

District I
1625 N. French Dr., Hobbs, NM 88240
District II
311 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

Form C-141
Revised August 8, 2011

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

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

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 Argo #7	Facility Type Injection Well
Surface Owner Apache	Mineral Owner
API No. 30-025-09915	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
L	15	21S	37E	2310	FSL	990	FWL	Lea

Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release Unknown	Volume Recovered 70 bbls
Source of Release Injection Well	Date and Hour of Occurrence	Date and Hour of Discovery 9/10/13 0800 hrs
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Geoff Leking, NMOCD	
By Whom? Bruce Baker	Date and Hour 9/10/13 11:17 a.m.	
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.*

DTW=53'

Describe Cause of Problem and Remedial Action Taken.* The bull plug was pulled out of valve and cattle opened the valve. A total of 70 bbls of produced water was recovered using vacuum truck. The site has been mapped and surface samples collected.

Describe Area Affected and Cleanup Action Taken.* RECS personnel were on site beginning on September 10th, 2013 to assess the site. Seven points throughout the surface of the release were field tested for chlorides and organics vapors using a PID meter. The samples were then taken to a commercial laboratory for analysis. Chloride values at all seven points were elevated, Gasoline Range Organics (GRO) readings were non-detect and Diesel Range Organics (DRO) readings were either non-detect or below regulatory standards. The site was scraped down six inches and a total of 204 yards of excavated soil was sent to a NMOCD approved facility for disposal. An 8 point bottom composite sample was taken from the base of the scrape and sent to a commercial laboratory for analysis. The composite returned a chloride value of 224 mg/kg, a GRO value of non-detect and a DRO value of 17.3 mg/kg. A request to backfill the site was sent to NMOCD on September 25th, 2013. NMOCD responded that Pt. 7, which had a field chloride reading of 497 mg/kg, needed to be scraped down to 1 ft bgs and then Apache had permission to backfill the site. Pt. 7 was scraped down another 6 inches and a sample from the bottom of the Pt. 7 scrape was taken to a commercial laboratory for analysis of chlorides and returned a result of 144 mg/kg. A total of 252 yards of soil was imported to the site to serve as backfill. A 5 point composite sample of this backfill was taken to a commercial laboratory for analysis and returned a chloride, GRO and DRO result of non-detect. The site was backfilled, watered down and roller packed.

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	<i>Geoffrey Leking</i> Approved by Environmental Specialist Environmental Specialist	
Title: Environmental Technician	Approval Date: 2/12/14	Expiration Date: -
E-mail Address: larry.baker@apachecorp.com	Conditions of Approval: -	Attached <input type="checkbox"/> IRP-9-13-2952
Date: 11-18-13 Phone: (432) 631-6982		

Attach Additional Sheets If Necessary

JUN 10 2014

NSAD 1416132675 R



EXPLORING WHAT'S POSSIBLE

APACHE CORPORATION

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

Argo #7
(1RP-9-13-2952)

Termination Request

approved
Jeffrey Sekins
Environmental Specialist
NMOC0-DIST 1
2112114

API 30-025-09915

Release Discovery Date: September 10th, 2013

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

Rice Environmental Consulting & Safety

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

November 15th, 2013

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 – Argo #7 (IRP-9-13-2952)
UL/L sec. 15 T21S R37E
API No. 30-025-09915**

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 2.4 miles north of Eunice, New Mexico at UL/L 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 September 10th, 2013, Apache discovered a release of produced water from an injection well. The bull plug was pulled out of the valve and cattle opened the valve. An unknown volume of produced water was released. A vacuum truck was called to the site and removed 70 barrels of produced water. A total 12,461 sq ft of lease pad and pasture land was affected by the release. An initial C-141 was submitted to NMOCD and approved on September 11th, 2013 (Appendix A).

RECS personnel were on site beginning on September 10th, 2013 to assess the site. Seven points throughout the surface of the release were field tested for chlorides and organic vapors using a PID meter (Figure 1). The samples were then taken to a commercial laboratory for analysis (Appendix B). Chloride values at all seven points were elevated, Gasoline Range Organics (GRO) readings were non-detect and Diesel Range Organics (DRO) readings were either non-detect or below regulatory standards.

The site was scraped down six inches and a total of 204 yards of excavated soil was sent to a NMOCD approved facility for disposal. An 8 point bottom composite sample was taken from the base of the scrape and sent to a commercial laboratory for analysis. The composite returned a chloride value of 224 mg/kg, a GRO value of non-detect and a DRO value of 17.3 mg/kg. A request to backfill the site was sent to NMOCD on September 25th, 2013. NMOCD responded that Pt. 7, which had a field chloride reading of 497 mg/kg, needed to be scraped down to 1 ft bgs and then Apache had permission to backfill

the site. Pt. 7 was scraped down another 6 inches and a sample from the bottom of the Pt. 7 scrape was taken to a commercial laboratory for analysis of chlorides and returned a result of 144 mg/kg (Figure 2).

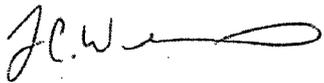
A total of 252 yards of soil was imported to the site to serve as backfill. A 5 point composite sample of this backfill was taken to a commercial laboratory for analysis and returned a chloride, GRO and DRO result of non-detect (Appendix C). The site was backfilled, watered down and roller packed.

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

Given that the contaminated soil was removed from the site and replaced with clean, imported soil, Apache requests 'remediation termination' and closure of the site. A final C-141 is located in Appendix E.

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,



Lara Weinheimer
Project Scientist
RECS
(575) 441-0431

Attachments:

- Figure 1 – Initial Sampling Data
- Figure 2 – Excavation Data
- Appendix A – Initial C-141
- Appendix B – Initial Laboratory Analysis
- Appendix C – Excavation 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 Sampling Data

	Cl-	PID	GRO	DRO
Point 1 Surface	2560	5.8	<10	<10
Point 2 Surface	2600	28.4	<10	<10
Point 3 Surface	1380	13.1	<10	14.9
Point 4 Surface	1600	17.6	<10	60.5
Point 5 Surface	1570	14.3	<10	<10
Point 6 Surface	1360	11.2	<10	<10
Point 7 Surface	1640	8.1	<10	<10



Legend

- ▲ SAMPLE POINTS
- STAIN (12,461 sq ft)
- ▨ NO STAIN

Cl- LAB DATA
Cl- FIELD DATA

DGW: 53.5 ft

Landowner: Apache Corp.

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



APACHE
ARGO #7
1RP-9-13-2952
LEGALS: UL/L sec. 15
T-21-S R-37-E
LEA COUNTY, NM

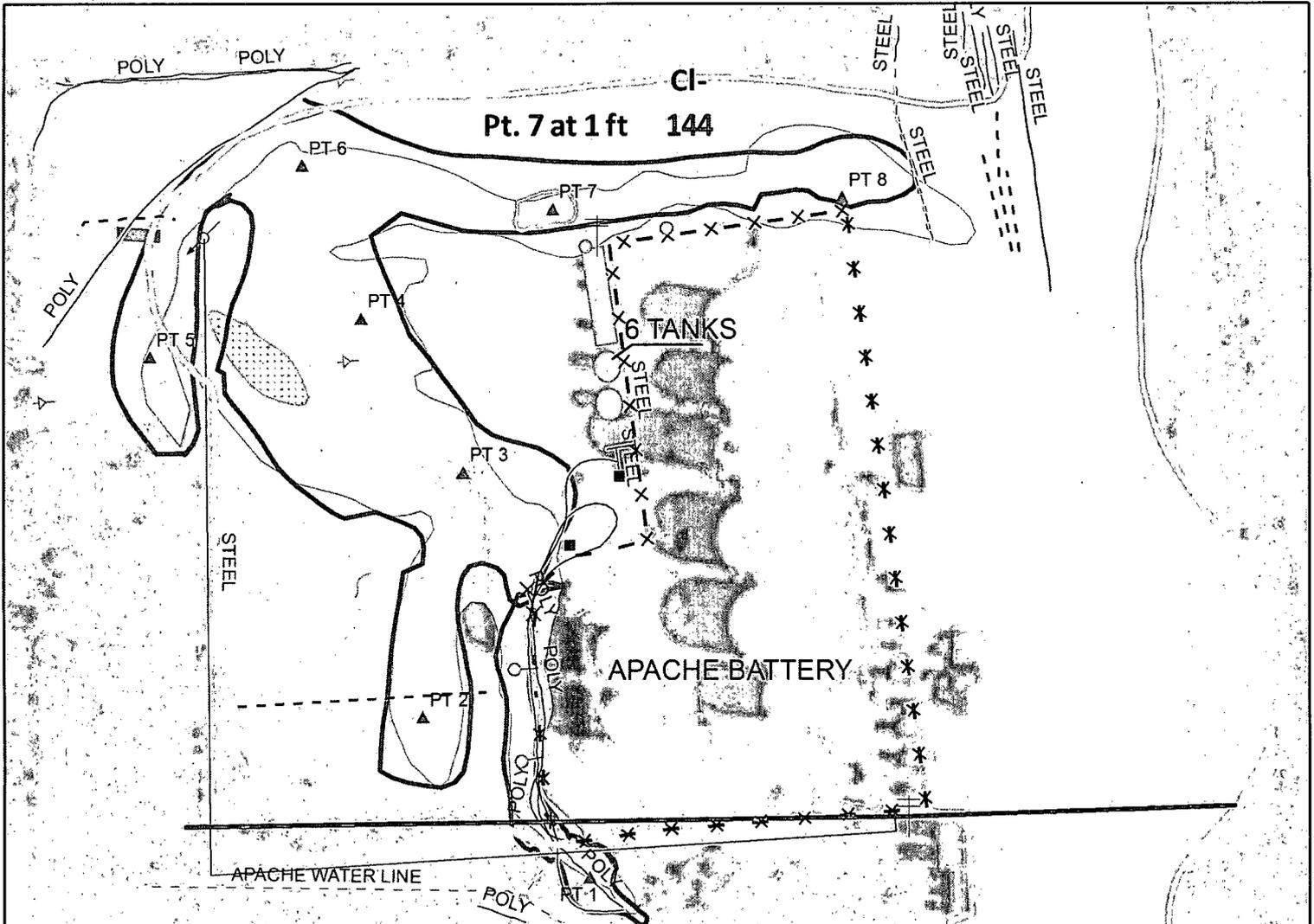
Figure 1



0 30 60
□□□□ Feet

GPS date: 9/10/13
Drawing date: 9/11/13
Drafted by: L. Weinheimer

Excavation Data



CI- **PID** **GRO** **DRO**
8 Pt. Comp **224** **1.5** **<10** **17.3**

Legend		
▲ FINAL SAMPLE POINTS	--- BURIED PIPELINE	▨ CONCRETE
○ 50 GAL DRUM	X - FENCE	□ VALVE BOX
○ CONTAINMENT	- - - LINEFINDER HIT	▨ STAIN (12,461 sq ft)
▣ CONTROL BOX	— OVERHEAD ELECTRIC LI	▨ NO STAIN
⚡ DEADMAN	▬ PAD/ROAD EDGE	CI- FIELD DATA
⚡ ELECTRIC POLE	— SURFACE PIPELINE	CI- LAB DATA
⊕ INJECTION WELLHEAD	▭ SCRAPE AT PT. 7	
X PIPE END	▭ SCRAPE	
	▭ CHEMICAL TANK	

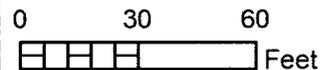
Landowner: Apache Corp.

DGW: 53.5 ft.

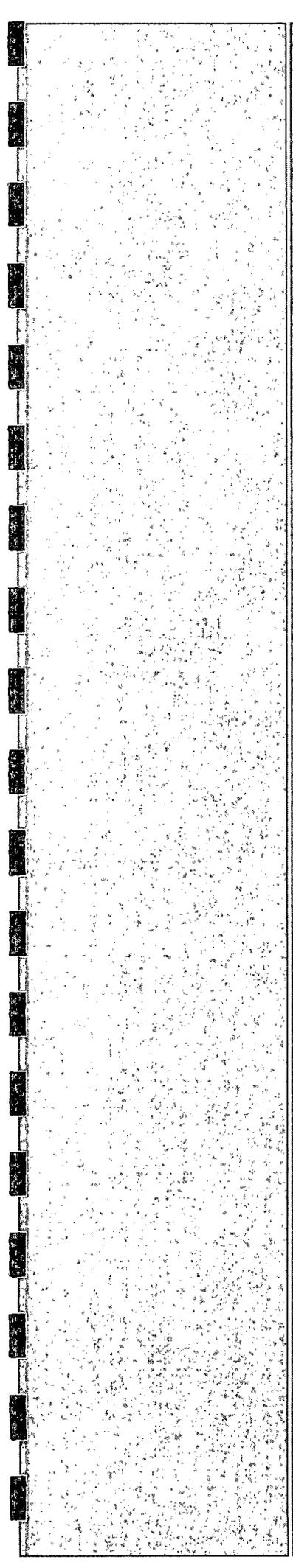


APACHE
ARGO #7
1RP-9-13-2952
 LEGALS: UL/L sec. 15
 T-21-S R-37-E
 LEA COUNTY, NM

Figure 2



GPS date: 10/16/13 ZC
 Drawing date: 10/17/13
 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
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

HOBBS OCD

State of New Mexico
Energy Minerals and Natural Resources

Form C-141
Revised August 8, 2011

SEP 09 2013

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

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

RECEIVED

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 Argo # 7	Facility Type Injection Well

Surface Owner Apache	Mineral Owner	API No. 30-025-09915
----------------------	---------------	----------------------

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
L	15	21S	37E	2310	FSL	990	FWL	Lea

Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release Produced water	Volume of Release Unknown	Volume Recovered 70 bbls
Source of Release Injection well	Date and Hour of Occurrence	Date and Hour of Discovery
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Jeff Leking	9/10/13 0800 HRS JRL 9/11/13
By Whom? Bruce Baker	Date and Hour 9/10/13 11:17 a.m.	
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 bull plug was pulled out of valve and cattle opened the valve. A total of 70 bbls of produced water was recovered using vacuum truck. The site has been mapped and surface samples collected.

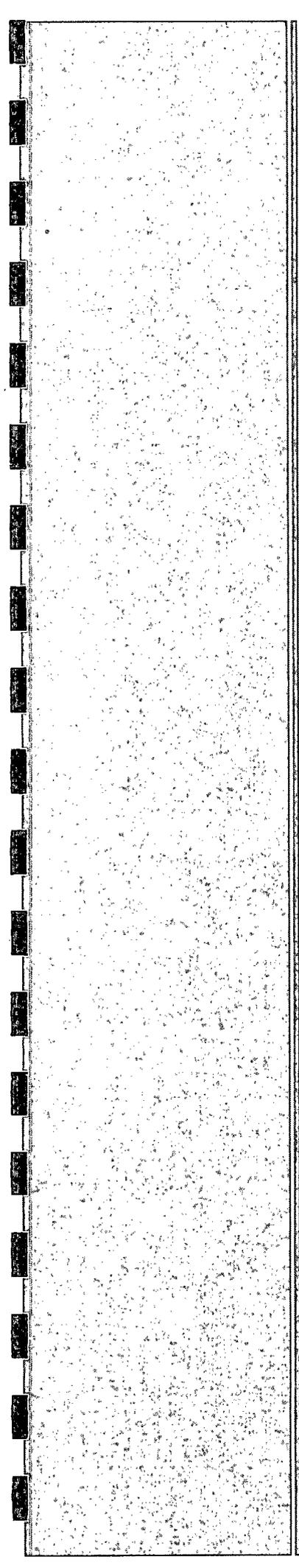
Describe Area Affected and Cleanup Action Taken.

The majority of the affected area is on lease pad. A one call was placed and the wet area will be scraped and site will be delineated.

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>	<p>OIL CONSERVATION DIVISION</p> <p><i>Larry Baker</i> Environmental Specialist</p>	
Printed Name: Bruce Baker	Approved by Environmental Specialist:	
Title: Environmental Technician	Approval Date: 9/11/13	Expiration Date: 11/11/13
E-mail Address: larry.baker@apachecorp.com	Conditions of Approval: SUBMIT FINAL C-141 BY 11/11/13	Attached <input type="checkbox"/> WRP-9-13-2952
Date: 9/11/13	Phone: (432) 631-6982	

* Attach Additional Sheets If Necessary



Appendix A

Initial Laboratory Analysis

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

September 12, 2013

BRUCE BAKER

APACHE - EUNICE

P. O. BOX 1849

EUNICE, NM 88231

RE: ARGO #7

Enclosed are the results of analyses for samples received by the laboratory on 09/10/13 15:15.

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
 BRUCE BAKER
 P. O. BOX 1849
 EUNICE NM, 88231
 Fax To: 394-2425

 Received: 09/10/2013
 Reported: 09/12/2013
 Project Name: ARGO #7
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 09/10/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: PT. 1 SURFACE (H302179-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2560	16.0	09/11/2013	ND	416	104	400	3.92		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	09/11/2013	ND	193	96.4	200	1.08		
DRO >C10-C28	<10.0	10.0	09/11/2013	ND	185	92.3	200	2.55		

Surrogate: 1-Chlorooctane 71.7% 65.2-140
 Surrogate: 1-Chlorooctadecane 82.4% 63.6-154

Sample ID: PT. 2 SURFACE (H302179-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2600	16.0	09/11/2013	ND	416	104	400	3.92		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	09/11/2013	ND	193	96.4	200	1.08		
DRO >C10-C28	<10.0	10.0	09/11/2013	ND	185	92.3	200	2.55		

Surrogate: 1-Chlorooctane 81.5% 65.2-140
 Surrogate: 1-Chlorooctadecane 94.0% 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 09/10/2013
 Reported: 09/12/2013
 Project Name: ARGO #7
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 09/10/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: PT. 3 SURFACE (H302179-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1380	16.0	09/11/2013	ND	416	104	400	3.92		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	09/11/2013	ND	193	96.4	200	1.08		
DRO >C10-C28	14.9	10.0	09/11/2013	ND	185	92.3	200	2.55		
<i>Surrogate: 1-Chlorooctane</i>	83.2 %	65.2-140								
<i>Surrogate: 1-Chlorooctadecane</i>	94.0 %	63.6-154								

Sample ID: PT. 4 SURFACE (H302179-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1600	16.0	09/11/2013	ND	432	108	400	3.64		
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	09/11/2013	ND	193	96.4	200	1.08		
DRO >C10-C28	60.5	10.0	09/11/2013	ND	185	92.3	200	2.55		
<i>Surrogate: 1-Chlorooctane</i>	75.1 %	65.2-140								
<i>Surrogate: 1-Chlorooctadecane</i>	85.3 %	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

Analytical Results For:

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

 Received: 09/10/2013
 Reported: 09/12/2013
 Project Name: ARGO #7
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 09/10/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: PT. 5 SURFACE (H302179-05)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1570	16.0	09/11/2013	ND	432	108	400	3.64		
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	09/11/2013	ND	193	96.4	200	1.08		
DRO >C10-C28	<10.0	10.0	09/11/2013	ND	185	92.3	200	2.55		
<i>Surrogate: 1-Chlorooctane</i>	<i>71.6 %</i>	<i>65.2-140</i>								
<i>Surrogate: 1-Chlorooctadecane</i>	<i>82.4 %</i>	<i>63.6-154</i>								

Sample ID: PT. 6 SURFACE (H302179-06)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1360	16.0	09/11/2013	ND	432	108	400	3.64		
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	09/11/2013	ND	193	96.4	200	1.08		
DRO >C10-C28	<10.0	10.0	09/11/2013	ND	185	92.3	200	2.55		
<i>Surrogate: 1-Chlorooctane</i>	<i>74.3 %</i>	<i>65.2-140</i>								
<i>Surrogate: 1-Chlorooctadecane</i>	<i>87.8 %</i>	<i>63.6-154</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
 BRUCE BAKER
 P. O. BOX 1849
 EUNICE NM, 88231
 Fax To: 394-2425

 Received: 09/10/2013
 Reported: 09/12/2013
 Project Name: ARGO #7
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 09/10/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: PT. 7 SURFACE (H302179-07)
Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1640	16.0	09/11/2013	ND	432	108	400	3.64	

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	09/11/2013	ND	193	96.4	200	1.08	
DRO >C10-C28	<10.0	10.0	09/11/2013	ND	185	92.3	200	2.55	

Surrogate: 1-Chlorooctane 66.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 77.5 % 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

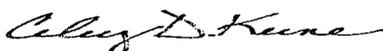
Notes and Definitions

- 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

Appendix C

Excavation Laboratory Analyses

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

September 24, 2013

BRUCE BAKER

APACHE - EUNICE

P. O. BOX 1849

EUNICE, NM 88231

RE: ARGO #7 AD

Enclosed are the results of analyses for samples received by the laboratory on 09/19/13 16:17.

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
 BRUCE BAKER
 P. O. BOX 1849
 EUNICE NM, 88231
 Fax To: 394-2425

 Received: 09/19/2013
 Reported: 09/24/2013
 Project Name: ARGO #7 AD
 Project Number: NOT GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 09/19/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: 8 PT. BOTTOM COMP @ 6" (H302287-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	09/23/2013	ND	432	108	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	09/20/2013	ND	200	100	200	1.88		
DRO >C10-C28	17.3	10.0	09/20/2013	ND	195	97.5	200	2.24		

Surrogate: 1-Chlorooctane 108 % 65.2-140

Surrogate: 1-Chlorooctadecane 114 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

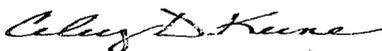
Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

October 17, 2013

BRUCE BAKER

APACHE - EUNICE

P. O. BOX 1849

EUNICE, NM 88231

RE: ARGO #7

Enclosed are the results of analyses for samples received by the laboratory on 10/16/13 16:15.

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
 BRUCE BAKER
 P. O. BOX 1849
 EUNICE NM, 88231
 Fax To: 394-2425

 Received: 10/16/2013
 Reported: 10/17/2013
 Project Name: ARGO #7
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 10/16/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

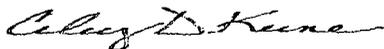
Sample ID: POINT 7 @ 1' (H302511-01)

Analyte	mg/kg		Analyzed By: AP						RPD	Qualification
	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC			
Chloride	144	16.0	10/17/2013	ND	400	100	400	3.92		

Cardinal Laboratories

*=Accredited Analyte

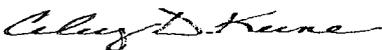
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence or any other cause whatsoever shall be deemed waived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



Celestine D. Keene, Lab Director/Quality Manager

Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
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- *** 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



Deley 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

Rush

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <i>Apache</i>		BILL TO		ANALYSIS REQUEST																						
Project Manager: <i>Kyle Norman</i>		P.O. #:		Chlorides	TPH 8015 M	BTEX	Texas TPH	Complete Cations/Anions	TDS																	
Address:		Company:																								
City: Hobbs State: NM Zip: 88240		Attn:																								
Phone #: Fax #:		Address:																								
Project #: Project Owner:		City:																								
Project Name:		State: Zip:																								
Project Location: <i>ARGO #7</i>		Phone #:																								
Sampler Name: <i>Kyle Schnaidt</i>		Fax #:																								
FOR LAB USE ONLY										MATRIX		PRESERV.		SAMPLING												
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS							GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE/COOL	OTHER:	DATE	TIME						
<i>H302511</i>	<i>point 7 @ 1'</i>	<i>6</i>	<i>1</i>			<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>		<i>10-16-13</i>	<i>12:10</i>	<input checked="" type="checkbox"/>											

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Relinquished By: <i>Kyle Schnaidt</i>	Date: <i>10-16-13</i> Time: <i>4:15</i>	Received By: <i>Jodi Benson</i>	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date:	Received By:	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 <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	CHECKER BY: <i>[Signature]</i>	REMARKS: <i>kschnaidt@rice-ecs.com</i> <i>Knorman@rice-ecs.com</i> <i>Kjones@riceswd.com; jkamplain@rice-ecs.com</i> <i>hconder@rice-ecs.com; Lweinheimer@rice-ecs.com</i> <i>Larry Baker@apachecorp.com</i>	

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

#54

October 21, 2013

BRUCE BAKER

APACHE - EUNICE

P. O. BOX 1849

EUNICE, NM 88231

RE: ARGO #7

Enclosed are the results of analyses for samples received by the laboratory on 10/16/13 16:15.

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.

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Method EPA 524.4	Regulated VOCs (V1, V2, V3)

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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:	10/16/2013	Sampling Date:	10/16/2013
Reported:	10/21/2013	Sampling Type:	Soil
Project Name:	ARGO #7	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

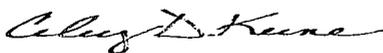
Sample ID: 5 PT COMP CALICHE BACKFILL (H302512-01)

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	10/18/2013	ND	400	100	400	3.92		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	10/18/2013	ND	204	102	200	8.49		
DRO >C10-C28	<10.0	10.0	10/18/2013	ND	199	99.4	200	8.56		
Surrogate: 1-Chlorooctane	113 %	65.2-140								
Surrogate: 1-Chlorooctadecane	116 %	63.6-154								

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

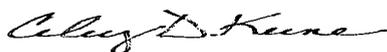
Notes and Definitions

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Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



ARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <i>Apache</i>		BILL TO		ANALYSIS REQUEST																		
Project Manager: <i>Kyle Norman</i>		P.O. #:		Chlorides	TPH 8015 M	BTEX	Texas TPH	Complete Cations/Anions	TDS													
Address:		Company:																				
City: Hobbs State: NM Zip: 88240		Attn:																				
Phone #: Fax #:		Address:																				
Project #: Project Owner:		City:																				
Project Name:		State: Zip:																				
Project Location: <i>ARGO #17</i>		Phone #:																				
Sampler Name: Kyle Schnaidt		Fax #:																				
FOR LAB USE ONLY:																						
Lab I.D.	Sample I.D.	(G)RAB OR (C)IMP.	# CONTAINERS							MATRIX				PRESERV.		SAMPLING						
<i>H302512</i>	<i>5 point composite caliche bank</i>	<i>6</i>	<i>1</i>	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME								
						<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>		<i>10-16-13</i>	<i>2:30</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:	Date:	Received By:	Phone Result:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
<i>Kyle Schnaidt</i>	<i>10-16-13</i>	<i>Jodi Henson</i>	Fax Result:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
	Time:		REMARKS:		
	<i>4:15</i>		<i>kschnaidt@rice-ecs.com</i>		
Relinquished By:	Date:	Received By:	<i>Knorman@rice-ecs.com</i>		
	Time:		<i>Kjones@riceswd.com; jkamlain@rice-ecs.com</i>		
Delivered By: (Circle One)	Sample Condition	CHECKED BY:	<i>hconder@rice-ecs.com; Lweinheimer@rice-ecs.com</i>		
Sampler - UPS - Bus - Other:	Cool Intact	<i>[Signature]</i>			
	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				
	<input type="checkbox"/> No <input type="checkbox"/> No				

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

#54

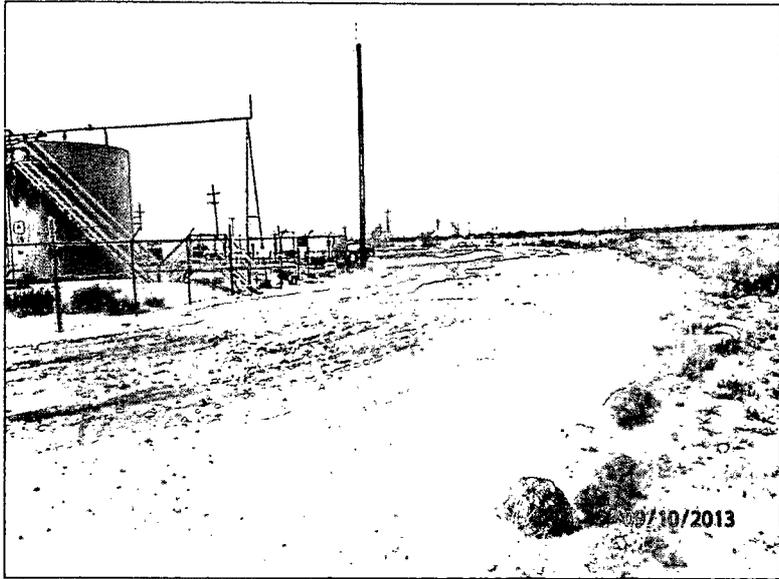
Appendix D

Photo Documentation

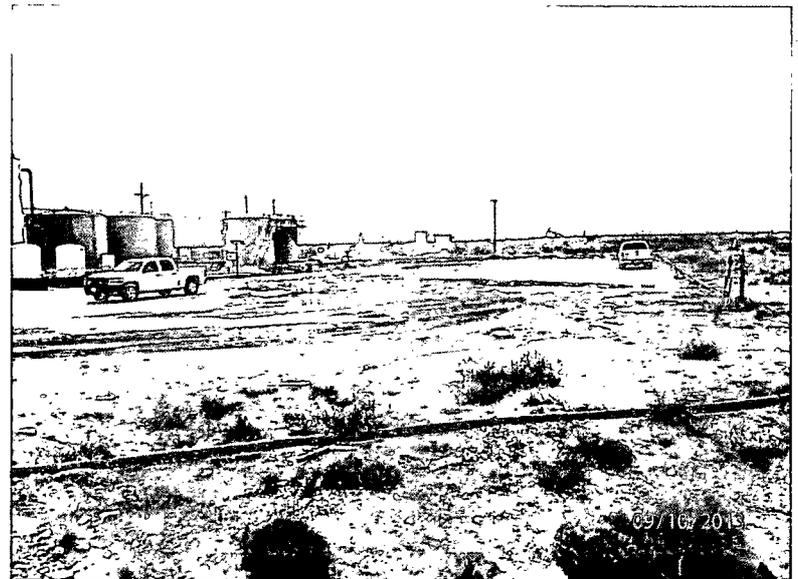
RICE Environmental Consulting and Safety (RECS)
P.O. Box 2948 Hobbs, NM 88241
Phone 575.393.2967

Apache Argo #7

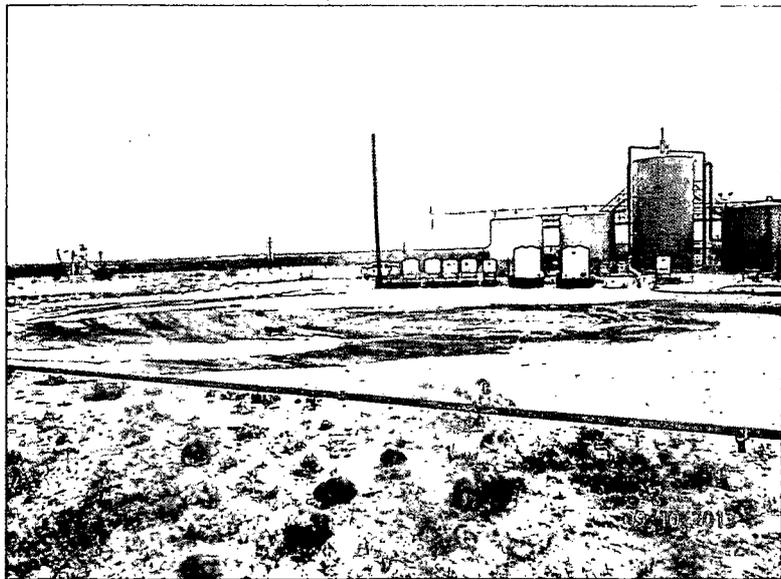
Unit Letter L, Section 15, T21S, R37E



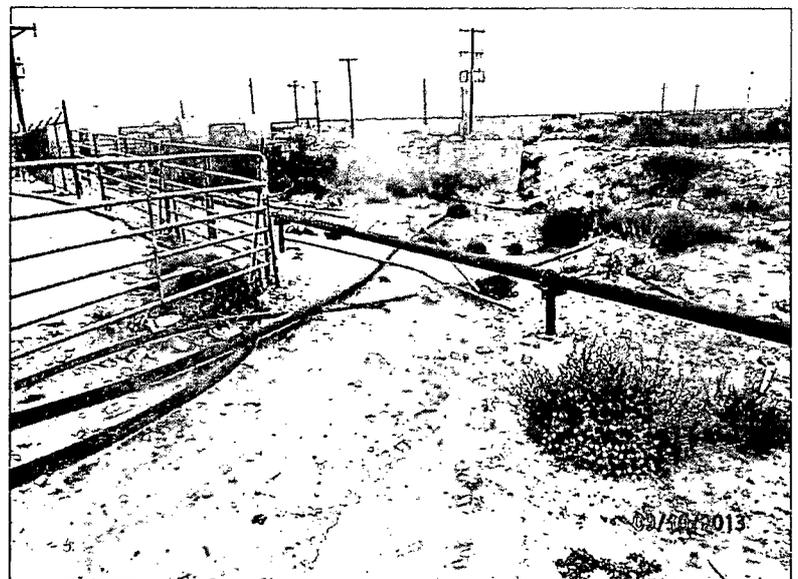
Initial release area, facing west 9/10/13



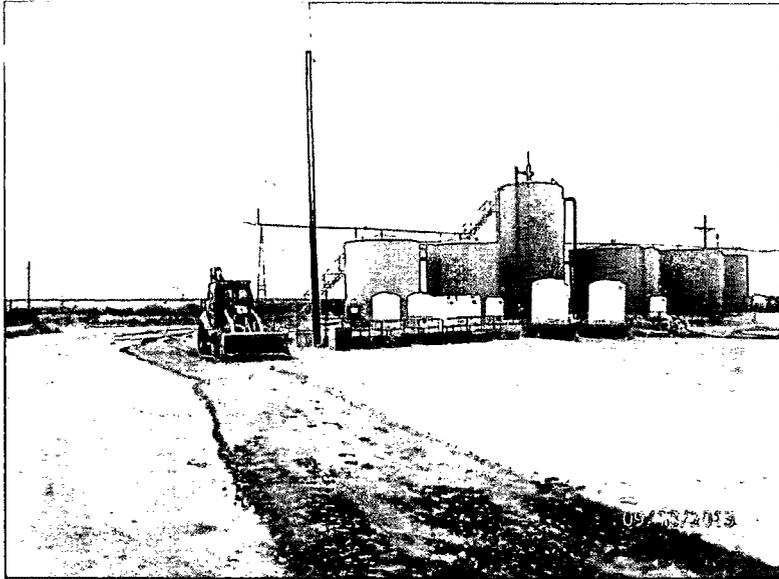
Initial release area, facing southeast 9/10/13



Initial release area, facing northeast 9/10/13



Initial release area, facing southeast 9/10/13



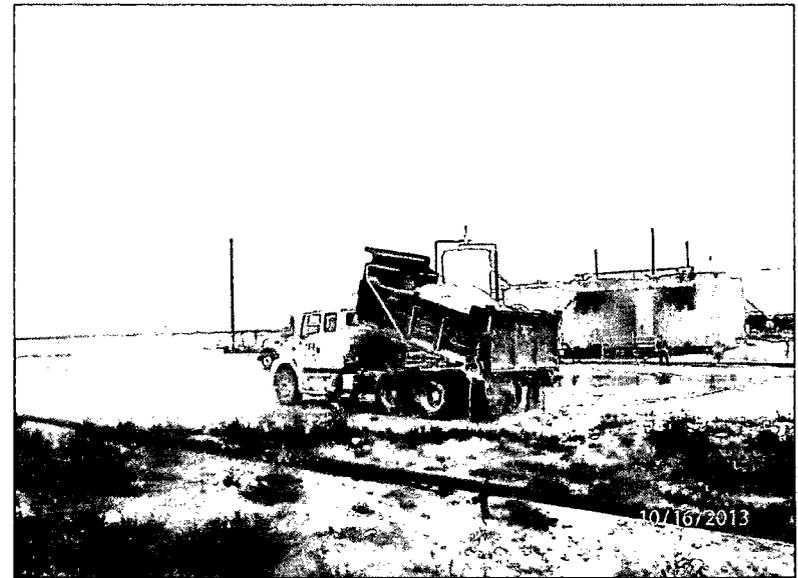
Scraping release area, facing southeast 9/18/13



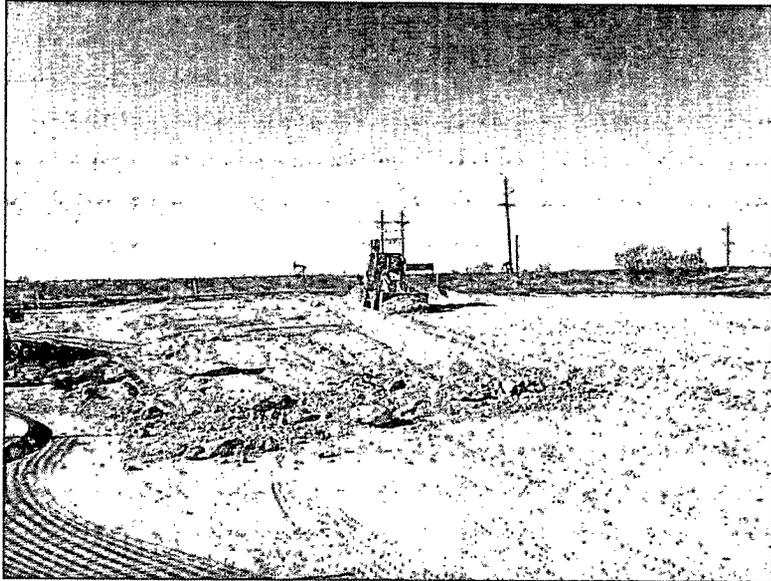
Exporting soil, facing east 9/18/13



Sampling scrape, facing southwest 9/19/13

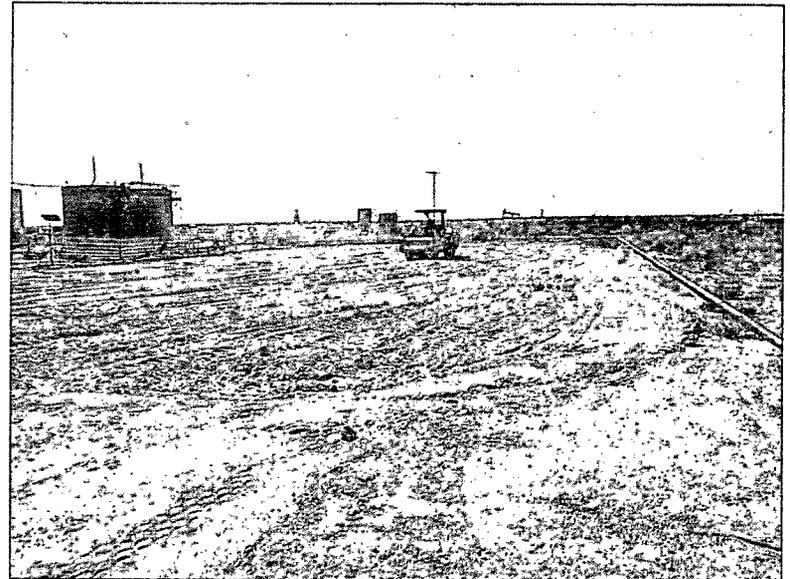


Importing caliche, facing northeast 10/16/13

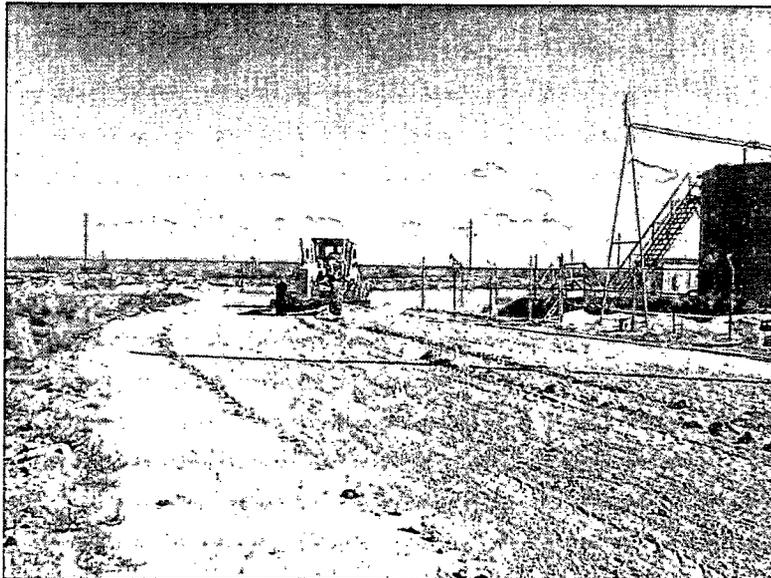


Backfilling site, facing south

11/1/13

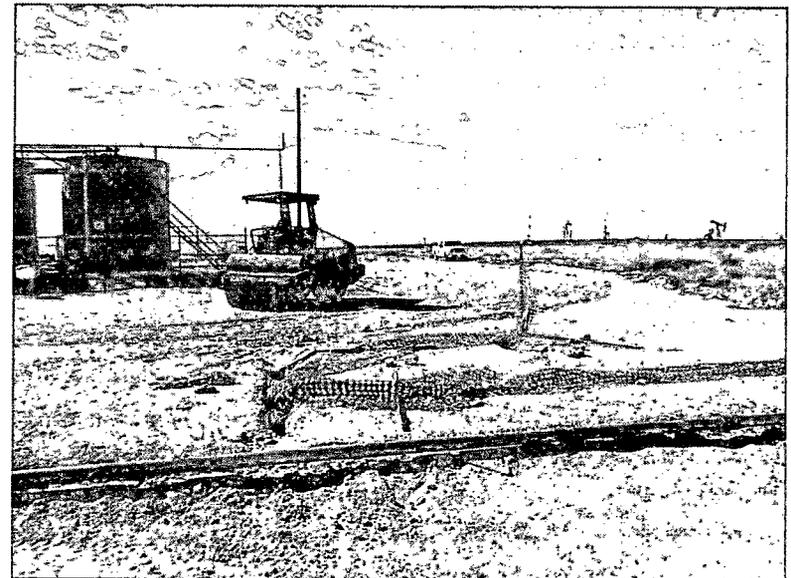


Using roller to compact caliche, facing south 11/1/13



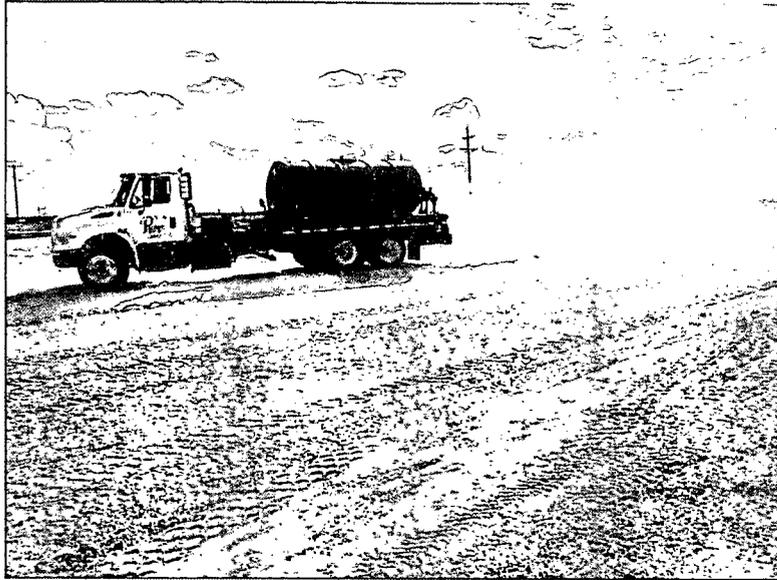
Using maintainer on road, facing east

11/4/13



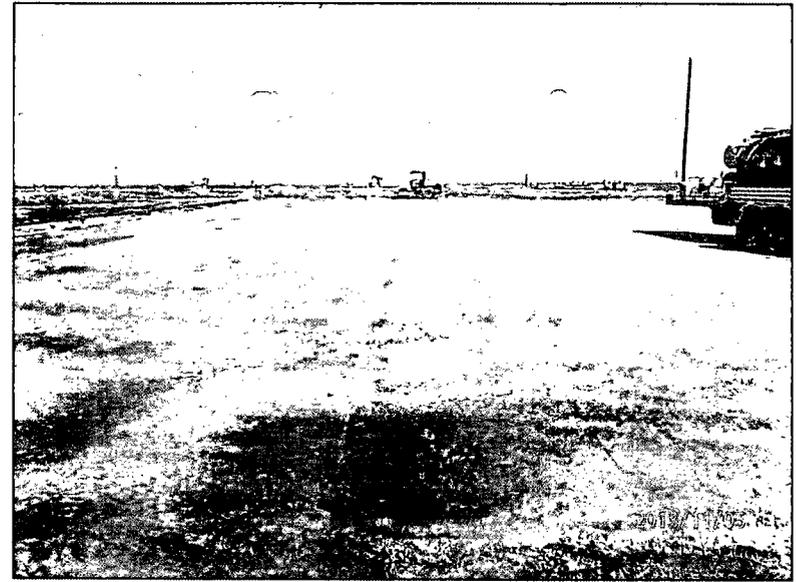
Using roller to compact road, facing west

11/4/13



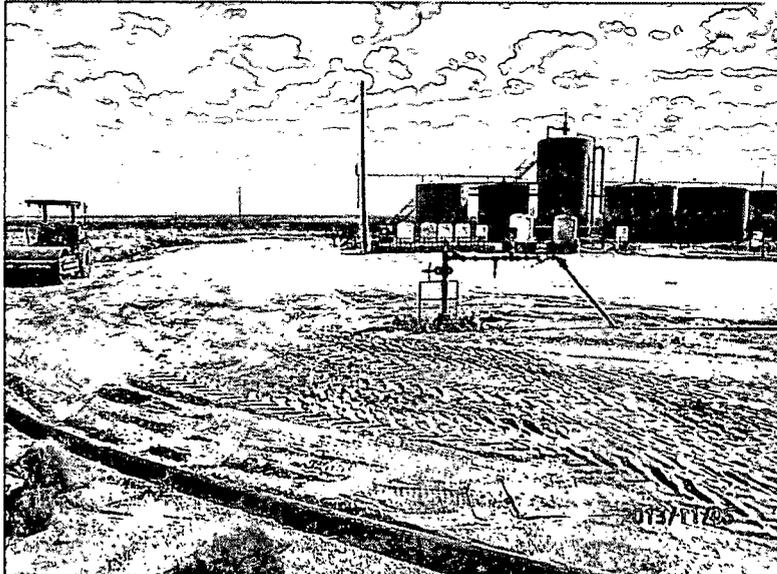
Watering location, facing southwest

11/4/13



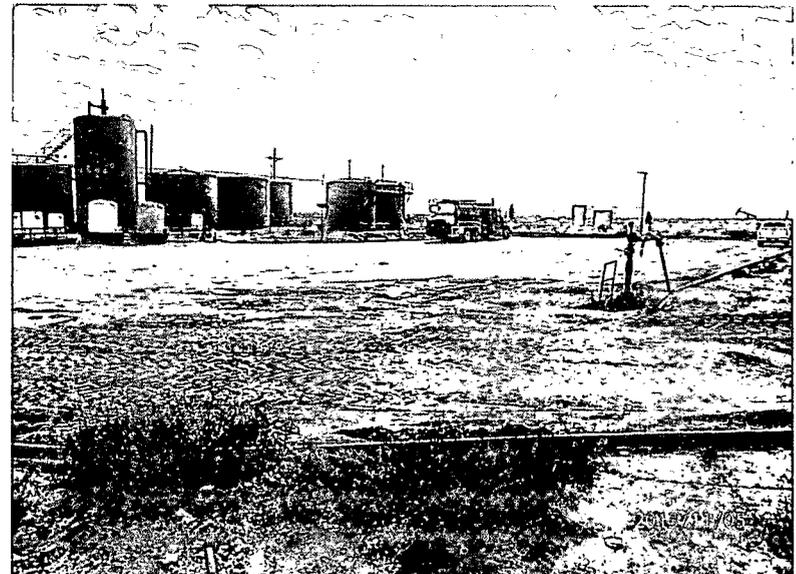
Site completed, facing north

11/5/13



Site completed, facing east

11/5/13



Site completed, facing southeast

11/5/13

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
311 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

Form C-141
Revised August 8, 2011

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

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

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 Argo #7	Facility Type Injection Well
Surface Owner Apache	Mineral Owner
API No. 30-025-09915	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
L	15	21S	37E	2310	FSL	990	FWL	Lea

Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release Unknown	Volume Recovered 70 bbls
Source of Release Injection Well	Date and Hour of Occurrence	Date and Hour of Discovery 9/10/13 0800 hrs
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Geoff Leking, NMOCD	
By Whom? Bruce Baker	Date and Hour 9/10/13 11:17 a.m.	
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.*

DTW=53'

Describe Cause of Problem and Remedial Action Taken.* The bull plug was pulled out of valve and cattle opened the valve. A total of 70 bbls of produced water was recovered using vacuum truck. The site has been mapped and surface samples collected.

Describe Area Affected and Cleanup Action Taken.* RECS personnel were on site beginning on September 10th, 2013 to assess the site. Seven points throughout the surface of the release were field tested for chlorides and organics vapors using a PID meter. The samples were then taken to a commercial laboratory for analysis. Chloride values at all seven points were elevated, Gasoline Range Organics (GRO) readings were non-detect and Diesel Range Organics (DRO) readings were either non-detect or below regulatory standards. The site was scraped down six inches and a total of 204 yards of excavated soil was sent to a NMOCD approved facility for disposal. An 8 point bottom composite sample was taken from the base of the scrape and sent to a commercial laboratory for analysis. The composite returned a chloride value of 224 mg/kg, a GRO value of non-detect and a DRO value of 17.3 mg/kg. A request to backfill the site was sent to NMOCD on September 25th, 2013. NMOCD responded that Pt. 7, which had a field chloride reading of 497 mg/kg, needed to be scraped down to 1 ft bgs and then Apache had permission to backfill the site. Pt. 7 was scraped down another 6 inches and a sample from the bottom of the Pt. 7 scrape was taken to a commercial laboratory for analysis of chlorides and returned a result of 144 mg/kg. A total of 252 yards of soil was imported to the site to serve as backfill. A 5 point composite sample of this backfill was taken to a commercial laboratory for analysis and returned a chloride, GRO and DRO result of non-detect. The site was backfilled, watered down and roller packed.

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	<i>Geoffrey Leking</i> Approved by Environmental Specialist Environmental Specialist	
Title: Environmental Technician	Approval Date: 2/12/14	Expiration Date: -
E-mail Address: larry.baker@apachecorp.com	Conditions of Approval: -	Attached <input type="checkbox"/> IRP-9-13-295Z
Date: 11-18-13 Phone: (432) 631-6982		

Attach Additional Sheets If Necessary