Scraping release area, facing west

8/8/11



Excavating west excavation, facing west

8/10/11



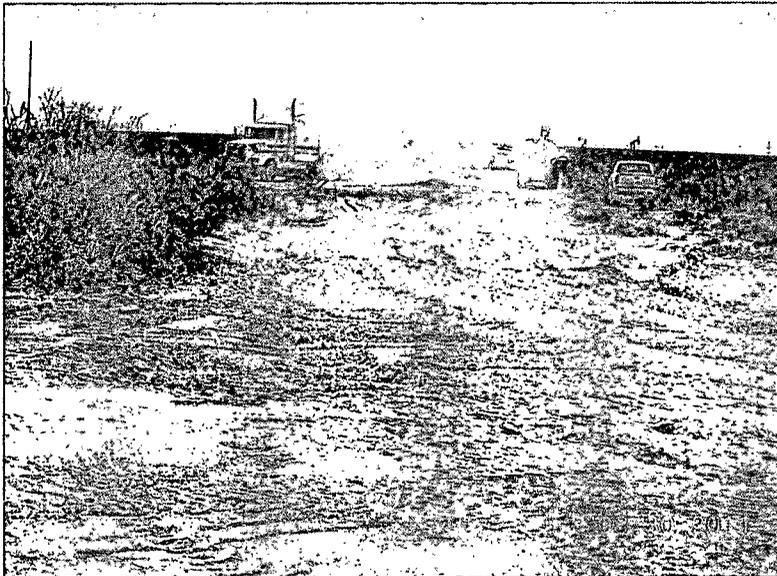
Final west excavation, facing west

8/11/11



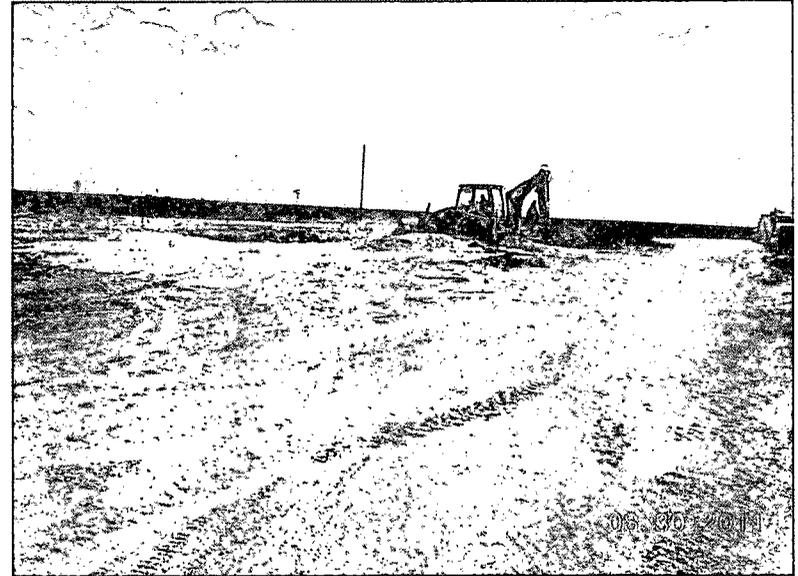
Final scrape, facing west

8/11/11



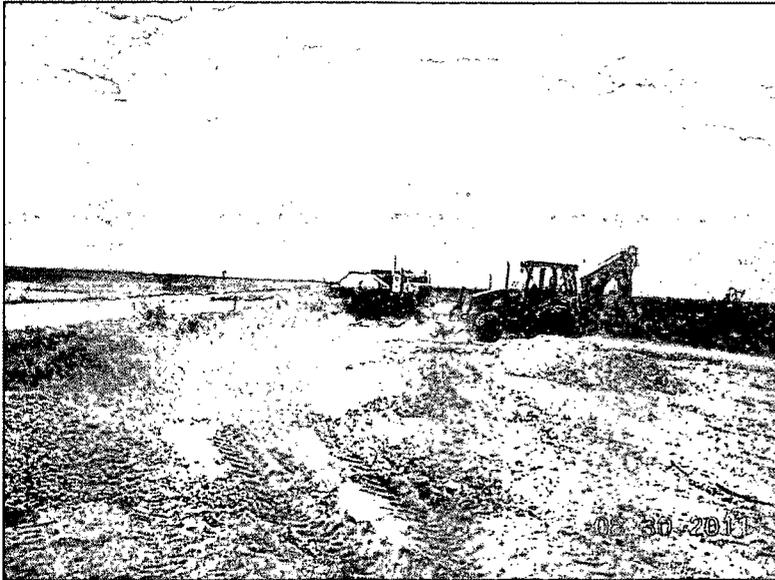
Importing soil, facing west

8/30/11

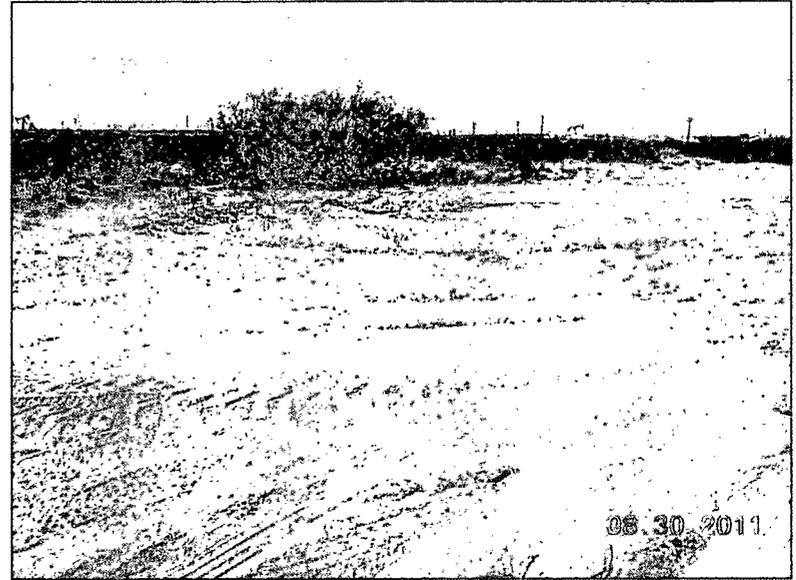


Backfilling northwest excavation, facing SW

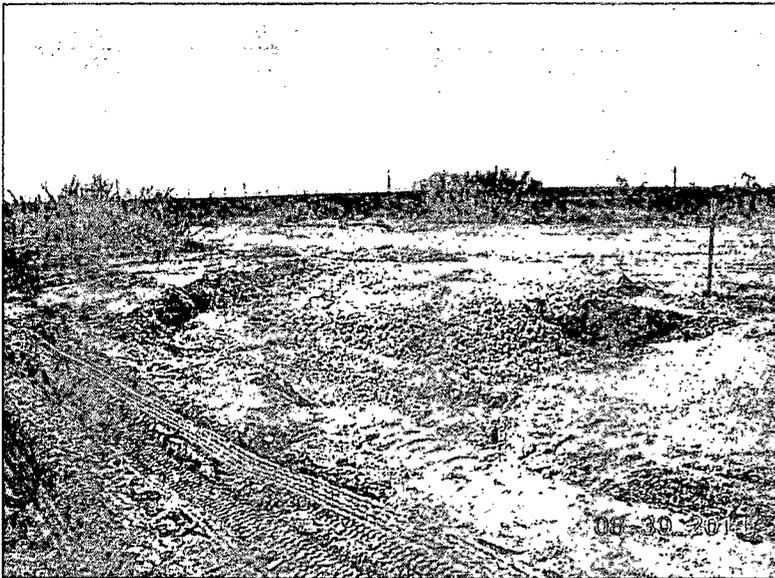
8/30/11



Backfilling west excavation, facing southwest 8/30/11



West excavation completed, facing north 8/30/11



Northwest excavation completed, facing NW 8/30/11



Site completed, facing southeast 8/30/11

Appendix E

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	PO Box 1849, Eunice, NM 88231	Telephone No.	(432) 631-6982
Facility Name	D State #49 Bty (near #59 well)	Facility Type	Production Battery
Surface Owner	State	Mineral Owner	State
			API No. 30-015-38470

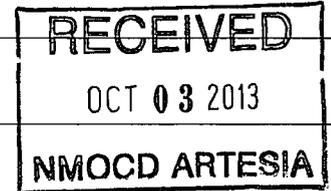
LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
P	26	17S	28E	290	FSL	175	FEL	Eddy

Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release	Produced Water	Volume of Release	45 bbls	Volume Recovered	30 bbls
Source of Release	Fiberglass line	Date and Hour of Occurrence	8/4/11 8:30 am	Date and Hour of Discovery	same
Was Immediate Notice Given?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?			
By Whom?	Date and Hour				
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input 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 buried fiberglass line burst inside the junction box. The line has been repaired and remediation has begun.					



Describe Area Affected and Cleanup Action Taken.* 17,000 sq ft of land has been disturbed along the pipeline right-of-way. RECS personnel were on site beginning on August 4th, 2011 to work the D State #49 Battery. Initial surface samples were taken along the release area and field tested for chlorides and hydrocarbons. The samples were then taken to a commercial laboratory for analysis. Two verticals were installed at the site to determine the depth of contamination at the site. Based on the vertical data, two excavations were dug at the vertical sites. The northwest excavation was excavated to 4 ft bgs and the west excavation was excavated to 5 ft bgs. Final samples of the walls and bottoms of each excavation were taken to a commercial laboratory for analysis of chlorides and hydrocarbons. Two scrapes were completed at the site. Both the northwest and south scrapes were scraped to a depth of six inches. After the scrapes were completed, six points were taken along the length of the south scrape and taken to a commercial laboratory for analysis. The walls and bottom samples of the northwest scrape were also taken to a commercial laboratory for analysis. The excavated soil was taken to a NMOCD approved facility for disposal. Clean soil was imported to the site to use as backfill. The lease road was backfilled with caliche and the excavations and scrapes in the pasture were backfilled with top soil.

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

Signature: <i>Bruce Baker</i>		OIL CONSERVATION DIVISION	
Printed Name: Bruce Baker		Approved by Environmental Specialist:	
Title: Environmental Tech		Approval Date:	Expiration Date:
E-mail Address: larry.baker@apachecorp.com		Conditions of Approval:	
Date: 8-30-13	Phone: (432) 631-6982	Attached <input type="checkbox"/>	

* Attach Additional Sheets If Necessary