

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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

HOBBS OCD

NOV 09 2012

RECEIVED

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company	Apache Corp.	Contact	Natalie Gladden
Address	P.O. Box 1849, Eunice, NM, 88231	Telephone No.	(575) 390-4186
Facility Name	NEDU #348	Facility Type	Production Well
Surface Owner	McCasland	Mineral Owner	State of NM
		Lease No.	30-025-39583

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	10	21S	37E	10	FNL	330	FEL	Lea

Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release	Oil	Volume of Release	8 bbl	Volume Recovered	5 bbl
Source of Release	Stuffing box	Date and Hour of Occurrence	10/18/11	Date and Hour of Discovery	10/18/11
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 checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			
If a Watercourse was Impacted, Describe Fully.*					

DTW = 24'

Describe Cause of Problem and Remedial Action Taken.*
Stuffing box blow out releasing fluid, standing fluid was recovered and one-call was made.

Describe Area Affected and Cleanup Action Taken.*
The leak affected the caliche pad surrounding the wellhead and a length of caliche road to the south. Impacted soils were removed to a NMOCD approved disposal facility. Representative soil samples were collected from the excavation and sent to a commercial laboratory for chloride and TPH confirmation. The excavation was backfilled with clean caliche and contoured to the surrounding area.

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

Signature:	OIL CONSERVATION DIVISION	
Printed Name: Natalie Gladden	 Approved by District Supervisor Environmental Specialist	
Title: EH&S Environmental Tech	Approval Date: 11/09/12	Expiration Date: -
E-mail Address: Natalie.gladden@apachecorp.com	Conditions of Approval: -	Attached <input type="checkbox"/>
Date: 11/9/12 Phone: (575) 390-4186	11P-06-14-3090	

* Attach Additional Sheets If Necessary

NSAD 1416 831709

2



EXPLORING WHAT'S POSSIBLE

HOBBS OCD

NOV 09 2012

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APACHE CORPORATION

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

NEDU #348

Closure Report

API 30-025-39583

Release Date: October 18, 2011

Unit Letter A, Section 10, Township 21S, Range 37E

Rice Environmental Consulting & Safety

P.O. Box 5630 Hobbs, NM 88241
Phone 575.393.4411 Fax 575.393.0293

May 2, 2012

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 – NEDU #348 AD
UL/A sec. 10 T21S R37E
API No. 30-025-39583**

Mr. Leking:

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

Background and Previous Work

The site is an accidental discharge of crude oil associated with the NEDU #348. A stuffing box ruptured, releasing fluid onto the well pad and road. Fluids were recovered and an initial form C-141 was submitted by Apache Corporation on October 18, 2011 (Appendix A). The site is located north of Eunice, in unit letter 'A' of section 10, T21S, R37E and south of NM Highway 248 in Lea County, New Mexico.

On October 18, 2011, RECS personnel initiated work on the NEDU #348. Surface soil samples were collected and field tested for chloride. Headspace measurements were also taken in the field using a Photo Ionization Detector (PID) (Figure 1). RECS personnel collected and similarly field tested additional samples as excavation of the leak proceeded.

On October 19, 2011, RECS personnel collected soil samples from the final shallow excavation (Figure 2). Representative grab samples were collected from the excavation edges and the excavation floor, and submitted to a commercial laboratory for chloride and TPH (GRO/DRO) analyses. In all samples, chloride did not exceed 128 ppm, and TPH did not exceed 311 ppm (Appendix C).

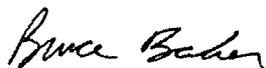
Impacted soils were removed from the excavation and transported to a NMOCD approved disposal facility. The excavation was backfilled with clean caliche and contoured to the surrounding area. See Appendix B for photographs of field activities.

Conclusion

According to the New Mexico Office of the State Engineer and the United States Geological Survey (USGS), depth to groundwater in the area approximated 50 ft bgs (Appendix D). Due to the removal of impacted soils relative to necessary groundwater depth, Apache submits the final C-141 (Appendix E) and respectfully requests the closure of the regulatory file for this site.

Apache Corporation appreciates the opportunity to work with you on this project. Please call Natalie Gladden (575) 390-4186 if you have any questions or comments.

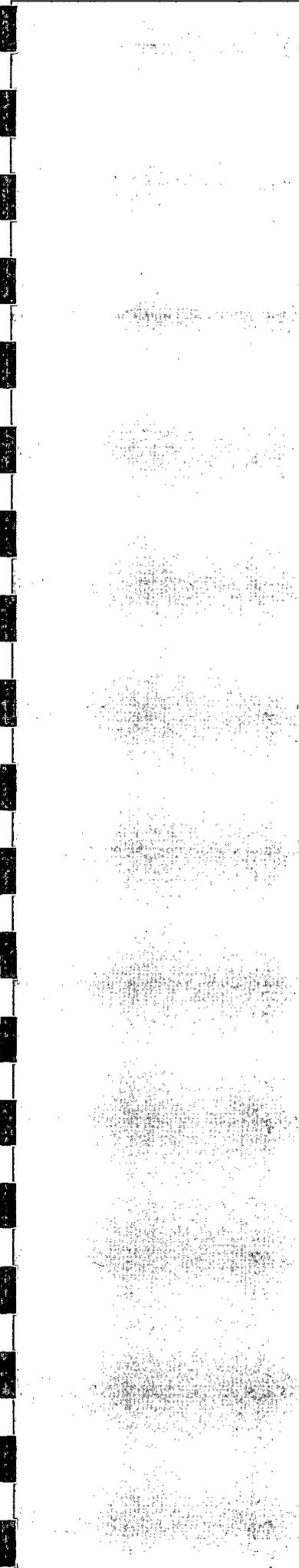
Sincerely,



Bruce Baker
Head Foreman
RECS
(575) 631-5157

Attachments:

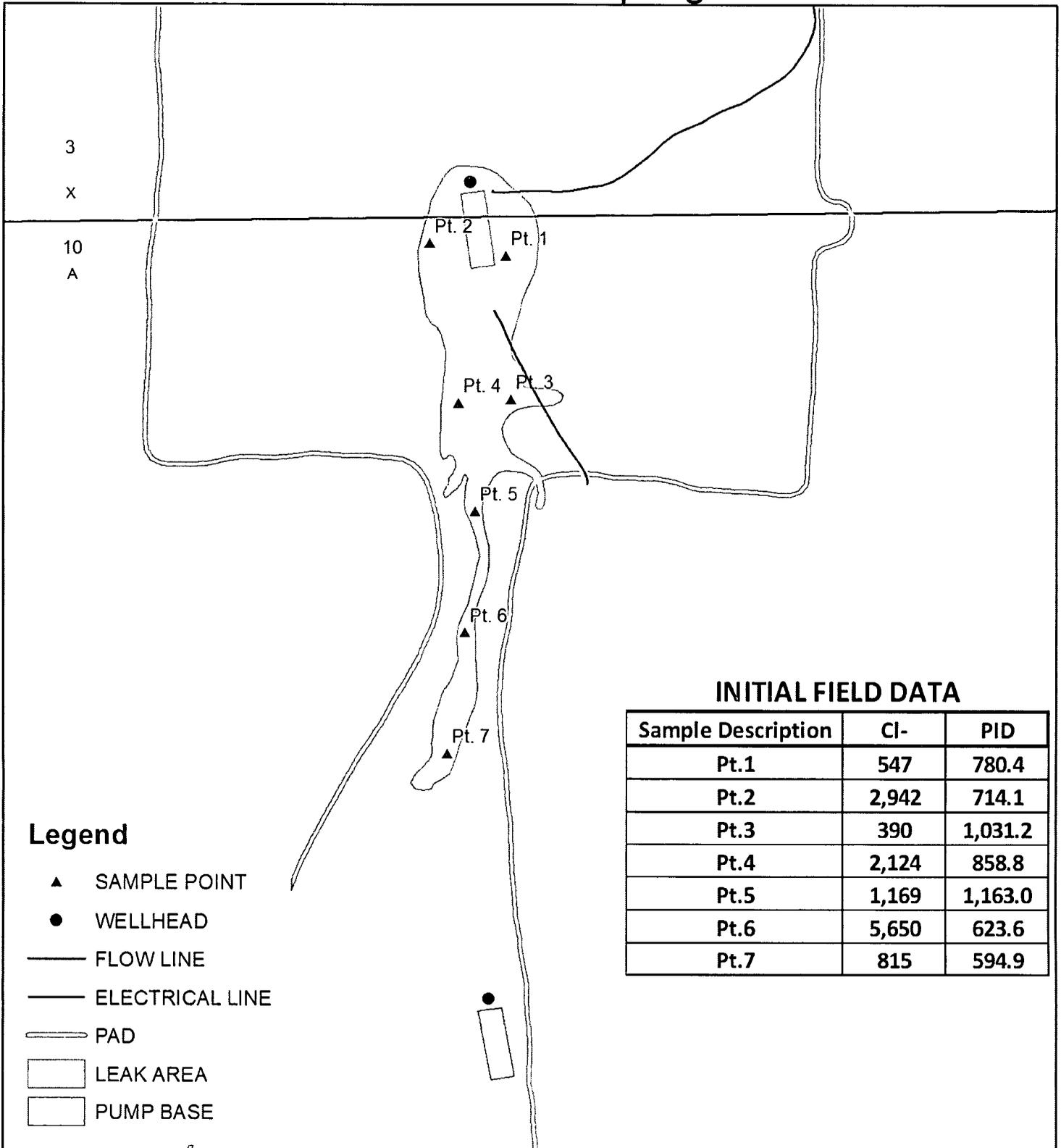
- Figure 1: Site Plat with Initial Field Sampling Data
- Figure 2: Site Plat with Final Excavation Sampling Data
- Appendix A: Initial Form C-141
- Appendix B: Site Photographs
- Appendix C: Laboratory Results
- Appendix D: Groundwater Study
- Appendix E: Final Form C-141



Figures

RICE Environmental Consulting and Safety (RECS)
P.O. Box 5630 Hobbs, NM 88241
Phone 575.393.4411 Fax 575.393.0293

Initial Field Sampling Data



Legend

- ▲ SAMPLE POINT
- WELLHEAD
- FLOW LINE
- - - ELECTRICAL LINE
- ▭ PAD
- ▨ LEAK AREA
- ▭ PUMP BASE

INITIAL FIELD DATA

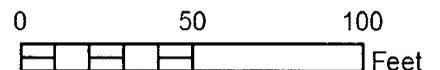
Sample Description	Cl-	PID
Pt.1	547	780.4
Pt.2	2,942	714.1
Pt.3	390	1,031.2
Pt.4	2,124	858.8
Pt.5	1,169	1,163.0
Pt.6	5,650	623.6
Pt.7	815	594.9



APACHE NEDU #348 AD

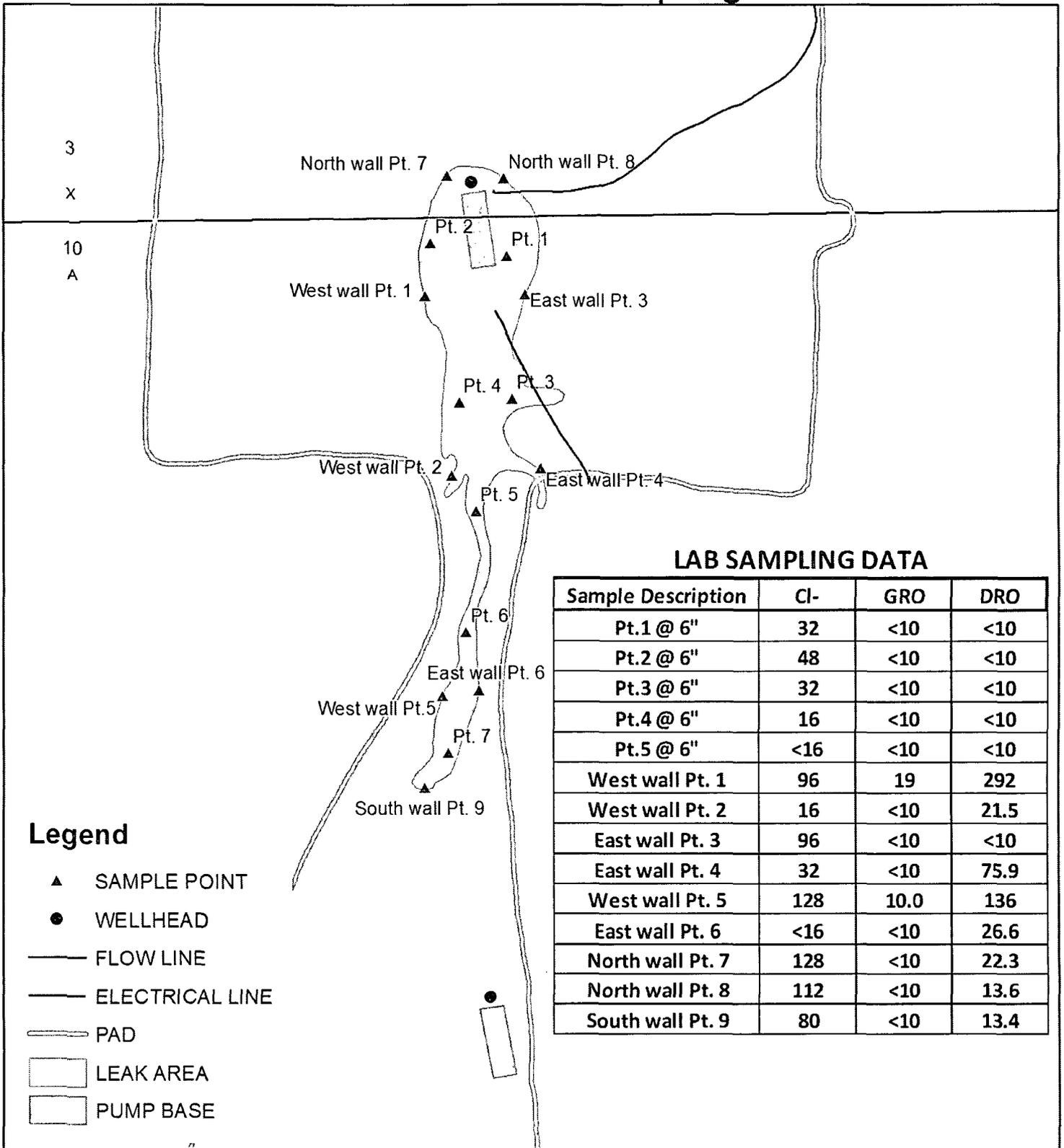
UL X SEC. 3 & UL A SEC. 10
T-21-S R-37-E
LEA COUNTY, NM

Figure 1



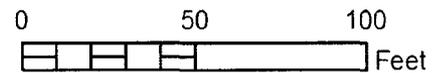
GPS date: 10/18/11 by BB & 10/19/11 by RP
 Drawing date: 10/19/11 & 10/21/11
 Drafted by: T. Grieco, L. Weinheimer

Final Excavation Sampling Data



APACHE
NEDU #348 AD
 UL X SEC. 3 & UL A SEC. 10
 T-21-S R-37-E
 LEA COUNTY, NM

Figure 2



GPS date: 10/18/11 by BB & 10/19/11 by RP
 Drawing date: 10/19/11 & 10/21/11
 Drafted by: T. Grieco, L. Weinheimer

Appendix A

Initial Form C-141

RICE Environmental Consulting and Safety (RECS)
P.O. Box 5630 Hobbs, NM 88241
Phone 575.393.4411 Fax 575.393.0293

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
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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 Natalie Gladden
Address PO Box 1849 Eunice, NM 88231	Telephone No. 575-390-4186
Facility Name NEDU #348	Facility Type Production Well
Surface Owner McCasland	Mineral Owner State of NM
API No. 30-025-39583	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	10	21S	37E	10	FNL	330	FEL	Lea

Latitude _____ Longitude _____

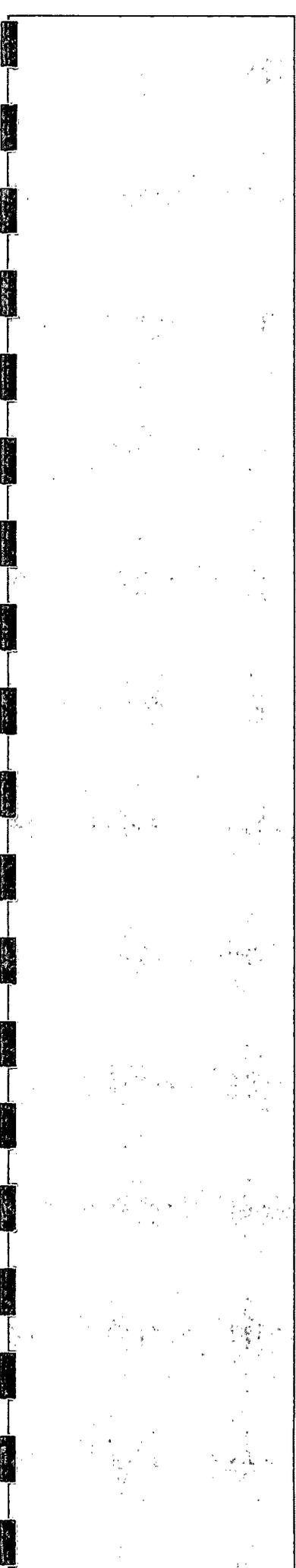
NATURE OF RELEASE

Type of Release Oil	Volume of Release 8	Volume Recovered 5
Source of Release Stuffing box	Date and Hour of Occurrence 10/18/11	Date and Hour of Discovery 10/18/11
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 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.* Stuffing box blew out releasing fluid, standing fluid was recovered and one-call was made.		
Describe Area Affected and Cleanup Action Taken.* NMOCD Guidelines will be followed to closure.		

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: 	OIL CONSERVATION DIVISION	
Printed Name: Natalie Gladden	Approved by Environmental Specialist:	
Title: EHS Environmental Tech	Approval Date:	Expiration Date:
E-mail Address: natalie.gladden@apachecorp.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 10/18/11 Phone: 575-390-4186		

* Attach Additional Sheets If Necessary



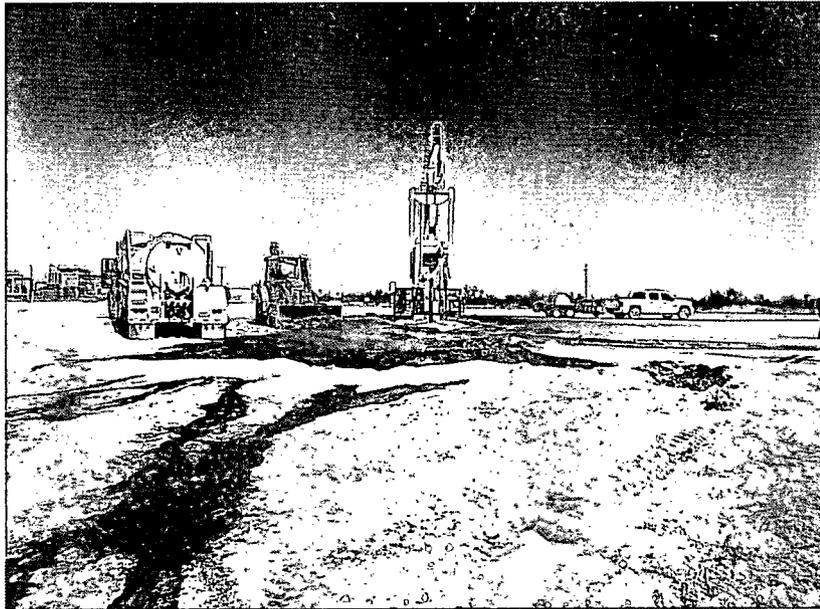
Appendix B

Site Photographs

RICE Environmental Consulting and Safety (RECS)
P.O. Box 5630 Hobbs, NM 88241
Phone 575.393.4411 Fax 575.393.0293

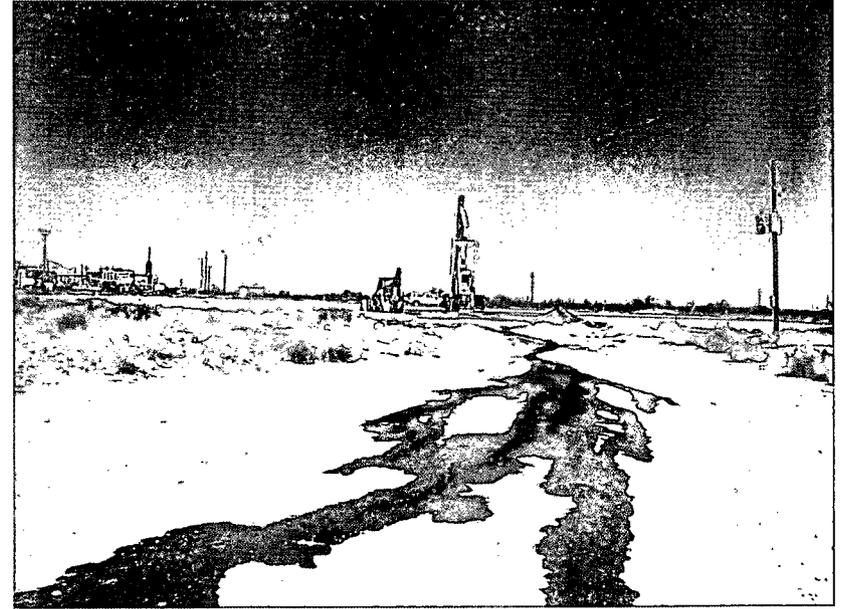
NEDU #348

Unit Letter A, Section 10, T21S R37E



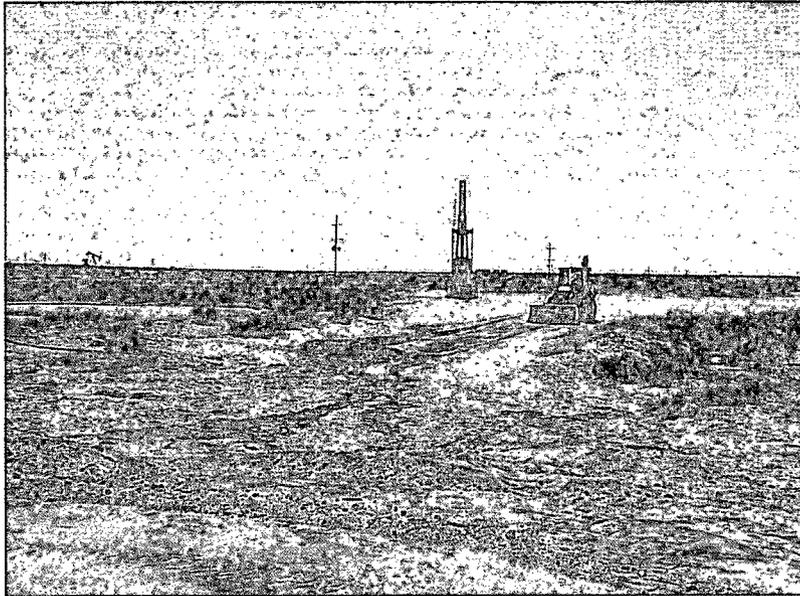
Initial release, facing north

10/18/2011



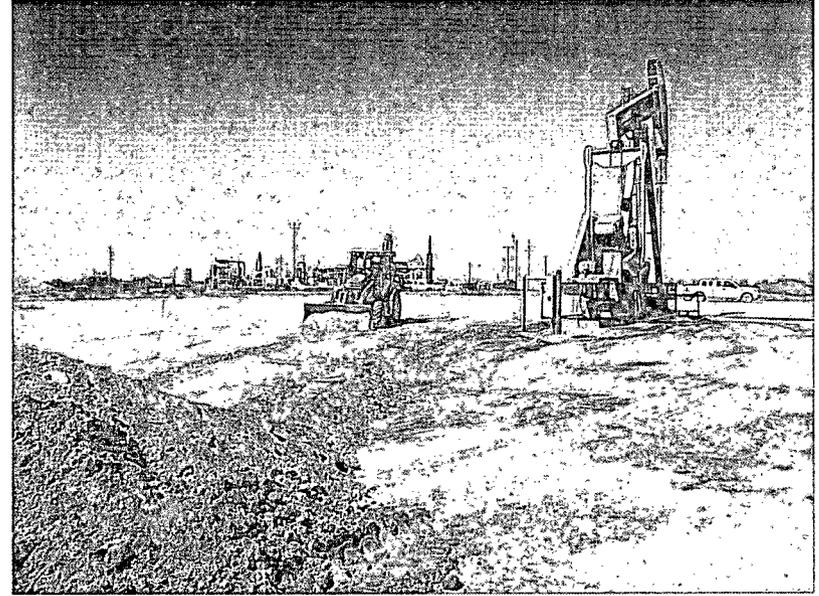
Initial release, facing north

10/18/2011



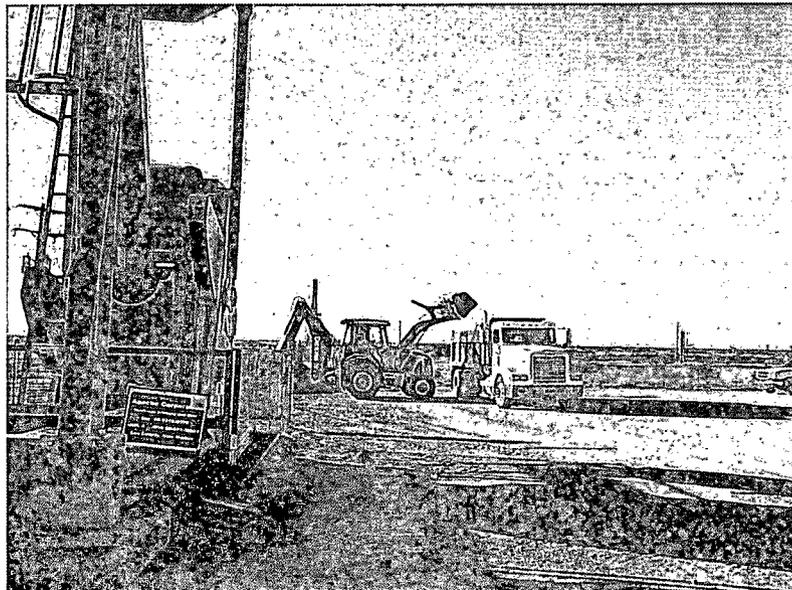
Scraping, facing south

10/18/2011



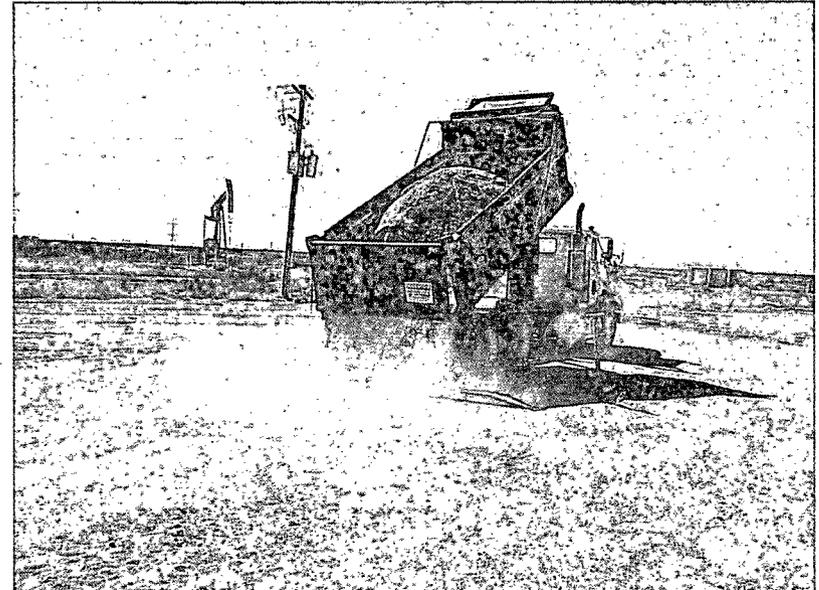
Scraping, facing northwest

10/18/2011



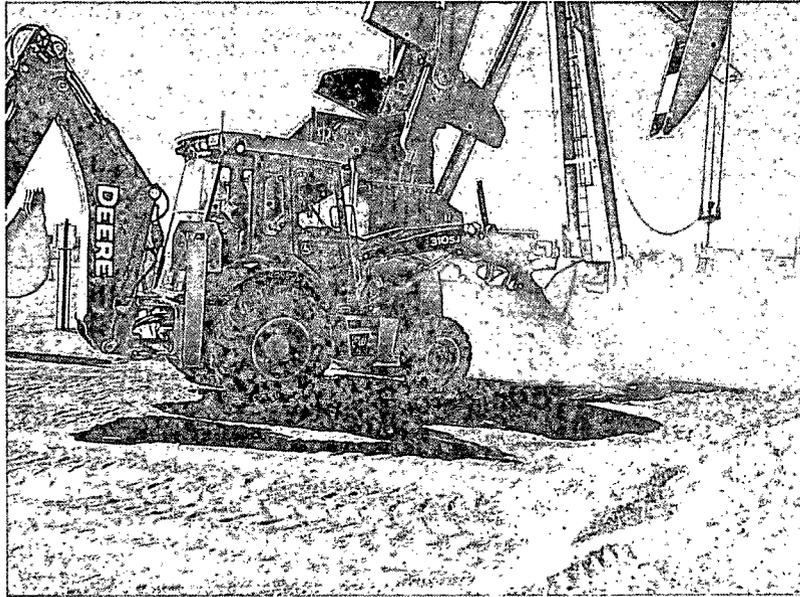
Exporting soil, facing south

10/19/2011



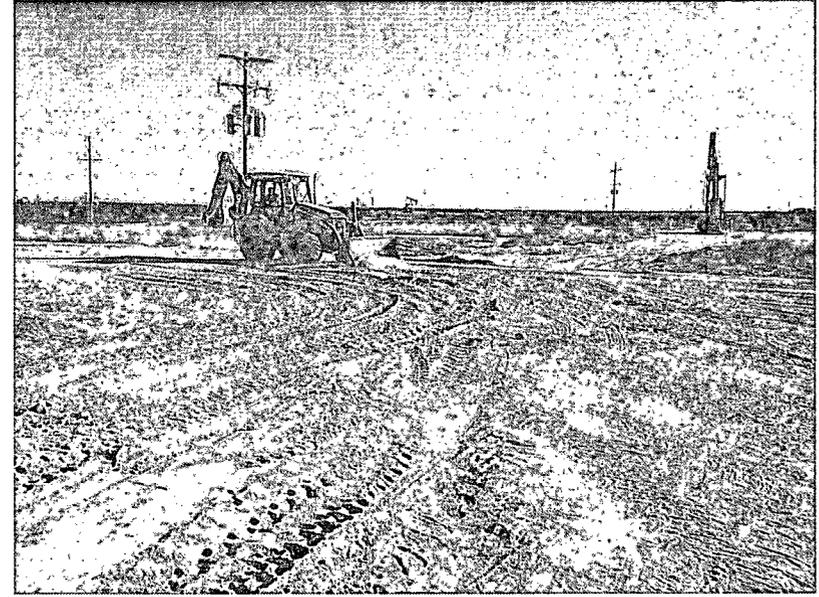
Importing soil, facing southwest

10/19/2011



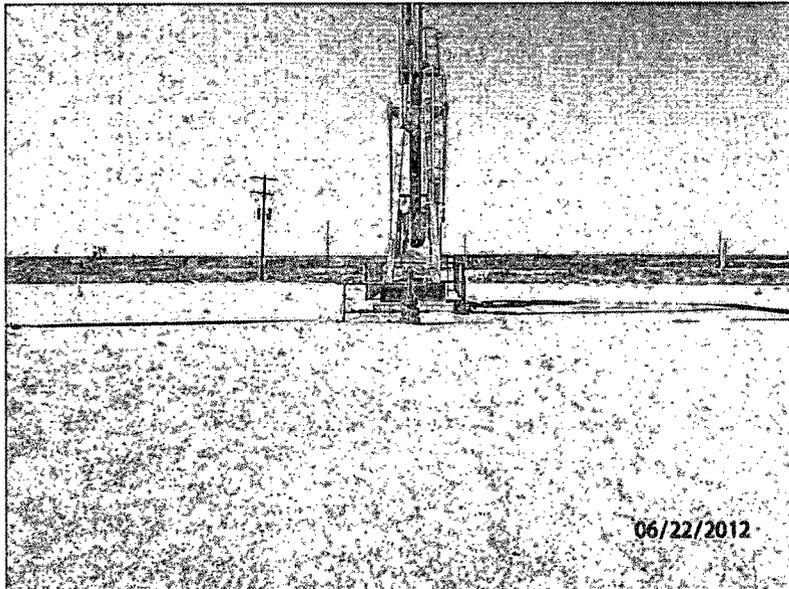
Backfilling, facing east

10/19/2011



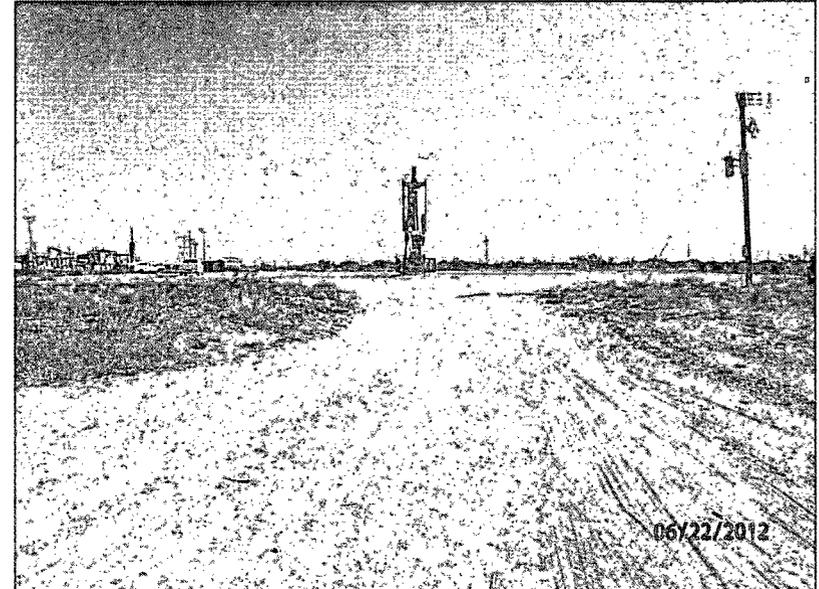
Backfilling, facing southeast

10/19/2011



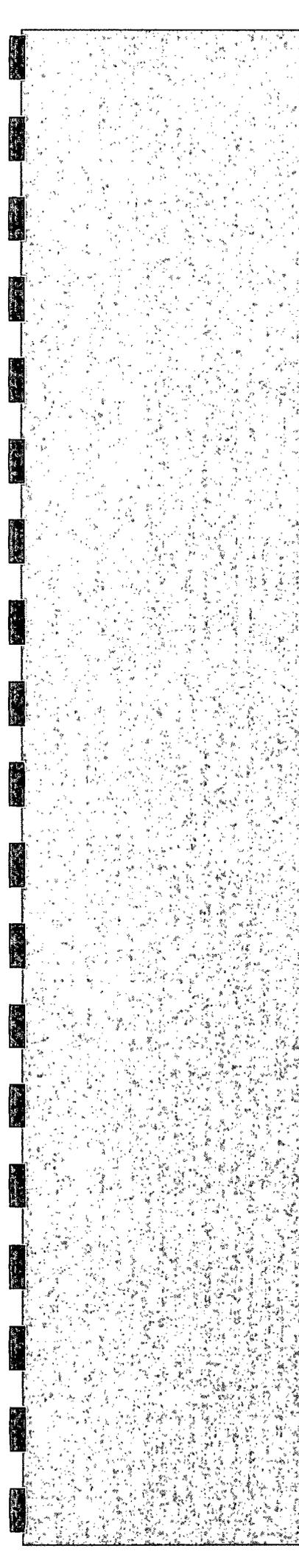
Site complete, facing south

6/22/2012



Site complete, facing north

6/22/2012



Appendix C

Laboratory Results

RICE Environmental Consulting and Safety (RECS)
P.O. Box 5630 Hobbs, NM 88241
Phone 575.393.4411 Fax 575.393.0293

Analytical Results For:

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

Received:	10/21/2011	Sampling Date:	10/19/2011
Reported:	10/27/2011	Sampling Type:	Soil
Project Name:	APACHE NEDU #348	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EUNICE, NM		

Sample ID: PT. 1 (H102283-01)

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	10/26/2011	ND	448	112	400	0.00		
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	10/24/2011	ND	181	90.5	200	1.14		
DRO >C10-C28	<10.0	10.0	10/24/2011	ND	164	82.0	200	2.73		
<i>Surrogate: 1-Chlorooctane</i>	<i>91.4 %</i>	<i>55.5-154</i>								
<i>Surrogate: 1-Chlorooctadecane</i>	<i>102 %</i>	<i>57.6-158</i>								

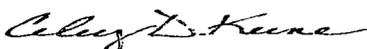
Sample ID: PT. 2 (H102283-02)

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	10/26/2011	ND	448	112	400	0.00		
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	10/24/2011	ND	181	90.5	200	1.14		
DRO >C10-C28	<10.0	10.0	10/24/2011	ND	164	82.0	200	2.73		
<i>Surrogate: 1-Chlorooctane</i>	<i>86.7 %</i>	<i>55.5-154</i>								
<i>Surrogate: 1-Chlorooctadecane</i>	<i>94.2 %</i>	<i>57.6-158</i>								

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: 10/21/2011
 Reported: 10/27/2011
 Project Name: APACHE NEDU #348
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

 Sampling Date: 10/19/2011
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: PT. 3 (H102283-03)

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	10/26/2011	ND	448	112	400	0.00		
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	10/24/2011	ND	181	90.5	200	1.14		
DRO >C10-C28	<10.0	10.0	10/24/2011	ND	164	82.0	200	2.73		

Surrogate: 1-Chlorooctane 93.5 % 55.5-154
 Surrogate: 1-Chlorooctadecane 107 % 57.6-158

Sample ID: PT. 4 (H102283-04)

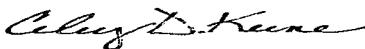
Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	10/26/2011	ND	448	112	400	0.00		
TPH 8015M		mg/kg		Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	10/24/2011	ND	181	90.5	200	1.14		
DRO >C10-C28	<10.0	10.0	10/24/2011	ND	164	82.0	200	2.73		

Surrogate: 1-Chlorooctane 86.1 % 55.5-154
 Surrogate: 1-Chlorooctadecane 99.0 % 57.6-158

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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: 10/21/2011
 Reported: 10/27/2011
 Project Name: APACHE NEDU #348
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

 Sampling Date: 10/18/2011
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: PT. 5 (H102283-05)

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	10/26/2011	ND	448	112	400	0.00		
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	10/24/2011	ND	181	90.5	200	1.14		
DRO >C10-C28	<10.0	10.0	10/24/2011	ND	164	82.0	200	2.73		
<i>Surrogate: 1-Chlorooctane</i>	<i>83.2 %</i>	<i>55.5-154</i>								
<i>Surrogate: 1-Chlorooctadecane</i>	<i>87.0 %</i>	<i>57.6-158</i>								

Sample ID: WEST WALL PT. 1 (H102283-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	10/26/2011	ND	448	112	400	0.00		
TPH 8015M		mg/kg		Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	19.0	10.0	10/24/2011	ND	181	90.5	200	1.14		
DRO >C10-C28	292	10.0	10/24/2011	ND	164	82.0	200	2.73		
<i>Surrogate: 1-Chlorooctane</i>	<i>89.7 %</i>	<i>55.5-154</i>								
<i>Surrogate: 1-Chlorooctadecane</i>	<i>78.3 %</i>	<i>57.6-158</i>								

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: 10/21/2011
 Reported: 10/27/2011
 Project Name: APACHE NEDU #348
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

 Sampling Date: 10/18/2011
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: WEST WALL PT. 2 (H102283-07)

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	10/26/2011	ND	448	112	400	0.00		
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	10/24/2011	ND	181	90.5	200	1.14		
DRO >C10-C28	21.5	10.0	10/24/2011	ND	164	82.0	200	2.73		

Surrogate: 1-Chlorooctane 95.0 % 55.5-154
 Surrogate: 1-Chlorooctadecane 105 % 57.6-158

Sample ID: EAST WALL PT. 3 (H102283-08)

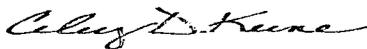
Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	10/26/2011	ND	448	112	400	0.00		
TPH 8015M		mg/kg		Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	10/24/2011	ND	181	90.5	200	1.14		
DRO >C10-C28	<10.0	10.0	10/24/2011	ND	164	82.0	200	2.73		

Surrogate: 1-Chlorooctane 80.7 % 55.5-154
 Surrogate: 1-Chlorooctadecane 84.5 % 57.6-158

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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: 10/21/2011
 Reported: 10/27/2011
 Project Name: APACHE NEDU #348
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

 Sampling Date: 10/19/2011
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: EAST WALL PT. 4 (H102283-09)

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	10/26/2011	ND	448	112	400	0.00		
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	10/24/2011	ND	181	90.5	200	1.14		
DRO >C10-C28	75.9	10.0	10/24/2011	ND	164	82.0	200	2.73		

Surrogate: 1-Chlorooctane 93.4 % 55.5-154
 Surrogate: 1-Chlorooctadecane 93.4 % 57.6-158

Sample ID: WEST WALL PT. 5 (H102283-10)

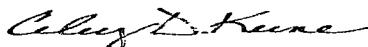
Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	10/26/2011	ND	448	112	400	0.00		
TPH 8015M		mg/kg		Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	10.0	10.0	10/24/2011	ND	181	90.5	200	1.14		
DRO >C10-C28	136	10.0	10/24/2011	ND	164	82.0	200	2.73		

Surrogate: 1-Chlorooctane 88.6 % 55.5-154
 Surrogate: 1-Chlorooctadecane 83.9 % 57.6-158

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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: 10/21/2011
 Reported: 10/27/2011
 Project Name: APACHE NEDU #348
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

 Sampling Date: 10/18/2011
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: EAST WALL PT. 6 (H102283-11)

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	10/26/2011	ND	448	112	400	0.00		
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	10/24/2011	ND	181	90.5	200	1.14		
DRO >C10-C28	26.6	10.0	10/24/2011	ND	164	82.0	200	2.73		
<i>Surrogate: 1-Chlorooctane</i>	85.6 %	55.5-154								
<i>Surrogate: 1-Chlorooctadecane</i>	94.8 %	57.6-158								

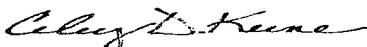
Sample ID: NORTH WALL PT. 7 (H102283-12)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	10/26/2011	ND	448	112	400	0.00		
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	10/24/2011	ND	181	90.5	200	1.14		
DRO >C10-C28	22.3	10.0	10/24/2011	ND	164	82.0	200	2.73		
<i>Surrogate: 1-Chlorooctane</i>	79.7 %	55.5-154								
<i>Surrogate: 1-Chlorooctadecane</i>	73.2 %	57.6-158								

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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: 10/21/2011
 Reported: 10/27/2011
 Project Name: APACHE NEDU #348
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

 Sampling Date: 10/19/2011
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: NORTH WALL PT. 8 (H102283-13)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	10/26/2011	ND	448	112	400	0.00		
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	10/24/2011	ND	181	90.5	200	1.14		
DRO >C10-C28	13.6	10.0	10/24/2011	ND	164	82.0	200	2.73		

Surrogate: 1-Chlorooctane 85.6 % 55.5-154

Surrogate: 1-Chlorooctadecane 90.2 % 57.6-158

Sample ID: SOUTH WALL PT. 9 (H102283-14)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	10/26/2011	ND	448	112	400	0.00		
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	10/24/2011	ND	181	90.5	200	1.14		
DRO >C10-C28	13.4	10.0	10/24/2011	ND	164	82.0	200	2.73		

Surrogate: 1-Chlorooctane 85.8 % 55.5-154

Surrogate: 1-Chlorooctadecane 101 % 57.6-158

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Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

 101 East Marland, Hobbs, NM 88240
 (575) 393-2326 FAX (575) 393-2476

Company Name: <u>Apache</u>		BILL TO		ANALYSIS REQUEST																					
Project Manager: <u>Natalie Gladden</u>		P.O. #:		Chlorides TPH 8/15 M																					
Address:		Company:																							
City:	State: <u>NM</u> Zip:	Attn:																							
Phone #:	Fax #:	Address:																							
Project #:	Project Owner:	City:																							
Project Name: <u>Apache NEDU #248</u>		State: Zip:																							
Project Location: <u>Evolve</u>		Phone #:																							
Sampler Name: <u>Roberto Perna</u>		Fax #:																							
FOR LAB USE ONLY																									
Lab I.D.	Sample I.D.	# GRAB OR (COMP.	# CONTAINERS													GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE	ICE / COOL	OTHER:	DATE
<u>HIC7-783</u>																									
<u>11</u>	<u>East wall pt 6</u>	<u>G</u>	<u>✓</u>			<u>✓</u>				<u>✓</u>			<u>10-8-11</u>	<u>12:30</u>											
<u>12</u>	<u>North wall pt 7</u>	<u>G</u>	<u>✓</u>			<u>✓</u>				<u>✓</u>			<u>10-8-11</u>	<u>2:50 AM</u>											
<u>13</u>	<u>North wall pt 8</u>	<u>G</u>	<u>✓</u>			<u>✓</u>				<u>✓</u>			<u>10-19-11</u>	<u>2:55 AM</u>											
<u>14</u>	<u>South wall pt 9</u>	<u>G</u>	<u>✓</u>			<u>✓</u>				<u>✓</u>			<u>10-11-11</u>	<u>10:00 AM</u>											

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Relinquished By: <u>Roberto Perna</u>	Date: <u>10-21-11</u>	Received By: <u>Gadi Merson</u>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: <u>9:40</u>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS: <u>Email Results</u> <u>Natalie.gladen@apache.corp.com</u> <u>Zwonder@rice-ecs.com; Baker@rice-ecs.com;</u> <u>Mander@rice-ecs.com; Lwinkeimer@rice-ecs.com</u>	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Sample Condition Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	CHECKED BY: (Initials) <u>GP</u>		

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



Appendix D

Groundwater Study

RICE Environmental Consulting and Safety (RECS)
P.O. Box 5630 Hobbs, NM 88241
Phone 575.393.4411 Fax 575.393.0293

Apache
Company

NEDU #348
site name

A 10 21S 37E
Unit Letter Section Township Range

Groundwater Depth: _____ 50 _____ ft

Compiled by: _____ Amy C. Ruth _____ Date: _____ 5/2/2012 _____

Comments: _____

○ = Wells of unknown use (USGS)
○ = Non-production wells (commercial, sanitation, stock)
☆ = Subject Site

	4 ○ 75' Dom & Stock	○ _{22'} 3	2	
	9 ○ _{58'}	10 ☆	11	
	70' Dom & Stock 16	15	○ _{28'} 14	



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

POD Number	POD Code	Subbasin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
<u>CP 00212</u>			LE	2	2	1	14	21S	37E	675254	3595753*	46		
<u>CP 00552</u>			LE	2	4	04	21S	37E	672700	3598022*	90	75	15	
<u>CP 00553</u>			LE	2	4	04	21S	37E	672700	3598022*	90	75	15	
<u>CP 00554</u>			LE	2	2	16	21S	37E	672744	3595610*	80	70	10	
Average Depth to Water:												73 feet		
Minimum Depth:												70 feet		
Maximum Depth:												75 feet		

Record Count: 4

PLSS Search:

Section(s): 2, 3, 4, 9, 10, 11, 14, 15, 16

Township: 21S

Range: 37E

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.



New Mexico Office of the State Engineer
Currently Active Points of Diversion
(with Ownership Information)

No PODs found.

POD Search:

POD Number: CP 00552

Usage Filter:

Use: PDL (NON 72-12-1 DOMESTIC & LIVESTOCK)



New Mexico Office of the State Engineer
Currently Active Points of Diversion
(with Ownership Information)

No PODs found.

POD Search:

POD Number: CP 00553

Usage Filter:

Use: PDL (NON 72-12-1 DOMESTIC & LIVESTOCK)



New Mexico Office of the State Engineer
Currently Active Points of Diversion
(with Ownership Information)

No PODs found.

POD Search:

POD Number: CP 00554

Usage Filter:

Use: PDL (NON 72-12-1 DOMESTIC & LIVESTOCK)

USGS 322849103080601 21S.37E.14.12410

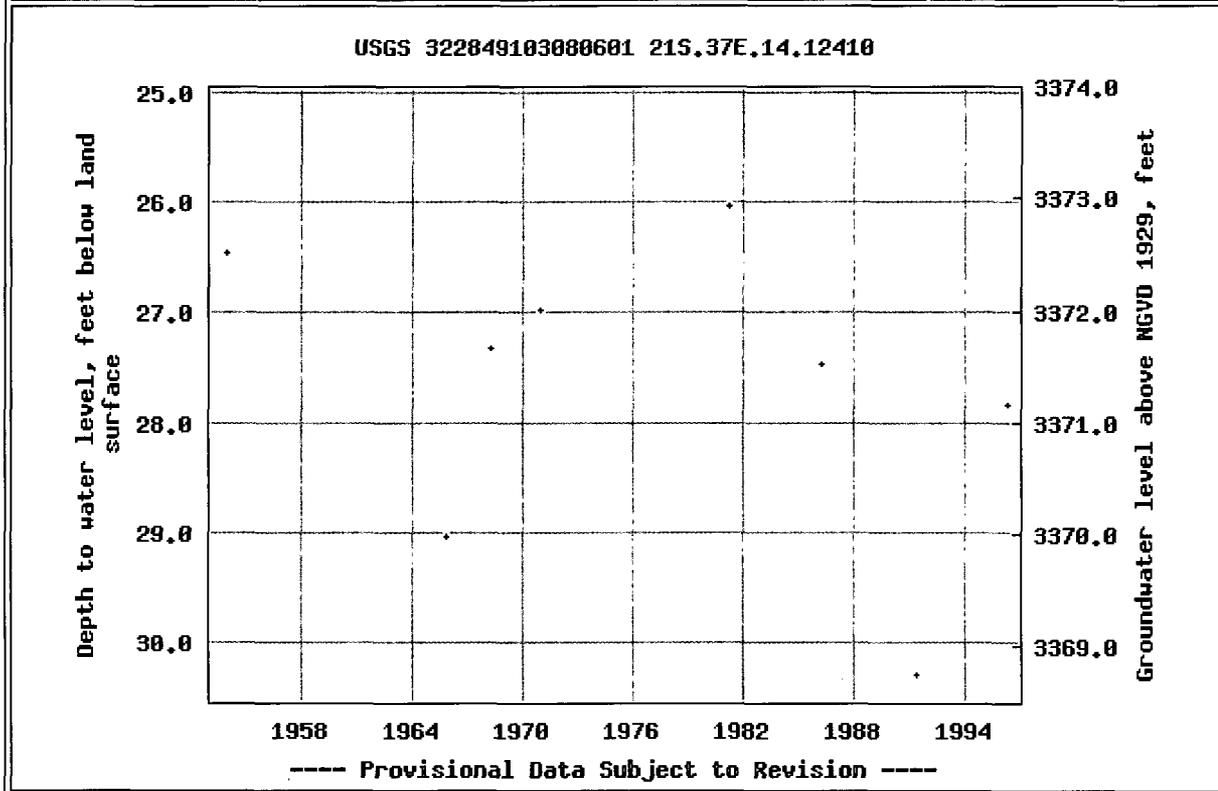
Available data for this site

Groundwater: Field measurements

Lea County, New Mexico
 Hydrologic Unit Code 13070007
 Latitude 32°29'01", Longitude 103°08'06" NAD27
 Land-surface elevation 3,399.00 feet above NGVD29
 The depth of the well is 48 feet below land surface.
 This well is completed in the Alluvium, Bolson Deposits
 and Other Surface Deposits (110AVMB) local aquifer.

Output formats

-
-
-
-



USGS 322937103094501 21S.37E.09.241211

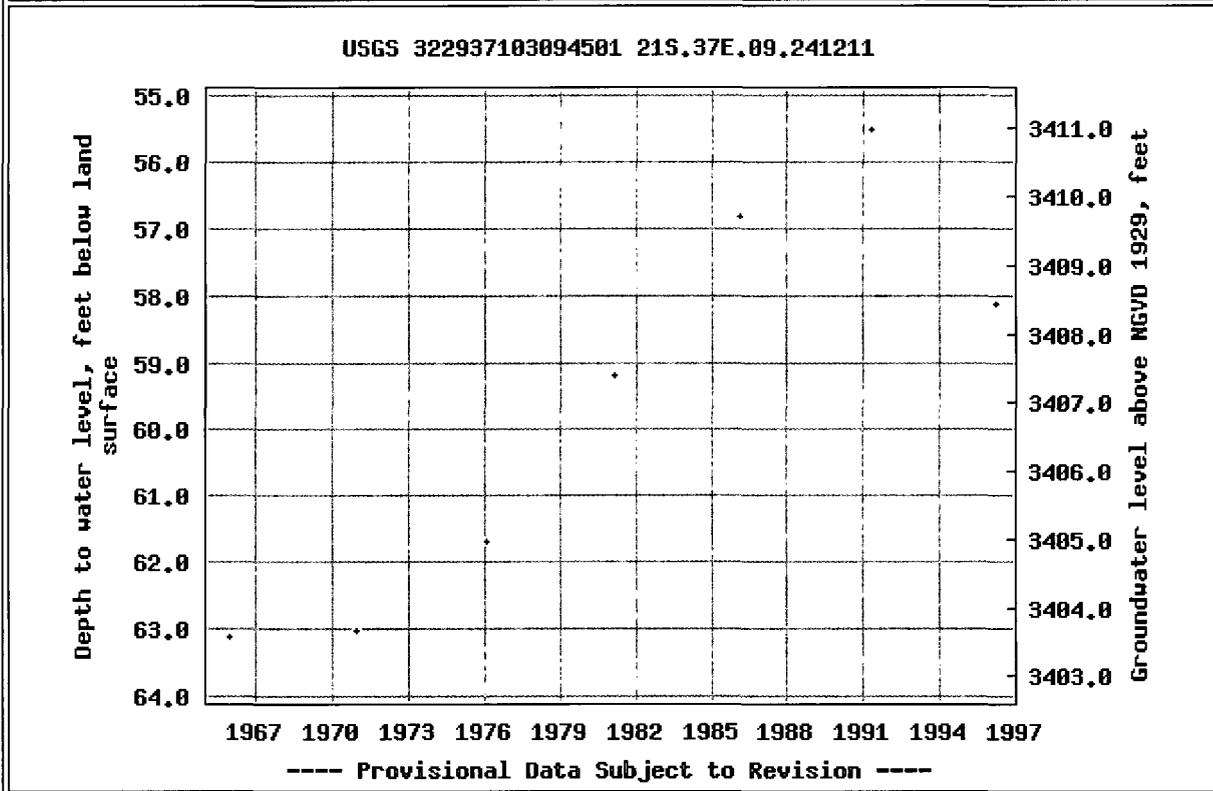
Available data for this site

Groundwater: Field measurements

Lea County, New Mexico
 Hydrologic Unit Code 13070007
 Latitude 32°29'49", Longitude 103°09'45" NAD27
 Land-surface elevation 3,466.60 feet above NGVD29
 The depth of the well is 90 feet below land surface.
 This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

-
-
-
-



USGS 323016103092001 21S.37E.03.31221

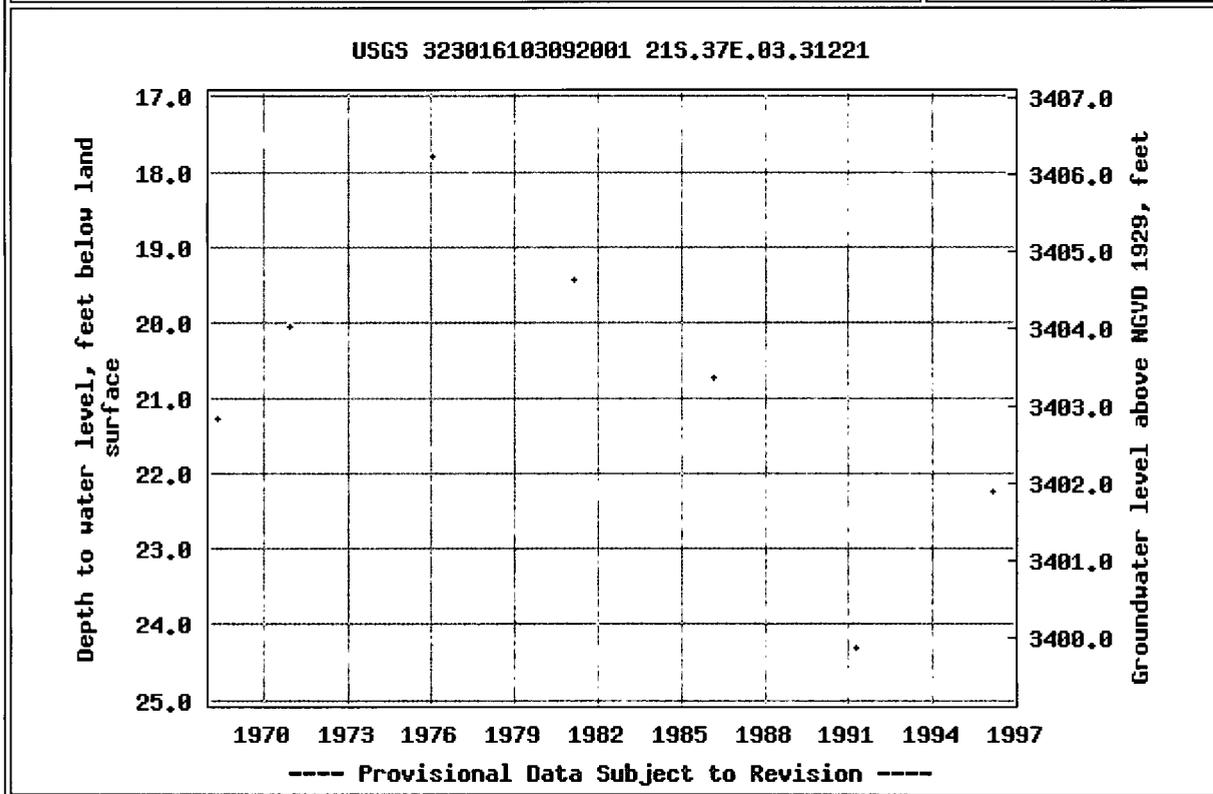
Available data for this site

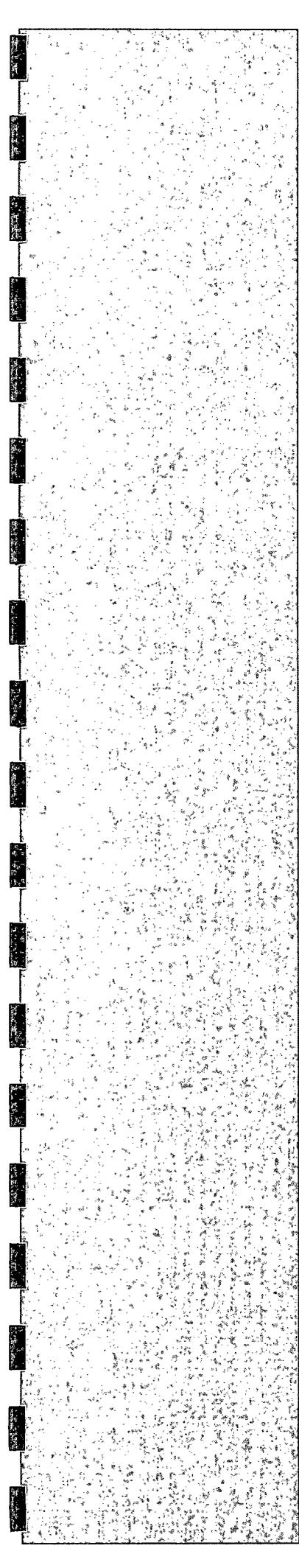
Groundwater: Field measurements

Lea County, New Mexico
 Hydrologic Unit Code 13070007
 Latitude 32°30'40", Longitude 103°19'21" NAD27
 Land-surface elevation 3,424.10 feet above NGVD29
 The depth of the well is 36 feet below land surface.
 This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

-
-
-
-





Appendix E

Final Form C-141

RICE Environmental Consulting and Safety (RECS)
P.O. Box 5630 Hobbs, NM 88241
Phone 575.393.4411 Fax 575.393.0293

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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

HOBBS OCD

NOV 09 2012

RECEIVED

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company	Apache Corp.	Contact	Natalie Gladden
Address	P.O. Box 1849, Eunice, NM, 88231	Telephone No.	(575) 390-4186
Facility Name	NEDU #348	Facility Type	Production Well
Surface Owner	McCasland	Mineral Owner	State of NM
		Lease No.	30-025-39583

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	10	21S	37E	10	FNL	330	FEL	Lea

Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release	Oil	Volume of Release	8 bbl	Volume Recovered	5 bbl
Source of Release	Stuffing box	Date and Hour of Occurrence	10/18/11	Date and Hour of Discovery	10/18/11
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 checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*

DTW = 24'

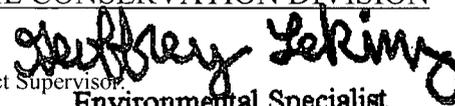
Describe Cause of Problem and Remedial Action Taken.*

Stuffing box blow out releasing fluid, standing fluid was recovered and one-call was made.

Describe Area Affected and Cleanup Action Taken.*

The leak affected the caliche pad surrounding the wellhead and a length of caliche road to the south. Impacted soils were removed to a NMOCD approved disposal facility. Representative soil samples were collected from the excavation and sent to a commercial laboratory for chloride and TPH confirmation. The excavation was backfilled with clean caliche and contoured to the surrounding area.

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

Signature:		OIL CONSERVATION DIVISION	
Printed Name:	Natalie Gladden	 Approved by District Supervisor Environmental Specialist	
Title:	EH&S Environmental Tech	Approval Date:	11/09/12
E-mail Address:	Natalie.gladden@apachecorp.com	Expiration Date:	-
Date:	11/9/12	Conditions of Approval:	-
Phone:	(575) 390-4186	Attached <input type="checkbox"/> IRP-06-14-3090	

* Attach Additional Sheets If Necessary