



EXPLORING WHAT'S POSSIBLE

HOBBS OCD

JAN 31 2014

RECEIVED

APACHE CORPORATION

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

approved
Stephany Sekins
Environmental Specialist
NMOCOD-DIST
2/5/14

WBDU #12

Corrective Action Plan

API 30-025-36340

Discovery Date: January 7th, 2014

Unit Letter B, Section 9, Township 21S, Range 37E

1131

FEB 06 2014

Rice Environmental Consulting & Safety

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

January 31st, 2014

Geoffrey Leking

New Mexico Energy, Minerals, & Natural Resources
Oil Conservation Division, Environmental Bureau – District 1
1625 N. French Dr.
Hobbs, NM 88240-9273

**RE: Corrective Action Plan
Apache Corporation – WBDU #12
UL/B sec. 9 T21S R37E
API No. 30-025-36340**

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 3.7 miles north of Eunice, New Mexico at UL/B sec. 9 T21S R37E. NM OSE and BLM records indicate that groundwater will likely be encountered at a depth of approximately 67 +/- feet.

On January 7th, 2014, Apache discovered a release on the well pad from a poly flow line. The poly line released a total of 3 barrels of oil and 5 barrels of produced water over 1,959 square feet of lease pad. The well was shut in and a vacuum truck was called to the site and recovered 3 barrels of oil and 4 barrels of produced water. Apache sent an initial C-141 to NMOCD on January 29th, 2014, for their approval (Appendix A).

RECS personnel were on site beginning on January 7th, 2014 to assess the release. The release was GPS mapped and photographed. On January 10th, 2014, a vertical was installed in the release area to a depth of 4 ft bgs (Figure 1). Samples were taken every 6 inches and field tested for chlorides and organic vapors. Representative samples from the vertical were taken to a commercial laboratory for analysis (Appendix B). Laboratory chloride values dropped to below 250 mg/kg starting at 3.5 ft bgs with a reading of 112 mg/kg at 3.5 ft bgs and a reading of 192 mg/kg at 4 ft bgs. Gasoline Range Organics (GRO) and Diesel Range Organics (DRO) were below regulatory standards at all depths.

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

Corrective Action Plan

Based on the vertical laboratory readings, the site will be excavated to a depth of 3.5 ft bgs. The excavation will remain away from the wellhead for safety reasons. The

excavated soil will be taken to a NMOCD approved facility for disposal. Clean soil will be imported to the site to serve as backfill and the site will be contoured to the surrounding location.

Once these actions are completed, a Termination Request will be submitted to NMOCD for their approval.

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

Sincerely,

A handwritten signature in black ink, appearing to read "L.W." followed by a stylized flourish.

Lara Weinheimer
Project Scientist
RECS
(575) 441-0431

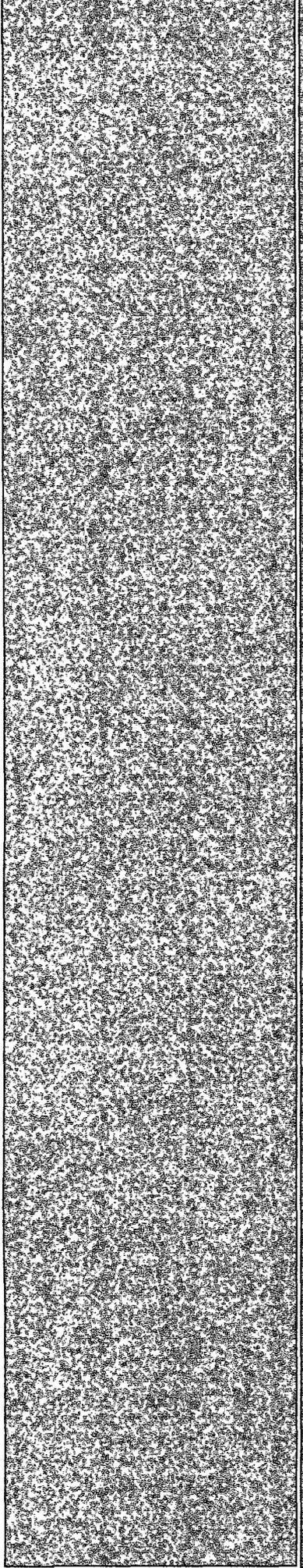
Attachments:

Figure 1 – Vertical Data

Appendix A – Initial C-141

Appendix B – Initial Sampling Lab

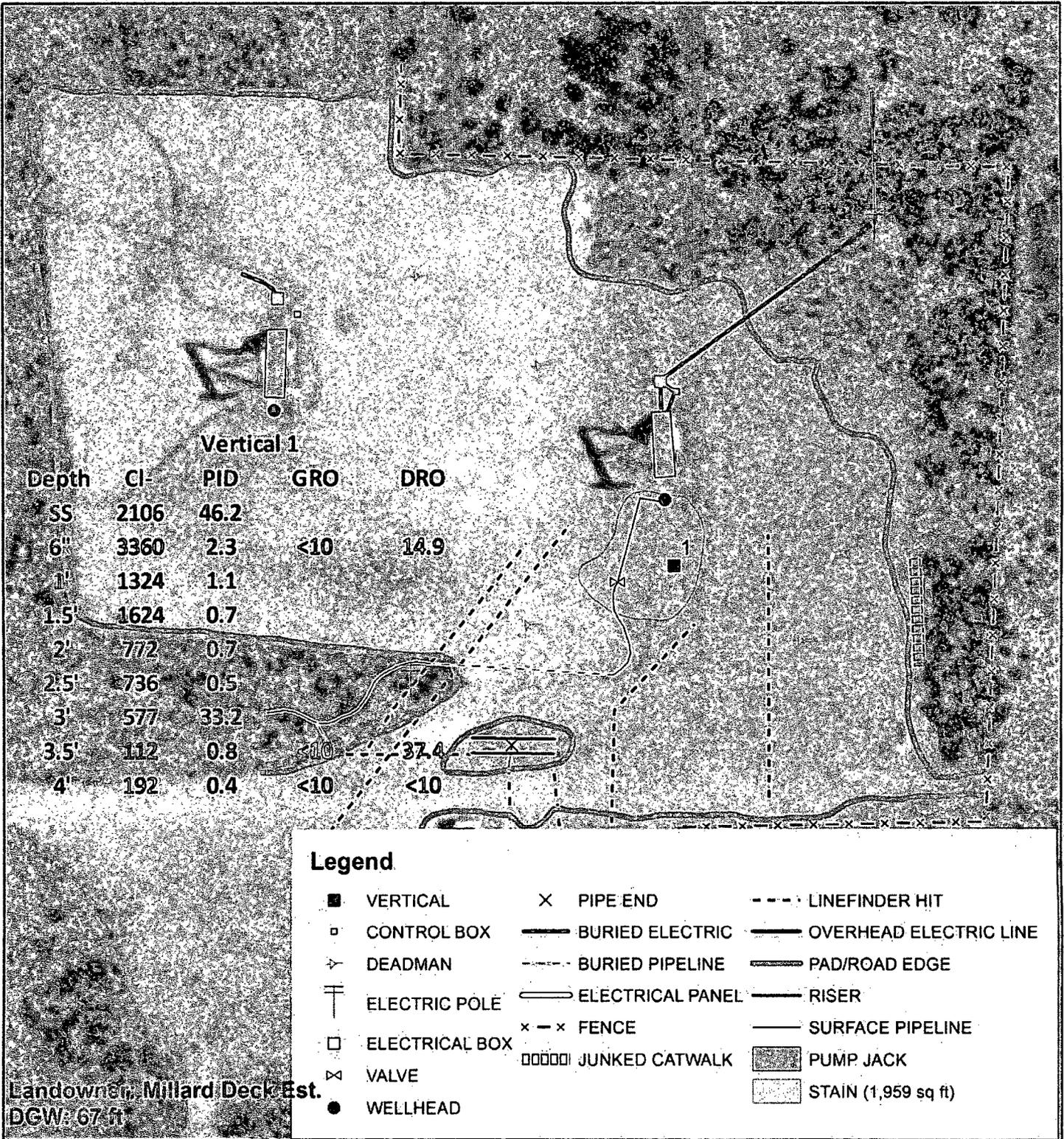
Appendix C – Photo Documentation



Figures

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

Vertical Data



Legend

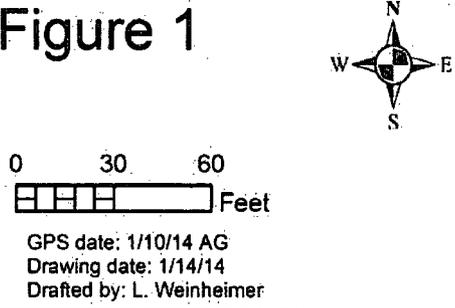
- VERTICAL
- CONTROL BOX
- ⋈ DEADMAN
- ⋈ ELECTRIC POLE
- ELECTRICAL BOX
- ⋈ VALVE
- WELLHEAD
- × PIPE END
- BURIED ELECTRIC
- - - BURIED PIPELINE
- ⋈ ELECTRICAL PANEL
- × - × FENCE
- JUNKED CATWALK
- - - LINEFINDER HIT
- OVERHEAD ELECTRIC LINE
- PAD/ROAD EDGE
- RISER
- SURFACE PIPELINE
- PUMP JACK
- STAIN (1,959 sq ft)

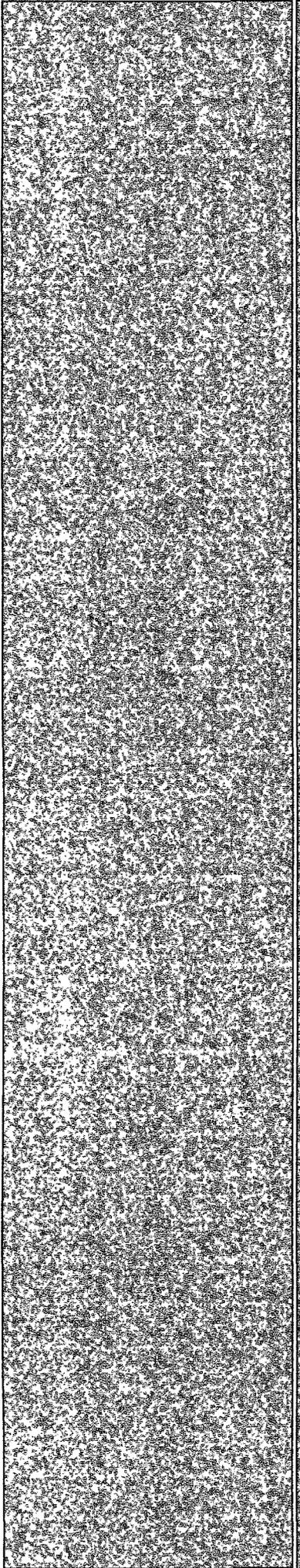
Landowner: Millard Deck Est.
 DGW: 67 ft



APACHE
WBDU #12
 LEGALS: UL/B sec. 9
 T-21-S R-37-E
 LEA COUNTY, NM

Figure 1





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

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 8 Ellison Lane Eunice, NM 88231	Telephone No. (432) 631-6982
Facility Name WBDU # 12	Facility Type Oil Well

Surface Owner Millard Deck Estates	Mineral Owner	API No. 30-025-36340
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
B	9	21S	37E	1210'	FNL	1470'	FEL	Lea

Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release Oil and Produced Water	Volume of Release 3 barrels of oil and 5 barrels of water.	Volume Recovered 3 barrels of oil and 4 barrels of produced water
Source of Release Flow Line	Date and Hour of Occurrence	Date and Hour of Discovery 1-7-14 @ 9:00 a.m.
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

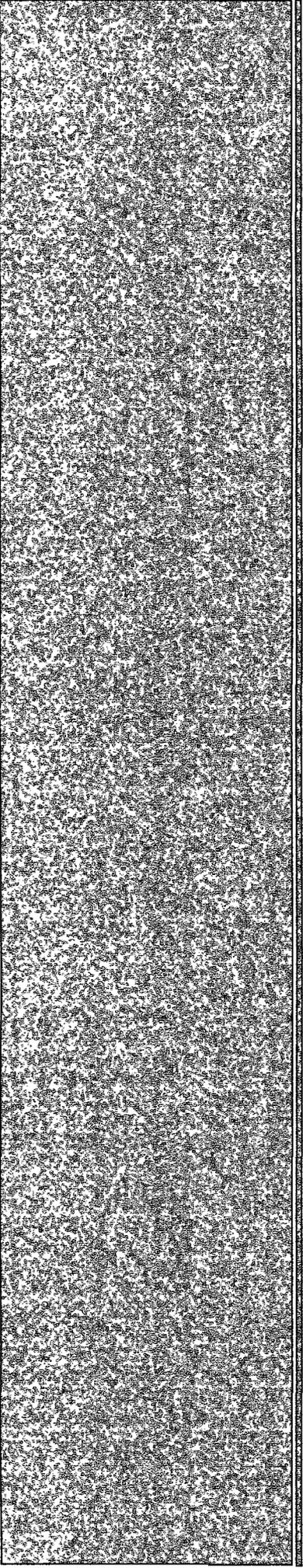
Describe Cause of Problem and Remedial Action Taken.*
Due to inclement weather the poly flow line ruptured on the well pad. The well was shut in and a vacuum truck was dispatched to recover fluid. The line was repaired.

Describe Area Affected and Cleanup Action Taken.*
A vacuum truck recovered 7 barrels of total fluid. The site was mapped and surface samples collected. On 1/10/2014 a vertical was excavated to 4 ft. below ground surface and samples collect and taken to a commercial laboratory for analysis for chloride and TPH. A corrective action plan will be submitted to NMOCD.

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 Technician	Approval Date:	Expiration Date:
E-mail Address: larry.baker@apachecorp.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 1/29/14	Phone: (432) 631-6982	

* Attach Additional Sheets If Necessary



Appendix B

Initial Sampling Lab

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

January 21, 2014

BRUCE BAKER
APACHE - EUNICE
P. O. BOX 1849
EUNICE, NM 88231

RE: WBDU #12

Enclosed are the results of analyses for samples received by the laboratory on 01/10/14 16:10.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene
Lab Director/Quality Manager

Analytical Results For:

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

Received:	01/10/2014	Sampling Date:	01/10/2014
Reported:	01/21/2014	Sampling Type:	Soil
Project Name:	WBDU #12	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	T21S R37E		

Sample ID: VERTICAL 1 @ 6" (H400097-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3360	16.0	01/17/2014	ND	432	108	400	7.14		
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	01/14/2014	ND	209	105	200	6.89		
DRO >C10-C28	14.9	10.0	01/14/2014	ND	233	116	200	1.72		

Surrogate: 1-Chlorooctane 68.0 % 65.2-140
 Surrogate: 1-Chlorooctadecane 84.1 % 63.6-154

Sample ID: VERTICAL 1 @ 3.5' (H400097-02)

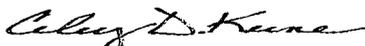
Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	01/17/2014	ND	432	108	400	7.14		
TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	01/14/2014	ND	209	105	200	6.89		
DRO >C10-C28	37.4	10.0	01/14/2014	ND	233	116	200	1.72		

Surrogate: 1-Chlorooctane 89.8 % 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

Analytical Results For:

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

 Received: 01/10/2014
 Reported: 01/21/2014
 Project Name: WBDU #12
 Project Number: NOT GIVEN
 Project Location: T21S R37E

 Sampling Date: 01/10/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

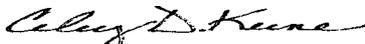
Sample ID: VERTICAL 1 @ 4' (H400097-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	01/17/2014	ND	432	108	400	7.14		
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	01/14/2014	ND	209	105	200	6.89		
DRO >C10-C28	<10.0	10.0	01/14/2014	ND	233	116	200	1.72		
<i>Surrogate: 1-Chlorooctane</i>	<i>101 %</i>	<i>65.2-140</i>								
<i>Surrogate: 1-Chlorooctadecane</i>	<i>112 %</i>	<i>63.6-154</i>								

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



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: <i>Apache</i>		BILL TO		ANALYSIS REQUEST																						
Project Manager: <i>Bruce Baker</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: <i>WBDU #12</i>		State: Zip:																								
Project Location: <i>T215 R.37E</i>		Phone #:																								
Sampler Name: <i>Amber Groves</i>		Fax #:																								
FOR LAB USE ONLY																										
Lab I.D.	Sample I.D. *	(C)RAB OR (C)OMP	# CONTAINERS							MATRIX						PRESERV	SAMPLING									
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME												
<i>H4100097</i>																										
	<i>1 Vert 1 @ 6"</i>	<i>G</i>	<i>1</i>			<input checked="" type="checkbox"/>							<i>1-10-13</i>	<i>2:15</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>										
	<i>2 Vert 1 @ 3.5' ft</i>	<i>G</i>	<i>1</i>			<input checked="" type="checkbox"/>							<i>1-10-13</i>	<i>2:45</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>										
	<i>3 Vert 1 @ 4' ft</i>	<i>G</i>	<i>1</i>			<input checked="" type="checkbox"/>							<i>1-10-13</i>	<i>3:00</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>										

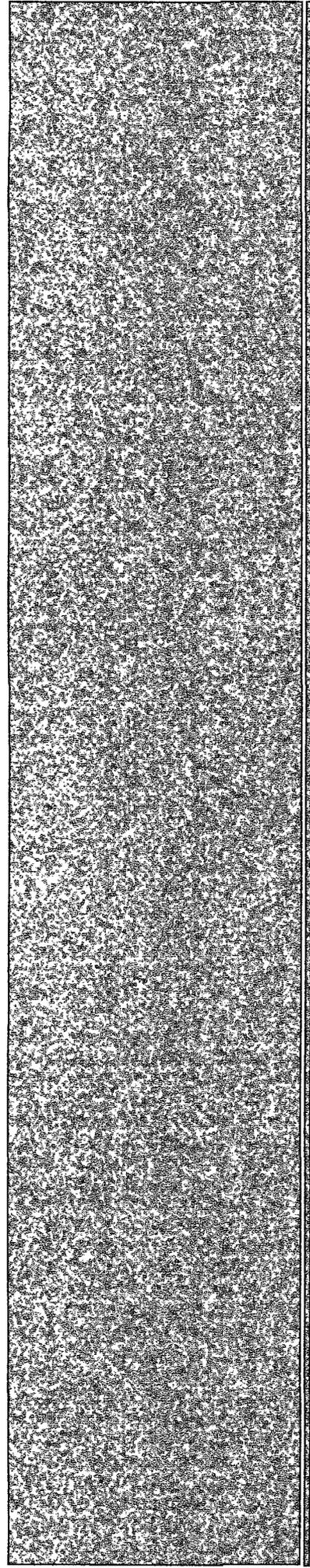
PLEASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. No event shall constitute a claim 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: <i>Amber Groves</i>	Date: <i>1-10-13</i>	Received By: <i>Jodi Jensen</i>	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
	Time: <i>4:10</i>		Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:		email results knorman@rice-ecs.com hconder@rice-ecs.com; Lweinheimer@rice-ecs.com; kjones@riceswd.com; Lpena@riceswd.com; sedwards@rice-ecs.com agroves@rice-ecs.com	
Delivered By: (Circle One)	Sample Condition	Checked By: <i>JAG</i>		
Sampler - UPS - Bus - Other:	Cool Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No			

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

54

* Changed as per Lara. 1/21/14 ch



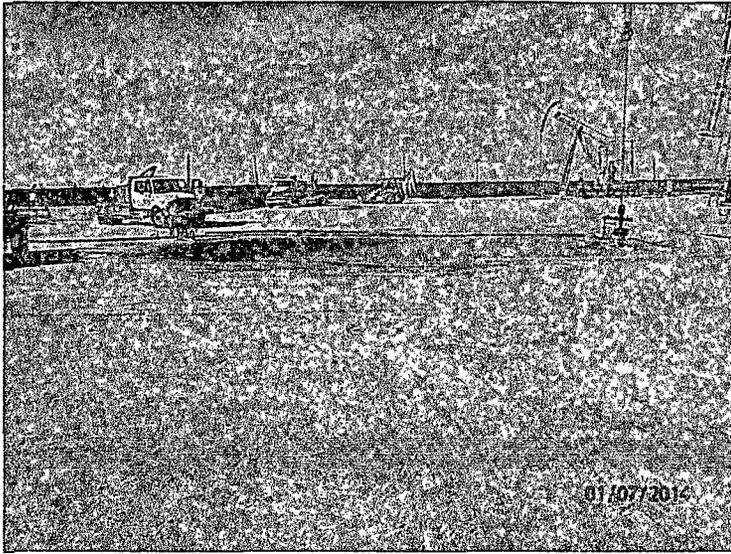
Appendix C

Photo Documentation

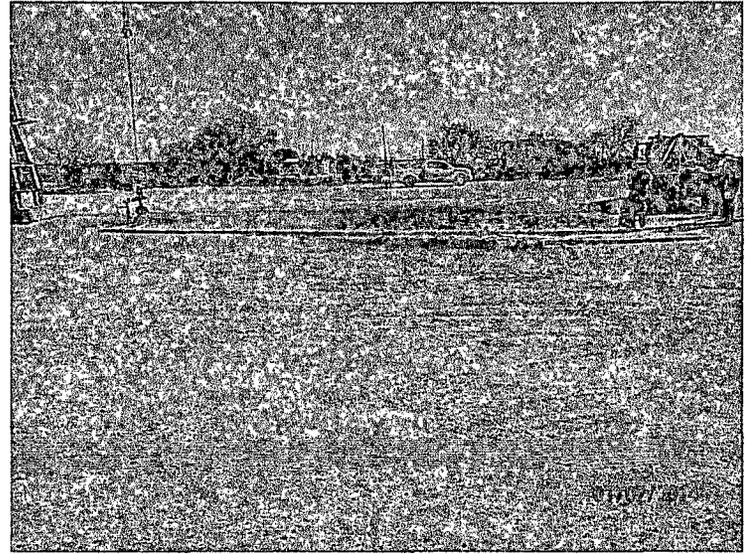
RICE Environmental Consulting and Safety (RECS)
P.O. Box 2948 Hobbs, NM 88241
Phone 575.393.2967

Apache WBDU #12

Unit Letter B, Section 9, T21S, R37E



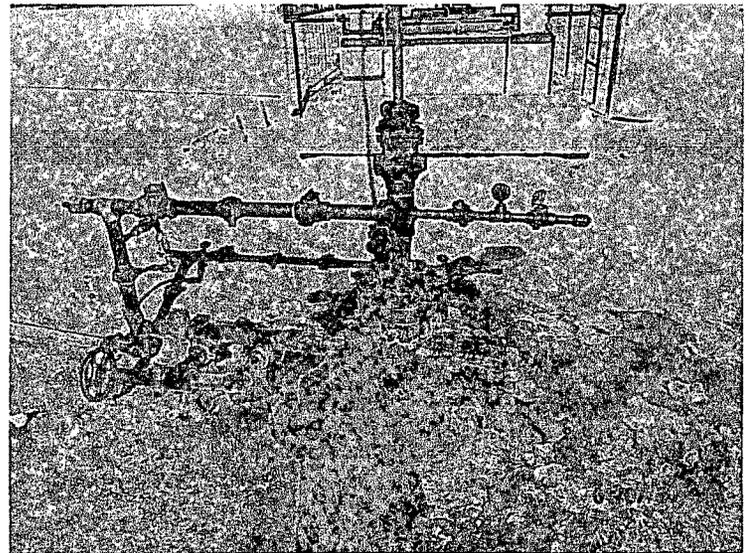
Initial release photo, facing west 1/7/14



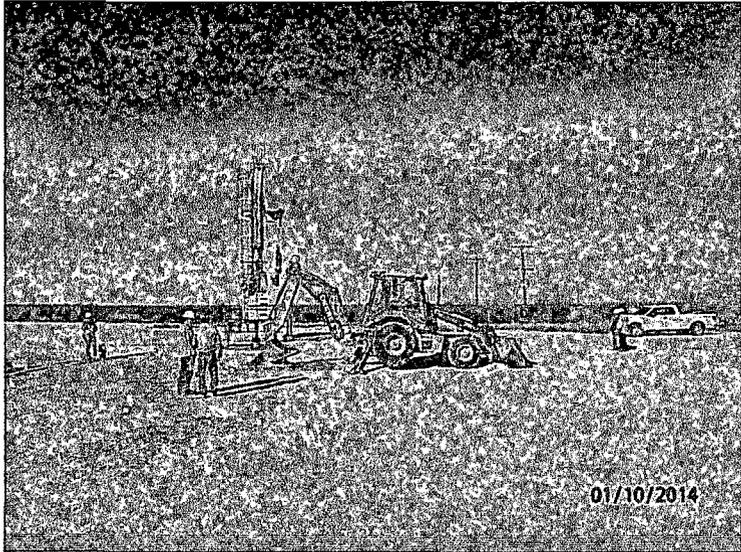
Initial release photo, facing east 1/7/14



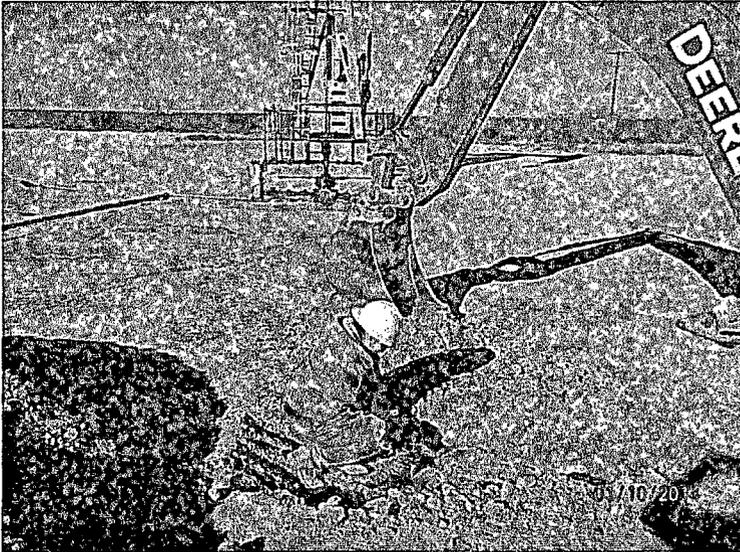
Initial release area, facing northeast 1/7/14



Source of release, facing north 1/7/14



Installing vertical at the site, facing north 1/10/14



Sampling the vertical, facing north 1/10/14