



EXPLORING WHAT'S POSSIBLE

APACHE CORPORATION

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

Empire Abo Unit G-312

Closure Report

2RP-1193

API 30-015-40077

Release Date: June 10, 2012

Unit Letter J, Section 33, Township 17S, Range 28E

Rice Environmental Consulting & Safety

P.O. Box 2948 Hobbs, NM 88241

Phone 575.393.2967

May 8th, 2013

Mike Bratcher

New Mexico Energy, Minerals, & Natural Resources

Oil Conservation Division, Environmental Bureau – District 2

811 S. First St.

Artesia, NM 88210

RE: TERMINATION REQUEST

Apache – Empire Abo Unit G-312 AD

UL/J sec. 33 T17S R28E

API No. 30-015-40077

2RP-1193

Mr. Bratcher:

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 oil and produced water associated with the Empire Abo Unit G-312. A fiberglass flow line ruptured and released fluids onto 27,046 square feet of lease road and pasture land. An additional release from the flow line occurred approximately 4,000 feet east of the main release and encompassed 624 square feet of lease road. The line was repaired at both leak locations and standing fluids were recovered. An initial form C-141 was submitted by Apache Corporation on June 25, 2012 (Appendix A). The main release site is located approximately 12 miles west of Loco Hills, in unit letter 'J' of section 33, T17S, R28E in Eddy County, New Mexico. The additional release site is located in unit letter 'J' of section 34.

On June 11, 2012, RECS personnel initiated work on the Empire Abo Unit G-312 (Figure 1). Soil samples were collected at surface from the main release and the additional release. The samples were field tested for chloride and 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).

On June 12, 2012, RECS personnel collected soil samples from the main release at depth from verticals placed at the previous surface sample positions (Figure 2). The samples were similarly field tested and the two deepest samples from each vertical were submitted to a laboratory for analyses (Appendix C).

On July 19, 2012, RECS personnel collected soil samples from the additional release at depth from a vertical sample point placed at the previous surface sample position (Figure 2). The samples were similarly field tested and the two deepest samples were submitted to a laboratory for analyses (Appendix C).

The main release area was excavated to 2.5 ft. below ground surface (bgs) on the west side of the lease road and to 3 ft. bgs on the east side of the lease road, and the lease road was scraped (Figure 3). The additional release area was excavated to 3.5 ft. bgs. Impacted soils were removed to a NMOCD approved disposal facility. The excavations in the pasture were backfilled with imported caliche to 1 ft. bgs. The remaining 1 ft. was filled with imported topsoil and contoured to the surrounding area. The scrape in the lease road and the additional leak area were backfilled with imported caliche and leveled. See Appendix B for photographs of field activities.

Conclusion

According to the U.S. Office of the State Engineer and the USGS, groundwater in the area is 88 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.

Sincerely,



Bruce Baker
Project Manager
RECS
(575) 631-5157

Attachments:

- Figure 1: Site Plat with Initial Sampling Lab Data
- Figure 2: Site Plat with Vertical Sampling Lab Data
- Figure 3: Site Plat with Site Excavations
- Appendix A: Initial Form C-141
- Appendix B: Site Photographs
- Appendix C: Laboratory Results
- Appendix D: Groundwater Study
- Appendix E: Final Form C-141

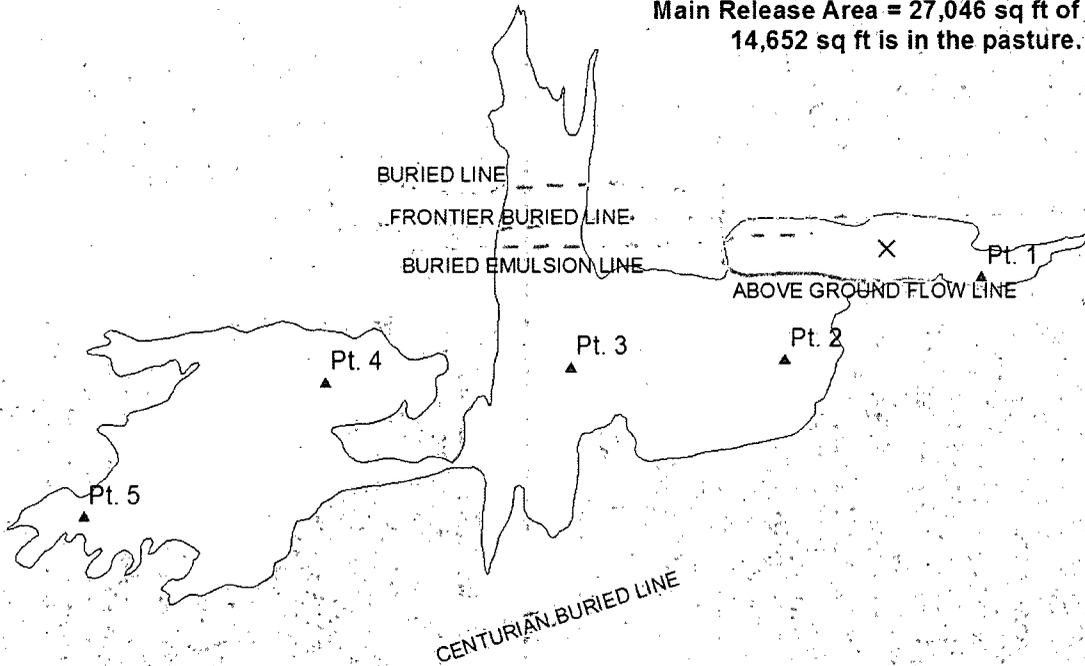
Figures

RICE Environmental Consulting and Safety (RECS)
P.O. Box 2948 Hobbs, NM 88241
Phone 575.393.4411

Initial Sampling Data

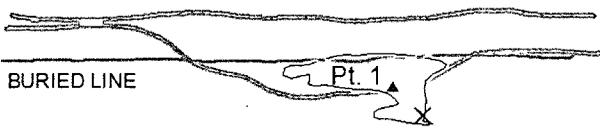
Sample Description	Cl-	GRO	DRO
PT.1 SURFACE	2,800	3,920	17,800
PT.2 SURFACE	4,960	1,380	8,690
PT.3 SURFACE	4,640	193	1,300
PT.4 SURFACE	4,640	4,630	16,500
PT.5 SURFACE	4,160	1,160	11,500

Main Release Area = 27,046 sq ft of which
14,652 sq ft is in the pasture.



Additional Release Area = 624 sq ft of
which 140 sq ft is in the pasture.

Sample Description	Cl-	GRO	DRO
PT.1 SURFACE	944	2,450	61,700



LEGALS: UL/J SEC. 34
T-17-S R-28-E
EDDY COUNTY, NM

Located 4,138 ft east of stain.

DGW = 88 ft.

Legend

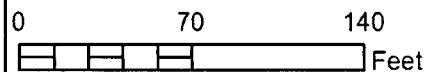
- ▲ SAMPLE POINTS
- X SOURCE
- ABOVE GROUND LINE
- - - BURIED LINE
- STAIN



APACHE EMPIRE ABO UNIT G-312 EMULSION LINE AD

LEGALS: UL/I, J SEC. 33
T-17-S R-28-E
EDDY COUNTY, NM

Figure 1



GPS date: 6/11/12 DH
Drawing date: 6/12/12
Drafted by: L. Weinheimer

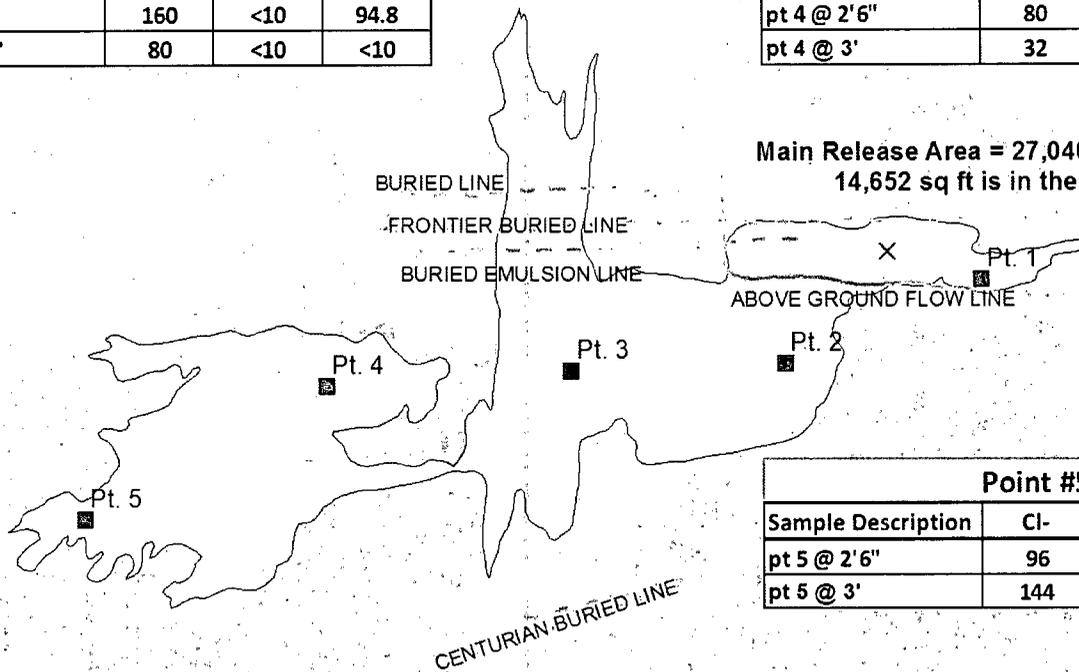
Vertical Sampling Data

Point #1			
Sample Description	Cl-	GRO	DRO
pt 1 @ 1'	48	<10	56.0
pt 1 @ 1'6"	32	<10	208

Point #2			
Sample Description	Cl-	GRO	DRO
pt 2 @ 3'	160	<10	94.8
pt 1 @ 3'6"	80	<10	<10

Point #3			
Sample Description	Cl-	GRO	DRO
pt 3 @ 2'	240	<10	<10
pt 3 @ 2'6"	352	<10	12.4

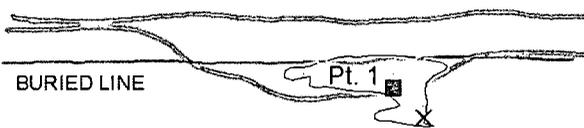
Point #4			
Sample Description	Cl-	GRO	DRO
pt 4 @ 2'6"	80	<10	<10
pt 4 @ 3'	32	<10	<10



Point #5			
Sample Description	Cl-	GRO	DRO
pt 5 @ 2'6"	96	<10	25.8
pt 5 @ 3'	144	<10	105

Additional Release Area = 624 sq ft of which 140 sq ft is in the pasture.

Point #1			
Sample Description	Cl-	GRO	DRO
pt 1 @ 3'6"	160	<10	130
pt 1 @ 4'	96	<10	24



LEGALS: UL/J SEC. 34
T-17-S R-28-E
EDDY COUNTY, NM

Located 4,138 ft east of stain.

DGW = 88 ft.

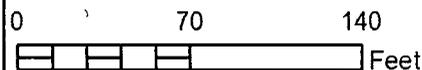
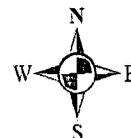
Legend

- VERTICALS
- X SOURCE
- ABOVE GROUND LINE
- - - BURIED LINE
- STAIN



**APACHE EMPIRE
ABO UNIT G-312
EMULSION LINE AD**
LEGALS: UL/I, J SEC. 33
T-17-S R-28-E
EDDY COUNTY, NM

Figure 2

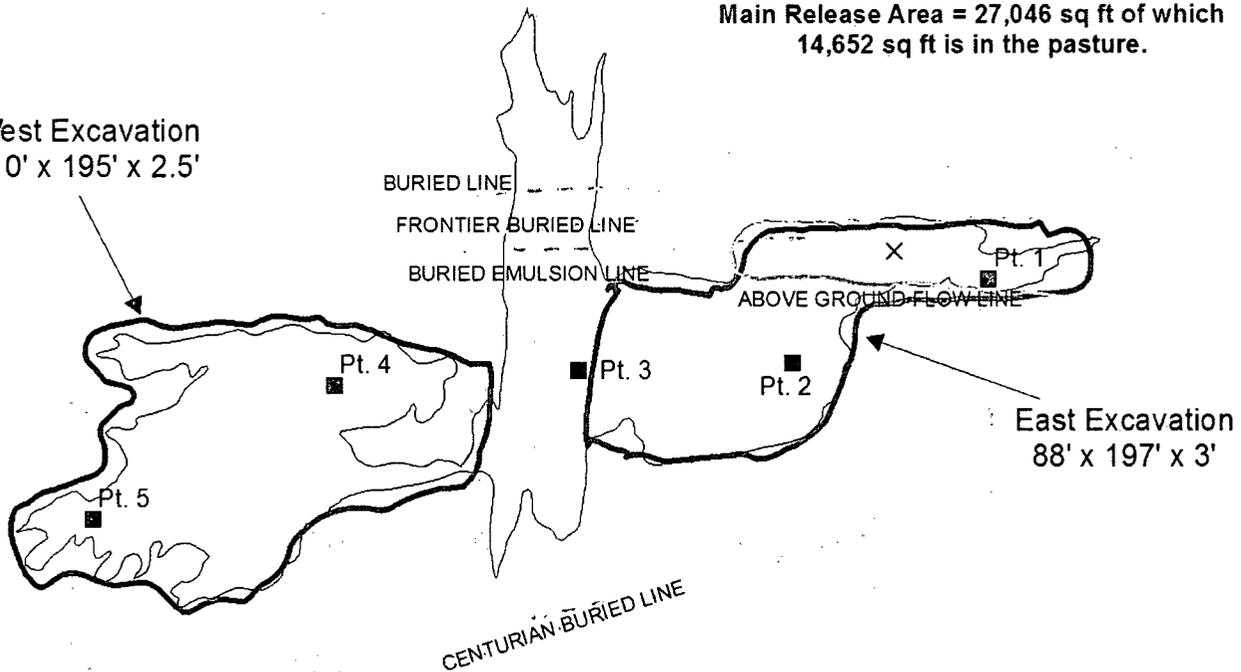


GPS date: 6/12/12 DH
Drawing date: 6/18/12
Drafted by: L. Weinheimer

Site Excavations

Main Release Area = 27,046 sq ft of which
14,652 sq ft is in the pasture.

West Excavation
110' x 195' x 2.5'



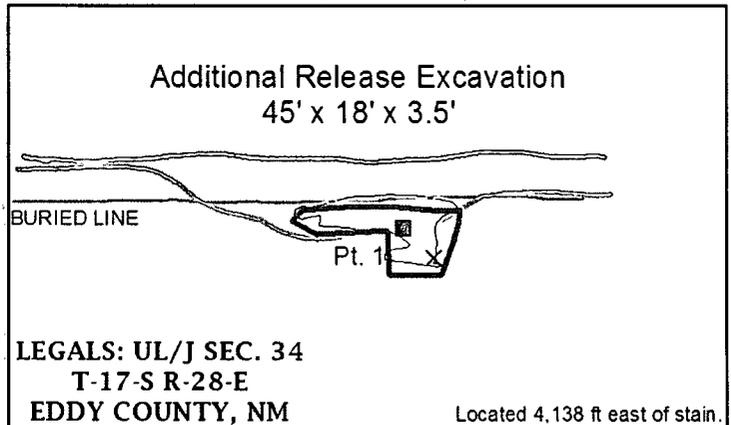
East Excavation
88' x 197' x 3'

Additional Release Area = 624 sq ft of
which 140 sq ft is in the pasture.

Legend

- VERTICALS
- × SOURCE
- ABOVE GROUND LINE
- - - BURIED LINE
- EXCAVATION
- STAIN

Additional Release Excavation
45' x 18' x 3.5'



LEGALS: UL/J SEC. 34
T-17-S R-28-E
EDDY COUNTY, NM

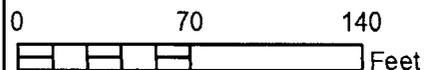
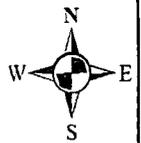
DGW = 88 ft.

Located 4,138 ft east of stain.



**APACHE EMPIRE
ABO UNIT G-312
EMULSION LINE AD**
LEGALS: UL/I, J SEC. 33
T-17-S R-28-E
EDDY COUNTY, NM

Figure 3



GPS date: 6/12/12 DH
Drawing date: 6/21/12
Drafted by: L. Weinheimer

Appendix A

Initial Form C-141

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

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

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

nJMW 1218035376 OPERATOR Initial Report Final Report

Name of Company Apache Corporation <i>873</i>	Contact Natalie Gladden
Address PO Box 1849 Eunice NM 88231	Telephone No. 575-390-4186
Facility Name Empire Abo Unit G312 (near Washington 33 #53)	Facility Type Production
Surface Owner State	Mineral Owner State
Lease No. 30-015-40077	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	33	17S	28E	2290	FSL	2175	FEL	Eddy

Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release Oil/Water	Volume of Release 300	Volume Recovered 225
Source of Release Emulsion Line	Date and Hour of Occurrence 6/10/12	Date and Hour of Discovery 06/10/12
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher	
By Whom? Natalie Gladden	Date and Hour 06/14/12	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	RECEIVED JUN 27 2012 NMOCD ARTESIA

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

Fiberglass line leak. A local contractor found the leak at 10:40pm. Fiberglass line was repaired, standing fluid was recovered and one-call was made.

Describe Area Affected and Cleanup Action Taken.*

NMOCD Rules and Regulation will be followed to closure of the release.

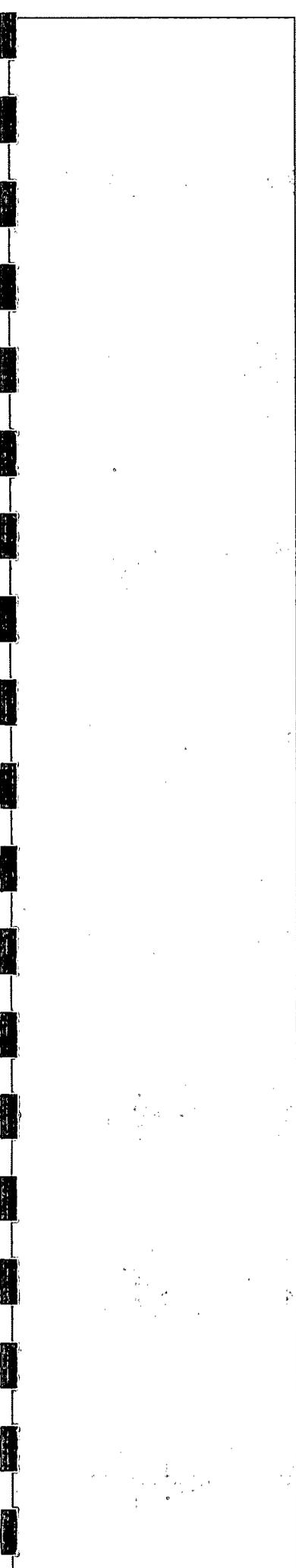
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger 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>Natalie Gladden</i>	OIL CONSERVATION DIVISION	
Printed Name: Natalie Gladden	Approved by District Supervisor:	Signed By <i>Mike Bratcher</i>
Title: EHS Environmental Tech	Approval Date: JUN 28 2012	Expiration Date:
E-mail Address: natalie.gladden@apachecorp.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 06/25/12 Phone: 575-390-4186	Remediation per OCD Rules & Guidelines. SUBMIT REMEDIATION PROPOSAL NOT LATER THAN:	

* Attach Additional Sheets If Necessary

7/28/12

2RP-1193



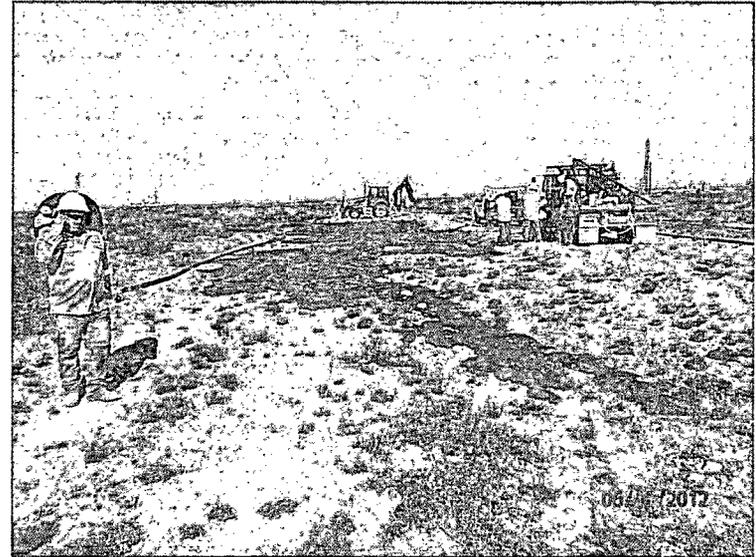
Appendix B

Site Photographs

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

Apache Empire Abo Unit G-312 (Main Release Area)

Unit Letter I/J, Section 33, T17S, R28E



Initial release area, facing west

6/11/12



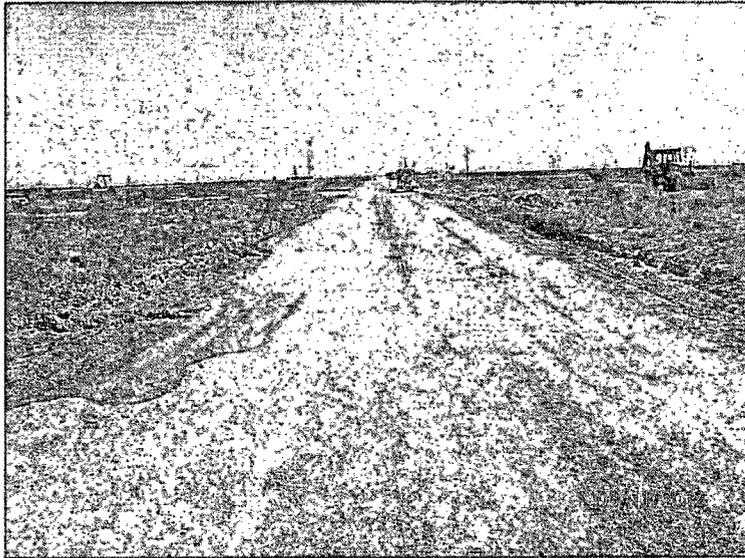
Initial release area, facing east

6/11/12



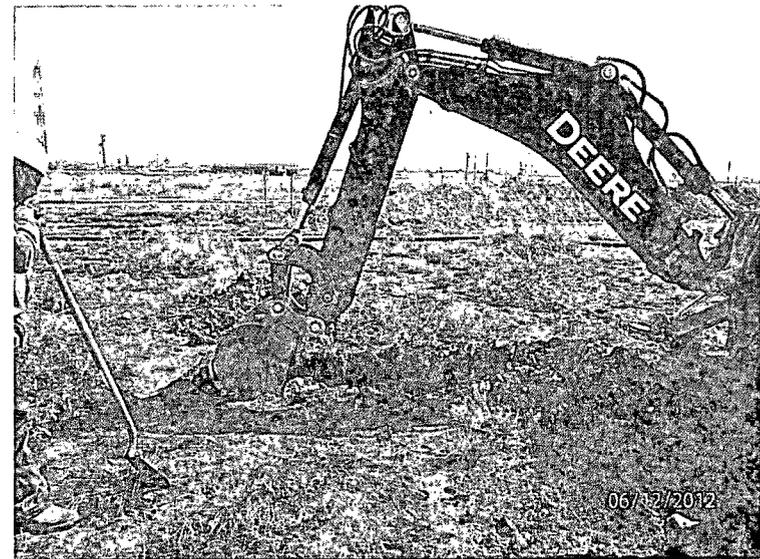
Initial release area, facing east

6/11/12



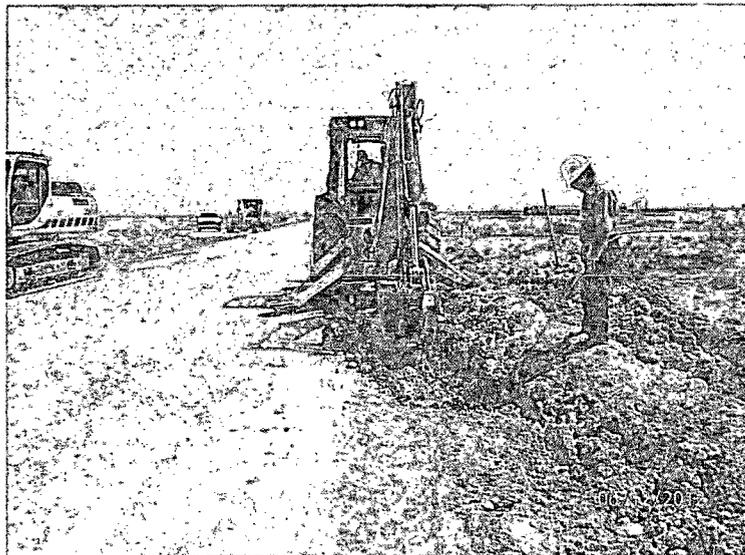
Initial release area, facing north

6/11/12



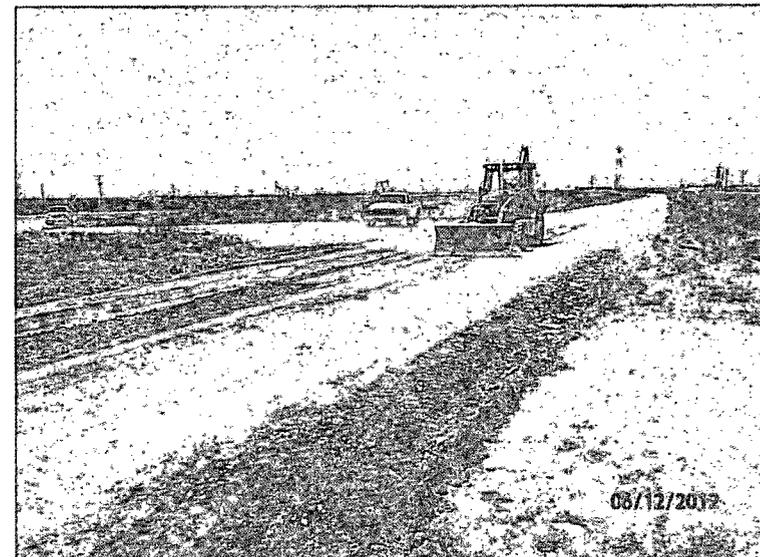
Excavating vertical, facing west

6/12/12



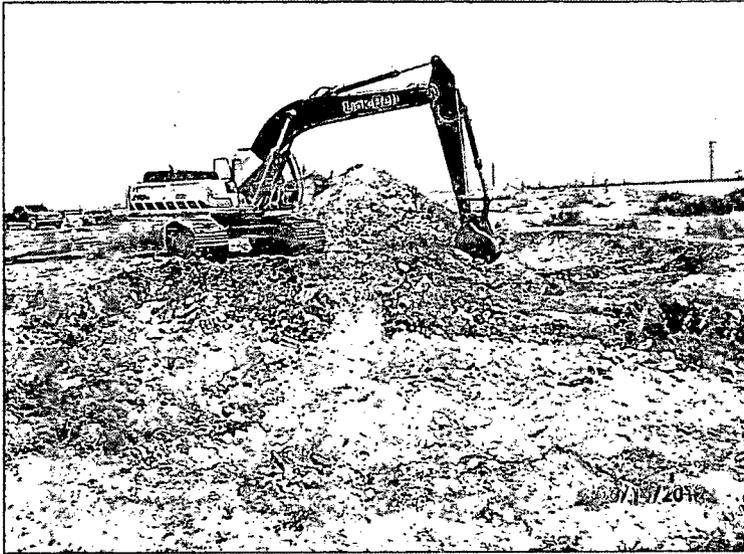
Excavating vertical, facing north

6/12/12



Scraping road, facing north

6/12/12



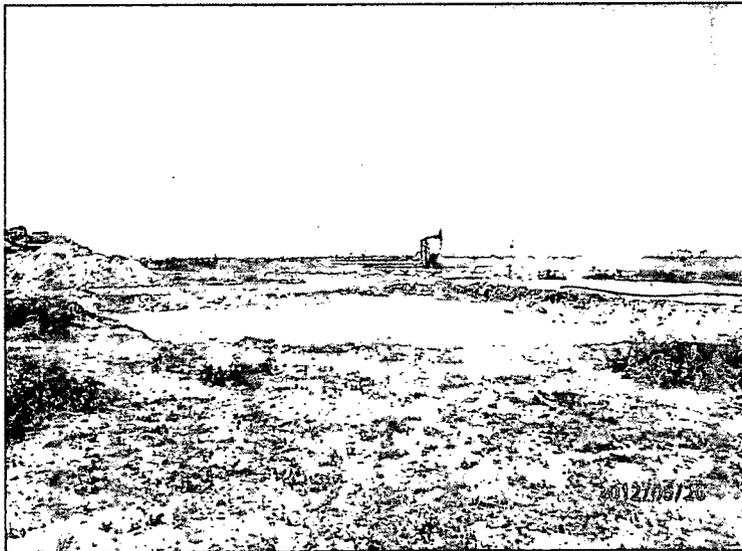
Excavating, facing east

6/14/12



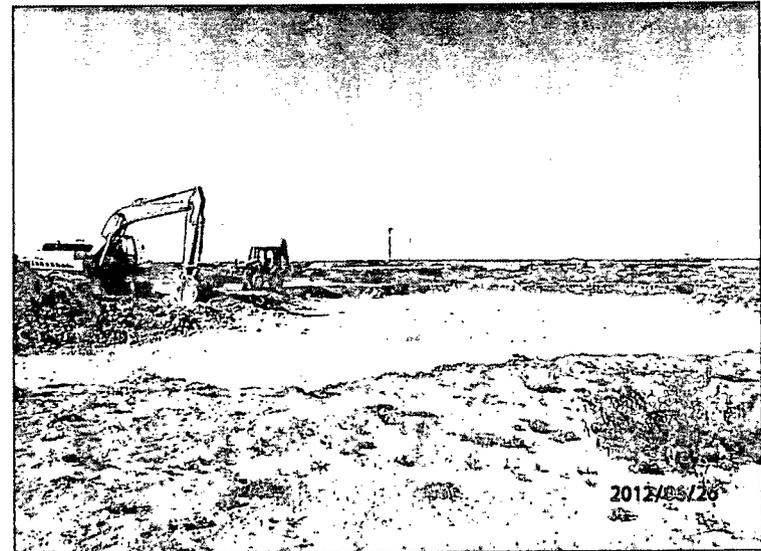
Exporting soil, facing north

6/14/12



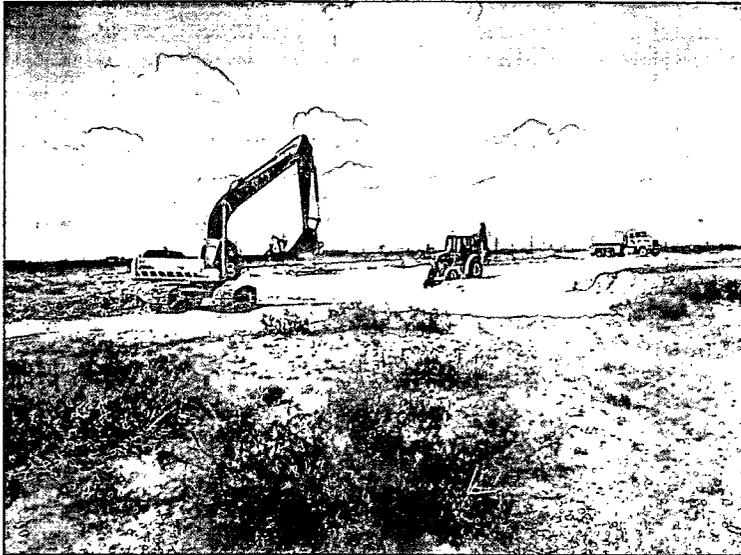
East excavation, facing northwest

6/20/12



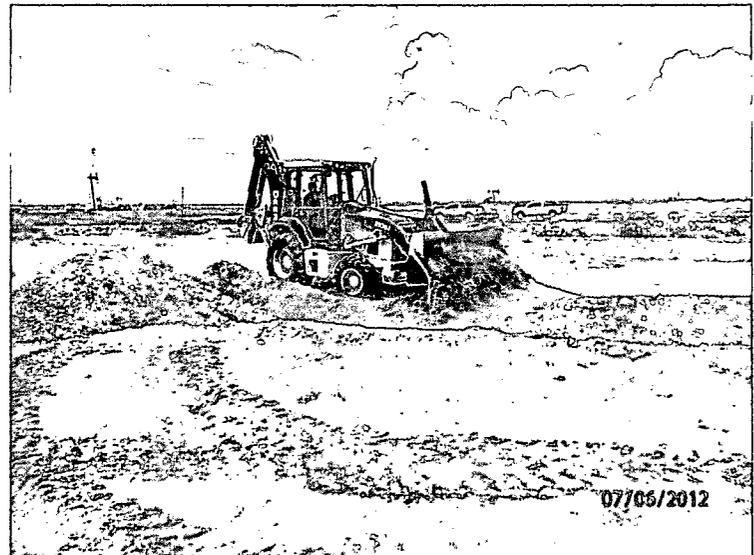
West excavation, facing southwest

6/26/12



Backfilling caliche, facing north

7/2/12



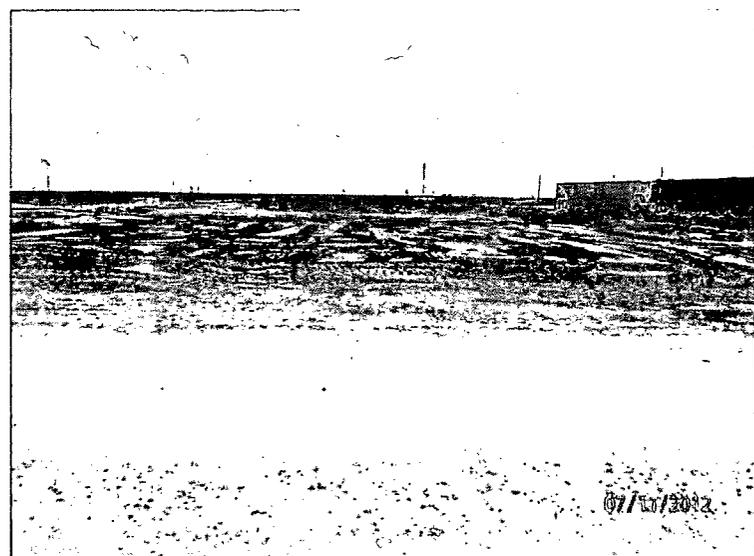
Backfilling topsoil, facing north

7/6/12



Site complete, facing west

7/11/12



Site complete, facing east

7/11/12

Apache Empire Abo Unit G-312

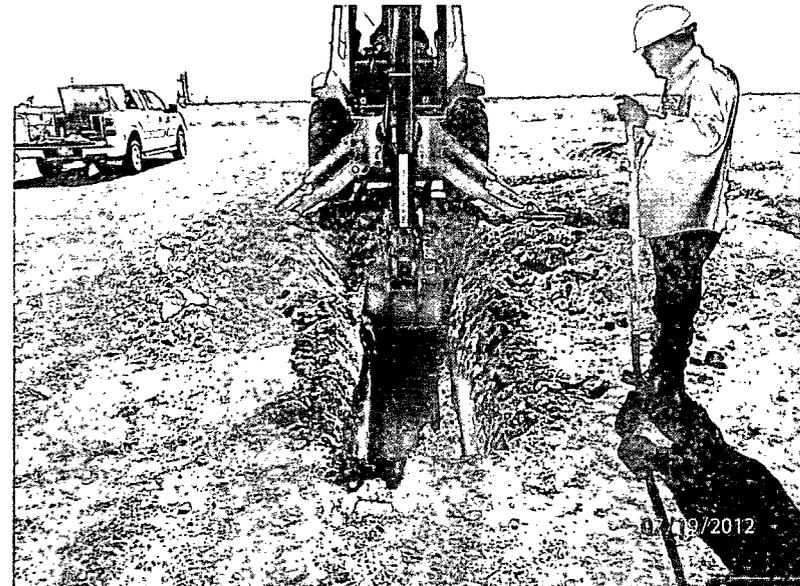
(Additional Release Area)

Unit Letter J, Section 34, T17S, R28E



Initial release area, facing east

6/11/12



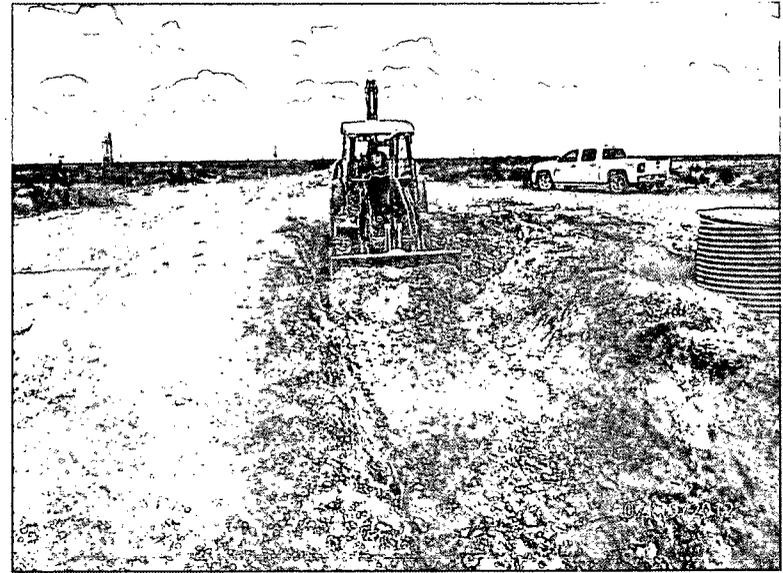
Digging vertical, facing east

7/19/12



Excavating, facing west

7/19/12



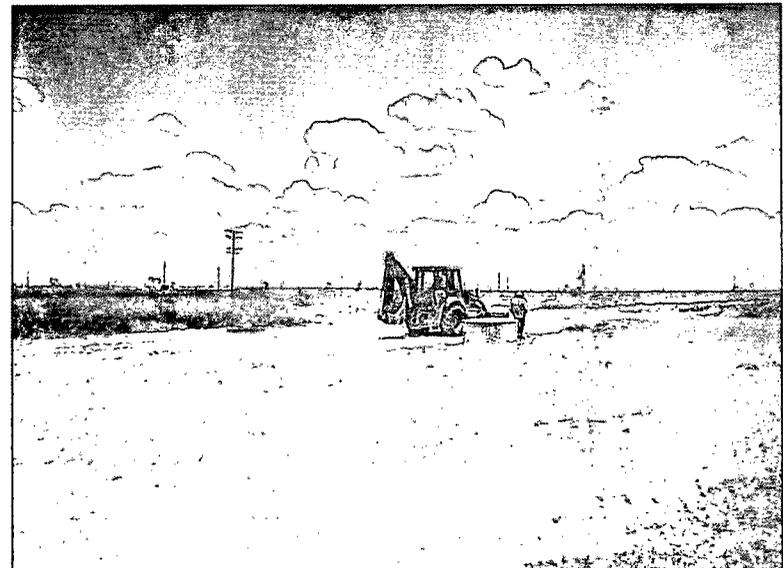
Excavating, facing east

7/19/12



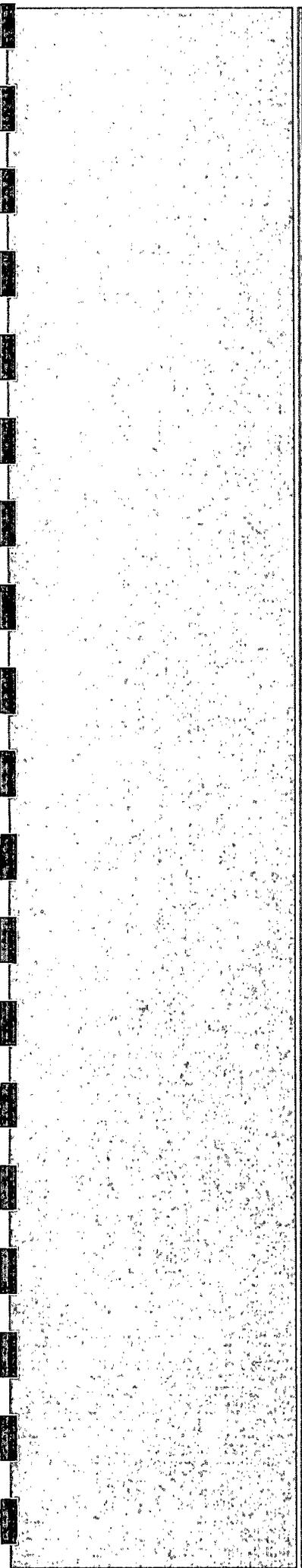
Importing soil, facing east

7/20/12



Site complete, facing northeast

7/20/12



Appendix C

Laboratory Results

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

Analytical Results For:

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

Received:	06/12/2012	Sampling Date:	06/11/2012
Reported:	06/14/2012	Sampling Type:	Soil
Project Name:	EMPIRE ABO UNIT EMULSION LINE A.D.	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: PT. 1 SURFACE (H201309-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2800	16.0	06/13/2012	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	3920	50.0	06/13/2012	ND	181	90.7	200	0.771		
DRO >C10-C28	17800	50.0	06/13/2012	ND	181	90.5	200	1.21		

Surrogate: 1-Chlorooctane 231 % 65.2-140
 Surrogate: 1-Chlorooctadecane 269 % 63.6-154

Sample ID: PT. 2 SURFACE (H201309-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4960	16.0	06/13/2012	ND	416	104	400	3.92		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	1380	50.0	06/13/2012	ND	181	90.7	200	0.771		
DRO >C10-C28	8690	50.0	06/13/2012	ND	181	90.5	200	1.21		

Surrogate: 1-Chlorooctane 246 % 65.2-140
 Surrogate: 1-Chlorooctadecane 252 % 63.6-154

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:	06/12/2012	Sampling Date:	06/11/2012
Reported:	06/14/2012	Sampling Type:	Soil
Project Name:	EMPIRE ABO UNIT EMULSION LINE A.D.	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: PT. 3 SURFACE (H201309-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4640	16.0	06/13/2012	ND	416	104	400	3.92		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	193	10.0	06/13/2012	ND	181	90.7	200	0.771		
DRO >C10-C28	1300	10.0	06/13/2012	ND	181	90.5	200	1.21		

Surrogate: 1-Chlorooctane 116 % 65.2-140
 Surrogate: 1-Chlorooctadecane 129 % 63.6-154

Sample ID: PT. 4 SURFACE (H201309-04)

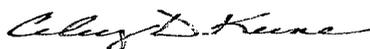
Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4640	16.0	06/13/2012	ND	416	104	400	3.92		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	4630	50.0	06/13/2012	ND	181	90.7	200	0.771		
DRO >C10-C28	16500	50.0	06/13/2012	ND	181	90.5	200	1.21	S-06	

Surrogate: 1-Chlorooctane 227 % 65.2-140
 Surrogate: 1-Chlorooctadecane 254 % 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:	06/12/2012	Sampling Date:	06/11/2012
Reported:	06/14/2012	Sampling Type:	Soil
Project Name:	EMPIRE ABO UNIT EMULSION LINE A.D.	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: PT. 5 SURFACE (H201309-05)

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4160	16.0	06/13/2012	ND	416	104	400	3.92		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	1160	50.0	06/13/2012	ND	181	90.7	200	0.771		
DRO >C10-C28	11500	50.0	06/13/2012	ND	181	90.5	200	1.21		

Surrogate: 1-Chlorooctane 289 % 65.2-140
 Surrogate: 1-Chlorooctadecane 227 % 63.6-154

Sample ID: PT. 1 SURFACE (H201309-06)

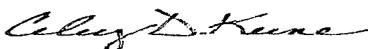
Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	944	16.0	06/13/2012	ND	416	104	400	3.92		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	2450	100	06/13/2012	ND	181	90.7	200	0.771		
DRO >C10-C28	61700	100	06/13/2012	ND	181	90.5	200	1.21		

Surrogate: 1-Chlorooctane 222 % 65.2-140
 Surrogate: 1-Chlorooctadecane 704 % 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:	06/13/2012	Sampling Date:	06/12/2012
Reported:	06/18/2012	Sampling Type:	Soil
Project Name:	EMPIRE ABO UNIT G-B12 EMULSION LIN	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: PT 1 VERTICAL #1 @ 1' (H201330-01)

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	06/15/2012	ND	416	104	400	3.77		
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	06/14/2012	ND	177	88.7	200	6.72		
DRO >C10-C28	56.0	10.0	06/14/2012	ND	176	87.9	200	8.73		

Surrogate: 1-Chlorooctane 101 % 65.2-140

Surrogate: 1-Chlorooctadecane 122 % 63.6-154

Sample ID: PT 1 VERTICAL #1 @ 1'6" (H201330-02)

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	06/15/2012	ND	416	104	400	3.77		
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	06/14/2012	ND	177	88.7	200	6.72		
DRO >C10-C28	208	10.0	06/14/2012	ND	176	87.9	200	8.73		

Surrogate: 1-Chlorooctane 96.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 115 % 63.6-154

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Analytical Results For:

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

Received:	06/13/2012	Sampling Date:	06/12/2012
Reported:	06/18/2012	Sampling Type:	Soil
Project Name:	EMPIRE ABO UNIT G-B12 EMULSION LIN	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: PT 2 VERTICAL #2 @ 3' (H201330-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	06/15/2012	ND	416	104	400	3.77		
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	06/14/2012	ND	177	88.7	200	6.72		
DRO >C10-C28	94.8	10.0	06/14/2012	ND	176	87.9	200	8.73		

Surrogate: 1-Chlorooctane 93.2 % 65.2-140
 Surrogate: 1-Chlorooctadecane 125 % 63.6-154

Sample ID: PT 2 VERTICAL #2 @ 3'6" (H201330-04)

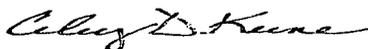
Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	06/15/2012	ND	416	104	400	3.77		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	06/14/2012	ND	177	88.7	200	6.72		
DRO >C10-C28	<10.0	10.0	06/14/2012	ND	176	87.9	200	8.73		

Surrogate: 1-Chlorooctane 109 % 65.2-140
 Surrogate: 1-Chlorooctadecane 123 % 63.6-154

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Analytical Results For:

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

 Received: 06/13/2012
 Reported: 06/18/2012
 Project Name: EMPIRE ABO UNIT G-B12 EMULSION LIN
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 06/12/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: PT 3 VERTICAL #3 @ 2' (H201330-05)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	06/18/2012	ND	432	108	400	3.77		
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	06/14/2012	ND	177	88.7	200	6.72		
DRO >C10-C28	<10.0	10.0	06/14/2012	ND	176	87.9	200	8.73		
<i>Surrogate: 1-Chlorooctane</i>		<i>101 %</i>	<i>65.2-140</i>							
<i>Surrogate: 1-Chlorooctadecane</i>		<i>116 %</i>	<i>63.6-154</i>							

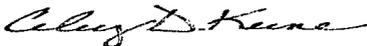
Sample ID: PT 3 VERTICAL #3 @ 2'6" (H201330-06)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	06/18/2012	ND	432	108	400	3.77		
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	06/14/2012	ND	177	88.7	200	6.72		
DRO >C10-C28	12.4	10.0	06/14/2012	ND	176	87.9	200	8.73		
<i>Surrogate: 1-Chlorooctane</i>		<i>96.7 %</i>	<i>65.2-140</i>							
<i>Surrogate: 1-Chlorooctadecane</i>		<i>109 %</i>	<i>63.6-154</i>							

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Analytical Results For:

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

Received:	06/13/2012	Sampling Date:	06/12/2012
Reported:	06/18/2012	Sampling Type:	Soil
Project Name:	EMPIRE ABO UNIT G-B12 EMULSION LIN	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: PT 4 VERTICAL #4 @ 2'6" (H201330-07)

Chloride, SM4500CI-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	06/18/2012	ND	432	108	400	3.77		
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	06/14/2012	ND	177	88.7	200	6.72		
DRO >C10-C28	<10.0	10.0	06/14/2012	ND	176	87.9	200	8.73		

Surrogate: 1-Chlorooctane 96.3 % 65.2-140
 Surrogate: 1-Chlorooctadecane 112 % 63.6-154

Sample ID: PT 4 VERTICAL #4 @ 3' (H201330-08)

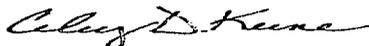
Chloride, SM4500CI-B		mg/kg	Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	06/18/2012	ND	432	108	400	3.77		
TPH 8015M		mg/kg	Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	06/14/2012	ND	177	88.7	200	6.72		
DRO >C10-C28	<10.0	10.0	06/14/2012	ND	176	87.9	200	8.73		

Surrogate: 1-Chlorooctane 112 % 65.2-140
 Surrogate: 1-Chlorooctadecane 129 % 63.6-154

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Analytical Results For:

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

Received:	06/13/2012	Sampling Date:	06/12/2012
Reported:	06/18/2012	Sampling Type:	Soil
Project Name:	EMPIRE ABO UNIT G-B12 EMULSION LIN	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: PT 5 VERTICAL #5 @ 2'6" (H201330-09)

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	06/18/2012	ND	432	108	400	3.77		
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	06/14/2012	ND	177	88.7	200	6.72		
DRO >C10-C28	25.8	10.0	06/14/2012	ND	176	87.9	200	8.73		

Surrogate: 1-Chlorooctane 108 % 65.2-140
 Surrogate: 1-Chlorooctadecane 128 % 63.6-154

Sample ID: PT 5 VERTICAL #5 @ 3' (H201330-10)

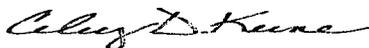
Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	06/18/2012	ND	432	108	400	3.77		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	06/14/2012	ND	193	96.4	200	1.52		
DRO >C10-C28	105	10.0	06/14/2012	ND	200	99.8	200	2.47		

Surrogate: 1-Chlorooctane 99.6 % 65.2-140
 Surrogate: 1-Chlorooctadecane 123 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



Appendix D

Groundwater Study

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

Apache
Company

Empire Abo Unit G-312
site name

J	33	17S	28E
Unit Letter	Section	Township	Range

Groundwater Depth: 88 ft

Compiled by: Amy C. Ruth Date: 10/10/2012

Comments: nearest well approximately 2 miles NNE

○ = Wells of unknown use (USGS)

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

★ = Subject Site

	<p>16S 27E</p> <p>⊙ 70' Domestic</p>	<p>16S 28E</p>	<p>16S 29E</p> <p>⊙ 110' Domestic</p>	
	<p>⊙ 30' Dom</p> <p>⊙ 56'</p> <p>⊙ 50' Stock</p> <p>14' Dom</p> <p>⊙ 226' Dom/Mon</p> <p>86' Dom</p> <p>⊙ 194' Dom/Expl</p> <p>17S 27E</p> <p>⊙ 80' Dom</p> <p>⊙ 40' Prospect</p> <p>⊙ 120' Prospect</p>	<p>17S 28E</p> <p>★</p> <p>⊙ 78'</p>	<p>17S 29E</p>	
	<p>⊙ 50' Prospect</p> <p>18S 27E</p> <p>17' Prospect</p> <p>65' Prospect</p> <p>⊙ 100' Prospect</p> <p>⊙ 97' Stk/Expl</p>	<p>18S 28E</p> <p>⊙ 225'</p>	<p>18S 29E</p>	



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

closed) (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>RA 00399</u>			ED	2	3	31	16S	27E		563583	3637879*			
<u>RA 02550</u>			ED	3	3	1	27	16S	27E	567884	3639835*	83		
<u>RA 02550 REPAR</u>			ED	3	3	1	27	16S	27E	567884	3639835*	180	70	110
<u>RA 04176</u>			XX	3	4	1	23	16S	27E	569885	3641470*	300		

Average Depth to Water: 70 feet

Minimum Depth: 70 feet

Maximum Depth: 70 feet

Record Count: 4

PLSS Search:

Township: 16S

Range: 27E

*UTM location was derived from PLSS - see Help

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

(R=POD has been replaced and no longer serves this file, (quarters are 1=NW 2=NE 3=SW 4=SE)
C=the file is closed) (quarters are smallest to largest) (NAD83 UTM in meters)

WR File Nbr	Sub	Basin	Use	Diversion	Owner	County	POD Number	Code	Grant	Source	q	q	q	Sec	Tws	Ring	X	Y
RA 02550	REPAR		DOM		3 R.B. HORNER	ED	RA 02550 REPAR			Shallow	3	3	1	27	16S	27E	567884	3639835*

Record Count: 1

POD Search:

POD Number: RA 02550 REPAR

Sorted by: File Number

*UTM location was derived from PLSS - see Help

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7/13/12 3:52 PM

Page 1 of 1

ACTIVE & INACTIVE POINTS OF DIVERSION



New Mexico Office of the State Engineer
Water Column/Average Depth to Water

No records found.

PLSS Search:

Township: 16S Range: 28E

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

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

POD Number	POD Code	Subbasin	County	Q	Q	Q	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
------------	----------	----------	--------	---	---	---	-----	-----	-----	---	---	------------	-------------	--------------

<u>RA 09342</u>			ED	4	4	3	19	16S	29E	582737	3640640*	220	110	110
-----------------	--	--	----	---	---	---	----	-----	-----	--------	----------	-----	-----	-----

Average Depth to Water: 110 feet

Minimum Depth: 110 feet

Maximum Depth: 110 feet

Record Count: 1

PLSS Search:

Township: 16S

Range: 29E

*UTM location was derived from PLSS - see Help

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New Mexico Office of the State Engineer

Active & Inactive Points of Diversion

(with Ownership Information)

WR File Nbr	Sub	Basin	Use	Diversion	Owner	County	POD Number	Code	Grant	Source	q	q	q	Sec	Tws	Rng	X	Y	
RA 09342		DOM		3	RUSTY AND JOSIE VAN CUREN	ED	RA 09342			Shallow	4	4	3	19	16S	29E		532737	3640640*

Record Count: 1

POD Search:

POD Number: RA 09342

Sorted by: File Number

*UTM location was derived from PLSS - see Help

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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 (quarters are 1=NW 2=NE 3=SW 4=SE)
closed) (quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD		Q Q Q					X	Y	Depth	Depth	Water		
	Code	Subbasin	County	64	16	4	Sec			Tws	Rng	Well	Water	Column
RA 01493			ED	2	1	27	17S	27E	568468	3630529*	876			
RA 01716 (D)	O		ED	4	4	3	16	17S	27E	566953	3632420*	1220	175 1045	
RA 01716 S			ED	4	4	3	16	17S	27E	566953	3632420*	1200		
RA 02966			ED	4	4	4	05	17S	27E	566117	3635707*	80	30 50	
RA 03279			ED	3	2	07	17S	27E	564020	3635011*	250	14	236	
RA 03661			ED	3	2	3	32	17S	27E	565186	3628038*	330	140	190
RA 03664			CH	3	2	3	32	17S	27E	565186	3628038*	400	100	300
RA 03694			ED		4	17	17S	27E	565854	3632721*	300	90	210	
RA 03816			CH		4	17	17S	27E	565854	3632721*	945	931	14	
RA 04114			LE	4	4	3	16	17S	27E	566953	3632420*	1042	260	782
RA 04153			CH	4	4	3	16	17S	27E	566953	3632420*	1220	175	1045
RA 04320			ED		3	17	17S	27E	565053	3632719*	120	50	70	
RA 04554			ED		1	23	17S	27E	569859	3631947*	220	40	180	
RA 04561			ED	4	2	26	17S	27E	570871	3630142*	250			
RA 04786			ED	4	3	2	18	17S	27E	564133	3633277*	138	111	27
RA 06531			ED	4	1	4	17	17S	27E	565747	3632821*	200		
RA 06560			CH	2	1	2	20	17S	27E	565757	3632217*	133	80	53
RA 06635			ED	2	2	2	18	17S	27E	564531	3633852*	325	60	265
RA 07774			ED	3	2	1	11	17S	27E	569933	3635251*	100	50	50
RA 07844			ED	3	4	3	16	17S	27E	566753	3632420*	1300	180	1120
RA 07844 EXPL			ED	4	3	16	17S	27E	566854	3632521*	1300	180	1120	
RA 08823			ED	1	1	3	17	17S	27E	564745	3633019*	348	60	288
RA 11691 POD			ED	2	1	4	17	17S	27E	565800	3633029	150	0	150

*UTM location was derived from PLSS - see Help.

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Average Depth to Water: 143 feet

Minimum Depth: 0 feet

Maximum Depth: 931 feet

Record Count: 23

PLSS Search:

Township: 17S Range: 27E



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

No PODs found.

POD Search:

POD Number: RA 01716 D

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ACTIVE & INACTIVE POINTS OF DIVERSION



New Mexico Office of the State Engineer

Active & Inactive Points of Diversion

(with Ownership Information)

(R=POD has been replaced and no longer serves this file. (quarters are 1=NW 2=NE 3=SW 4=SE)
 C=the file is closed) (quarters are smallest to largest) (NAD83 UTM in meters)
 q . q . q

WR File Nbr.	Sub basin	Use	Diversion	Owner	County	POD Number	Code	Grant	Source	q	q	q	Sec	Tws	Rng	X	Y
RA 04114		DOM		J. HIRAM MOORE	LE	RA 04114			Artesian 4	4	3	16	17S	27E	566953	3832420	

Record Count: 1

POD Search:

POD Number: RA-04114

Sorted by: File Number

*UTM location was derived from PLSS - see Help

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New Mexico Office of the State Engineer

Active & Inactive Points of Diversion

(with Ownership Information)

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 C=the file is closed) (quarters are smallest to largest) (NAD83 UTM in meters)

WR File Nbr	Sub	Basin	Use	Diversion	Owner	County	POD Number	Code	Grant	Source	q	q	q	Sec	Tws	Rng	X	Y
RA 04153		DOM			J. HIRAM MOORE	CH	RA 04153			Artesian	4	4	3	16	17S	27E	566953	3632420*

Record Count: 1

POD Search:

POD Number: RA 04153

Sorted by: File Number

*UTM location was derived from PLSS - see Help

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New Mexico Office of the State Engineer

Active & Inactive Points of Diversion

(with Ownership Information)

WR File Nbr	Sub	basin	Use	Diversion	Owner	County	POD Number	Code	Grant	Source	q	q	q	Sec	Tws	Rng	X	Y
RA 07844			EXP		RIVERSIDE WATER USERS ASSOC	ED	RA 07844			Shallow	3	4	3	16	17S	27E	566753	3632420*
RA 07844 EXPL			EXP		0 RIVERSIDE WATER USERS ASSOC	ED	RA 07844 EXPL			Artesian	4	3	16	17S	27E	566854	3632521*	

Record Count: 2

POD Search:

POD Number: RA 07844

Sorted by: File Number

*UTM location was derived from PLSS - see Help

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Active & Inactive Points of Diversion

(with Ownership Information)

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 C=the file is closed) (quarters are smallest to largest) (NAD83 UTM in meters)

WR File Nbr	Sub- basin	Use	Diversion	Owner	County	POD Number	Code	Grant	Source	q	q	q	Sec	Tws	Rng	X	Y
RA 02966		DOM		JIM HOOTEN	ED	RA 02966			Shallow	4	4	4	05	17S	27E	566117	3635707

Record Count: 1

POD Search:

POD Number: RA 02966

Sorted by: File Number

*UTM location was derived from PLSS - see Help

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New Mexico Office of the State Engineer

Active & Inactive Points of Diversion

(with Ownership Information)

(R=POD has been replaced and no longer serves this file; (quarters are 1=NW 2=NE 3=SW 4=SE)
 C=the file is closed) (quarters are smallest to largest) (NAD83 UTM in meters)
 q . q . q .

WR File Nbr	Sub. basin Use	Diversion	Owner	County	POD Number	Code	Grant	Source	6416 4	Sec	Tws	Rng	X	Y
RA 03279	DOM	3	EMIL P. BACH	ED	RA 03279			3 2 07	17S	27E	564020	3635011*		

Record Count: 1

POD Search:

POD Number: RA 03279

Sorted by: File Number

*UTM location was derived from PLSS - see Help

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Active & Inactive Points of Diversion

(with Ownership Information)

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 C=the file is closed) (quarters are smallest to largest) (NAD83 UTM in meters)

WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Code	Grant	Source	6416 4	Sec	Tws	Rng	X	Y	
RA 03661		PRO		HUMBLE OIL & REFINING	ED	RA 03661			Shallow	3	2	3	32	17S	27E	565186 3628038*

Record Count: 1

POD Search:

POD Number: RA 03661

Sorted by: File Number

*UTM location was derived from PLSS - see Help

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New Mexico Office of the State Engineer

Active & Inactive Points of Diversion

(with Ownership Information)

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C=the file is closed) (quarters are smallest to largest) (NAD83 UTM in meters)

WR File Nbr	Sub	basin	Use	Diversion	Owner	County	POD Number	Code	Grant	Source	q	q	q	Sec	Tws	Rng	X	Y
RA 03694		DOM			3 C.M. BERRY	ED	RA 03694			Shallow	4	17	17S	27E			565854	3632721*

Record Count: 1

POD Search:

.POD Number: RA 03694

Sorted by: File Number

*UTM location was derived from PLSS - see Help

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ACTIVE & INACTIVE POINTS OF DIVERSION



New Mexico Office of the State Engineer

Active & Inactive Points of Diversion

(with Ownership Information)

WR File Nbr	Sub	Basin	Use	Diversion	Owner	County	POD Number	Code	Grant	Source	Q	Q	Q	Sec	Tws	Rng	X	Y
RA 03816		DOM			3 R. D. COLLIER	CH	RA 03816			Artesian	6416	4		4	17	17S 27E		565854 3632721*

(R=POD has been replaced
and no longer serves this file,
C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

Record Count: 1

POD Search:

POD Number: RA 03816

Sorted by: File Number

*UTM location was derived from PLSS - see Help

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ACTIVE & INACTIVE POINTS OF DIVERSION



New Mexico Office of the State Engineer

Active & Inactive Points of Diversion

(with Ownership Information)

WR File Nbr	Sub	Basin	Use	Diversion	Owner	County	POD Number	Code	Grant	Source	Q	Q	Q	Sec	Tws	Rng	X	Y
RA 04320		DOM			3 C.V. BROWN	ED	RA 04320			Artesian	6416	4		3	17	17S 27E	565053	3632719

(R=POD has been replaced and no longer serves this file, (quarters are 1=NW 2=NE 3=SW 4=SE)
 C=the file is closed) (quarters are smallest to largest) (NAD83 UTM in meters)

Record Count: 1

POD Search:

POD Number: RA 04320

Sorted by: File Number

*UTM location was derived from PLSS - see Help

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New Mexico Office of the State Engineer

Active & Inactive Points of Diversion

(with Ownership Information)

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 C=the file is closed) (quarters are smallest to largest) (NAD83 UTM in meters)

WR File Nbr	Sub	basin	Use	Diversion	Owner	County	POD Number	Code	Grant	Source	q	q	q	q	Sec	Tws	Rng	X	Y
RA 08823			DOM		3 - HAMMOND PHILLIP J	ED	RA 08823			Shallow	1	1	3	17	17S	27E		564745	3633019

Record Count: 1

POD Search:

POD Number: RA 08823

Sorted by: File Number

*UTM location was derived from PLSS - see Help

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ACTIVE & INACTIVE POINTS OF DIVERSION



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Active & Inactive Points of Diversion

(with Ownership Information)

(R=POD has been replaced and no longer serves this file, (quarters are 1=NW 2=NE 3=SW 4=SE)
 C=the file is closed), (quarters are smallest to largest) (NAD83 UTM in meters)

WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Code	Grant	Source	q	q	q	Sec	Tws	Rng	X	Y
RA 11691	MON			INTEGRATED WATER SERVICES	ED	RA 11691 POD1			6416 4	2	1	4	17	17S	27E	565800	3633029

Record Count: 1

POD Search:

POD Number: RA 11691 POD1

Sorted by: File Number

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Active & Inactive Points of Diversion

(with Ownership Information)

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 C=the file is closed) (quarters are smallest to largest) (NAD83 UTM in meters)

WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Code	Grant	Source	Q	Q	Q	Sec	Twp	Range	X	Y
RA 04554		PRO		LOWE DRILLING COMPANY	ED	RA.04554			Artesian	6416	4		1	23	17S 27E	569859	3631947

Record Count: 1

POD Search:

POD Number: RA 04554

Sorted by: File Number

*UTM location was derived from PLSS - see Help

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Active & Inactive Points of Diversion

(with Ownership Information)

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 C=the file is closed) (quarters are smallest to largest) (NAD83 UTM in meters)

WR File Nbr:	Sub	basin Use Diversion	Owner	County, POD Number	Code Grant	Source	q q q	Sec	Tws	Rng	X	Y
RA 04786		DOM	3 DAVE COLLIER	ED RA 04786		Artesian	4 3 2	18	17S	27E		584133 3633277*

Record Count: 1

POD Search:

POD Number: RA 04786

Sorted by: File Number

*UTM location was derived from PLSS - see Help

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New Mexico Office of the State Engineer

Active & Inactive Points of Diversion

(with Ownership Information)

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 C=the file is closed) (quarters are smallest to largest) (NAD83 UTM in meters)

WR File Nbr	Sub	Basin	Use	Diversion	Owner	County	POD Number	Code	Grant	Source	q	q	q	Sec	Tws	Rng	X	Y
RA 06560		DOM		3	TONY HALL	CH	RA 06560			Shallow	2	1	2	20	17S	27E	565757	3632217*

Record Count: 1

POD Search:

POD Number: RA 06560

Sorted by: File Number

*UTM location was derived from PLSS - see Help

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New Mexico Office of the State Engineer
Water Column/Average Depth to Water

No records found.

PLSS Search:

Township: 17S Range: 28E

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WATER COLUMN/ AVERAGE
DEPTH TO WATER



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
------------	----------	----------	--------	------	------	-----	-----	-----	-----	---	---	------------	-------------	--------------

RA 11807 POD1

ED 1 2 3 22 17S 29E 587360 3631585 250

Average Depth to Water: --

Minimum Depth: --

Maximum Depth: --

Record Count: 1

PLSS Search:

Township: 17S

Range: 29E

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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		Q Q Q				X	Y	Depth Depth Water					
	Code	Subbasin	County	64	16	4			Sec	Tws	Rng	Well	Water	Column
<u>RA 03714</u>			CH	4	4	2	08	18S	27E	566212	3625253*	381		
<u>RA 03917</u>			LE	4	1	2	10	18S	27E	569019	3625660*	130	50	80
<u>RA 04048</u>			LE	1	4	4	14	18S	27E	570841	3623030*	2096		
<u>RA 04211</u>			CH	3	1	28	18S	27E	566512	3620562*	120	100	20	
<u>RA 04298</u>			ED	1	2	19	18S	27E	564082	3622523*	92			
<u>RA 05524</u>			ED	2	4	33	18S	27E	567721	3618532*	90	49	41	
<u>RA 05660</u>			ED	3	4	31	18S	27E	564094	3618090*	305	65	240	
<u>RA 05664</u>			ED	4	1	33	18S	27E	566914	3618936*		145		
<u>RA 06091</u>			ED	1	2	3	29	18S	27E	565211	3620222*	90	17	73

Average Depth to Water: 71 feet

Minimum Depth: 17 feet

Maximum Depth: 145 feet

Record Count: 9

PLSS Search:

Township: 18S

Range: 27E

*UTM location was derived from PLSS - see Help

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New Mexico Office of the State Engineer

Active & Inactive Points of Diversion

(with Ownership Information)

WR File Nbr.	Sub-basin	Use	Diversion	Owner	County	POD Number	Code	Grant	Source	Q	Q	Q	Tws	Rng	X	Y	
RA 03917		PRO		PAN AMERICAN PETROLEUM CORP.	LE	RA 03917			Artesian	4	1	2	10	18S	27E	569019	3625660*

(R=POD has been replaced and no longer serves this file, (quarters are 1=NW 2=NE 3=SW 4=SE)
 C=the file is closed) (quarters are smallest to largest) (NAD83 UTM in meters)

Record Count: 1

POD Search:

POD Number: RA 03917

Sorted by: File Number

*UTM location was derived from PLSS - see Help

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New Mexico Office of the State Engineer

Active & Inactive Points of Diversion

(with Ownership Information)

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 C=the file is closed) (quarters are smallest to largest) (NAD83 UTM in meters)

WR File Nbr	Sub. basin	Use	Diversion	Owner	County	POD Number	Code	Grant	Source	q	q	q	Sec	Tws	Rng	X	Y
RA 04211		PRO	0	JOHN H. TRIGG	CH	RA 04211			Shallow	3	1	28	18S	27E		566512	3620562

Record Count: 1

POD Search:

POD Number: RA 04211

Sorted by: File Number

*UTM location was derived from PLSS - see Help

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New Mexico Office of the State Engineer

Active & Inactive Points of Diversion

(with Ownership Information)

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 C=the file is closed) (quarters are smallest to largest) (NAD83 UTM in meters)
 q q q.

WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Code	Grant	Source	6416 4	Sec	Tws	Rng	X	Y
RA 05524	STK		3	RAYMOND NETHERLIN	ED	RA 05524			Shallow	2	4	33	18S 27E	567721	3618532

Record Count: 1

POD Search:

POD Number: RA 05524

Sorted by: File Number

*UTM location was derived from PLSS - see Help

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New Mexico Office of the State Engineer

Active & Inactive Points of Diversion

(with Ownership Information)

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 C=the file is closed) (quarters are smallest to largest) (NAD83 UTM in meters)

WR File Nbr	Sub.	(acre ft per annum)	Use	Diversion	Owner	County	POD Number	Code	Grant	Source	q	q	q	q	Sec	Tws	Rng	X	Y
RA 05664			EXP	0	YATES DRILLING COMPANY	ED	RA 05664			Artesian	4	1	33	18S	27E			566914	3618936*
RA 05664 EXPL			OBS		YATES DRILLING COMPANY	ED	RA 05664			Artesian	4	1	33	18S	27E			566914	3618936*

Record Count: 2

POD Search:

POD Number: RA 05664

Sorted by: File Number

*UTM location was derived from PLSS - see Help

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New Mexico Office of the State Engineer

Active & Inactive Points of Diversion

(with Ownership Information)

WR File Nbr.	Sub. basin	(acre ft per annum)	Use	Diversion	Owner	County	POD Number	Code	Grant	Source	q	q	q	X	Y		
RA-05660			PRO		INC. READ & STEVENS	ED	RA 05660			Shallow	6416	4	31	18S	27E	564094	3618090

(R=POD has been replaced

and no longer serves this file,

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

C=the file is closed)

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

q q q

Source 6416 4 Sec Twr Rng X Y

Shallow 3 4 31 18S 27E 564094 3618090

Record Count: 1

POD Search:

POD Number: RA 05660

Sorted by: File Number

*UTM location was derived from PLSS - see Help.

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ACTIVE & INACTIVE POINTS OF DIVERSION



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

WR File Nbr	Sub	Basin	Use	Diversion	Owner	County	POD Number	Code	Grant	Source	Q	Q	Q	Q	Rng	X	Y	
RA 06091			PRO	0	YATES PETROLEUM CORPORATION	ED	RA 06091			Shallow	1	2	3	29	18S	27E	565211	3620222

(R=POD has been replaced and no longer serves this file, (quarters are 1=NW 2=NE 3=SW 4=SE)
 C=the file is closed) (quarters are smallest to largest) (NAD83 UTM in meters)

Record Count: 1

POD Search:

POD Number: RA 06091

Sorted by: File Number

*UTM location was derived from PLSS - see Help

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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		Q Q Q				X	Y	Depth	Depth	Water		
	Code	Subbasin	County	64	16	4			Sec	Tws	Rng	Well	Water Column
<u>L 01142 POD1</u>	L		LE	2	4	15	18S	28E	578921	3623453*	80		
<u>L 01150 POD1</u>	L		LE	1	1	35	18S	28E	579344	3619433*	135	65	70
<u>RA 09588</u>			ED	1	2	33	18S	28E	576976	3619384*	300		

Average Depth to Water: 65 feet

Minimum Depth: 65 feet

Maximum Depth: 65 feet

Record Count: 3

PLSS Search:

Township: 18S

Range: 28E

*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
Active & Inactive Points of Diversion
(with Ownership Information)

No PODs found.

POD Search:

POD Number: RA 01150 POD1

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.

7/16/12 10:11 AM

Page 1 of 1

ACTIVE & INACTIVE POINTS OF DIVERSION



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

closed) (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 Column
------------	----------	----------	--------	------	------	-----	-----	-----	-----	---	---	------------	--------------------

CP.00863

ED 1 4 2 27 18S 29E 588341 3620768* 320

Average Depth to Water: --

Minimum Depth: --

Maximum Depth: --

Record Count: 1

PLSS Search:

Township: 18S

Range: 29E

*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.

USGS 325122104151001 17S.27E.11.12311

Available data for this site

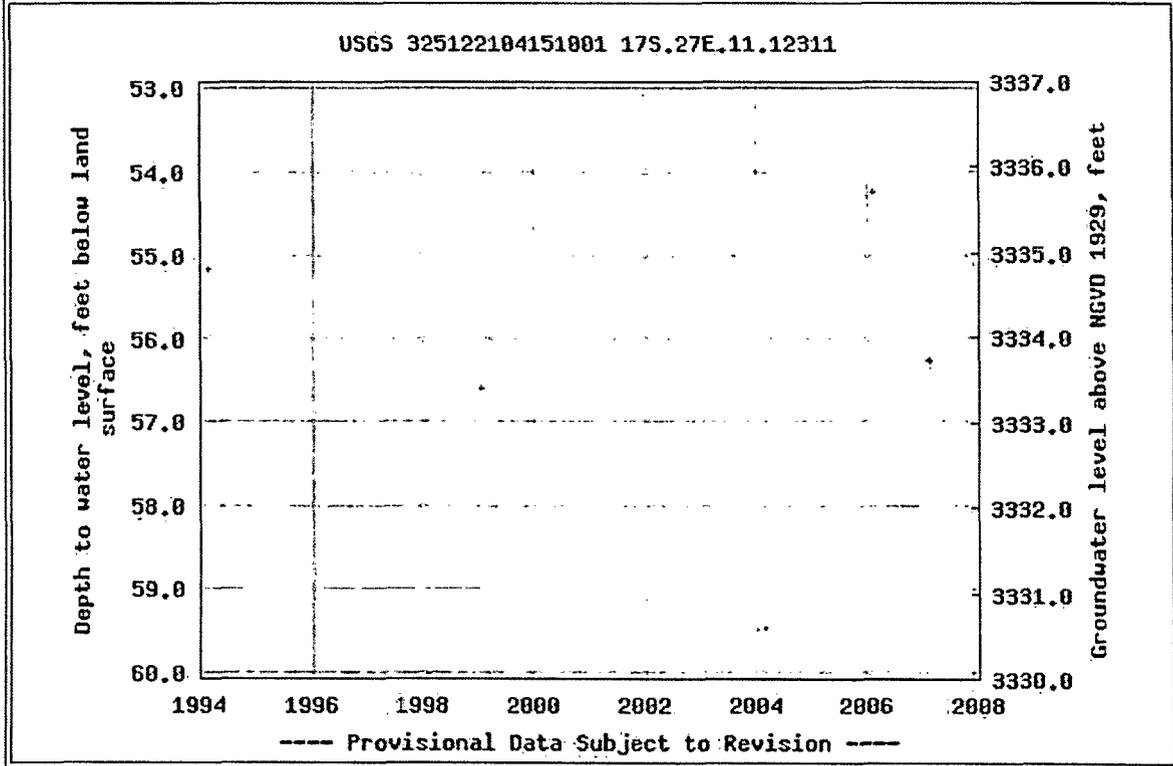
Groundwater: Field measurements

[GO]

Eddy County, New Mexico
 Hydrologic Unit Code 13060011
 Latitude 32°51'22", Longitude 104°15'10" NAD27
 Land-surface elevation 3,390 feet above NGVD29
 The depth of the well is 100.00 feet below land surface.
 This well is completed in the Artesia Group (313ARTS) local aquifer.

Output formats

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



USGS 324855104093101 17S.28E.22.34242

Available data for this site

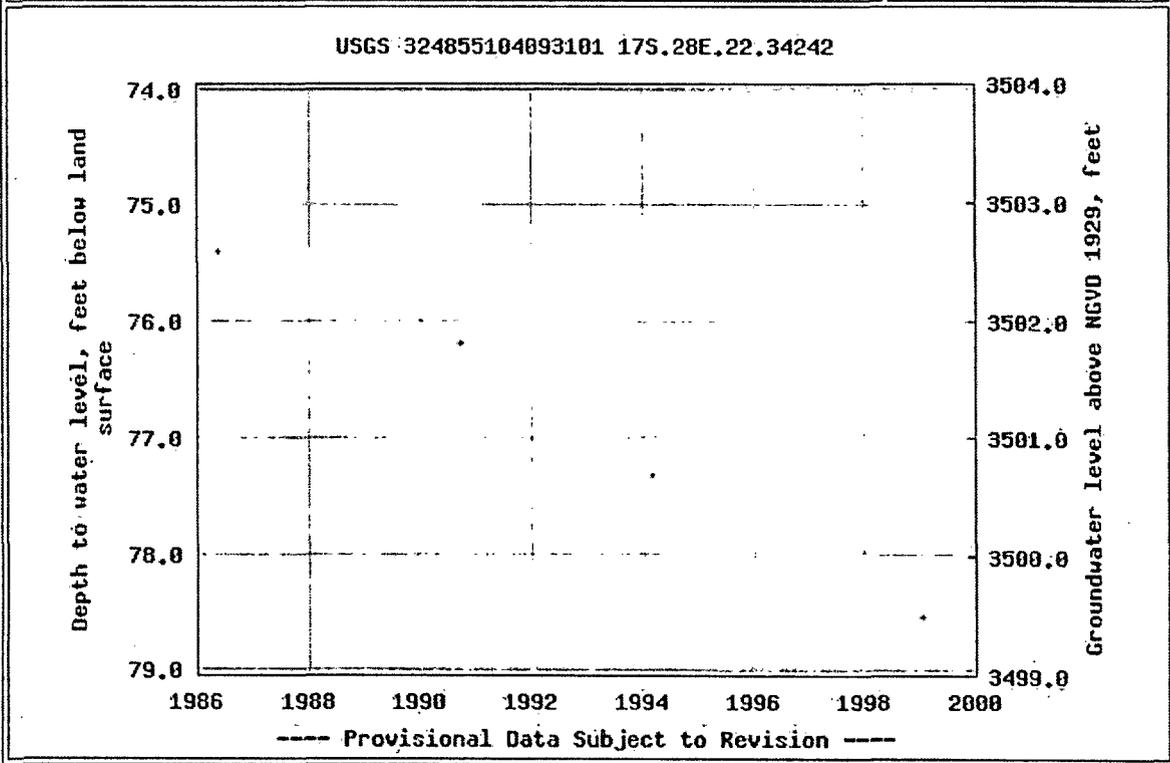
Groundwater: Field measurements

[GO]

Eddy County, New Mexico
 Hydrologic Unit Code 13060011
 Latitude 32°48'55", Longitude 104°09'31" NAD27
 Land-surface elevation 3,578 feet above NGVD29
 The depth of the well is 95.00 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 324424104103901 18S.28E.21.21212

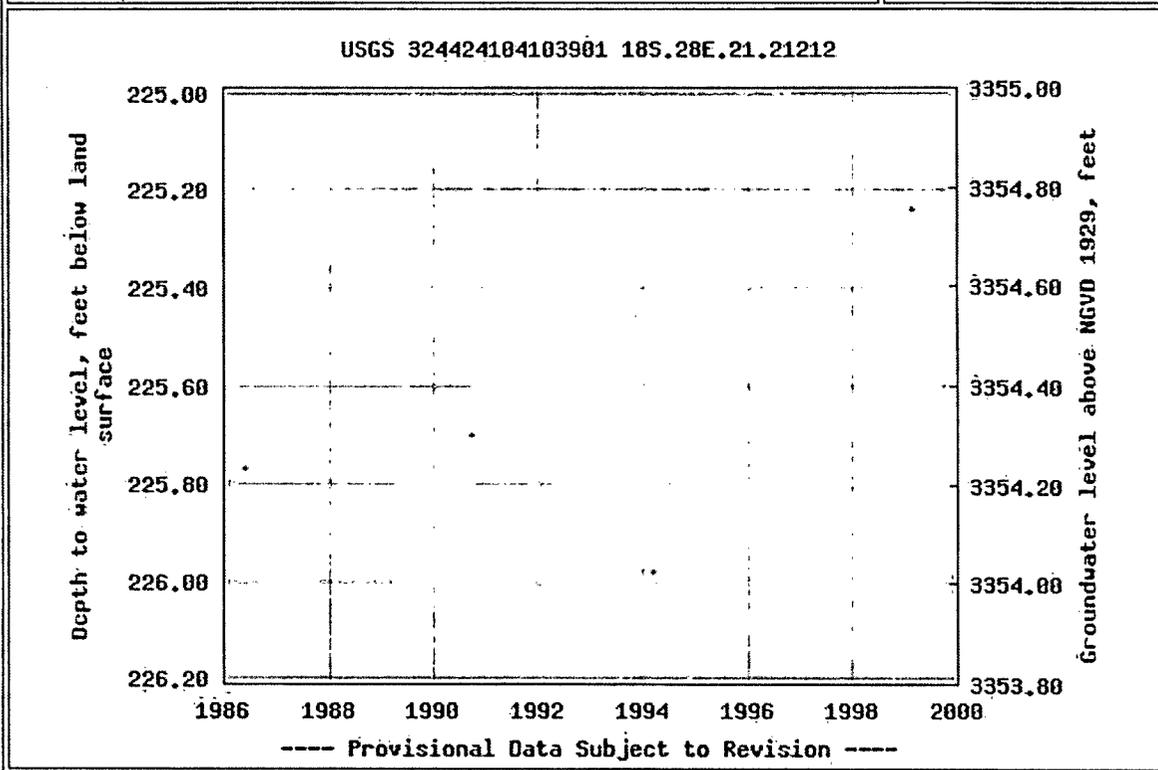
Available data for this site

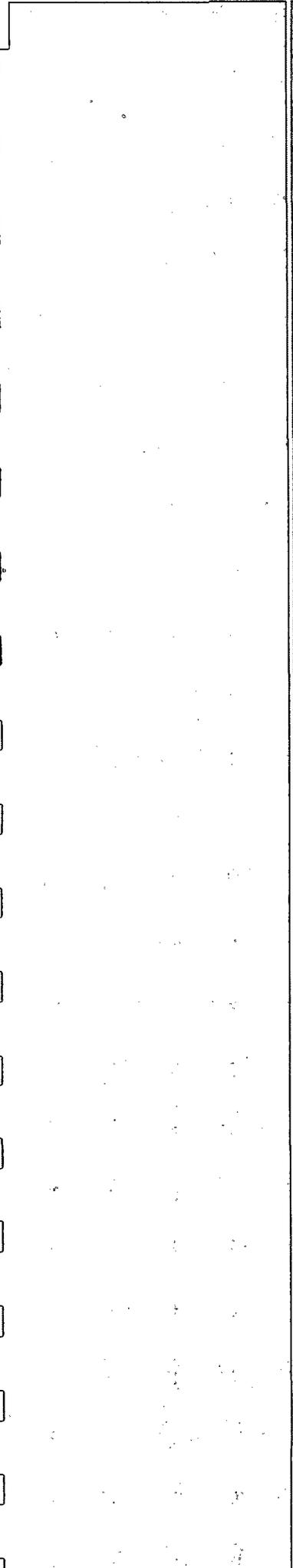
Groundwater: Field measurements

Eddy County, New Mexico
 Hydrologic Unit Code 13060011
 Latitude 32°44'24", Longitude 104°10'39" NAD27
 Land-surface elevation 3,580 feet above NGVD29
 The depth of the well is 250.00 feet below land surface.
 This well is completed in the Artesia Group (313ARTS) local aquifer.

Output formats

-
-
-
-





Appendix E

Final Form C-141

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

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

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 Empire Abo Unit G312 (near Washington 33 #53)	Facility Type Production

Surface Owner State	Mineral Owner State	API No. 30-015-40077
---------------------	---------------------	----------------------

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	33	17S	28E	2290	FSL	2175	FEL	Eddy

Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release Oil/Water	Volume of Release 300 bbls	Volume Recovered 225 bbls
Source of Release Flowline	Date and Hour of Occurrence 6/10/2012	Date and Hour of Discovery 6/10/2012
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher	
By Whom? Natalie Gladden	Date and Hour 6/14/2012	
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.*

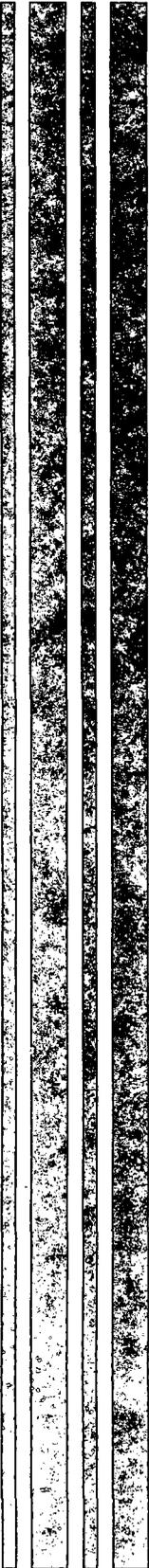
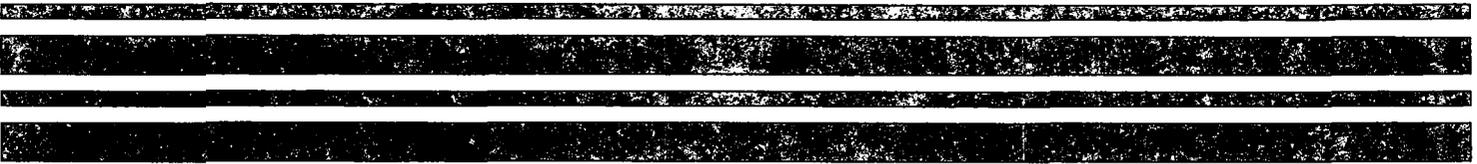
Describe Cause of Problem and Remedial Action Taken.*
Fiberglass line leak. A local contractor found the leak at 10:40 pm. Fiberglass line was repaired, standing fluid was recovered and one-call was made.

Describe Area Affected and Cleanup Action Taken.*
The leak affected a total area of 27,046 square feet including a lease road and pasture land. Samples were collected and sent to a commercial lab for chloride and TPH analyses. The leak was excavated and impacted soils were removed to a NMOCD approved disposal facility. The excavations in the pasture were backfilled with clean imported caliche to 1 ft. bgs, and the remaining 1 ft. was backfilled with clean imported topsoil. The site was contoured to the surrounding area. The excavation in the lease road was backfilled with clean imported caliche and leveled.

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:	
Title: EH&S Environmental Tech	Approval Date:	Expiration Date:
E-mail Address: Natalie.gladden@apachecorp.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 11/9/12 Phone: (575) 390-4186		

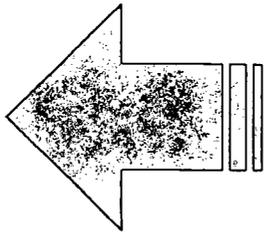
* Attach Additional Sheets If Necessary



This is a Patch T type separator sheet.



Form Type = "Well file form"
CODE128 type barcode

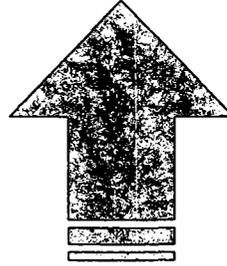


Landscape Feed
New Form Follows...

This is a Patch T type separator sheet.



Form Type = "Well file form"
CODE128 type barcode



Portrait Feed
New Form Follows...

District I
1625 N. French Dr., Hobbs, NM 88240
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1301 W. Grand Avenue, Artesia, NM 88210
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Form C-141
Revised October 10, 2003

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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	Empire Abo Unit G312 (near Washington 33 #53)	Facility Type	Production

Surface Owner	State	Mineral Owner	State	API No.	30-015-40077
---------------	-------	---------------	-------	---------	--------------

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
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Latitude _____ Longitude _____

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Source of Release	Flowline	Date and Hour of Occurrence	6/10/2012	Date and Hour of Discovery	6/10/2012
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Mike Bratcher		
By Whom?	Natalie Gladden	Date and Hour	6/14/2012		
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.*

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Signature: 	<u>OIL CONSERVATION DIVISION</u>	
Printed Name: Natalie Gladden	Approved by District Supervisor: 	
Title: EH&S Environmental Tech	Approval Date: 4/17/15	Expiration Date: N/A
E-mail Address: natalie.gladden@apachecorp.com	Conditions of Approval: Final	Attached <input type="checkbox"/>
Date: 11/9/12	Phone: (575) 390-4186	

* Attach Additional Sheets If Necessary

220-1193