#### District I

1625 N. French Dr , Hobbs, NM 88240

# State of New Mexico Energy Minerals and Natural Resources

Form C-141

side of form

Revised June 10, 2003

District II

1301 W. Grand Avenue, Artesia, NM 88210

Distric III

1000 Rio Brazos Road, Aztec, NM 87410

District IV

1220 S. St Francis Dr , Santa Fe, NM 87505

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

Submit 2 Copies to appropriate

District Office in accordance

with Rule 116 on back

**Release Notification and Corrective Action** Initial Repo √ Final Report **OPERATOR** Natalie Gladden Name of Company **Apache Corporation** Contact Telephone No. 575-390-4186 Address P.O. Box 1849 Eunice, NM 88231 ARNOLD A #1 Oil Well Facility Name Facility Type Surface Owner Private Mineral Owner API No. 30-025-07761 LOCATION OF RELEASE Feet from Unit Letter Township Feet from Longitude-W Section Range Latitude-N County North Line West Line **20S** 38E 103.1361 11 32.5103 Lea 1980 1775 NATURE OF RELEASE Type of Release Volume of Release Volume Recovered Produced Water w/ significant hydrocarbon component Greater than 165 bbl bbl Source of Release Date and Hour of Occurrence Date and Hour of Discovery Tank Sight Guage 12/16/07 3:00 AM 12/16/07 9:00 AM Was Immediate Notice Given? If YES, To Whom? ✓ YES ☐ NO Not Required NMOCD - Hobbs - Larry Johnson By Whom? Billy L. Stockton Date and Hour 12/17/07 3:00 PM If YES, Volume Impacting the Watercourse Was a Watercourse Reached? ✓ NO YES If a Watercourse was Impacted, Describe Fully\* Describe Cause of Problem and Remedial Action Taken. \* Sight glass hose on temporary tank for well swabbing failed. Vacuum truck recovered 40-bbl. Describe Area Affected and Cleanup Action Taken. \* The flow path extended east approximately 1100-ft along a sandy access road. Release was contained within the road until reaching east extent where it spread out south and northeast. Remediation was accomplished with excavation/disposal of grossly contaminated soil, then risk based closure with blending to <1000-ppm Cl and covering with a 20-mil polyvinyl plastic liner. Remediation was started by ELKE Environmental - Hobbs, and completed by Ocotillo Environmental - Hobbs. 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: Printed Name: Natalie Gladden Approved by District **ENVIRONMENT**AL ENGINEER Title: **Environmental Tech - Permian Basin** Approval Date: Expiration Date Conditions of Approval: 1RP# 1590 E-Mail Address: Natalie.Gladden@usa.apachecorp.com Attached Date: Phone: 5/29/2009 575-390-4186

## **Table of Contents**

1.0 Project Summary	3
2.0 Site Description	4
2.1 Geological Description	4
2.2 Ecological Description	4
2.3 Area Ground Water	4
2.4 Area Water Wells	4
2.5 Area Surface Water Features	4
3.0 Contaminant and Size of Area	4
4.0 NMOCD Site Ranking	4
5.0 Remediation Process	5
ATTACHMENTS	7-27
Plate 1: Site Location Map	7
Plate 2: Site Topography Map	8
Plate 3: Site Aerial Photograph	9
Plate 4: Ground Water Elevation Contour Map	10
Plate 5: Site Detail Drawing	11
Plate 6: Sample Point Locations	12
Plate 7: Liner Installation Drawing	13
Analytical Results Summary Table	14
Cardinal Laboratory Analytical Reports	15-20
Photographs	21-24
Initial NMOCD C-141(s)	25
Site Metrics Information	26
Final NMOCD C-141 Form	

## 1.0 Project Summary

Release Site Name:

Arnold A #1

Operating Company:

**Apache Corporation** 

Company Representative:

Natalie Gladden, Environmental Tech

Phone: 575-390-4186

Address: PO Box 1849, Eunice, NM 88231

Email: Natalie.Gladden@usa.apachecorp.com

Remediation Company:

Ocotillo Environmental - Hobbs

Phone: 575-738-0138

#### SITE SPECIFIC DATA:

Legal Description:

Lea County, New Mexico

UL-F Section 11 T20S R37E

General Location:

2.4 miles SSE (170.9°) of Nadine, NM.

Latitude: N32° 35.369'

Longitude: W103° 7.295'

Elevation: 3,590-ft amsl

Land Ownership:

Private – Zaragoza (west), Reza (east)

Ground Water Elevation:

54-ft bgs (Monitor Well)

Water Wells within 1000-ft: none

Surface Water within 1000-ft:

none

#### RELEASE SPECIFIC DATA:

Date and Time of Release(s): 3:00 AM - - 12/16/07

Material Released:

Produced Water and Crude Oil component

Volume Released:

>165-bbl

Volume Recovered: 40-bbl

Cause of Release:

Tank sight gauge failure

Release Affected Area:

 $>20,000-\text{ft}^2$ 

Depth of Contamination:

15-ft bgs

**NMOCD Site Ranking:** 

20 (ground water <50-ft below lowest contamination)

Remediation Action Levels: TPH: 100-ppm; Benzene: 10-ppm; BTEX: 50-ppm; Cl – 250-ppm

#### REMEDIATION SUMMARY:

Remediation of the release affected area consisted of the excavation and disposal of approximately 3,200-yd<sup>3</sup> of hydrocarbon and chloride contaminated soil from the top 3-ft of the release affected flow path. Disposal was at J&L Landfarm. Chloride contaminated soil that remained was blended with clean soil to achieve chloride concentrations of <1000-ppm. The flow path area(s) with blended soil above the regulatory limit of 250-ppm Cl were lined with 5-ft overlapping 20-mil polyvinyl liners. Subsequent to liner installation the release affected area was covered with a minimum 3-ft layer (3,108-yd<sup>3</sup>) of clean topsoil purchased from the two involved landowners. Remediation of the release site was completed on January 31, 2008.

## 2.0 Detailed Site Description

## 2.1 Geological Description

The United States Geological Survey (USGS) Ground-Water Report 6, "Geology and Ground-Water Conditions in Southern Lea County, New Mexico," A. Nicholson and A. Clebsch, 1961, describes the near surface geology of southern Lea County as "an intergrade of the Quaternary Alluvium (QA) sediments, i.e., fine to medium sand, with the mostly eroded Cenozoic Ogallala (CO) formation. Typically, the QA and CO formations in the area are capped by a thick inter-bed of caliche and generally overlain by sandy soil." The release site is located in the High Plains physiographic subdivision (more commonly referred to as the Llano Estacado), described by Nicholson & Clebsch as "a flat, gently sloping plain, treeless, and marred only by slight undulations and covered with short prairie grass."

## 2.2 Ecological Description

The area is typical of the Upper Chihuahuan Desert Biome consisting primarily of hummocky sand hills covered with Harvard Shin Oak (*Querqus harvardi*) interspersed with Honey Mesquite (*Prosopis glandulosa*) along with typical desert grasses, flowering annuals and flowering perennials. Mammals represented, include Orrd's and Merriam's Kangaroo Rat, Deer Mouse, White Throated Wood Rat, Cottontail Rabbit, Black Tailed Jackrabbit, Mule Deer, Bobcat, Red Fox and Coyote. Reptiles, Amphibians, and Birds are numerous and typical of the area. A survey of Listed, Threatened, or Endangered species was not conducted.

#### 2.3 Area Ground Water

The Chevron-Texaco water contour map (*Plate 4 of Attachments*) indicates that water in this area is 25' – 50' bgs. A monitor well drilled at the NW corner of the location measures 54-ft to water level.

#### 2.4 Area Water Wells

There are no recorded or observed water wells within 1000 horizontal feet of the site.

#### 2.5 Area Surface Water Features

No permanent surface water bodies exist within 1000 horizontal feet of the site.

### 3.0 Contaminant and Size of Area

The primary Contaminant of Concern (COC) was total chlorides resulting from the produced water release at this location. Hydrocarbon contamination was limited to the top 1-ft of the release surface area. The areal extent of the excavated release was  $\sim 20,000$ -ft<sup>2</sup>.

## 4.0 NMOCD Site Ranking

Contaminant delineation and site evaluation work done at this site indicate that the chemical parameters of the soil and the physical parameters of the ground water were characterized consistent with the characterization and remediation/abatement goals and objectives set forth in the following New Mexico Oil Conservation Division (NMOCD) publications:

- > Guidelines for Remediation of Leaks, Spills and Releases (August 13, 1993)
- > Unlined Surface Impoundment Closure Guidelines (February 1993)

Acceptable thresholds for contaminants/constituents of concern (CoCs), i.e., TPH<sup>8015m</sup>, Benzene, and the mass sum of Benzene, Toluene, Ethyl Benzene, and total Xýlenes (BTEX<sup>8260</sup>), was determined based on the NMOCD Ranking Criteria as follows:

- Depth to Ground water, i.e., distance from the lower most acceptable concentration to the ground water.
- Wellhead Protection Area, i.e., distance from fresh water supply wells.
- Distance to Surface Water Body, i.e., horizontal distance to all down gradient surface water bodies.

Based on the proximity of the site to area water wells, surface water bodies, and depth to ground water from the lower most contamination, the NMOCD ranking score for the site is 20 points with the soil remedial goals highlighted in the Site Ranking Table.

#### 1. GROUND WATER 2. WELLHEAD PROTECTION 3. DISTANCE TO SURFACE WATER IF <1000' FROM WATER SOURCE, OR: DEPTH TO GW <50 FEET: <200 HORIZONTAL FEET: 20 POINTS <200' FROM PRIVATE DOMESTIC 20 POINTS WATER SOURCE: **DEPTH TO GW 50 TO 99 FEET:** 200-1000 HORIZONTAL FEET: 20 POINTS 10 POINTS 10 POINTS IF >1000' FROM WATER SOURCE, OR: DEPTH TO GW >100 FEET: >1000 HORIZONTAL FEET: >200' FROM PRIVATE DOMESTIC **0** POINTS WATER SOURCE: 0 POINTS **0** POINTS GROUND WATER SCORE = 20 WELLHEAD PROTECTION SCORE= 0 SURFACE WATER SCORE= 0 SITE RANK (1+2+3) = 20 + 0 + 0 = 20 POINTS TOTAL SITE RANKING SCORE AND ACCEPTABLE REMEDIAL GOAL CONCENTRATIONS 10 PARAMETER 10 PPM BENZENE 10 PPM 40 ppm BTEX 50 PPM 50 PPM 50 PPM TPH 100 PPM 1000 PPM 5000 PPM

#### SITE RANKING TABLE

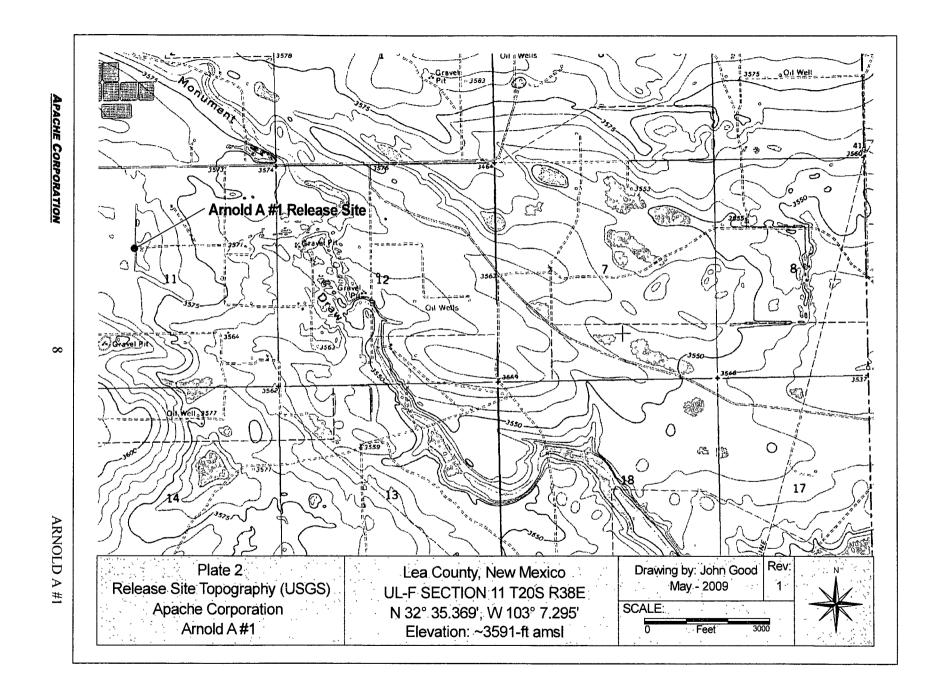
#### 5.0 Remediation Process

Remediation of the release affected area consisted of the excavation and disposal of approximately 3,200-yd³ of hydrocarbon and chloride contaminated soil from the top 3-ft of the release affected flow path. Disposal was at J&L Landfarm. Chloride contaminated soil that remained was blended with clean soil to achieve chloride concentrations of <1000-ppm. The flow path area(s) with blended soil above the regulatory limit of 250-ppm Cl were lined with 5-ft overlapping 20-mil polyvinyl liners. Subsequent to liner installation the release affected area was covered with a minimum 3-ft layer (3,108-yd³) of clean topsoil purchased from the two involved landowners. Remediation of the release site was completed on January 31, 2008.

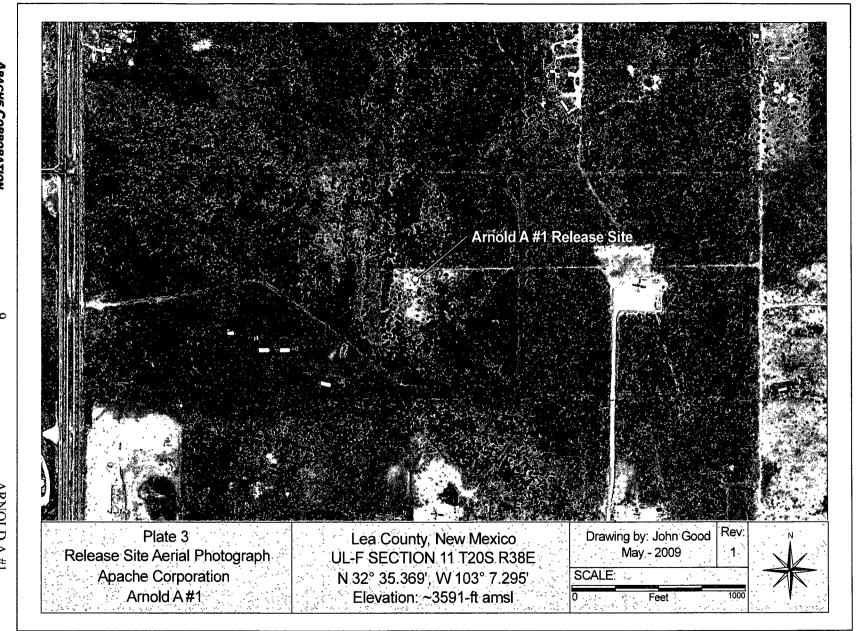
Based on the contents and data contained herein, Apache Corporation requests that NMOCD require "no further action" as regards the soil contamination resulting from the December 16, 2007 release of produced water and crude oil at this location.

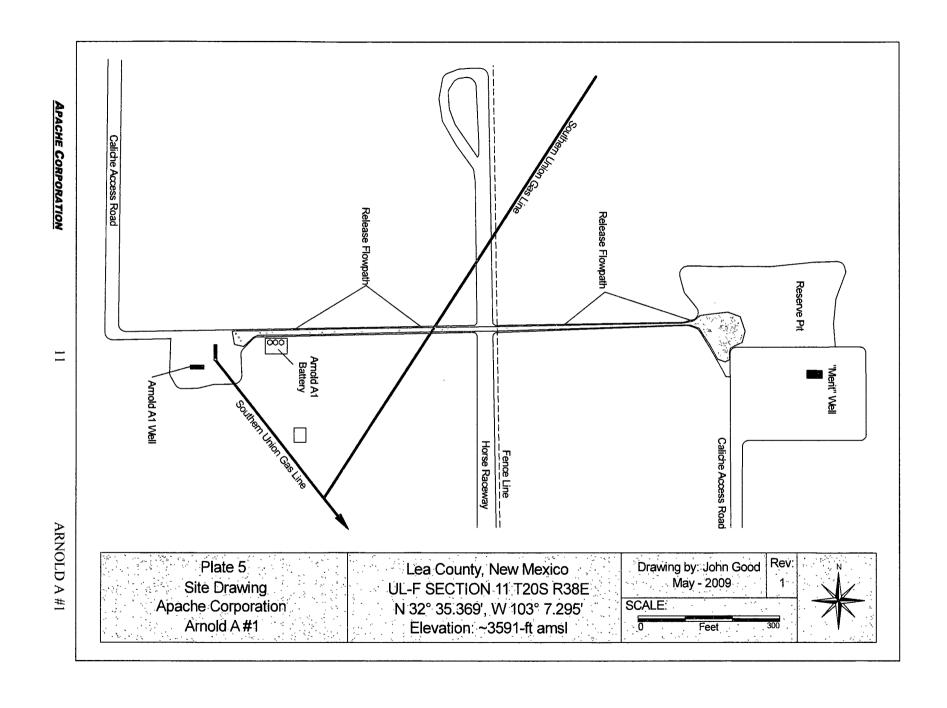
#### **ATTACHMENTS**

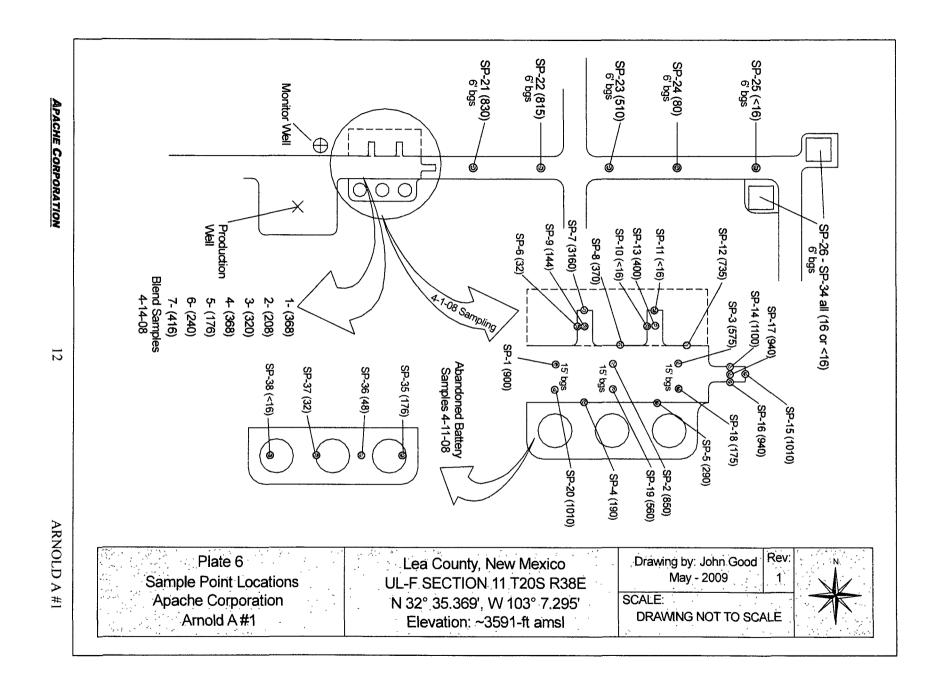
Plate 1: Site Location Map	7
Plate 2: Site Topography Map	8
Plate 3: Site Aerial Photograph	9
Plate 4: Ground Water Elevation Contour Map	10
Plate 5: Site Detail Drawing	11
Plate 6: Sample Point Locations	12
Plate 7: Liner Installation Drawing	13
Analytical Results Summary Table	14
Cardinal Laboratory Analytical Reports	15-20
Photographs	21-24
Initial NMOCD C-141(s)	25
Site Metrics Information	26
Final NMOCD C-141 Form	2.7



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1		APACHE	CORP - ARN	OLD A #1: L	ABORATOR	Y ANALYTIC	CAL RESULT	SSUMMAR	TABLE		
Sample Number	Sample Depth	Sample Location	Chlorides mg/Kg	Sample Number	Sample Depth	Sample Location	Chlorides mg/Kg	Sample Number	Sample Depth	Sample Location	Chlorides mg/Kg
SP1	15-ft	Bottom	912	SP16	10-ft	SideWall	944	SP31	6-ft	Bottom	16
SP2	15-ft	Bottom	848	SP17	15-ft	Bottom	944	SP32	6-ft	Bottom	16
SP3	15-ft	Bottom	576	SP18	15-ft	Bottom	176	SP33	6-ft	Bottom	16
SP4	10-ft	SideWall	192	SP19	15-ft	Bottom	560	SP34	6-ft	Bottom	16
SP5	10-ft	SideWall	288	SP20	15-ft	Bottom	1010	SP35	3-ft	SideWall	176
SP6	10-ft	SideWall	32	SP21	6-ft	Bottom	832	SP36	3-ft	Bottom	48
SP7	10-ft	SideWall	3160	SP22	6-ft	Bottom	816	SP37	3-ft	SideWall	32
SP8	10-ft	SideWall	368	SP23	6-ft	Bottom	512	SP38	3-ft	SideWall	16
SP9	15-ft	Bottom	144	SP24	6-ft	Bottom	80	BLD1		Blend	368
SP10	10-ft	SideWall	16	SP25	6-ft	Bottom	16	BLD2		Biend	208
SP11	10-ft	SideWall	16	SP26	6-ft	Bottom	16	BLD3		Blend	320
SP12	10-ft	SideWall	736	SP27	6-ft	Bottom	16	BLD4		Blend	368
SP13	15-ft	Bottom	400	SP28	6-ft	Bottom	16	BLD5		Blend	176
SP14	10-ft	SideWall	1100	SP29	6-ft	Bottom	16	BLD6		Blend	240
SP15	10-ft	SideWall	1010	SP30	6-ft	Bottom	16	BLD7		Blend	416



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

ANALYTICAL RESULTS FOR ELKE ENVIRONMENTAL, INC. ATTN: JOHN GOOD P.O. BOX 1830 HOBBS, NM 88241 FAX TO: (575) 738-0140

Receiving Date: 04/02/08
Reporting Date: 04/03/08
Project Owner: APACHE CORP.

Project Name: ARNOLD A #1

Project Location: UL-F S11 T20S R38E

Analysis Date: 04/02/08 & 04/03/08

Sampling Date: 04/01/08 Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: ML

Analyzed By: HM

CIT

LAB NUMBER	SAMPLE ID	(mg/kg)
H14561-1	SP-1	912
H14561-2	SP-2	848
H14561-3	SP-3	576
H14561-4	SP-4	192
H14561-5	SP-5	288
H14561-6	SP-6	32
H14561-7	SP-7	3,160
H14561-8	SP-8	368
H14561-9	SP-9	144
H14561-10	SP-10	< 16
H14561-11	SP-11	< 16
H14561-12	SP-12	736
H14561-13	SP-13	400
H14561-14	SP-14	1,100
H14561-15	SP-15	1,010
H14561-16	SP-16	944
H14561-17	SP-17	944
Quality Control		500
True Value QC		500
% Recovery		100
Relative Percent	Difference	2.0

METHOD: Standard Methods 4500-CFB

Note: Analyses performed on 1:4 w.v aqueous extracts.

Ly S. Motorial Cheprist

04-13-18

H14561 ELKE

PLEASE NOTE Liability and Damages Cardinal's liability and clent'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 virting and received by Cardinal within thirty (30) days after completion of the applicable service in no event shall Cardinal be liable for incoental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by cirent, its subscisines, affiliates or successors ansing out of or related to the performance of services breather by Cardinal, research such dains 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 Leboratories.

**APACHE CORPORATION** 

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ARNOLD A #1



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

ANALYTICAL RESULTS FOR ELKE ENVIRONMENTAL, INC. ATTN: JOHN GOOD P.O. BOX 1830 HOBBS, NM 88241 FAX TO: (575) 738-0140

Receiving Date: 04/02/08 Reporting Date: 04/03/08 Project Owner: APACHE CORP. Project Name: ARNOLD A #1

Project Location: UL-F S11 T20S R38E

Analysis Date: 04/03/08 Sampling Date: 04/01/08 Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: ML

Analyzed By: HM

		<b>C</b> [
LAB NUMBER	SAMPLE ID	(mg/kg)
H14561-18	SP-18	176
H14561-19	SP-19	560
H14561-20	SP-20	1,010
H14561-21	SP-21	832
H14561-22	SP-22	816
H14561-23	SP-23	512
H14561-24	SP-24	80
H14561-25	SP-25	< 16
H14561-26	SP-26	16
H14561-27	SP-27	< 16
H14561-28	SP-28	< 16
H14561-29	SP-29	< 16
H14561-30	SP-30	< 16
H14561-31	SP-31	< 16
H14561-32	SP-32	< 16
H14561-33	SP-33	16
H14561-34	SP-34	< 16
Quality Control		490
True Value QC		500
% Recovery		98 0
Relative Percent	Difference	2.0

METHOD: Standard Methods Note: Analyses performed on 1:4 w:v aqueous extracts.

Date

H14561 ELKE

PLEASE NOTE Liability and Damages Cardinal's liability and client's exclusive remedy for any claim ensing, 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 osmages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiants, affiliation or successors ansing out of or related to the performance of services hereunder by Cardinal, resub-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 Laboratones.

**APACHE CORPORATION** 

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Project Manager:	JOHN GOOD		P.O. #:					T	
Address* City.	3506 WEST C HOBBS State.	OUNTY RD NM Zip. 88241	Company, Apache Corp Attn: Natalle Gladden			1 1	! !	1 1 1	1 1 1 1
Phone #;	575-738-0138	Fax#: 575-738-0140	Address PO Box 1849				1 1		
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-2	SP-2	G 1 X	X 1-Apr			X			
-3	SP-3	G 1 X	X 1-Apr			X			
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-5	SP-5	G 1 X	X 1-Apr			X			
-6	SP-6	G 1 X	X 1-Apr			X			
-7	SP-7	G 1 X	X 1-Apr			X			
49	SP-8	G 1 X	X 1-Apr			X			
9	SP-9	G 1 X	X 1-Apr			X			
-10	SP-10	G 1 X	X 1-Apr			X			
-11	SP-11	G 1 X	X 1-Apr			X			
-12	SP-12	G 1 X	X 1-Apr			X			
-13	SP-13	G 1 X	X 1-Apr			X			
-14	SP-14	G 1 X	X 1-Apr			X			
-15	SP-15	G 1 X	X 1-Apr			X			
-16	SP-16	G 1 X	X 1-Apr			X			
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Relinguished	by /	2 clDs	ate:		ĪŘέ	eceived	Ву:					Phone Res	ult.	Yes	☑ No	Addil	Phone	ł:		631	3277 (.	J. Good	,	
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Sar	mpler -	UPS - Bus - Other	<b>ノ</b>		l Ye: l No	s E	Yes No		1	R	XB.	Note: Card	linal ca	nnot a	ccept ver	bal chi	anges.	Please	fax wri	ten cha	nges to	575-39	3-2476.	<del></del>



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

ANALYTICAL RESULTS FOR ELKE ENVIRONMENTAL, INC. ATTN: JOHN GOOD P.O. BOX 1830 HOBBS, NM 88241 FAX TO: (575) 738-0140

Receiving Date: 04/15/08

Reporting Date: 04/16/08
Project Owner: APACHE CORP.

Project Name: ARNOLD A #1
Project Location: UL-F S11 T20S R38E

Analysis Date: 04/16/08

Sampling Date: 04/11/08 & 04/14/08

Sample Type: SOIL Sample Condition: INTACT Sample Received By: ML

Analyzed By: HM

		CI
LAB NUMBER	SAMPLE ID	(mg/kg)
H14653-1	SP-35	176
H14653-2	SP-36	48
H14653-3	SP-37	32
H14653-4	SP-38	< 16
H14653-5	BLD-1	368
H14653-6	BLD-2	208
H14653-7	BLD-3	320
H14653-8	BLD-4	368
H14653-9	BLD-5	176
H14653-10	BLD-6	240
H14653-11	BLD-7	416
Quality Control		490
True Value QC		500
% Recovery		98.0
Relative Percent	Difference	2.0

METHOD: Standard Methods 4500-CIB

Note: Analyses performed on 1:4 w:v aqueous extracts.

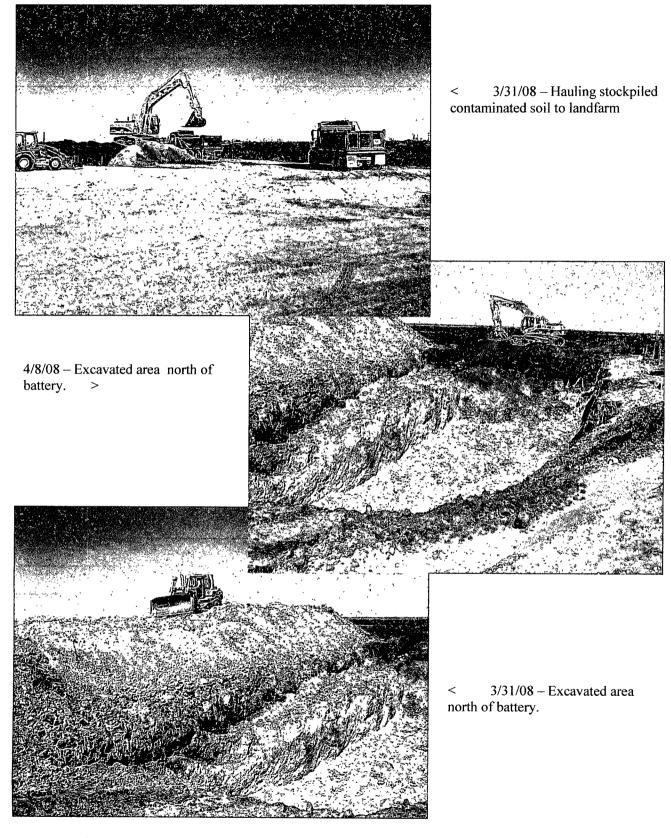
Chemist Suplois

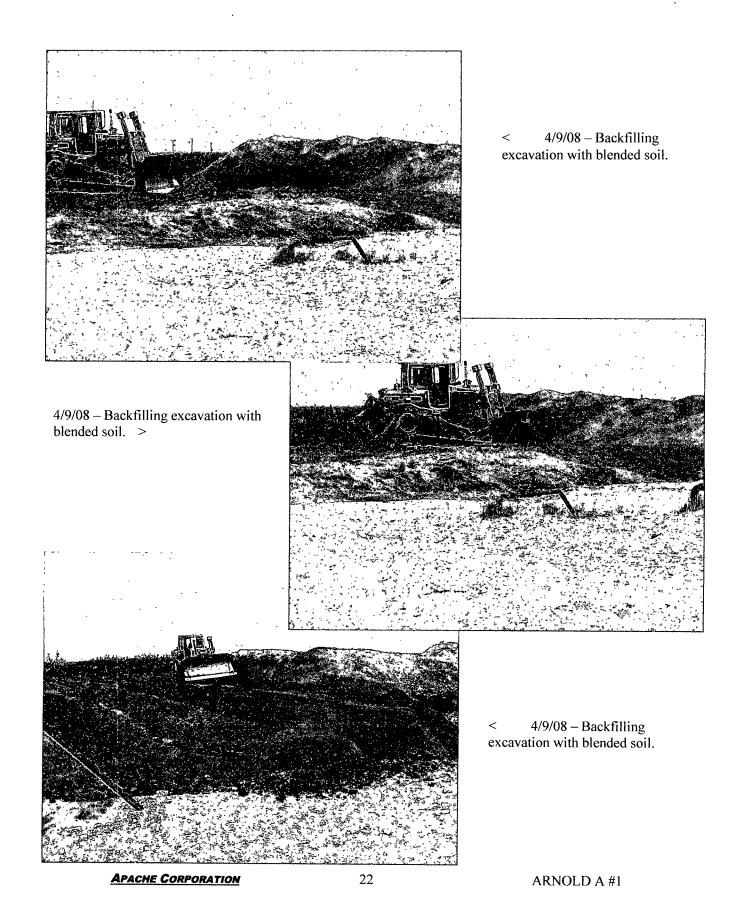
Date

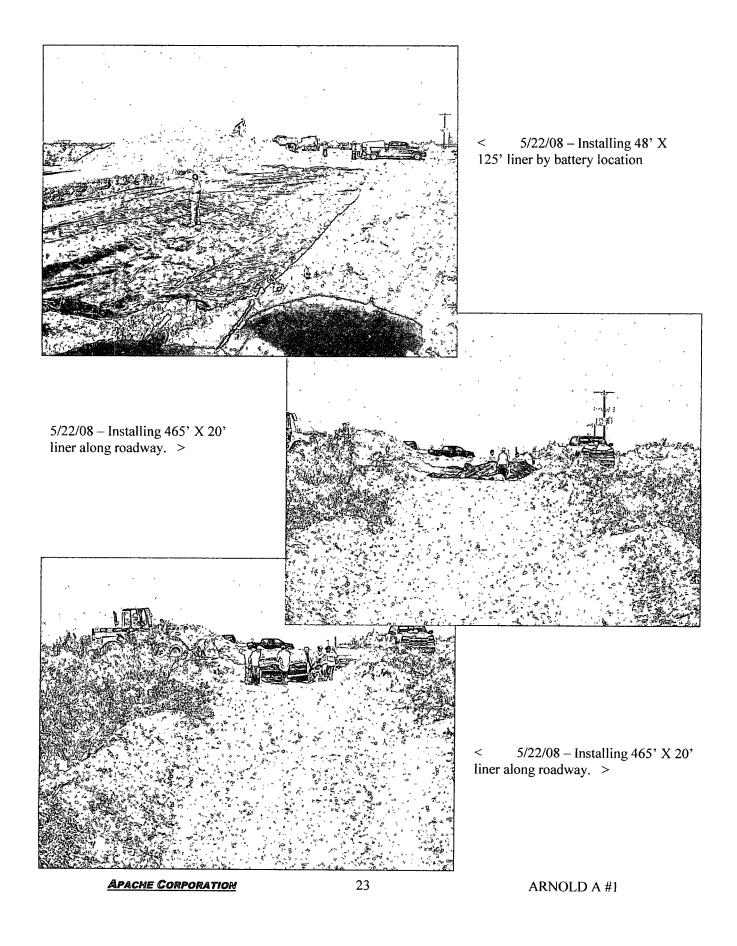
H14653 ELKE

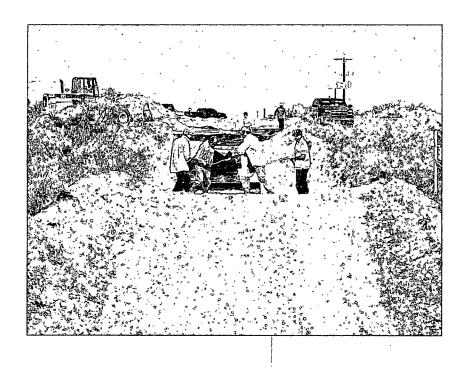
PLEASE NOTE Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deamed waived unless made in witting and received by Cardinal within thirty (4n) 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 affluence or successors arising out of or related to the periodictions because hereunder by Cardinal, lesses of whether such claim is based upon any of the above-station 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 Leboratories.

Diect Manager   JOHN GOOD   FO #	LA	RDINAL BORATORIES	3				ρ	HON	(505	393	2326 •	101 E MARLA	ND · HOBBS	NM 882	40							Sheet	. 0. 1		
Ideas   3508 WEST COUNTY RD   Company, Apache Corp   Y   HOB35   State NM   Zip   88241   Address PO Box 1849   Address PO Box 184	ompany Name.			TAL,	NC.							BILL TO						AN	ALYSIS	REQU	EST				
No.   HOBBS   State   NM   Zip   83241   Alth. Natalite Gladden   No.   Fax								_												}	}				ł
Second   S						200												l		1	1				l
Opect   Project Owner   APACHE CORP   City Eurice   Opect Name   ARNOLD A #   State   NM   Zip: 88231   Opect Location   UL-F \$11 720\$ R38E   Phone #.   350-4186   Fisx #   PRESERV   SAMPLING   PRESERV   SAMPLING   PRESERV   SAMPLING   PRESERV   SAMPLING   Opect   Date   Time   Time   Date   Time   Date   Time   Date   D															ŀ			!	į	ł					1
Sample   D.   Sample   D.												X 1649			ļ			ļ	ŀ	1					
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-6 BLD-2 G 1 X X 14-Apr X7 BLD-3 G 1 X X X 14-Apr X8 BLD-4 G 1 X X X 14-Apr X X9 BLD-5 G 1 X X X 14-Apr X X10 BLD-6 G 1 X X X 14-Apr X X11 BLD-7 G 1 X X X 14-Apr 3:00 X12 BLD-7 G 1 X X X 14-Apr X X13 BLD-7 G 1 X X X 14-Apr X X14 BLD-7 G 1 X X X X 14-Apr X X15 BLD-7 G 1 X X X X 14-Apr X X16 BLD-7 G 1 X X X X 14-Apr X X17 BLD-7 G 1 X X X X 14-Apr X X18 BLD-7 G 1 X X X X 14-Apr X X19 BLD-7 G 1 X X X X 14-Apr X X X10 BLD-7 G 1 X X X X X X X X X X X X X X X X X X						<del></del>			-						<del> </del>		<del> </del>	+	<del> </del>	+-	<del>                                     </del>	1			+
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EASE NOTE Liability and Damages Cardinar's liability and client's exclusive remedy for any claim ansing whether based on contract or tort, shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other	EASE NOTE Liability	and Damages Cardinate lianur	y and client's			mady 6	~ ***	Clevo			ND46 PO	ad an applyant	s Ind. shell be l	imiad la	the same	at add by	the ellect	for the s	nhuana A	II alama	ashuduna ti		agligance	and any	Ī
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use, or loss of profits incurred by client, its subsidianes, affiliates, or successors affiliates, or successors affiliates, or or eliated to the performance of services hereunder by Cerdinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise elinous shed by:    Phone Periods	1 1 1		/08	''		"	j. ,											<u>.                                    </u>		001-	72,7 (0.	dodaj			
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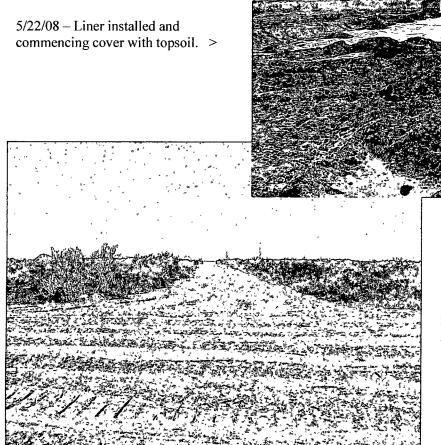








< 5/22/08 – Installing 465' X 20' liner along roadway. >



< 5/30/08 – 1000-ft + roadway remediation completed (photo from Merit well facing west.

#### State of New Mexico

District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Avenue, Artiesa, NM 88210

District [II

Energy Minerals and Natural Resources

Form C-14,1

Revised October 10, 2003

Submit 2 Copies to appropraite

1000 Rio Brazo	os Road, Aztec,	NM 87410		Oil Co	nservatio	n Division	-	I	Distnet Offi	ice in accordance
District IV						Francis Dr.			with f	Rule 116 on back
1220 S. St. Fra	ancis Dr., Santa	Fe, NM 8750			ta Fe, NN		· · · · · · · · · · · · · · · · · · ·			side of form
			Relaes	e Notificat	tion and	d Correctiv	e Action			
					OPER.	ATOR	V	Initial Report		Final Report
Name of Cor	npany	Apa	che Corpo	ration	Contact	-		Billy L Sto	ockton	
Address		POBox 1	50 Sundo	wnTx 79372	Telephon	e No.		806-893-	9575	
Facility Name	9		Arnold 'A'	#1	Facility T	уре		Temporary	Oil Tank	
Surface Own	er			Mineral Owne	er			API#	30-02	25-07761
				LOCATI	ON OF	RELEASE				
Unit Letter	Section	Township	Range	Feet from the	North	/South Line	Feet from the	East/Wes	t Line	County
F	11	208	38E	1980'		South	1980'	Wes	t	Lea
<del></del>	·		Latitude	N-32*3	5 360'	Longitude	W-10	3*7.295'		<del></del>
			Latitude	14-52-5	0.003	Longitude	W-10.	7.293		
				NATUF	RE OF F	RELEASE				
Type of Releas	se	C	il	Volume of Rele	ase	165	bbls	Volume Recover	red	40 bbls
Source of Rele	ase	Tank Sig	ht Guage	Date/Hour of O	ccurrence	12/16/20	07 3:00am	Date /Hour of Di	scovery	16th 9:00am
Was Immediat	e Notice Given?			If Yes, To Who	m?		*		······································	
✓ Yes	☐ No		Not Required				Larry Johns	on		
By Whom?		iuinn Burks		Date and Hour			12/17/07	7 3:00pm (me	essage)	
Was a Waterc	ourse Reached	-	`	If YES, Volume	Impacting:	the Watercourse.				
	Yes	V	No	L						
If a Watercours	se was impacted	d, describe Fu	ily*							
Describe Caus	e of Problem an	d Remedial A	ction Taken *	···	· · · · · · · · · · · · · · · · · · ·					
Rig had bee	n swabbing 1	A'd well int	o temporary		ght glass ered 40 bl		failed and er	nptied oil onto g	ground. 1	Vacuum truck
Describe Area	Affected and Cl	eanup Action	Taken.*							
Spill rap to	the East from	n Battery an	prox 1 000 t	ft on lease ros	ad Backl	noe is currentle	removina a	ontaminated so	il and ct	ook niling co
	plastic	on East end	d of site. Pla	ans are being	made to	remediate per	New Mexico	OCD requireme	ents.	
I herby certify the operators are re	nat the informati equired to repor	on given abov t and/or file ce	e is true and o rtain release r	complete to the b notifications and	est of my k perform cor	nowledge and un rec	derstand that p	ursuant to NMOCE	rules and	regulations all

Signature:	Billy L	Stoc	kton	Oil Conse	ervation Division
Printed Name:		Billy L Sto		Approved by the District Supervisor:	NGP OL
Title:	EH8	S Environr	nental Tech	Approval Date (2.19.07	Expiration Date. Z. (8.08
Email Address:	<u>billy.s</u>	tockton@ap	achecorp.com	Conditions of Approval:	Attached
Date:	12/17/2007 onal Sheets if Nece	Phone.	806-893-9575	SUBMITTINAL BY	00t (00

6	sardhre	Incident Date: 1	2/16/07	NMOC	O Notified:	12/17/07
	CORPORATION					
	ARNOLD A #1			API	No.	30-025-07761
Company:		ne Corporation				
Street Addr		Eunice Loop, Hwy 207				
Mailing Add		3ox 1849				
City, State,		e, NM 88231				
Representa	itive: Natal	e Gladden				
Representa	tive Telephone: 575-3	90-4186				
Telephone:					· · · · · · · · · · · · · · · · · · ·	
Fluid Volum	ne Released (bbl): > 16	55 Volume Recovered (bb	ol):	40	Net R	elease: > 125
	<del></del>	MOCD verbally within 24 hours and		41 within 1	15 davs.	
	-	within 15 days. (Also applies to una			-	l Gas)
Leak Spill	or Pit (LSP) Name:	ARNOLD A				
	Contamination:	Tank Sight			·····	
	r, i.e. BLM, ST, Fee, Other:	Private	Ouage	<del></del>		
LSP Dimen		~ 1000' X 10	,			
	310113.					
LSP Area	B. C	~ 10000 -ft <sup>2</sup>				
	Reference Point (RP):					· · · · · · · · · · · · · · · · · · ·
	stance and direction from RP:					
Latitude: No			30.619			
Longitude: \			8.164			
	bove mean sea level (amsl):	3591 fee	t 1095	meters		
	om North Section Line (feet):	1980				
Distance from	om West Section Line (feet):	1775			,	
Location - L	Jnit Letter and 1/4 1/4:	UL- F SE	1/4 of	NW 1	/4	
Location - S		11				
Location - T	ownship	20\$				
Location - F	Range	38E				
Location - C	County	Lea				
Surface wat	ter body within 1000' radius of	site: 0				
	ter body within 1000' radius of					·····
	rater wells within 1000' radius					
	rater wells within 1000' radius		•			
	water wells within 1000' radiu					
	water wells within 1000' radiu					<del></del>
	r supply wells within 1000' rad				******	
	r supply wells within 1000' rad				· · · · · · · · · · · · · · · · · · ·	
	from land surface to Ground		*****		<del></del>	
Depth (feet)	of lowest contamination (DC)	: 20				
	to Ground Water (DG - DC =					
Deptil (leet)	1. Ground Water	2. Wellhead Prote	otion Ar		2 Dieten	a to Curface Weter
		If <1000' from water so			ง. บารเสทิด	e to Surface Water
If Depth to 0	GW <50-feet: 20 points	from private domestic v		15	200 horizoi	ntal feet: 20 points
If Depth to 0	GW 50 to 100-feet: 10 points	20 points If >1000' from water so	urce, or,	>200' 2	00-1000 hc	orizontal feet: 10 points
If Depth to 0	GW >100-feet: 0 points	from private domestic v	water sou	rce: 0 >	·1000 horizo	ontal feet: 0 points
Ground Wa	ter Score: 20	Wellhead Protection So	core:	nls	Surface Wat	er Score: 0
	g (1 + 2 + 3): <b>20</b>					
	<del></del>	Ranking Score and Accepta	ble Con	centratio	ons	
Parameter	20 or >	10				0
Benzene <sup>1</sup>	10-ppm					
BTEX <sup>1</sup>		10-ppm				10-ppm
	50-ppm	50-ppm				50-ppm
TPH	100-ppm	1000-ppr	n			5000-ppm

## State of New Mexico Energy Minerals and Natural Resources

Form C-141

Revised June 10, 2003

District II

1301 W Grand Avenue, Artesia, NM 88210

1625 N French Dr , Hobbs, NM 88240

Distric III

1000 Rio Brazos Road, Aztec, NM 87410

District IV

1220 S St Francis Dr., Santa Fe, NM 87505

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 2 Copies to appropriate

District Office in accordance

with Rule 116 on back

side of form

	OPF	Re ERATOR	elease Notificat	tion :	and Co	rrectiv	e Act	ion	☐ Initia	I Report ☑ Fir	nal Report	
Name of Company Apache Corporation					Contact			Natalie Gladden				
Address P.O. Box 1849 Eunice, NM 88231					Telephone No. 575-390-4186							
Facility Name					Facility Type Oil Well							
Surface Owner Private Mineral Owner					r				T ,	API No. 3	0-025-07761	
Surrace o wher	11274110		LOCATI			LEAS	F.		<u> </u>	<u> </u>	0.0.01	
Unit Letter	Section	Township	Range		from	Feet		Longi	tude-W	Latitude-N	County	
		-	1 1		h Line	West Line					1	
F	11	<b>20S</b>	38E		980		1775		.1361	32.5103	Lea	
			NATUR					<b>L</b>			-1	
Type of Release	· · · · · · · · · · · · · · · · · · ·					of Rele			Volume	Recovered		
Produced Water w/ significant hydrocarbon component					Greater than 165 bbl		bbl	40 bbl				
Source of Release						d Hour of Occurrence Date and Ho				d Hour of Disc	overy	
Tank Sight Guage						12/16/07 3:00 AM 12/16/07 9:00 AM						
Was Immediate Notice Given?					If YES, To Whom?							
✓ YES NO Not Required					NMOCD - Hobbs - Larry Johnson							
By Whom? Billy L. Stockton					Date and Hour 12/17/07 3:00 PM							
Was a Watercourse Reached?					If YES, Volume Impacting the Watercourse							
☐ YES ☑ NO  If a Watercourse was Impacted, Describe Fully*						NA						
1	of Problem and R		n Taken. * ing failed. Vacuum	truck	recovere	d 40-bbl.						
The flow path ext spread out south: blending to <1000 completed by Occ I hereby certify that the report and/or file cent. NMOCD marked as " ground water, surface	and northeast. Ren p-ppm Cl and cove otillo Environment e information given ab- ain release notification Final Report" does no	timately 1100-ft mediation was a string with a 20-ral - Hobbs. al - Hobbs. true and corr is and perform corr t relieve the operat or the environmen	een. * along a sandy accomplished with comil polyvinyl plastic polete to the best of my rective actions for releasor of liability should the it. In addition, NMOCD	knowled knowle	tion/disp . Remedi dge and un ich may en abons have	osal of gration was derstand the danger put falled to a	rossly co s started nat pursua blic health adequately	ontamina d by ELk  int to NMO n or the en y investigat	ted soil, the Environment. The Environment. The Environment of Env	hen risk based onmental - Hoble dregulations all op The acceptance of diate contamination	closure with os, and erators are required to a C-141 report by the in that pose a threat to	
Signature:					OIL CONSERVATION DIVISION							
Printed Name:	rinted Name: Natalie Gladden					Approved by District Supervisor:						
Title:	Environn	nental Tech - l	Permian Basin			al Date:				on Date:		
E-Mail Address:	<u>Natalie</u>	.Gladden@us	sa.apachecorp.c	<u>om</u>	Conditi	ons of A	pprova	l:	1RP# 1:	590	Attached	
Date:	5/29/2009 F	Phone:	5753904186		l						LIAUGUIEU	