

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

HOBBS OCD State of New Mexico
Energy Minerals and Natural Resources
SEP 09 2013
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised October 10, 2003

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

RECEIVED

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 #220	Facility Type	Producing Well
Surface Owner	State of NM	Mineral Owner	State of NM
		Lease No.	30-025-06358

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	2	21S	37E	2886	FNL	2307	FEL	Lea

Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release	Produced Water and oil	Volume of Release	40 bbl	Volume Recovered	30 bbl
Source of Release	Flow Line	Date and Hour of Occurrence	12/27/12	Date and Hour of Discovery	12/27/12
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Leking		
By Whom?	Natalie Gladden	Date and Hour	12/28/2012 6:42 am		
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 = 49'

Describe Cause of Problem and Remedial Action Taken.*
Flow line ruptured due to freezing weather. Standing fluid was recovered and initial assessment of the release area has been conducted.

Describe Area Affected and Cleanup Action Taken.*
The leak affected 1,244 square feet of pasture land. The leak area was excavated to 6 ft. below ground surface (bgs). Impacted soils were removed to a NMOCD approved disposal facility. Representative soil samples were collected from the excavation walls and a soil bore at the center of the leak. The samples were sent to a commercial laboratory for chloride and TPH confirmation. A 20 mil reinforced plastic liner was installed in the excavation at a depth of 4 ft. bgs as a barrier to the downward migration of any remaining constituents. The excavation was backfilled with clean imported and blended topsoil, and was contoured to the surrounding landscape.

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 <i>Natalie Gladden</i> Environmental Specialist		
Printed Name: Natalie Gladden	Approved by District Supervisor:		
Title: EH&S Environmental Tech	Approval Date: 9/11/13	Expiration Date: -	
E-mail Address: Natalie.gladden@apachecorp.com	Conditions of Approval: -	Attached <input type="checkbox"/>	
Date: _____ Phone: (575) 390-4186	LRP-9-13-2948		

* Attach Additional Sheets If Necessary

[Handwritten signature]



EXPLORING WHAT'S POSSIBLE

HOBBS OCD

SEP 09 2013

RECEIVED

APACHE CORPORATION

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

approved
Jeffrey Yekim
Environmental Specialist
NMOC-DIST 1
9/11/13

NEDU #220 AD

Closure Report

API 30-025-06358

Release Date: December 27, 2012

Unit Letter J, Section 2, Township 21S, Range 37E

Rice Environmental Consulting & Safety

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

March 1, 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 – NEDU #220 AD
UL/J sec. 2 T21S R37E
API No. 30-025-06358**

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 produced water and hydrocarbon fluids associated with the NEDU #220. A flow line ruptured due to freezing weather and released fluids onto pasture land. The line was repaired and standing fluids were recovered. An initial form C-141 was submitted by Apache Corporation on December 28, 2012 (Appendix A). The site is located north of Eunice, in unit letter 'J' of section 2, T21S, R37E in Lea County, New Mexico.

On November 27, 2012, RECS personnel initiated work on the NEDU #220. Initial soil samples were collected from ground surface (Figure 1). The samples were field tested for chloride. Headspace measurements were also taken in the field using a Photo Ionization Detector (PID). The samples were submitted to a commercial laboratory for chloride and TPH (GRO/DRO) analyses (Appendix C). Chloride ranged from 336 mg/kg to 544 mg/kg, GRO ranged from 8,350 mg/kg to 14,800 mg/kg, and DRO ranged from 28,600 mg/kg to 47,400 mg/kg.

From January 7-8, 2013, RECS personnel collected and field tested soil samples from Vertical #1 to a depth of 24 ft. below ground surface (bgs) and Vertical #2 to a depth of 15 ft. bgs (Figure 2). The leak area was excavated to 6 ft. bgs and representative grab samples of the excavation walls were submitted to a laboratory for chloride and TPH analyses (Appendix C). The wall samples contained 32 mg/kg chloride or less, <10 mg/kg GRO, and <10 mg/kg DRO.

Impacted soils were removed to a NMOCD approved disposal facility. The excavation was backfilled to a depth of 4 ft. bgs. A 20 mil reinforced plastic liner was installed at 4 ft bgs, and the remaining excavation was backfilled with clean soil from the surrounding sand dunes.

On February 14, 2013, a soil bore was advanced at the site to a depth of 39 ft. bgs (Figure 2) (Appendix D). Soil samples were submitted to a laboratory for chloride and TPH analyses (Appendix C). The 36 ft. sample contained 128 mg/kg chloride and <10 mg/kg GRO and DRO. The 39 ft. sample contained 64 mg/kg chloride and <10 mg/kg GRO and DRO. The soil bore was plugged in full with bentonite.

See Appendix B for photographs of field activities.

Conclusion

According to the US Geological Survey (USGS), depth to groundwater in the area approximates 41 ft bgs (Appendix D). Due to the removal of surface impacted soils, the installation of a barrier, and laboratory confirmation of the depth of constituent impact, 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.

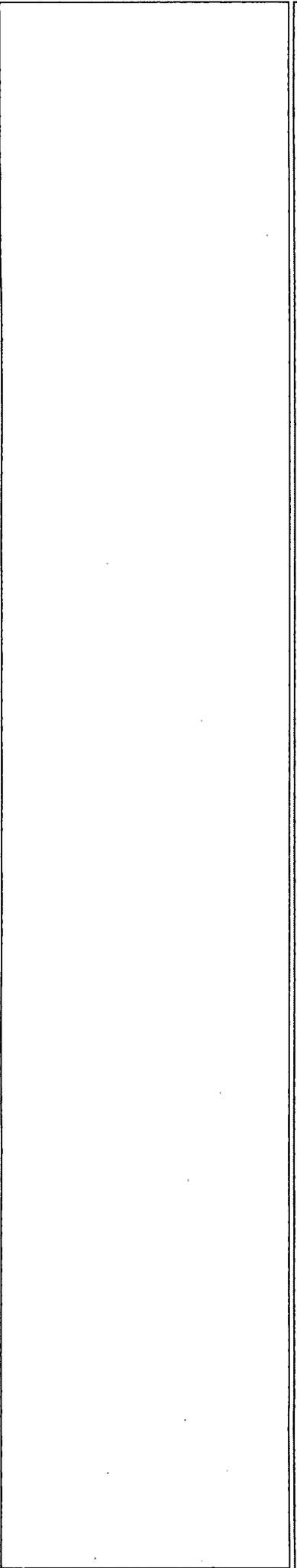
Sincerely,



Bruce Baker
Head Foreman
RECS
(575) 631-5157

Attachments:

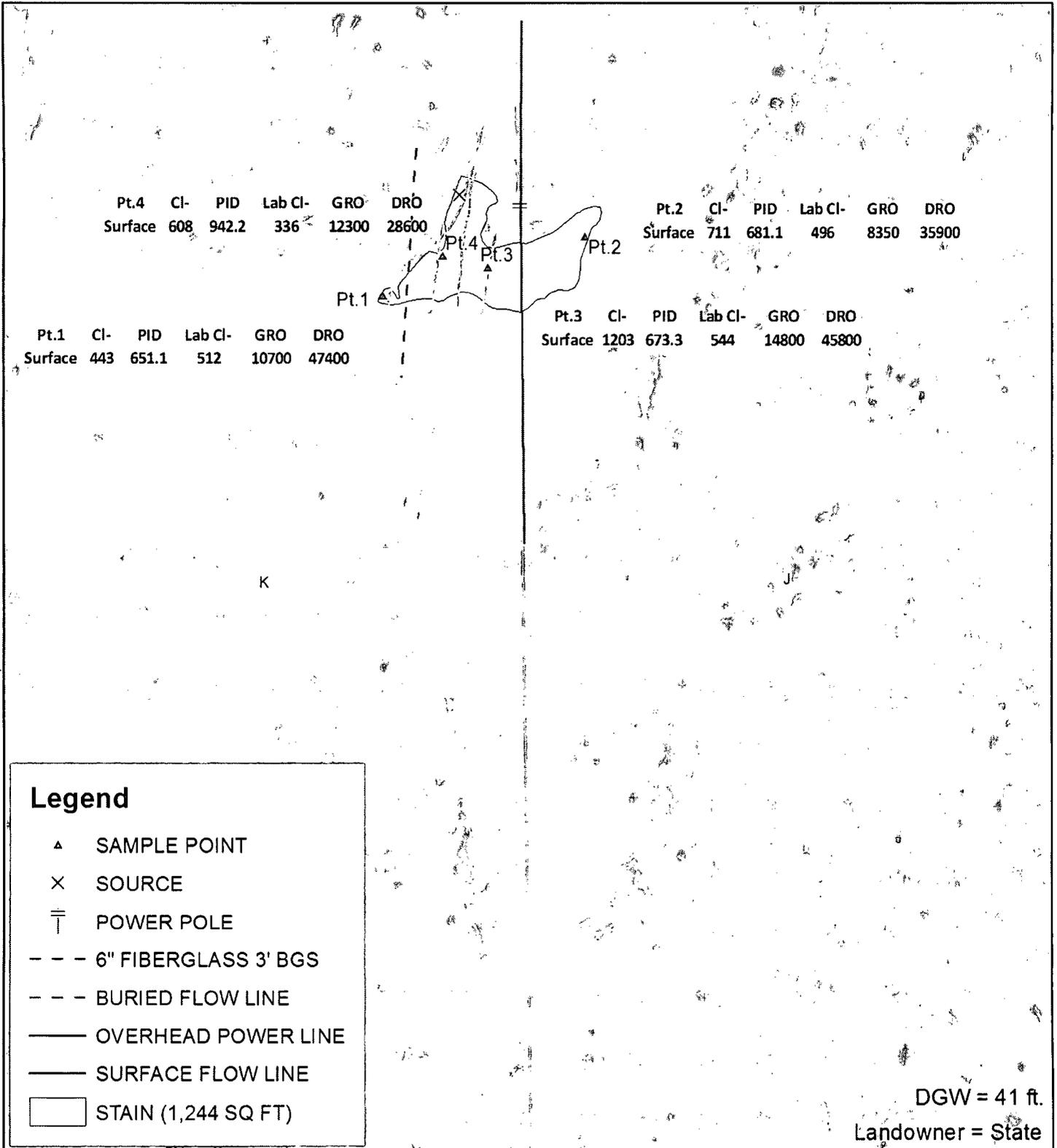
- Figure 1: Site Plat with Initial Sampling Data
- Figure 2: Site Plat with Vertical, Soil Bore, and Excavation Data
- Appendix A: Initial Form C-141
- Appendix B: Site Photographs
- Appendix C: Laboratory Results
- Appendix D: Soil Bore Log and Soil Bore Site Photographs
- Appendix E: Groundwater Study
- Appendix F: Final Form C-141



Figures

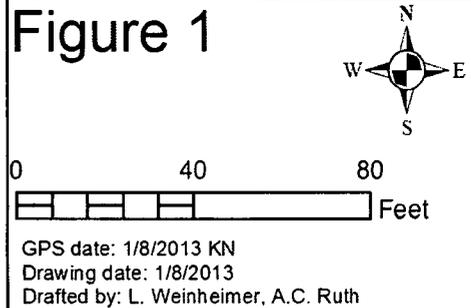
RICE Environmental Consulting and Safety (RECS)
P.O. Box 5630 Hobbs, NM 88241
Phone 575.393.4411 Fax 575.393.0293

Initial Sampling Data



APACHE
NEDU #220 AD

LEGALS: UL/K&J SEC 2
T21S R37E
LEA COUNTY, NM



Vertical, Soil Bore, and Excavation Data

Pt.1	CI-	PID	Lab CI-	GRO	DRO
Surface	443	651.1	512	10700	47400

Pt.2	CI-	PID	Lab CI-	GRO	DRO
Surface	711	681.1	496	8350	35900

Pt.3	CI-	PID	Lab CI-	GRO	DRO
Surface	1203	673.3	544	14800	45800

Pt.4	CI-	PID	Lab CI-	GRO	DRO
Surface	608	942.2	336	12300	28600



SB-1					
Depth	CI-	PID	LAB CI-	GRO	DRO
18	1000	2.7	1600	<10	<10
21	857	3.5			
24	892	4.3			
27	491	5			
30	429	4.6			
33	379	5.1			
36	180	1.4	128	<10	<10
39	118	2.6	64	<10	<10

Excavation			
Sample Description	CI-	GRO	DRO
N Wall Center	32	<10	<10
S Wall Center	32	<10	<10
E Wall Center	32	<10	<10
W Wall Center	<16	<10	<10

Vertical #1			Vertical #2		
Depth	CI-	PID	Depth	CI-	PID
1'	560	5,000	6'	871	3,350
2'	503	5,000	7'	638	1,800
3'	538	5,000	8'	473	3,346
4'	442	4,939	9'	575	4,337
5'	451	3,514	10'	985	4,491
6'	512	226.5	11'	770	4,650
7'	592	24.3	12'	1029	5,000
8'	449	11.7	13'	864	3,911
9'	1387	6.8	14'	1216	44.7
10'	931	5.9	15'	1442	94.6
11'	688	9.2			
12'	692	6.4			
13'	418	8.7			
14'	918	1.7			
15'	1224	1.5			
16'	1159	84.6			
17'	755	117.2			
18'	875	4.2			
19'	829	4.1			
20'	938	20.3			
21'	963	29			
22'	1152	4.9			
23'	1245	2.9			
24'	1951	2.5			

Legend

- Soil Bore
- SAMPLE POINT
- SOURCE
- VERTICAL
- POWER POLE
- 6" FIBERGLASS 3' BGS
- BURIED FLOW LINE
- OVERHEAD POWER LINE
- SURFACE FLOW LINE
- EXCAVATION
- STAIN (1,244 SQ FT)

DGW = 41 ft.

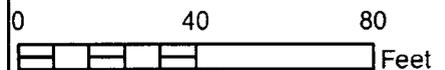
Landowner = State



APACHE NEDU #220 AD

LEGALS: UL/K&J SEC 2
T21S R37E
LEA COUNTY, NM

Figure 2



GPS date: 2/14/2013 KN
Drawing date: 2/22/2013
Drafted by: LS, A.C.Ruth

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

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company Apache Corporation	Contact Natalie Gladden
Address PO Box 1849 Eunice, NM 88231	Telephone No. 575-390-4186
Facility Name NEDU #220	Facility Type Producing well
Surface Owner State of NM	Mineral Owner State of NM
API No. 30-025-06358	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	2	21S	37E	2886'	FNL	2307'	FEL	Lea

Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release Produced water and oil	Volume of Release 40	Volume Recovered 30
Source of Release Flowline	Date and Hour of Occurrence 12/27/2012	Date and Hour of Discovery 12/27/2012
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Leking	
By Whom? Natalie Gladden	Date and Hour 12/28/2012 642am	
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.*

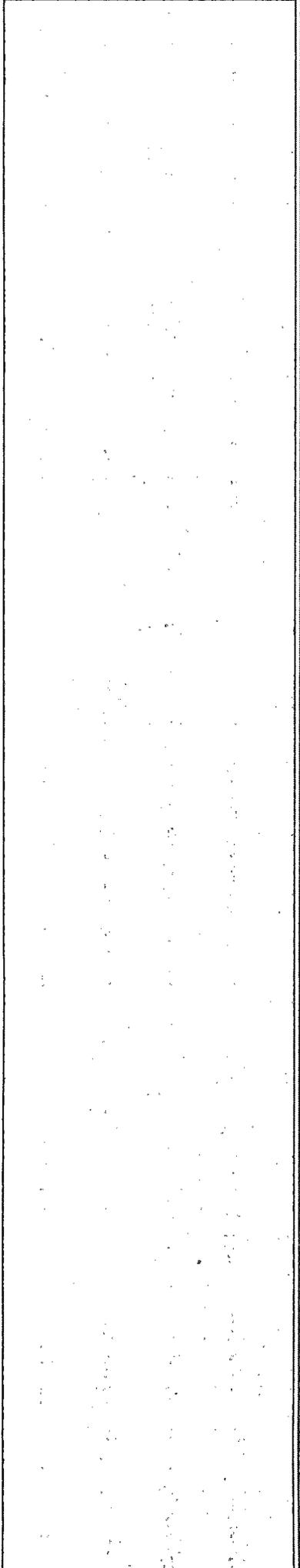
Describe Cause of Problem and Remedial Action Taken.*
Flowline ruptured due to freezing weather. Standing fluid was recovered and initial assessment of the release area has been conducted.

Describe Area Affected and Cleanup Action Taken.*
The release area is in a sandy loom area. Verticals will be excavated to find depth and extent of contamination then a remediation plan will be formed and 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: Sr. Environmental Tech	Approval Date:	Expiration Date:
E-mail Address: natalie.gladden@apachecorp.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 12/28/2012 Phone: 575-390-4186		

* Attach Additional Sheets If Necessary



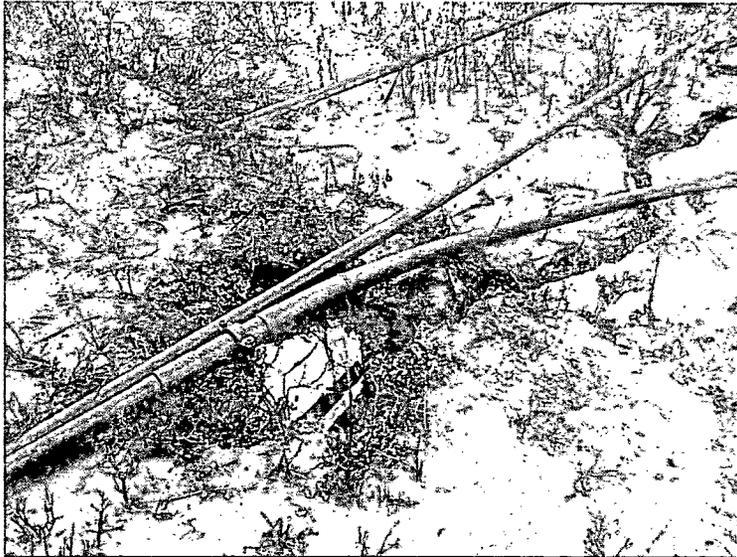
Appendix B

Site Photographs

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

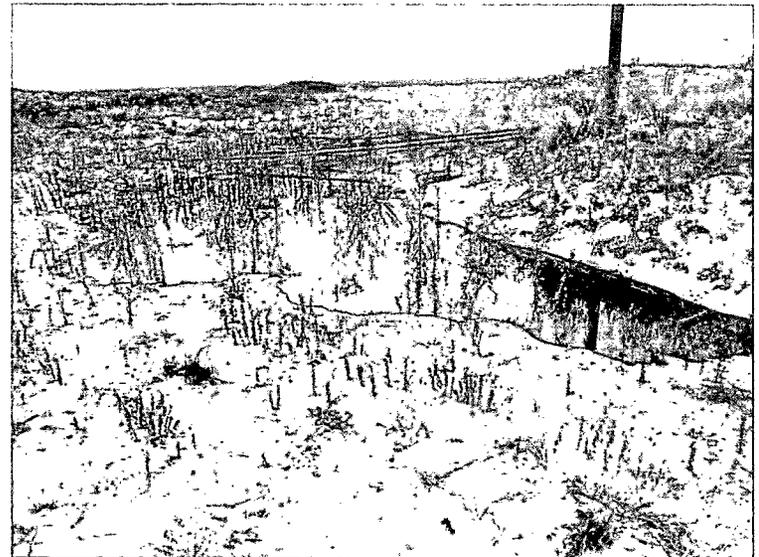
Apache NEDU #220 AD

Unit Letter K&J, Section 2, T21S, R37E



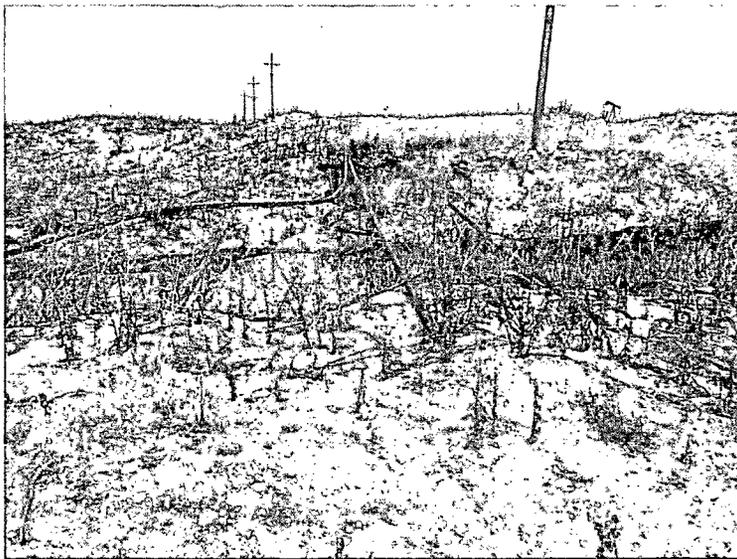
Release source, facing east

12/27/12



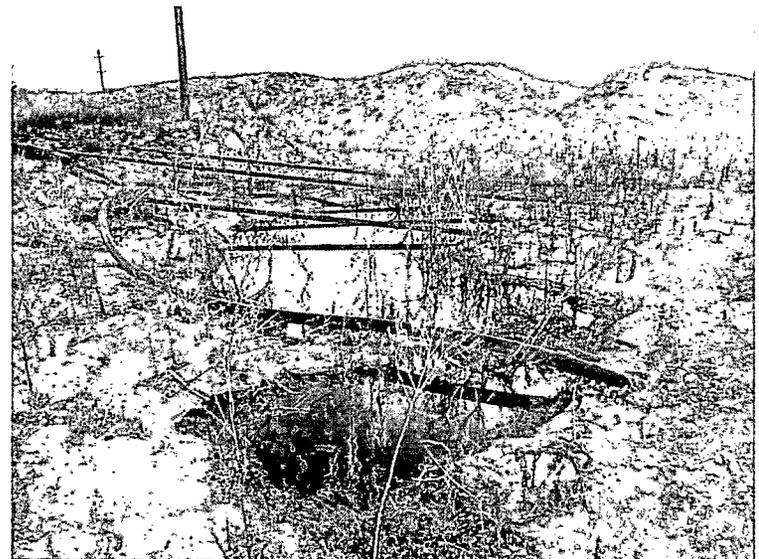
Initial release area, facing west

12/27/12



Initial release area, facing north

12/27/12



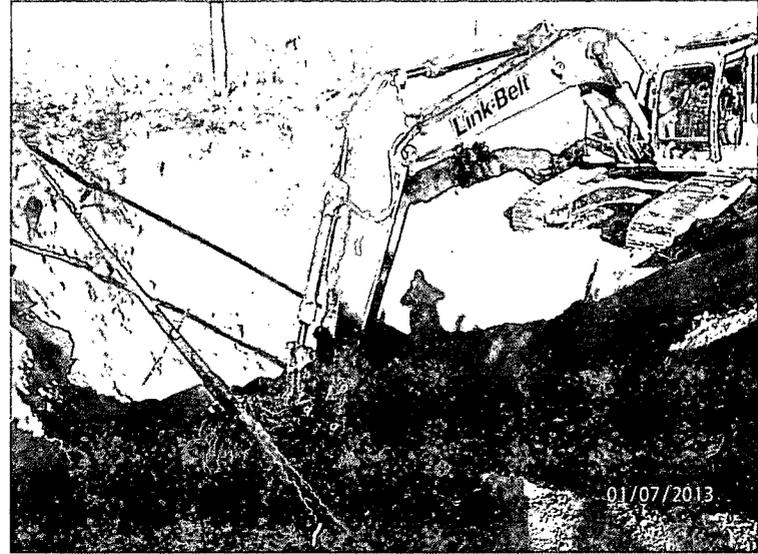
Initial release area, facing east

12/27/12



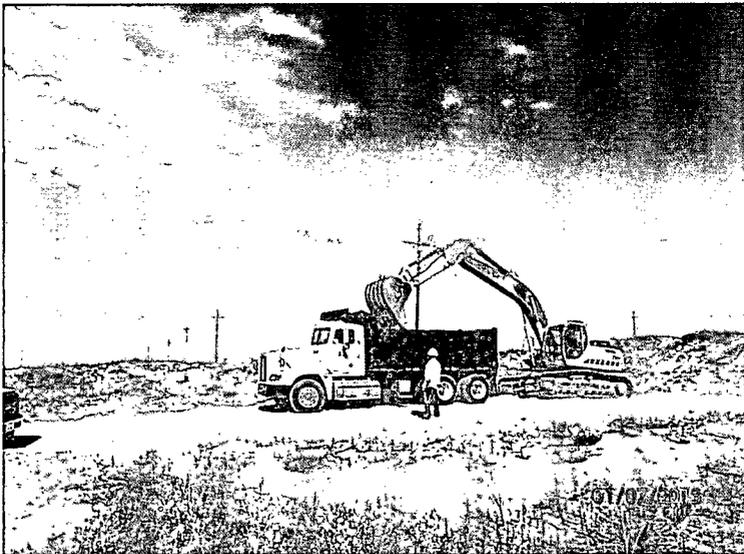
Excavating, facing east

1/7/13



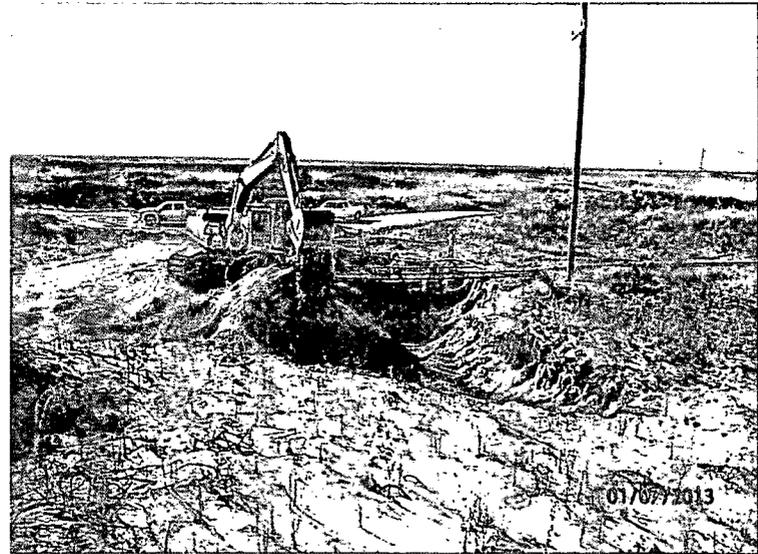
Digging Vertical #1, facing northeast

1/7/13



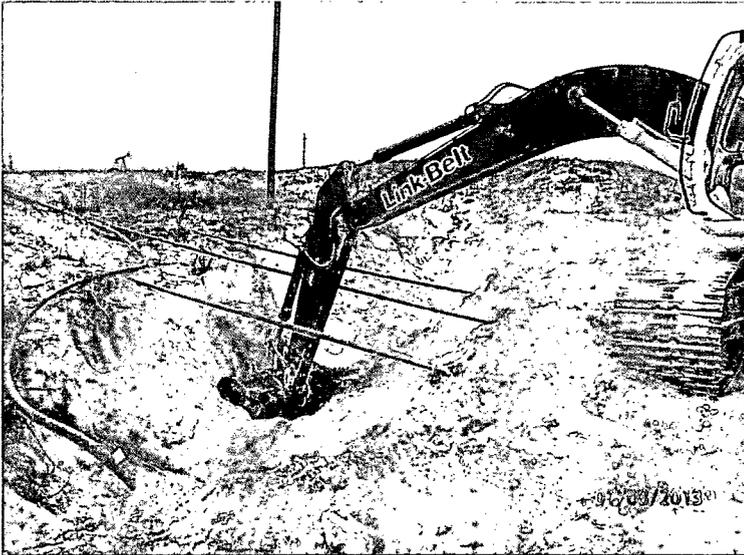
Exporting soil, facing northeast

1/7/13



Excavating, facing west

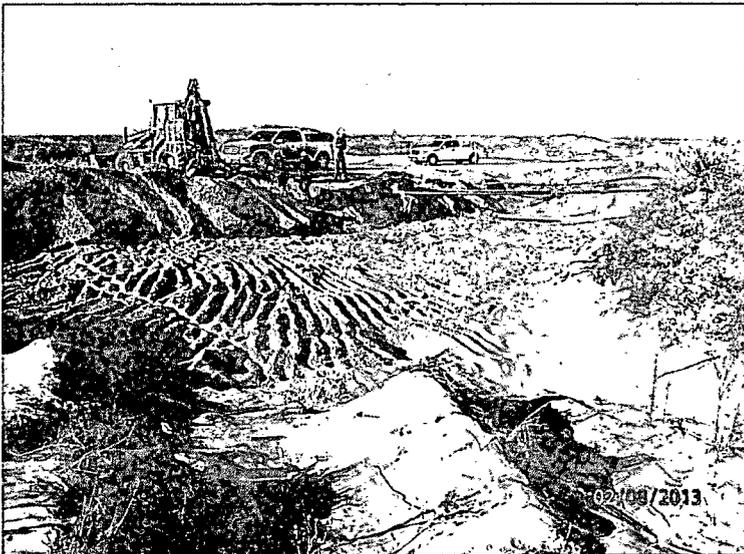
1/7/13



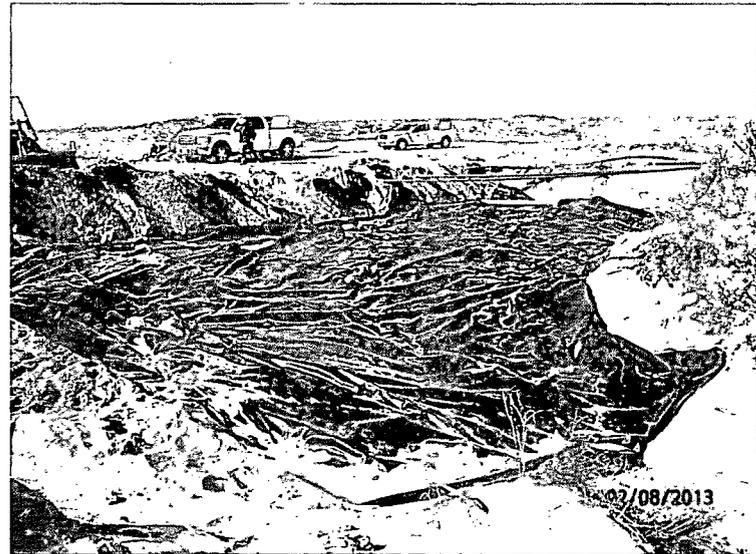
Digging Vertical #2, facing northeast 1/8/13



Backfilling excavation, facing west 1/9/13



Excavation backfilled to 4 ft. bgs, facing south 2/8/13



Liner installed, facing south 2/8/13



Backfilling above liner, facing east

2/8/13



Backfilling above liner, facing east

2/8/13

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

January 03, 2013

NATALIE GLADDEN
APACHE - EUNICE
P. O. BOX 1849
EUNICE, NM 88231

RE: NEDU #220

Enclosed are the results of analyses for samples received by the laboratory on 12/27/12 16:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

 Received: 12/27/2012
 Reported: 01/03/2013
 Project Name: NEDU #220
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 12/27/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP. 1 (H203096-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	512	16.0	12/31/2012	ND	432	108	400	11.8		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	10700	100	12/29/2012	ND	188	94.0	200	10.0		
DRO >C10-C28	47400	100	12/29/2012	ND	198	99.0	200	13.6		

Surrogate: 1-Chlorooctane 620 % 65.2-140
 Surrogate: 1-Chlorooctadecane 1130 % 63.6-154

Sample ID: SP. 2 (H203096-02)

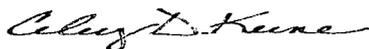
Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	496	16.0	12/31/2012	ND	432	108	400	11.8		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	8350	50.0	12/29/2012	ND	188	94.0	200	10.0		
DRO >C10-C28	35900	50.0	12/29/2012	ND	198	99.0	200	13.6		

Surrogate: 1-Chlorooctane 476 % 65.2-140
 Surrogate: 1-Chlorooctadecane 837 % 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
 NATALIE GLADDEN
 P. O. BOX 1849
 EUNICE NM, 88231
 Fax To: 394-2425

 Received: 12/27/2012
 Reported: 01/03/2013
 Project Name: NEDU #220
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 12/27/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP. 3 (H203096-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	544	16.0	12/31/2012	ND	432	108	400	11.8		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	14800	100	12/29/2012	ND	188	94.0	200	10.0		
DRO >C10-C28	45800	100	12/29/2012	ND	198	99.0	200	13.6		

Surrogate: 1-Chlorooctane 652 % 65.2-140
 Surrogate: 1-Chlorooctadecane 1060 % 63.6-154

Sample ID: SP. 4 (H203096-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	12/31/2012	ND	432	108	400	11.8		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	12300	50.0	12/31/2012	ND	187	93.5	200	0.497		
DRO >C10-C28	28600	50.0	12/31/2012	ND	199	99.5	200	0.749		

Surrogate: 1-Chlorooctane 417 % 65.2-140
 Surrogate: 1-Chlorooctadecane 622 % 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

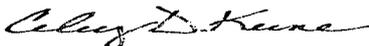
Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- 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



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

January 15, 2013

NATALIE GLADDEN

APACHE - EUNICE

P. O. BOX 1849

EUNICE, NM 88231

RE: NEDU #220

Enclosed are the results of analyses for samples received by the laboratory on 01/09/13 13:55.

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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style.

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: 01/09/2013
 Reported: 01/15/2013
 Project Name: NEDU #220
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 01/08/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: N WALL CENTER (H300051-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/15/2013	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	01/14/2013	ND	195	97.4	200	0.708		
DRO >C10-C28	<10.0	10.0	01/14/2013	ND	205	103	200	0.931		

Surrogate: 1-Chlorooctane 89.2 % 65.2-140
 Surrogate: 1-Chlorooctadecane 99.2 % 63.6-154

Sample ID: S WALL CENTER (H300051-02)

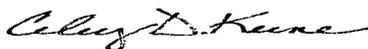
Chloride, SM4500CI-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/15/2013	ND	432	108	400	0.00		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	01/14/2013	ND	195	97.4	200	0.708		
DRO >C10-C28	<10.0	10.0	01/14/2013	ND	205	103	200	0.931		

Surrogate: 1-Chlorooctane 92.0 % 65.2-140
 Surrogate: 1-Chlorooctadecane 104 % 63.6-154

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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: 01/09/2013
 Reported: 01/15/2013
 Project Name: NEDU #220
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 01/08/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: E WALL CENTER (H300051-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/15/2013	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	01/14/2013	ND	195	97.4	200	0.708		
DRO >C10-C28	<10.0	10.0	01/14/2013	ND	205	103	200	0.931		
Surrogate: 1-Chlorooctane	90.6 %	65.2-140								
Surrogate: 1-Chlorooctadecane	102 %	63.6-154								

Sample ID: W WALL CENTER (H300051-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	01/15/2013	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	01/14/2013	ND	195	97.4	200	0.708		
DRO >C10-C28	<10.0	10.0	01/14/2013	ND	205	103	200	0.931		
Surrogate: 1-Chlorooctane	90.5 %	65.2-140								
Surrogate: 1-Chlorooctadecane	102 %	63.6-154								

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*=Accredited Analyte

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Celest D. Keene, Lab Director/Quality Manager

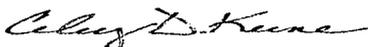
Notes and Definitions

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

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



February 21, 2013

NATALIE GLADDEN

APACHE - EUNICE

P. O. BOX 1849

EUNICE, NM 88231

RE: NEDU #220

Enclosed are the results of analyses for samples received by the laboratory on 02/14/13 15:20.

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

 Received: 02/14/2013
 Reported: 02/21/2013
 Project Name: NEDU #220
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 02/14/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SB-1 @ 18' (H300422-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1600	16.0	02/19/2013	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	02/20/2013	ND	202	101	200	0.0243		
DRO >C10-C28	<10.0	10.0	02/20/2013	ND	179	89.3	200	0.188		

Surrogate: 1-Chlorooctane 86.3 % 65.2-140
 Surrogate: 1-Chlorooctadecane 101 % 63.6-154

Sample ID: SB-1 @ 36' (H300422-02)

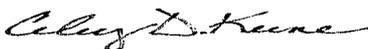
Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	02/19/2013	ND	432	108	400	0.00		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	02/20/2013	ND	202	101	200	0.0243		
DRO >C10-C28	<10.0	10.0	02/20/2013	ND	179	89.3	200	0.188		

Surrogate: 1-Chlorooctane 68.8 % 65.2-140
 Surrogate: 1-Chlorooctadecane 77.1 % 63.6-154

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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:	02/14/2013	Sampling Date:	02/14/2013
Reported:	02/21/2013	Sampling Type:	Soil
Project Name:	NEDU #220	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SB-1 @ 39' (H300422-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	02/19/2013	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	02/20/2013	ND	202	101	200	0.0243		
DRO >C10-C28	<10.0	10.0	02/20/2013	ND	179	89.3	200	0.188		

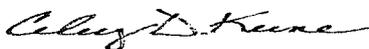
Surrogate: 1-Chlorooctane 74.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 84.6 % 63.6-154

Cardinal Laboratories

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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

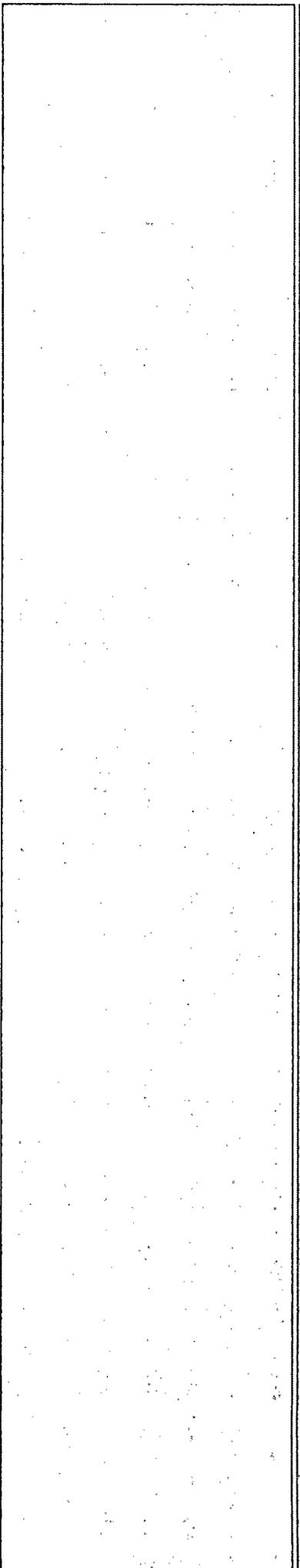
Company Name: Apache				BILL TO				ANALYSIS REQUEST																			
Project Manager: Natalie Gladden				P.O. #:				Chlorides TPH 8015 M BTEX Texas TPH Complete Cations/Anions TDS																			
Address:				Company:																							
City: Hobbs		State: NM		Zip: 88240		Attn:																					
Phone #:		Fax #:		Address:																							
Project #:		Project Owner:		City:																							
Project Name:				State:		Zip:																					
Project Location: <i>NEQU # 220 AD</i>				Phone #:																							
Sampler Name: Kyle Norman				Fax #:																							
FOR LAB USE ONLY																											
Lab I.D.		Sample I.D.		GRAB OR (COMP. # CONTAINERS)		GROUNDWATER														WASTEWATER		SOIL		OIL		SLUDGE	
<i>A300420</i>																											
<i>1 SB-1 @ 18'</i>				<i>1</i>																							
<i>2 SB-1 @ 36'</i>				<i>1</i>																							
<i>3 SB-1 @ 39'</i>				<i>1</i>																							

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Relinquished By: <i>Kyle Norman</i>		Date: <i>2-14-13</i>		Received By: <i>Rodi Menson</i>		Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Add'l Phone #:	
		Time: <i>3:20</i>				Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Add'l Fax #:	
Relinquished By:		Date:		Received By:		REMARKS: email results Natalie.Gladden@usa.apachecorp.com Knorman@rice-ecs.com Bbaker@rice-ecs.com; hconder@rice-ecs.com; Lweinheimer@rice-ecs.com			
		Time:							
Delivered By: (Circle One)									
Sampler - UPS: - Bus - Other:		<i>30</i>		Sample Condition					
				Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>					
				Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					
				Yes <input type="checkbox"/> No <input type="checkbox"/>					
				CHECKED BY: <i>[Signature]</i>					

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

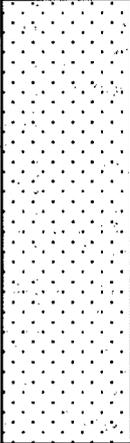
#26



Appendix D

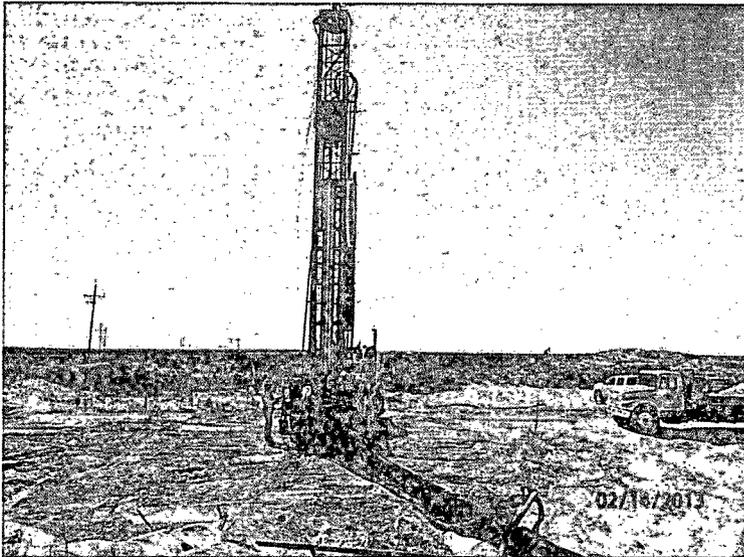
Soil Bore Log and Soil Bore Site Photographs

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

Depth (feet)	Chloride field tests	LAB	PID	Description	Lithology	Well Construction
				Red/Tan Sand		
36 ft	892	Cl-128	1.4			
		GRO <10				
		DRO <10				
39 ft	491	Cl-64	2.6			
		GRO <10				
		DRO <10				

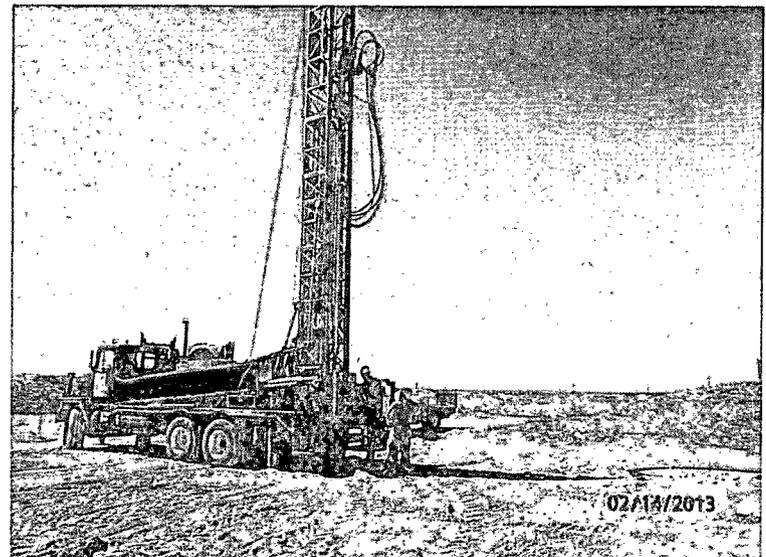
Apache NEDU #220 AD Soil Bore Installation

Unit Letter K&J, Section 2, T21S, R37E



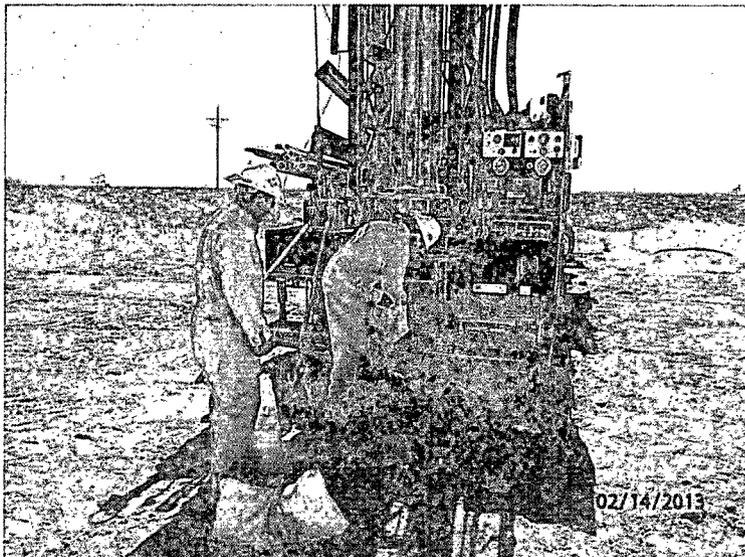
Drilling SB1, facing south

2/14/13



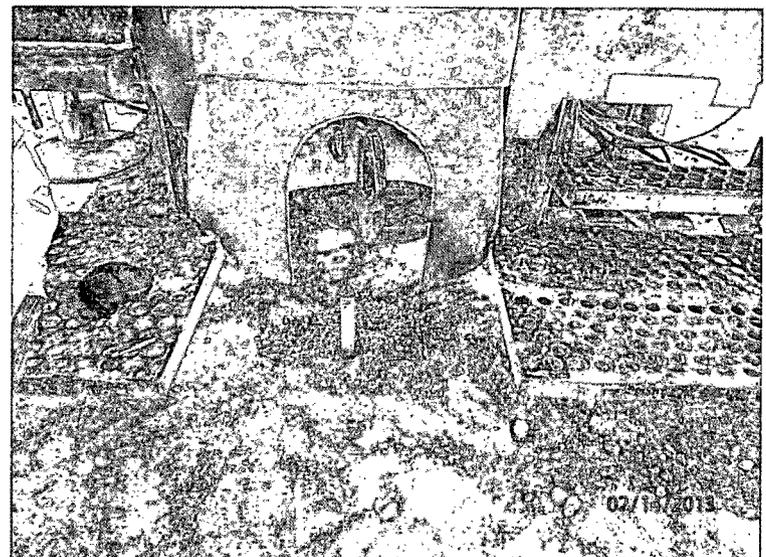
Drilling SB1, facing west

2/14/13



Plugging SB1 with bentonite, facing south

2/14/13



SB1 complete, facing south

2/14/13



Appendix E

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 #220 AD
site name

K&J 2 21S 37E
Unit Letter Section Township Range

Groundwater Depth: 41 ft

Compiled by: Amy C. Ruth Date: 12/28/2012

Comments:

○ = Wells of unknown use (USGS)

○ = Non-production wells
(commercial, sanitation, stock)

☆ = Subject

	34	35 ○ 61'	36	T20S R37E
	○ 22' 3	2 ☆	1	T21S R37E
	10	11	12	

USGS 323016103092001 21S.37E.03.31221

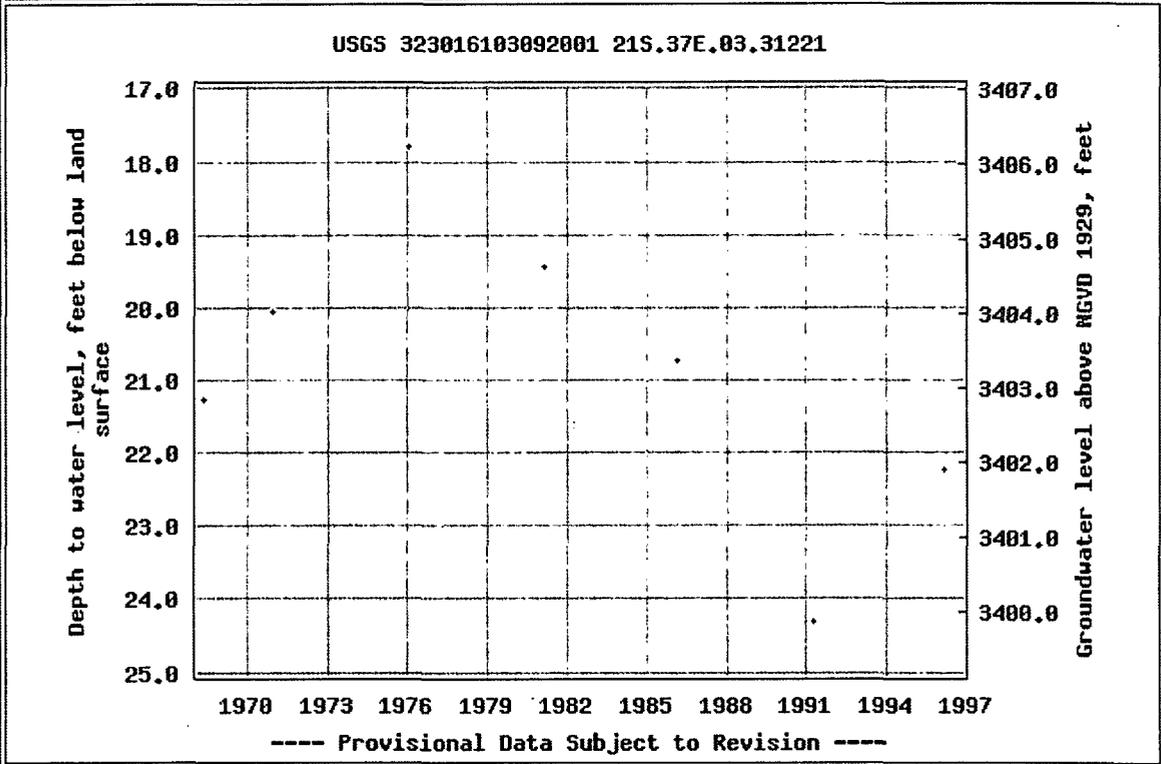
Available data for this site

Groundwater: Field measurements [GO]

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

- Table of data
- Tab-separated data
- Graph of data
- Reselect period



USGS 323114103130601 20S.37E.35.414234

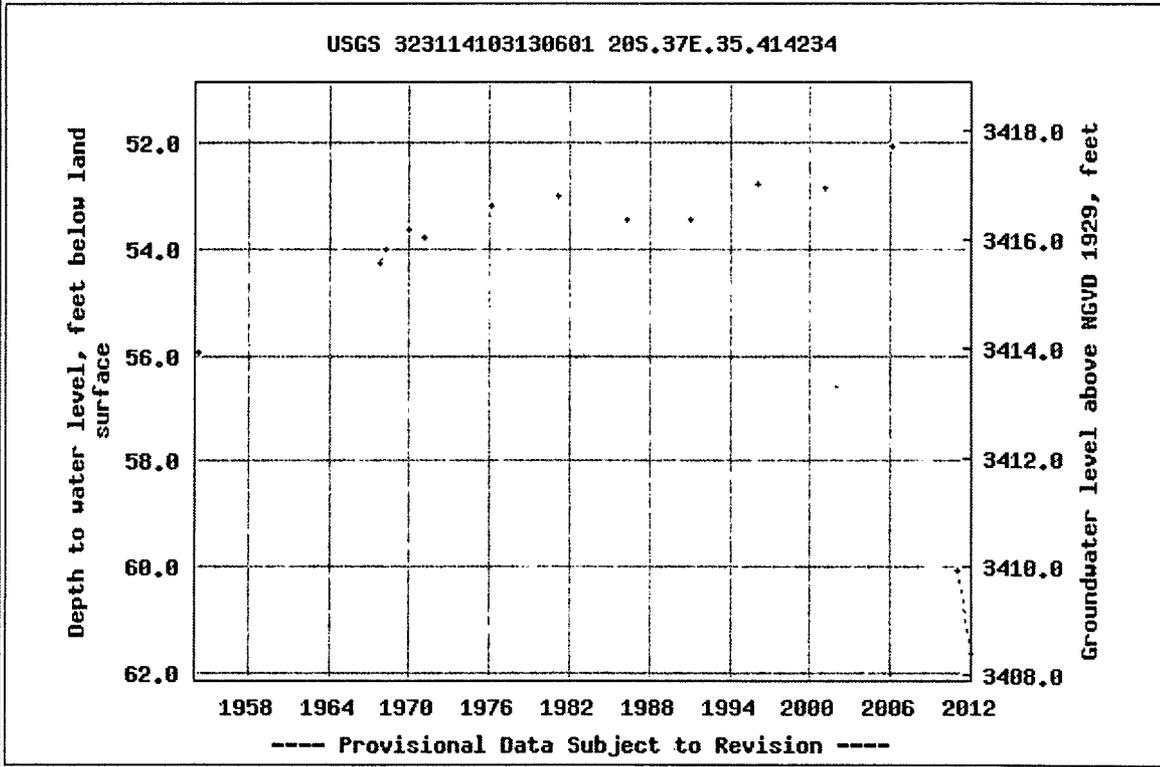
Available data for this site

Groundwater: Field measurements

Lea County, New Mexico
 Hydrologic Unit Code 13070007
 Latitude 32°31'37", Longitude 103°13'06" NAD27
 Land-surface elevation 3,469.90 feet above NGVD29
 The depth of the well is 63 feet below land surface.
 This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

-
-
-
-





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
CP 00197			LE	1	4	1	01	21S	37E	676611	3598599*	85		
												Average Depth to Water:	--	
												Minimum Depth:	--	
												Maximum Depth:	--	

Record Count: 1

PLSS Search:

Section(s): 1, 2, 3, 10, 11, 12 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
Water Column/Average Depth to Water

No records found.

PLSS Search:

Section(s): 34, 35, 36

Township: 20S

Range: 37E

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.

12/28/12 8:52 AM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER

Appendix F

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

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

Form C-141
Revised October 10, 2003

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

SEP 09 2013

RECEIVED

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 #220	Facility Type	Producing Well

Surface Owner	State of NM	Mineral Owner	State of NM	Lease No.	30-025-06358
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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
J	2	21S	37E	2886	FNL	2307	FEL	Lea

Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release	Produced Water and oil	Volume of Release	40 bbl	Volume Recovered	30 bbl
Source of Release	Flow Line	Date and Hour of Occurrence	12/27/12	Date and Hour of Discovery	12/27/12
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Leking		
By Whom?	Natalie Gladden	Date and Hour	12/28/2012 6:42 am		
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 = 49'

Describe Cause of Problem and Remedial Action Taken.*

Flow line ruptured due to freezing weather. Standing fluid was recovered and initial assessment of the release area has been conducted.

Describe Area Affected and Cleanup Action Taken.*

The leak affected 1,244 square feet of pasture land. The leak area was excavated to 6 ft. below ground surface (bgs). Impacted soils were removed to a NMOCD approved disposal facility. Representative soil samples were collected from the excavation walls and a soil bore at the center of the leak. The samples were sent to a commercial laboratory for chloride and TPH confirmation. A 20 mil reinforced plastic liner was installed in the excavation at a depth of 4 ft. bgs as a barrier to the downward migration of any remaining constituents. The excavation was backfilled with clean imported and blended topsoil, and was contoured to the surrounding landscape.

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 <i>Natalie Gladden</i>		
Printed Name: Natalie Gladden	Approved by District Supervisor Environmental Specialist		
Title: EH&S Environmental Tech	Approval Date: 9/11/13	Expiration Date: -	
E-mail Address: Natalie.gladden@apachecorp.com	Conditions of Approval: -	Attached <input type="checkbox"/>	
Date:	Phone: (575) 390-4186	IRP-9-13-2948	

* Attach Additional Sheets If Necessary