

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

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

HOBBS OCD

Form C-141
Revised August 8, 2011

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

RECEIVED

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company Apache Corporation	Contact Bruce Baker
Address PO Box 1849, Eunice, NM 88240	Telephone No. (432) 631-6982
Facility Name NEDU #173	Facility Type Production Well
Surface Owner Millard Deck Estate	Mineral Owner State
API No. 30-025-40554	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
B	3	21S	37E	3785	FNL	1980	FEL	Lea

Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release Oil/Produced Water	Volume of Release 40 bbls	Volume Recovered 30 bbls
Source of Release Valve	Date and Hour of Occurrence 7/12/12	Date and Hour of Discovery 7/12/12
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Geoffrey Leking - NMOCD	
By Whom? Natalie Gladden	Date and Hour 7/16/12	
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.* While laying out the new flow line to the well, the valves on the header were not closed and the check valve did not hold. The fluid from the battery back-flowed down the flow line causing the release. A total of 40 barrels were released and a total of 30 barrels of standing fluid was recovered.

Describe Area Affected and Cleanup Action Taken.* The header valves were closed, the check valve was replaced, and the standing fluid was recovered. A total of 6,549 sq ft of pad and pasture land was affected. RECS personnel were on site beginning on July 12th, 2012. Initial samples were taken throughout the release and field tested for chlorides and hydrocarbons. The surface samples were taken to a commercial laboratory for analysis. The site was excavated to 3 ft bgs, where field sampling evidenced clean wall and bottom samples. Final grab samples from the walls and bottom were taken to a commercial laboratory for analysis of chlorides and hydrocarbons. The pasture was backfilled with clean, imported soil and the road was backfilled with imported caliche. A sample of the imported caliche was taken to a commercial laboratory. The pasture was contoured to the surrounding location and the road was packed to provide a stable driving surface.

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

Signature: <i>Bruce Baker</i>	OIL CONSERVATION DIVISION	
Printed Name: Bruce Baker	<i>Geoffrey Leking</i> Approved by Environmental Specialist Environmental Specialist	
Title: Environmental Tech	Approval Date: 02/06/14	Expiration Date: -
E-mail Address: larry.baker@apachecorp.com	Conditions of Approval: -	Attached <input type="checkbox"/>
Date: 8-30-13 Phone: (432) 631-6982	RRP-06-14-3086	

* Attach Additional Sheets If Necessary

JUN 17 2014

MSAD1416 440974 ✓



EXPLORING WHAT'S POSSIBLE

HOBBS OCD

FEB 06 2014

RECEIVED

APACHE CORPORATION

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

NEDU #173

Termination Request

API No. 30-025-40554

Release Date: July 12th, 2012

Unit Letter J, Section 3, Township 21S, Range 37E

Rice Environmental Consulting & Safety

P.O. Box 2948, Hobbs, NM 88241

Phone 575.393.2967

August 29th, 2013

Geoffrey Leking

New Mexico Energy, Minerals, & Natural Resources

Oil Conservation Division, Environmental Bureau – District 1

1625 N. French Dr.

Hobbs, NM 88240-9273

**RE: Termination Request
Apache Corporation
NEDU #173: UL/J sec. 3 T-21-S R-37-E
API No. 30-025-40554**

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 5 miles north of Eunice, NM in UL/J sec. 3 T21S R37E. NM OSE and BLM records indicate that groundwater will likely be encountered at a depth of approximately 53 +/- feet.

On July 12th, 2012 a release of oil and produced water occurred at the above-referenced site. While laying out the new flow line to the well, the valves on the header were not closed and the check valve did not hold. The fluid from the battery back-flowed down the flow line causing the release. A total of 40 barrels were released and a total of 30 barrels of standing fluid was recovered. NMOCD was informed of the release of July 12th, 2012 and an initial C-141 was sent to NMOCD on July 16th, 2012 (Appendix A).

RECS personnel were on site beginning on July 12th, 2012. Initial samples were taken throughout the release and field tested for chlorides and hydrocarbons (Figure 1). The surface samples were taken to a commercial laboratory for analysis and returned elevated levels of chlorides and hydrocarbons (Appendix B).

The site was excavated to 3 ft bgs (Figure 2), where field sampling evidenced clean wall and bottom samples. Final grab samples from the walls and bottom were taken to a commercial laboratory for analysis of chlorides and hydrocarbons. Laboratory chloride results showed all samples under 250 mg/kg and showed GRO and DRO readings of non-detect (Appendix C).

The pasture was backfilled with clean, imported soil and the road was backfilled with imported caliche. A sample of the imported caliche was taken to a commercial laboratory and returned a chloride result of 16 mg/kg (Appendix C). The pasture was

contoured to the surrounding location and the road was packed to provide a stable driving surface. Photo documentation of these activities can be found in Appendix D.

Given that the contaminated soils from the release have been excavated to a depth of 3 ft bgs and replaced by clean, imported soil, RECS on behalf of Apache respectfully requests 'remediation termination' or similar closure status of this regulatory file. A final C-141 is provided in Appendix E.

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

Sincerely,

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

Lara Weinheimer
Project Scientist
RECS
(575) 441-0431

Attachments:

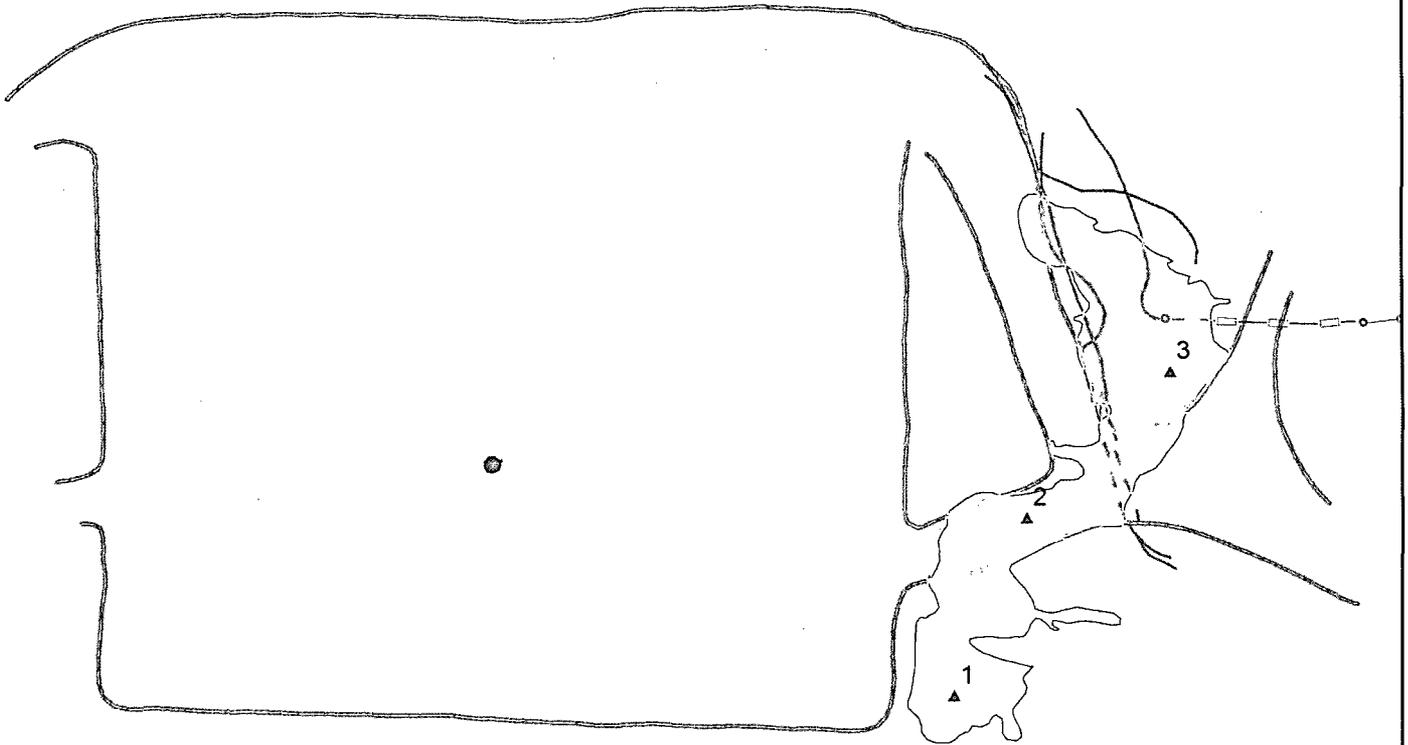
- Figure 1 – Initial Sampling Data
- Figure 2 – Final Sampling Data
- Appendix A – Initial C-141
- Appendix B – Initial Laboratory Analyses
- Appendix C – Final Laboratory Analyses
- Appendix D – Photo Documentation
- Appendix E – Final C-141



Figures

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

Initial Sampling Data



Total Area = 6,549 sq ft with
5,806 sq ft in the pasture.

Legend

- ▲ SAMPLE POINTS
- ABOVE GROUND POLY LINE
- ABOVE GROUND STEEL LINE
- - - BURIED POLY LINE
- - - - BURIED STEEL LINE
- ROAD/PAD
- STAIN
- WELL HEAD CELLAR

Point #1

Sample Description	Cl-	PID	LAB Cl-	GRO	DRO
Pt.1 @ surface	1314	5,000	3,560	15,000	68,900
Pt.1 @ .5'	4428	307.9			

Point #2

Sample Description	Cl-	PID	LAB Cl-	GRO	DRO
Pt.2 @ surface	4938	304.7	3,720	176	1,250
Pt.2 @ .5'	1411	89.5			

Point #3

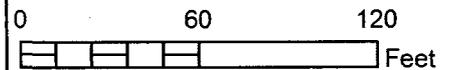
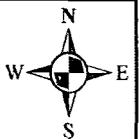
Sample Description	Cl-	PID	LAB Cl-	GRO	DRO
Pt.3 @ surface	3761	2975	3,440	220	875
Pt.3 @ .5'	2503	42.9			
Pt.3 @ 1'	2004	32.7			



APACHE NEDU #173 AD

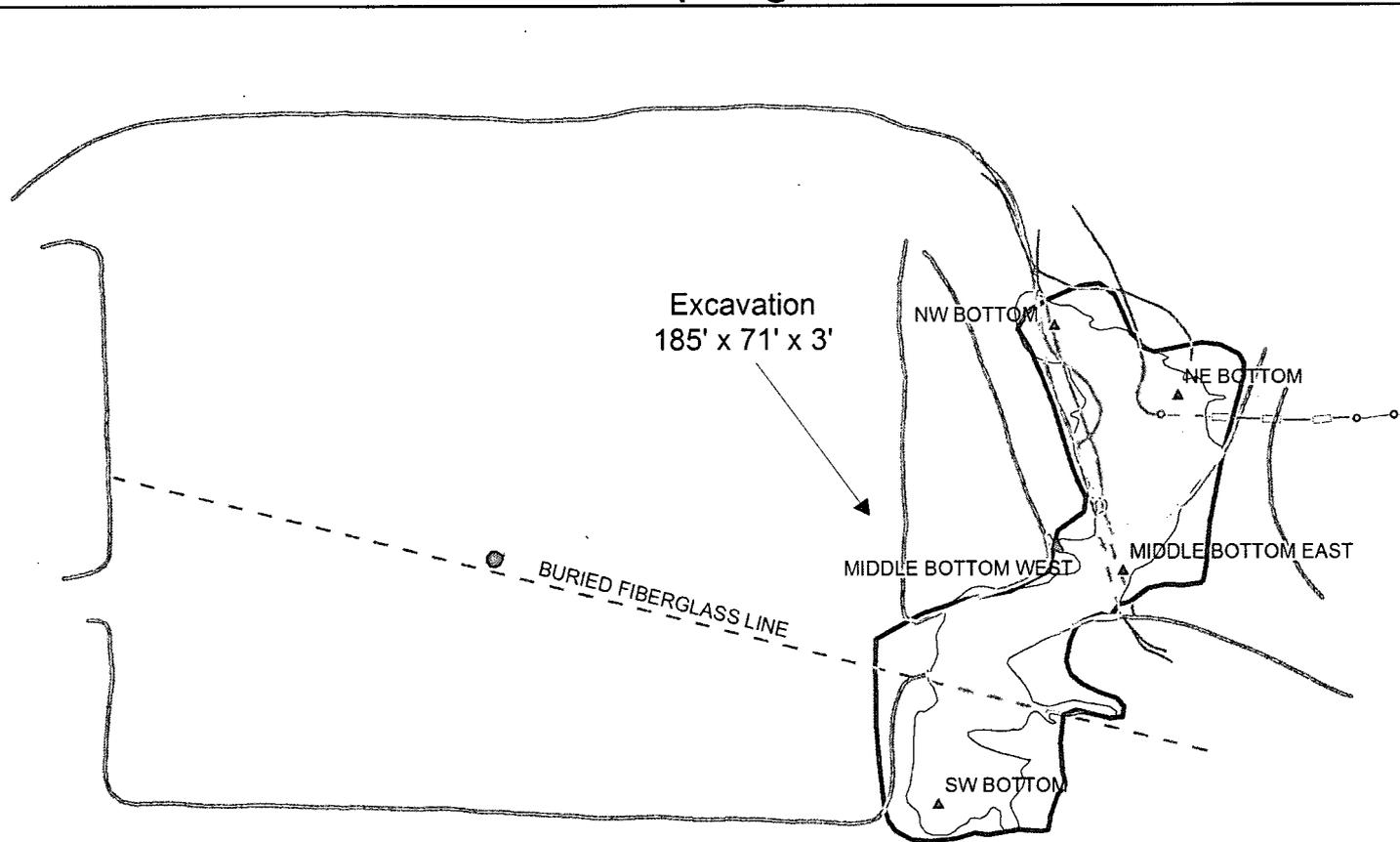
LEGALS: UL/J sec. 3
T-21-S R-37-E
LEA COUNTY, NM

Figure 1



GPS date: 7/12/12
Drawing date: 7/13/12
Drafted by: L. Weinheimer

Final Sampling Data



Total Area = 6,549 sq ft with
5,806 sq ft in the pasture.

Legend

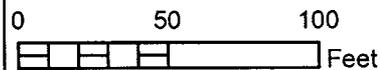
- ▲ FINAL SAMPLES POINTS
- - - BURIED FIBERGLASS LINE
- ABOVE GROUND POLY LINE
- ABOVE GROUND STEEL LINE
- - - BURIED POLY LINE
- - - BURIED STEEL LINE
- ROAD/PAD
- ▭ FINAL EXCAVATION
- ▭ STAIN
- ▭ WELL HEAD CELLAR



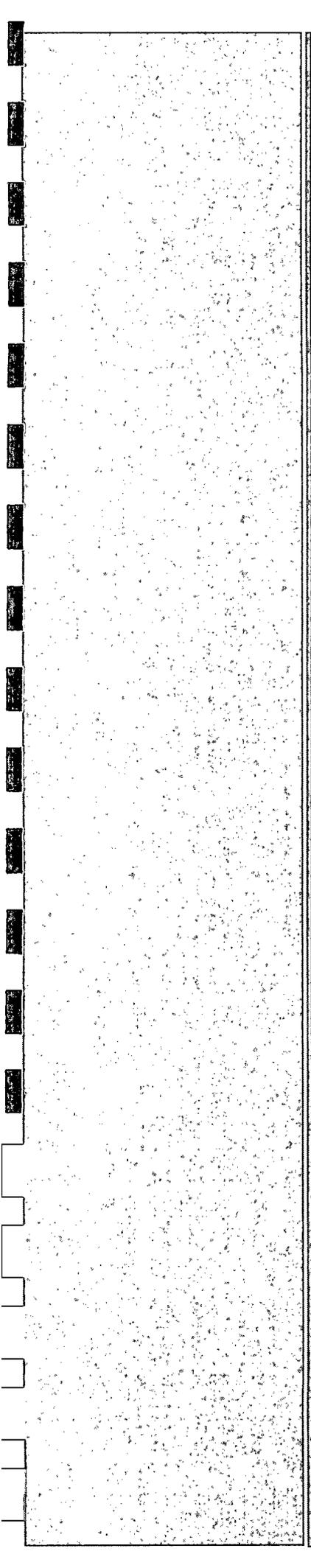
APACHE NEDU #173 AD

LEGALS: UL/J sec. 3
T-21-S R-37-E
LEA COUNTY, NM

Figure 2



GPS date: 7/12/12
Drawing date: 7/13/12
Drafted by: L. Weinheimer



Appendix A

Initial C-141

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

District I
1625 N. French Dr., Hobbs, NM 88240
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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 88240	Telephone No. 575-390-4186
Facility Name NEDU #173	Facility Type Production Well
Surface Owner Deck Estate	Mineral Owner State
API No. 30-025-40554	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
B	3	21S	37E	3785'	FNL	1980	FEL	Lea

Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release Oil/Produced Water	Volume of Release 40	Volume Recovered 30
Source of Release Valve	Date and Hour of Occurrence 07/12/12	Date and Hour of Discovery 07/12/12
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Geoffrey Leking	
By Whom? Natalie Gladden	Date and Hour 07/16/12	
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.*

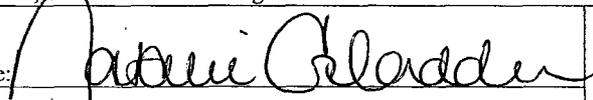
While laying out a new flow-line to a new drill, the valves on the header were not closed and the check valve did not hold, therefore the fluid in the battery started back-flowing down the open ended flowline.

Describe Area Affected and Cleanup Action Taken.*

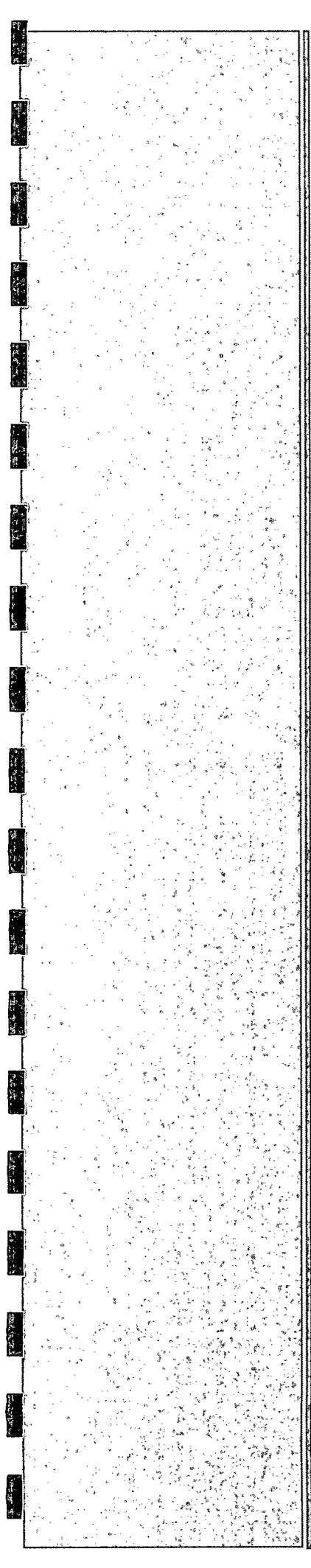
Header valves were closed, check valve was replaced, standing fluid was recovered and one-call was placed. NMOCD Rules and Regulations will be followed to closure.

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.

OIL CONSERVATION DIVISION

Signature: 	Approved by Environmental Specialist:	
Printed Name: Natalie Gladden	Approval Date:	Expiration Date:
Title: EHS Environmental Tech	Conditions of Approval:	
E-mail Address: natalie.gladden@yahoo.com	Attached <input type="checkbox"/>	
Date: 07/16/12 Phone: 575-390-4186		

* Attach Additional Sheets If Necessary



Appendix B

Initial Laboratory Analyses

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



July 18, 2012

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

RE: NEDU #173 AD

Enclosed are the results of analyses for samples received by the laboratory on 07/13/12 14:45.

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".

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: 07/13/2012
 Reported: 07/18/2012
 Project Name: NEDU #173 AD
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 07/12/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: PT. 1 @ SURFACE (H201612-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3560	16.0	07/18/2012	ND	400	100	400	3.92		
TPH 8015M		mg/kg		Analyzed By: AM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	15000	200	07/17/2012	ND	176	87.8	200	0.370		
DRO >C10-C28	68900	200	07/17/2012	ND	187	93.3	200	1.37	S-06	

 Surrogate: 1-Chlorooctane 1140 % 65.2-140
 Surrogate: 1-Chlorooctadecane 531 % 63.6-154

Sample ID: PT. 2 @ SURFACE (H201612-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3720	16.0	07/18/2012	ND	400	100	400	3.92		
TPH 8015M		mg/kg		Analyzed By: AM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	176	50.0	07/17/2012	ND	176	87.8	200	0.370		
DRO >C10-C28	1250	50.0	07/17/2012	ND	187	93.3	200	1.37		

 Surrogate: 1-Chlorooctane 83.9 % 65.2-140
 Surrogate: 1-Chlorooctadecane 120 % 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: 07/13/2012
 Reported: 07/18/2012
 Project Name: NEDU #173 AD
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 07/12/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: PT. 3 @ SURFACE (H201612-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3440	16.0	07/18/2012	ND	400	100	400	3.92		
TPH 8015M		mg/kg		Analyzed By: AM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	220	50.0	07/17/2012	ND	176	87.8	200	0.370		
DRO >C10-C28	875	50.0	07/17/2012	ND	187	93.3	200	1.37		

Surrogate: 1-Chlorooctane 81.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 109 % 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

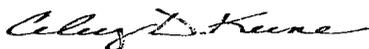
Notes and Definitions

- 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.
- QM-4X The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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

Appendix C

Final Laboratory Analyses

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



July 26, 2012

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

RE: NEDU #173 AD

Enclosed are the results of analyses for samples received by the laboratory on 07/20/12 13:35.

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, flowing 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: 07/20/2012
 Reported: 07/26/2012
 Project Name: NEDU #173 AD
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 07/19/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: NORTH WALL CENTER (H201680-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	07/24/2012	ND	416	104	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	07/24/2012	ND	169	84.4	200	11.8		
DRO >C10-C28	<10.0	10.0	07/24/2012	ND	178	89.2	200	11.0		

Surrogate: 1-Chlorooctane 79.4 % 65.2-140
 Surrogate: 1-Chlorooctadecane 102 % 63.6-154

Sample ID: SOUTH WALL CENTER (H201680-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	07/24/2012	ND	416	104	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	07/24/2012	ND	169	84.4	200	11.8		
DRO >C10-C28	<10.0	10.0	07/24/2012	ND	178	89.2	200	11.0		

Surrogate: 1-Chlorooctane 66.6 % 65.2-140
 Surrogate: 1-Chlorooctadecane 79.7 % 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: 07/20/2012
 Reported: 07/26/2012
 Project Name: NEDU #173 AD
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 07/19/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: EAST WALL CENTER (H201680-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	07/24/2012	ND	416	104	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	07/24/2012	ND	169	84.4	200	11.8		
DRO >C10-C28	<10.0	10.0	07/24/2012	ND	178	89.2	200	11.0		
<i>Surrogate: 1-Chlorooctane</i>	<i>74.7 %</i>	<i>65.2-140</i>								
<i>Surrogate: 1-Chlorooctadecane</i>	<i>98.0 %</i>	<i>63.6-154</i>								

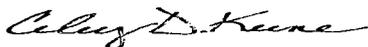
Sample ID: WEST WALL CENTER (H201680-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	07/24/2012	ND	416	104	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	07/24/2012	ND	169	84.4	200	11.8		
DRO >C10-C28	<10.0	10.0	07/24/2012	ND	178	89.2	200	11.0		
<i>Surrogate: 1-Chlorooctane</i>	<i>81.2 %</i>	<i>65.2-140</i>								
<i>Surrogate: 1-Chlorooctadecane</i>	<i>102 %</i>	<i>63.6-154</i>								

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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: 07/20/2012
 Reported: 07/26/2012
 Project Name: NEDU #173 AD
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 07/19/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: 5 PT BOTTOM (H201680-05)

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	07/24/2012	ND	416	104	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	07/24/2012	ND	169	84.4	200	11.8		
DRO >C10-C28	<10.0	10.0	07/24/2012	ND	178	89.2	200	11.0		

Surrogate: 1-Chlorooctane 79.5 % 65.2-140
 Surrogate: 1-Chlorooctadecane 101 % 63.6-154

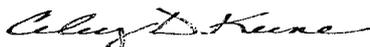
Sample ID: IMPORTED CALICHE (H201680-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	07/25/2012	ND	416	104	400	0.00		

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Celey D. Keene, Lab Director/Quality Manager

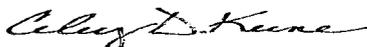
Notes and Definitions

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

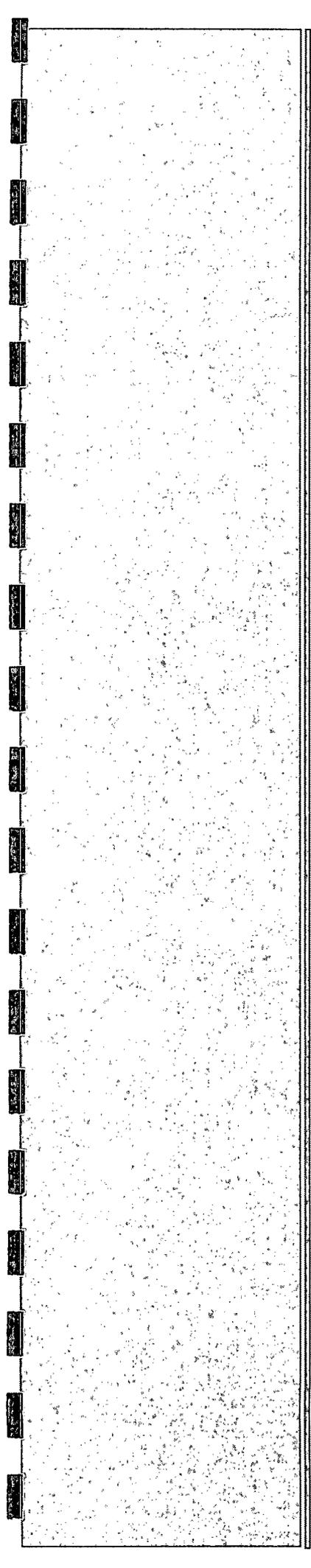
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*=Accredited Analyte

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Celestine D. Keene, Lab Director/Quality Manager



Appendix D

Photo Documentation

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

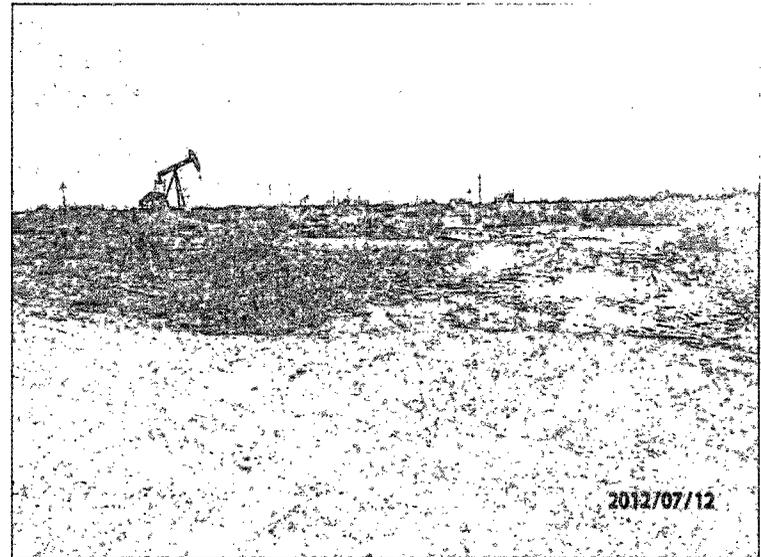
Apache NEDU #173 AD

Unit Letter J, Section 3, T21S, R37E



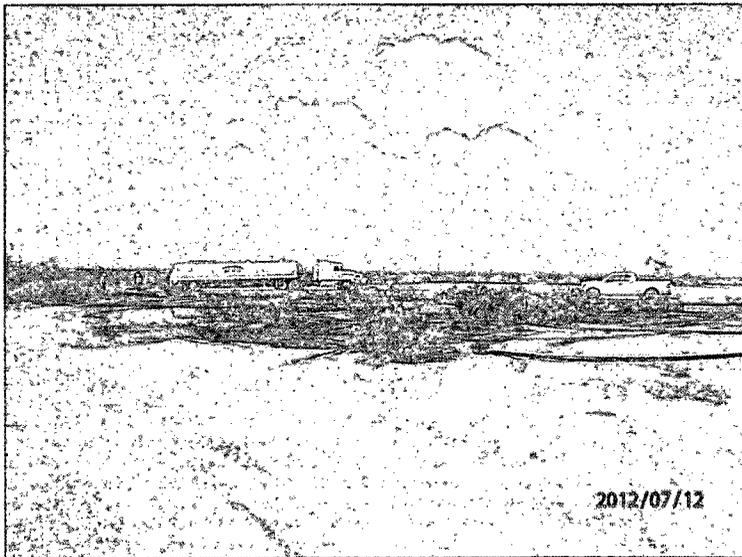
Site sign

7/12/12



Initial release, facing northeast

7/12/12



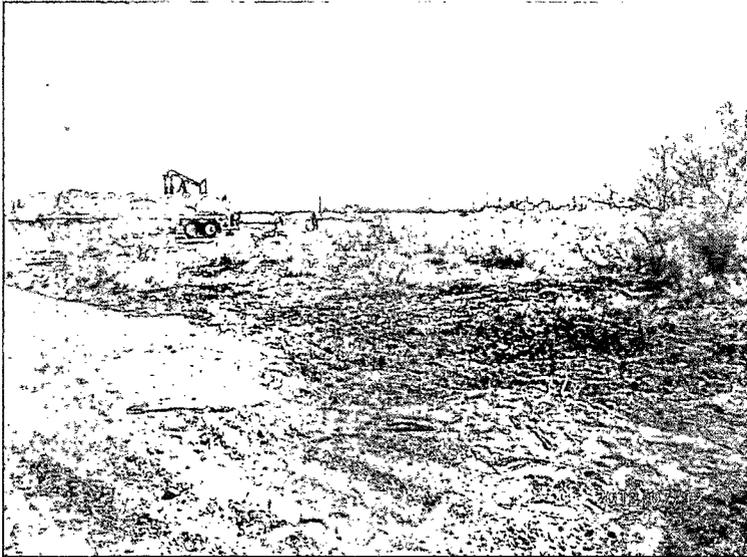
Initial release, facing southwest

7/12/12



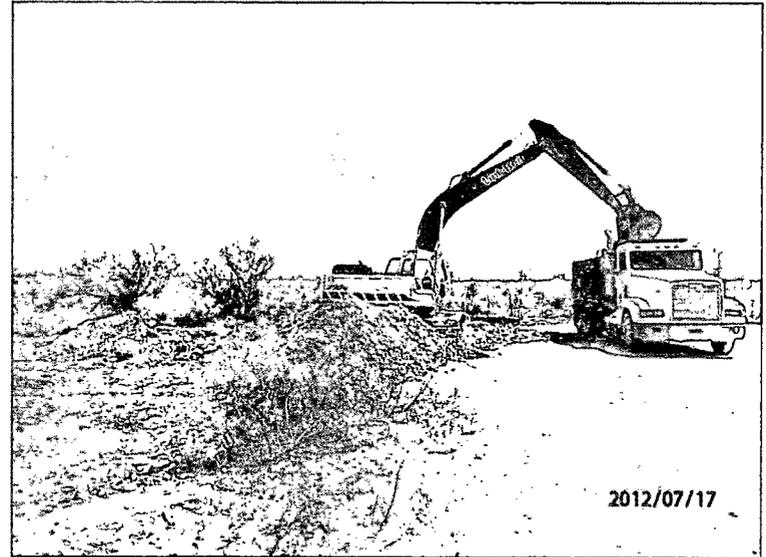
Initial release, facing northeast

7/12/12



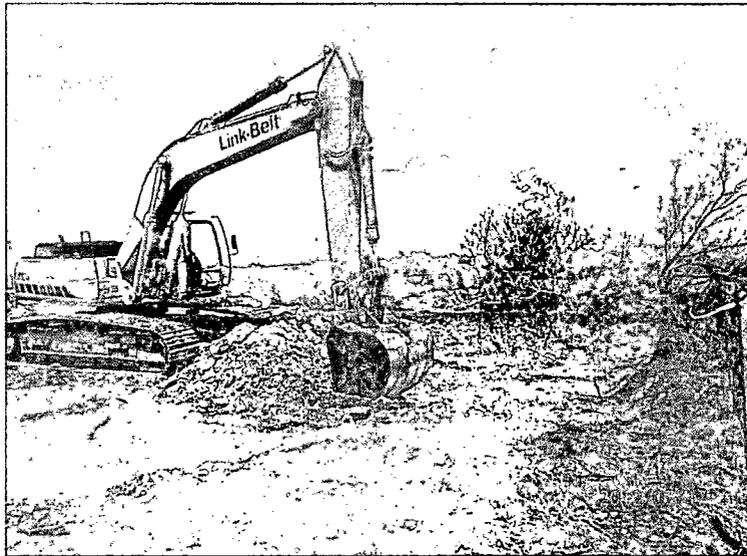
Initial release, facing northeast

7/12/12



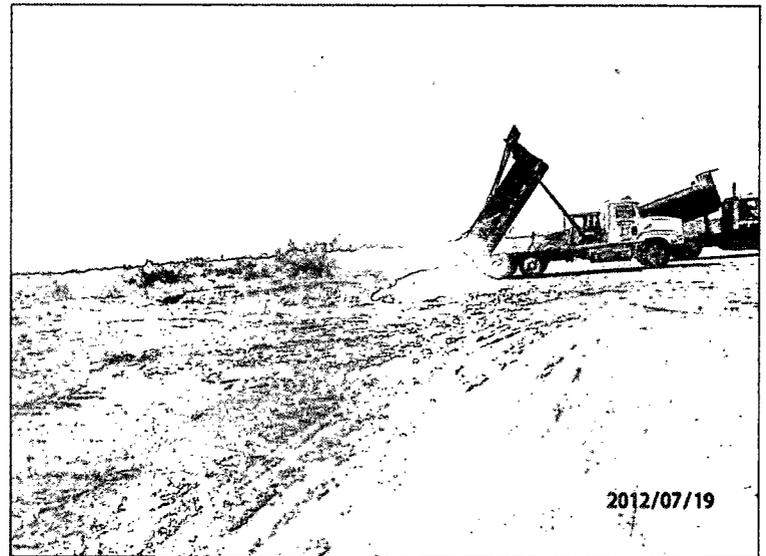
Exporting soil, facing south

7/17/12



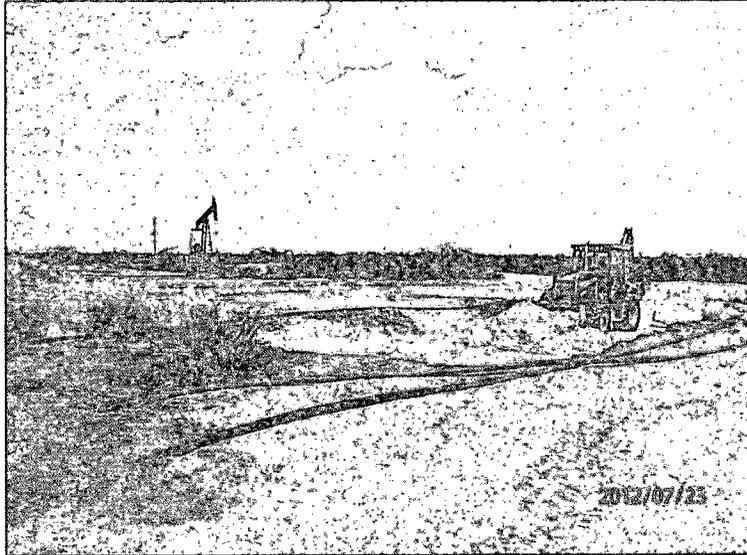
Excavating site, facing northeast

7/17/12

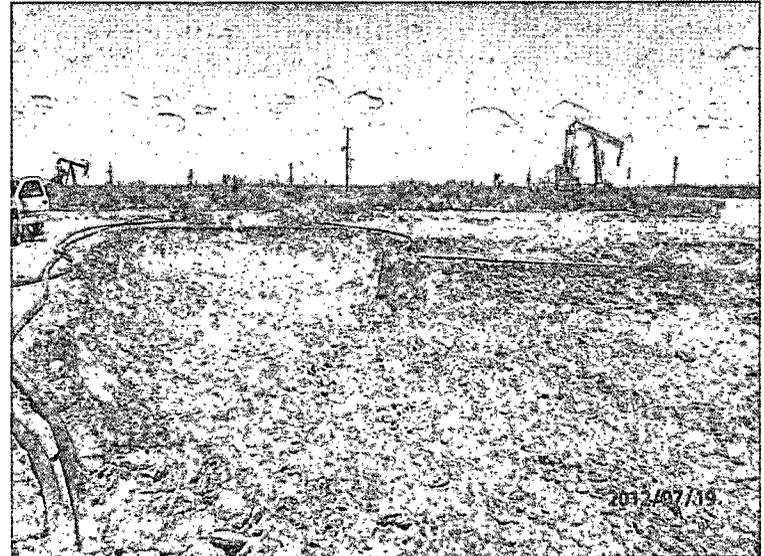


Importing soil, facing south

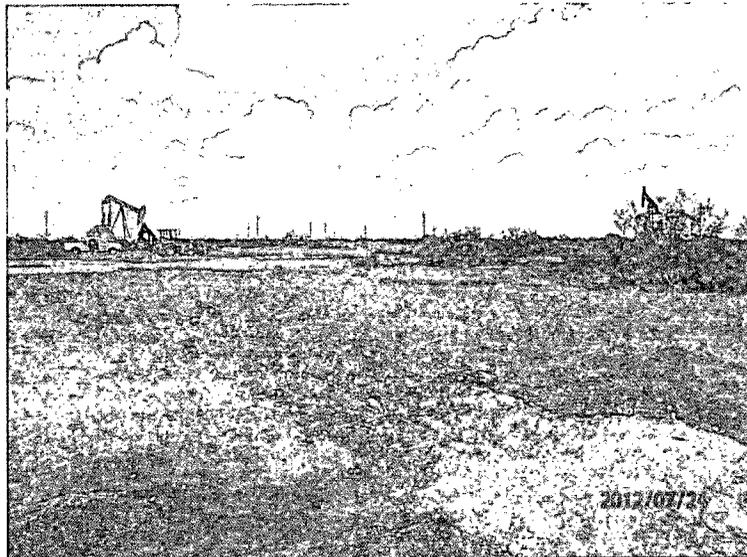
7/19/12



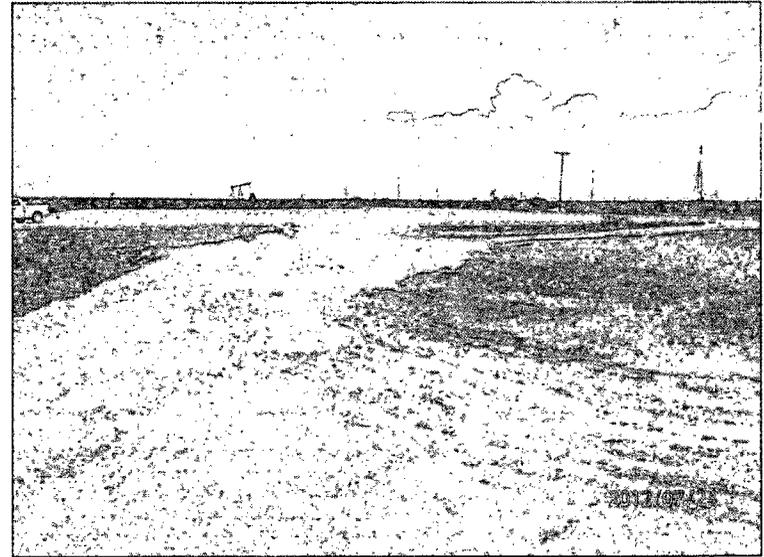
Backfilling excavation, facing southeast 7/23/12



Excavation completed, facing northeast 7/19/12



Site completed, facing northeast 7/23/12



Site completed, facing west 7/24/12

Appendix E

Final C-141

RICE Environmental Consulting and Safety (RECS)

P.O. Box 2948 Hobbs, NM 88241

Phone 575.393.2967