District I State of N 1625 N French Dr , Hobbs, NM 88240 Energy Minerals a District II 1301 W Grand Avenue, Artesia, NM 88210							ral Resou	irces RECI	IVE		Form C-141 evised June 10, 2003		
Distric III	enue, Artesia, Nivi o	5210		Oil Co	nserva	ation D	vision	NOV 2	3 2009	Submit 2 C	Copies to appropriate		
1000 R10 Brazos R	oad, Aztec, NM 874	10		1220 Sc	outh S	t. Frai	ıcis Dr.	HOBB	SOCE	District	Office in accordance		
District IV			Sant	ta Fe,	NM 87	/505		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	wi	th Rule 116 on back			
1220 S St Francis	Dr, Santa Fe, NM 8	7505							·		side of form		
	OP	PERATO		lease Notifica	ation a	and Co	rrective	Action	🔽 Initia	Report 🔽 Fina	al Report		
Name of Comp	any	Apa	che Co	orporation		Contact	· · · · · · · · · · · · · · · · · · ·	Natali	e Gladder				
Address	P.O. Box 18			Eunice, NM 8823	1	Telepho			0-4186				
Facility Name			MGSA	AU #368		Facility	Туре	Tank	Battery				
Surface Owner	State of	NM		Mineral					<i>I</i>	API No. 30	-025-38459		
	<u> </u>	an	1.						•. 1 •••				
Unit Letter	Section	Town	ship	Range		from Line	Feet from East Lir		itude-W	Latitude-N	County		
0	19	19	S	37E	-0.0.000	60	2420	10	3.2892	32.6409	Lea		
				NATU				I			•		
Type of Release	e		• . •				of Release	•	Volume	Recovered			
Drilling Brine						Greate		45 bbl	<u> </u>	5	bbl		
Source of Relea								Occurrence	Date and Hour of Discovery				
	osed-loop conta	inment v	essel				2/22/07 9:0			12/22/07 9:0	0AM		
Was Immediate	Ver v		Г	Not Required		II YES,	To Whom		illiams - I	NMOCD			
By Whom?		Billy L. S	tockton			Date an	d Hour			07 12:45PM			
Was a Waterco						If YES,	Volume In	npacting the					
		VES		✓ NO		NA				····			
	e was Impacted,												
	ack volume durin				f closed	loon sys	tem canacit	v. Drilling h	ine was re	leased onto loca	tion (well pad)		
	heast off location												
within bermed a	rea. Well was cen	nented an	d flow b	back ceased.									
Describe Area	Affected and Cle	anup Ac	tion Tak	ken. *									
affected area wa	25-bbl of brine wa s ~21,000-ft2. We ncentration by Oo	ll pad are	a was bl	lended to mitigat	e chlori				-				
to report and/or file on NMOCD marked as ground water, surfact	the information given certain release notifica "Final Report" does r ce water, human heal or local laws and/or re	ations and p not relieve t th or the er	erform co he operate	or rective actions for re or of liability should the	eleases wi neir opera	hich may e tions have	ndanger public failed to adeq	health or the e uately investiga	nvironment	The acceptance of a diate contamination	a C-141 report by the that pose a threat to		
Signature:	latoio,1	20	Ad	nn			0	IL CONSE	RVATIO	N DIVISION			
Printed Name:	1	Natali	e Glac	dden		Approv		. ENGINE		Les Dron P	Dema		
Title:	Environ	mental	Гесh - I	Permian Basin			al Date: 05		Expiratio	on Date:	B		
E-Mail Address	:: <u>Natali</u>	e.Gladd	en@us	a.apachecorp.	<u>com</u>	Conditio	ons of App	roval:		1701, 1746			
Date:	6/24/2009	Phone:	-	575-390-4186							Attached		



RECEIVED NOV 2 3 2009 HOBBSOCD

NMGSAU #368 REMEDIATION C141 CLOSURE REPORT

API 30-025-38459

UL-O (SW¼ OF THE SE¼) OF SECTION 19 T19S R37E LATITUDE: N 32° 38.454' LONGITUDE: W 103° 17.353' ~1.88 MILES NW (BEARING 308.5°) OF MONUMENT LEA COUNTY, NEW MEXICO

NMOCD 1RP #1701; #1746

June 24, 2009

PREPARED FOR APACHE CORPORATION BY:

OCOTILLO ENVIRONMENTAL, LLC JOHN GOOD, PROJECT MANAGER/CONSULTANT 2125 FRENCH DR. HOBBS, NM 88241 OFFICE: (575) 393-6371 J. GOOD: (575) 631-3277

APACHE CORPORATION

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

ς.

ATTACHMENTS	7-29
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
Analytical Results Summary Table	13
Cardinal Laboratory Analytical Reports	14-21
Photographs	22-25
Initial NMOCD C-141 Form (12/28/07 1RP 1701)	26
Initial NMOCD C-141 Form (1/10/08 1RP 1746)	27
Site Metrics Information	28
Final NMOCD C-141 Form	29

1.0 Project Summary

Release Site Name:	NMGSAU #368	
Operating Company:	Apache Corporation	
Company Representative:	Natalie Gladden, Environmental Teo	ch Phone: 575-390-4186
Address: PO Box 1849, Eun	ice, NM 88231 Email: Natalie.G	ladden@usa.apachecorp.com
Remediation Company:	Environmental Plus, Inc Eunice	Phone: 575-394-3481
Remediation Company:	Ocotillo Environmental - Hobbs	Phone: 575-738-0138

SITE SPECIFIC DATA:

Legal Description:	Lea County, N	New Mexico	UL-O Section 19 T19S R37E					
General Location:	1.9 miles NW	1.9 miles NW (308.5°) of Monument, NM.						
Latitude: N32° 38.454'	Longitude: W	Longitude: W103° 17.353' Elevation: 3,665-ft a						
Land Ownership:	State of NM	State of NM						
Ground Water Elevation:	60-ft bgs (Mo	nitor Well)						
Water Wells within 1000-ft:	none	Surface Water	r within 1000-ft: none					

RELEASE SPECIFIC DATA:

Date and Time of Release(s)	: 12/22/07 – 9:00 AM	
Material Released:	Drilling Brine Water	
Volume Released:	~45-bbl	Volume Recovered: 5-bbl
Cause of Release:	Closed-loop tank over	rflow during well logging
Release Affected Area:	$\sim 21,000$ -ft ²	
Depth of Contamination:	13-ft bgs	
NMOCD Site Ranking:	20 (ground water <50	-ft below lowest contamination)
Remediation Action Levels	<u>:</u> TPH: 100-ppm; Benz	ene: 10-ppm; BTEX: 50-ppm; Cl – 250-ppm

REMEDIATION SUMMARY:

Remediation of the release site consisted of the excavation and disposal of $\sim 4,200$ -yd³ of soil contaminated >1000-ppm chlorides. Disposal was at Sundance Services. Chloride contaminated soil (<1000-ppm Cl) that was not disposed of was blended with clean backfill caliche to achieve chloride concentrations of <250-ppm. The excavation was backfilled with the blended caliche and then with 3-ft of clean topsoil. A monitor well drilled within the release affected area indicated a water depth of 60-ft bgs and a water chloride concentration of 50-ppm. The project was completed on July 11, 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 Laguna Valley physiographic subdivision, described by Nicholson & Clebsch as "covered almost entirely by dune sand which is stable or semistable over most of the area, but which locally drifts. The surface is very irregular and has no drainage features except at the edges of several playas. The sand is generally underlain by recent alluvium but in several places the sand forms topographic highs where it is underlain by a caliche surface. The thickness of the sand cover ranges from a few inches to a probable maximum of 20 feet."

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 within the pasture release area measures 60-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 brine water release during the well logging operation. The areal extent of the excavated release was \sim 21,000-ft².

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

APACHE CORPORATION

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) \geq

Acceptable thresholds for contaminants/constituents of concern (CoCs), i.e., TPH^{8015m}, Benzene, and the mass sum of Benzene, Toluene, Ethyl Benzene, and total Xylenes (BTEX⁸²⁶⁰). 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 hodies.

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. GROL	IND WATER	2. WELLHEAD PROTECTION	3. DISTANCE TO SURFACE WATER				
	GW <50 FEET: POINTS	IF <1000' FROM WATER SOURCE, OR; <200' FROM PRIVATE DOMESTIC	<200 HORIZONTAL FEET: 20 POINTS				
	V 50 TO 99 FEET: POINTS	WATER SOURCE: 20 POINTS	200-1000 HORIZONTAL FEET: 10 POINTS				
	W >100 FEET: POINTS	IF >1000' FROM WATER SOURCE, OR; >200' FROM PRIVATE DOMESTIC WATER SOURCE: 0 POINTS	>1000 HORIZONTAL FEET: 0 POINTS				
GROUND WA	TER SCORE = 20	WELLHEAD PROTECTION SCORE= 0	SURFACE WATER SCORE= 0				
		SITE RANK (1+2+3) = 20 + 0 + 0 = 20 POINTS					
	TOTAL SITE RANK	NG SCORE AND ACCEPTABLE REMEDIAL GOAL	CONCENTRATIONS				
PARAMETER	20+	10	0				
BENZENE	10 ррм	10 PPM	10 ррм				
BTEX	50 ррм	50 PPM	50 PPM				
TPH	100 PPM	1000 PPM	5000 PPM				

SITE RANKING TABLE

5.0 Remediation Process

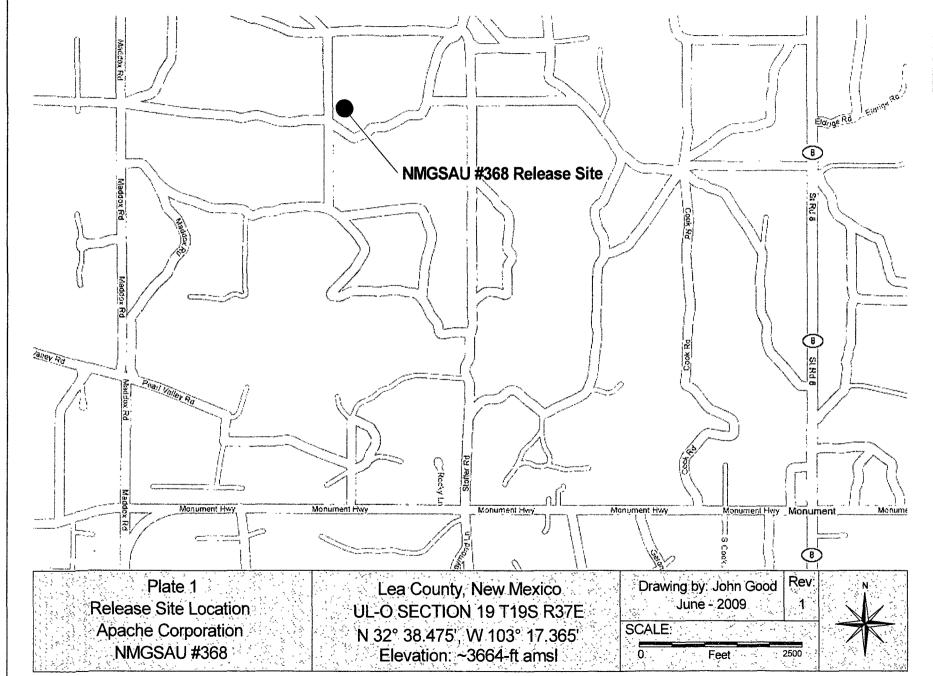
Prior to the commencement of excavation operations, two delineation boreholes were drilled at the site. A monitor well was drilled and installed on the shelf between the west and east excavations. This borehole was sampled at 5-ft intervals down to 40-ft bgs, where field analyses indicated chloride concentrations <100-ppm. The monitor well was extended beyond the 60-ft water depth and developed for sampling. The water sample obtained indicated ~50-ppm chlorides. Another borehole was drilled south of the affected release area and delineated at 5-ft intervals down to 25-ft bgs. These background chloride concentrations ranged from 270-ppm at 5-ft down to 32-ppm at 25-ft bgs.

Remediation of the release site consisted of the excavation and disposal of \sim 4,200-yd³ of soil contaminated with >1000-ppm chlorides. Disposal was at Sundance Services. Chloride contaminated soil (<1000-ppm Cl) that was not disposed of was blended with clean backfill caliche to achieve chloride concentrations of <250-ppm. Ten bottom samples and fourteen sidewall samples were obtained to confirm bottom and sidewall chloride concentrations of <250-ppm. The excavation of the east sidewall was limited due to the presence of a DCP Midstream natural gas pipeline. The excavation was extended to within 5-ft of the pipeline, and chloride concentrations <500-ppm were achieved on this east wall. Three sequential composite samples (15-ft, 10-ft and 5-ft) of the blended backfill were obtained during the backfill operation. All blended samples were <100-ppm chloride concentration. After the blended caliche backfill was completed, three additional feet of clean topsoil was placed and contoured. The project was completed on July 11, 2008.

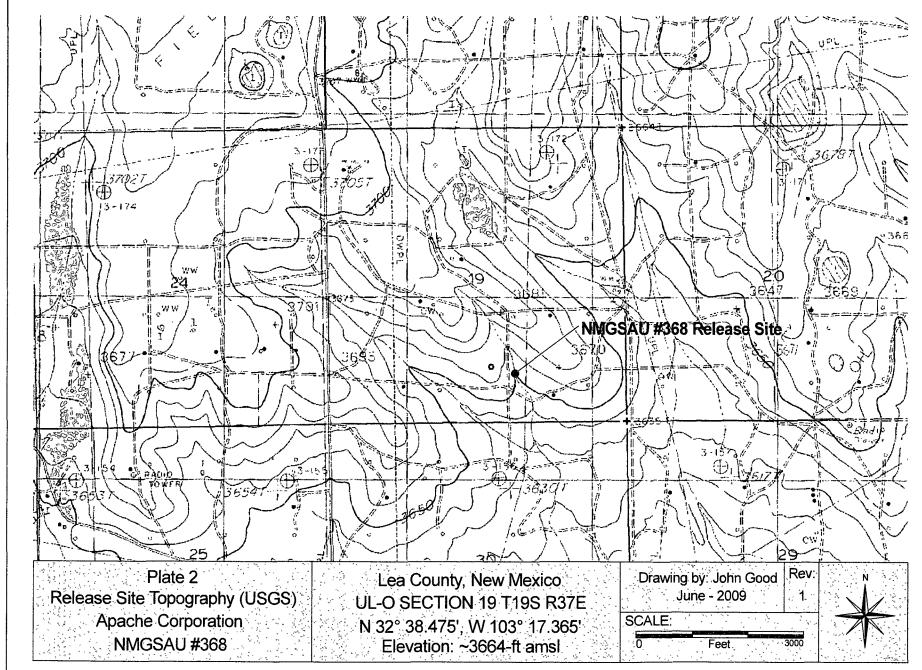
Based on the contents and data contained herein, Apache Corporation requests that NMOCD require "no further action" as regards the soil contamination resulting from the 12/22/07 drilling brine release at the NMGSAU #368 well location.

ATTACHMENTS

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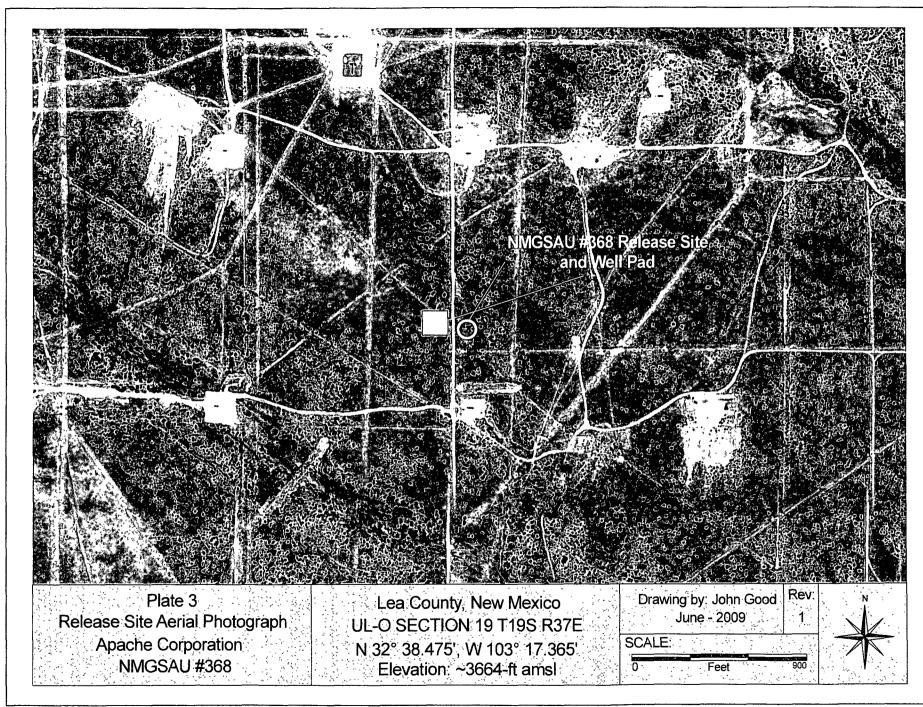


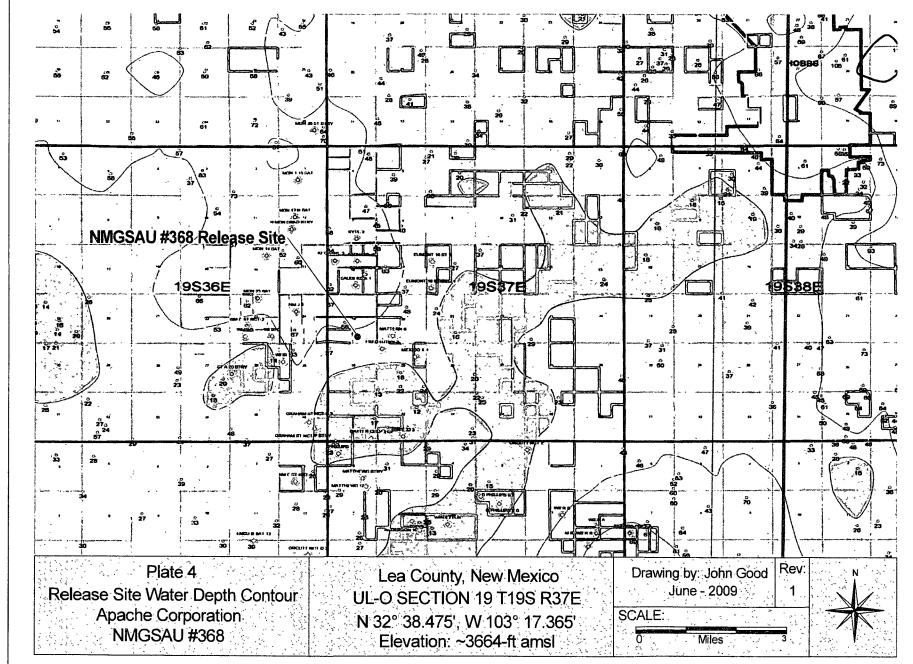
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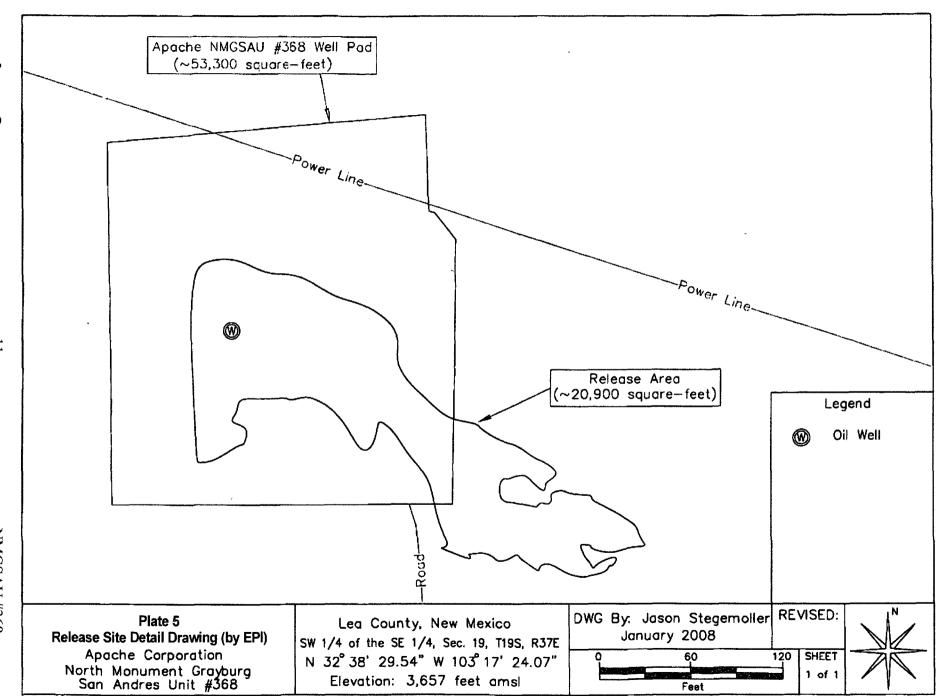
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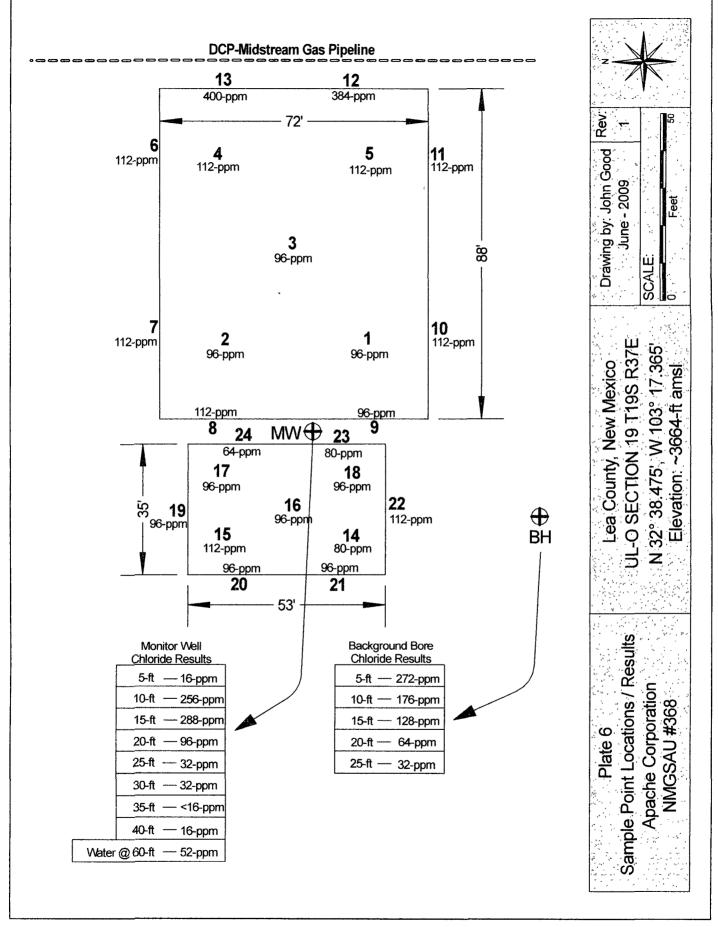




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APACHE		/IGSAU 368:	LABORATOR	Y ANALYTIC	AL RESULT	S SUMMAR	TABLE
Sample Number	Sample Depth	Sample Location	Chlorides mg/Kg	Sample Number	Sample Depth	Sample Location	Chlorides mg/Kg
*BH1-5	5-ft	Borehole	16	SP-9	10-ft	East SideWall	96
BH1-10	10-ft	Borehole	256	SP-10	10-ft	East SideWall	112
BH1-15	15-ft	Borehole	288	SP-11	10-ft	East SideWall	112
BH1-20	20-ft	Borehole	96	SP-12	10-ft	East SideWall	384
BH1-25	25-ft	Borehole	32	SP-13	10-ft	East SideWall	400
BH1-30	30-ft	Borehole	32	SP-14	12-ft	West Bottom	80
BH1-35	35-ft	Borehole	16	SP-15	12-ft	West Bottom	112
BH1-40	40-ft	Borehole	16	SP-16	12-ft	West Bottom	96
**BG-5	5-ft	Borehole	272	SP-17	12-ft	West Bottom	96
BG-10	10-ft	Borehole	176	SP-18	12-ft	West Bottom	96
BG-15	15-ft	Borehole	128	SP-19	7-ft	West SideWall	96
BG-20	20-ft	Borehole	64	SP-20	7-ft	West SideWall	96
BG-25	25-ft	Borehole	32	SP-21	7-ft	West SideWall	96
SP-1	15-ft	East Bottom	96	SP-22	7-ft	West SideWall	112
SP-2	15-ft	East Bottom	96	SP-23	7-ft	West SideWall	80
SP-3	15-ft	East Bottom	96	SP-24	7-ft	West SideWall	64
SP-4	15-ft	East Bottom	112	BLEND 1	15-ft	Comp	80
SP-5	15-ft	East Bottom	112	BLEND 2	10-ft	Comp	80
SP-6	10-ft	East SideWall	112	BLEND 3	5-ft	Comp	64
SP-7	10-ft	East SideWall	112	CALICHE	NA	Comp	16
SP-8	10-ft	East SideWall	112	Monitor Well	60-ft	Water	52

*Monitor well drilled into contaminated zone; **Background borehole south of excavation

-



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

Receiving Date: 05/01/08 Reporting Date: 05/02/08 Project Owner: APACHE CORP. Project Name: NMGSAU #368 Project Location: UL-O S19 T19S R37E Analysis Date: 05/01/08 Sampling Date: 05/01/08 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: ML Analyzed By: KS

		CI
LAB NUMBER	SAMPLE ID	(mg/kg)
H14734-1	BH1-5	16
H14734-2	BH1-10	256
H14734-3	BH1-15	288
H14734-4	BH1-20	96
H14734-5	BH1-25	32
H14734-6	BH1-30	32
H14734-7	BH1-35	< 16
H14734-8	BH1-40	16
H14734-9	BG-5	272
H14734-10	BG-10	176
H14734-11	BG-15	128
H14734-12	BG-20	64
H14734-13	BG-25	32
Quality Control		500
True Value QC		500
% Recovery		100
Relative Percen	t Difference	< 0.1

METHOD: Standard Methods 4500-CIB Note: Analyses performed on 1:4 w:v aqueous extracts.

Bist Superto Chemist

05/02/08 Date

H14734 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 chent 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 limitaton, business interruptions, loss of use, or loss of profits incurred by client, its subsidianes, affiliates or successors ansing out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise relate only to the samples identified above. This report shall not be reproduced except in full writh written approval of Cardinal Laboratories.

LA	RDINAL BORATORIES										_	101 E MARLA	ND · HOBB									Shee	t 1 of 1		
Company Name:	ELKE ENVIR		AL,	NĊ.								BILL TO	ألبين بين بسايرة بريانة	1				AN	ALYSIS	REQU	EST	Name and Address of the Owner, which the Ow			-
roject Manager:	JOHN GOOD							P.C).#						1				[Γ	Ĩ	1	T	T	Т
ddress:	3506 WEST C											che Corp]	1						1				
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hone #: Project #:	575-738-0138 Project Owner	Fax #			738- E C(unic		ox 1849		4	1			[ł					
roject Name:		NMGSA				JAF		Sta			IM I	Zip;	88231	-	1]		[1						
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Sampler Name:		JOHN C						Fa>						1	1			1			1				
		1 S	Т	L	M	ATR	X		PF	RESI	ERV	SAMP	PLING]									1		
Lab I.D.	Sample I.D.	GRAR OR (CIOME	# CONTAINERS	GROUND WATER	MASTEWATER	SOIL	SLUDGE	OTHER	ACID/BASE	ICE/COOL	OTHER:	DATE	TIME	TPH ⁸⁰¹⁵	BTEX	Chlorides									
н 14734 -1	BH1-5	C		Ť		X						1-May	8:30		1	X									1
-2	BH1-10	G	1			X						1-May				X							T		Т
-3	BH1-15	10	1	Γ	Π	X			Γ	Γ		1-May		1	1	X	1			1	T	T	T	1	T
-4	BH1-20	- 10	1	t		х				T		1-May			1	X	1		1			1			1
-5	BH1-25	6	1			X			F			1-May				X				<u> </u>	1	1	+	1	1
-6	BH1-30	- 10	1	\mathbf{T}		X	-					1-May			1	X				1		1		<u>†</u>	1
-7	BH1-35	- 0	1			X	-		┢╴			1-May			+	X	<u> </u>		<u>†</u>	<u>†</u>		+	+	<u>†</u>	1
-8	BH1-40		1	1		X		-	T	t		1-May		1	1	X	<u>† – – – – – – – – – – – – – – – – – – –</u>	1	1	<u>† – – – – – – – – – – – – – – – – – – –</u>	1	1-	+	<u>†</u>	1
-9	BG-5		1	T		X			Γ	T	1	1-May		1	1	X			1	1	1	1	1	1	1
-10	BG-10	- 10	11	1		X			F	Γ		1-May		1	1	X	1	<u> </u>	1	1		1	1	1	1
-11	BG-15	- 6	1	Ť		X				Г		1-May		1		X	1		1		1	1	1	1	1
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-13	BG-25	G	1	Γ		X				Г	Т	1-May	11:00	T		X	1	1		1	1	†	1	1	1

PLEASE NOTE Liability and Damages Cardinal's lebility and dient's exclusive remedy for any data marking whether based on contract or tori, shall be limited to the amount paid by the client for the analyses All claims, including those for negligence and any other cause whatsoever, shall be deemed waved unless made in writing and received by Cardinal within 30-days affiner completion of the applicable service in no event shall Cardinal be liable for incidental or consequential damages, including without limitable, business interruptions, loss of use_ot loss of profits incurred by cleint, its subsidiaries, affiliates, or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise

	Relinguished by: // /		Received By:		Phone Result:	Yes 🗹 No	Add'l Phone#:	631-3277 (J. Good)
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ANALYTICAL RESULTS FOR OCOTILLO ENVIRONMENTAL, LLC ATTN: JOHN GOOD P.O. BOX 1816 HOBBS, NM 88241

Receiving Date: 07/11/08 Reporting Date: 07/14/08 Project Owner: APACHE CORP. Project Name: NMGSAU #368 Project Location: UL-O S19 T19S R37E Analysis Date: 07/14/08 Sampling Date: 07/08/08 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: KS Analyzed By: KS

		C
LAB NO.	SAMPLE ID	(mg/kg)
H15145-1	E-BHSW-15	96
H15145-2	E-BHNW-15	96
H15145-3	E-BHC-15	96
H15145-4	E-BHNE-15	112
H15145-5	E-BHSE-15	112
H15145-6	E-NSW-E	112
H15145-7	É-NSW-W	112
H15145-8	E-WSW-N	112
H15145-9	E-WSW-S	96
H15145-10	E-SSW-W	112
H15145-11	E-SSW-E	112
H15145-12	E-ESW-S	384
H15145-13	E-ESW-N	400
H15145-14	W-BHSW-12	80
	· · · · · · · · · · · · · · · · ·	
Quality Cont		500
True Value C	<u>2C</u>	500
% Recovery		100
Relative Per	cent Difference	< 0.1

METHOD: Standard Methods 4500-CIB Note: Analyses performed on 1:4 w:v aqueous extracts.

the Suprato

07/15/08

H15145 OCO

PLEASE NOTE Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim ansing, 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 subsidtanes, affiliables or successors ansing out of or related to the performance of services hereunder by Cardinal, regardless of whether successors ansing otherwise. This report shall not be reproduced except in full with written approval of Cardinal Laborationes.



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ANALYTICAL RESULTS FOR OCOTILLO ENVIRONMENTAL, LLC ATTN: JOHN GOOD P.O. BOX 1816 HOBBS, NM 88241

Receiving Date: 07/11/08 Reporting Date: 07/14/08 Project Owner: APACHE CORP. Project Name: NMGSAU #368 Project Location: UL-O S19 T19S R37E Analysis Date: 07/14/08 Sampling Date: 07/08/08 & 07/10/08 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: KS Analyzed By: KS

		C
LAB NO.	SAMPLE ID	(mg/kg)
H15145-15	W-BHNW-12	112
H15145-16	W-BHC-12	96
H15145-17	W-BHNE-12	96
H15145-18	W-BHSE-12	96
H15145-19	W-NSW	96
H15145-20	W-WSW-N	96
H15145-21	W-WSW-S	96
H15145-22	W-SSW	112
H15145-23	W-ESW-S	80
H15145-24	W-ESW-N	64
H15145-25	BLEND-1	80
H15145-26	BLEND-2	80
H15145-27	BLEND-3	64
H15145-28	CALICHE	16
Quality Conti		500
True Value C	<u>N</u>	500
% Recovery		100
relative Per	cent Difference	< 0.1

METHOD: Standard Methods 4500-CIB Note: Analyses performed on 1:4 w:v aqueous extracts.

Kista Ausido Chemist

07/15/08 Date

H15145 OCO

PLEASE NOTE. Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim ansing, 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 subsidianes, affiliates or successors ansing out of or related to the performance of 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 Laboratones.

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ompany Name:	OCOTILLO EN	VIRON	NEN'	TAL								BILL TO						 AN	ALYSI	REQ	JEST				-
roject Manager.	JOHN GOOD							P.O.	#						1	T		1	1	1	T	T	T	l	T
ddress:	2125 N. FRENC											he Corp]						1					
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hone #	575-631-3277	Fax #										ox 1849		_											
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roject Name: roject Location:		IMGSA			-			Stat Pho		N	M	Zip.	88231 0-4186	-					1			1	[
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-3	E-BHC-15	G	1	Γ		X				X		8-Jul					X				1	<u> </u>	1		T
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PLEASE NOTE Liability and Damages Cardina's liability and cleants exclusive remedy for any claim arising whether based on contract or tort, shall be limited to the amount pad by the cleant for the analyses All claims, including these for negloance and any other cause whatsoever, shall be limited to the amount pad by the cleant for the analyses All claims, including whose for negloance and any other cause whatsoever, shall be deemed waived unless made in writing and received by Cardinal within 30-days afther completion of the applicable service. In no event shall Cardinal be lable for incidental or consequential damages, including without limitation, business interruptors, loss of use, or loss of profits incurred by client, its subsidiance, affiliates, or successors areing out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated measons or otherwise.

Relipquished by:	Date.	Received By.	_	Phone Resul	t 🗸 Yes	No	Add'l Phone#	631-3277 (J. Good)
	7/11/08	11-1		Fax Result:	Yes	⊻ No	Add'l Fax #.	
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Project Manager:	JOHN GOOD						P	0 #	1						ŀ	T	T		r		T	1	1	T
Address:	2125 N. FRENCH										che Corp													
City:	HOBBS State. NM		Zip		8824	1					adden					1		ł		ł				
Phone #:	575-631-3277 Project Owner.	Fax #		CHE	0.00	-		idre		and the second second	ox 1849				1		1							
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-24	W-ESW-N	G	1			ĸ			2	< <u> </u>	8-Jul	9	:00		X		<u> </u>	L						
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		No VNo	PS	Note: Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476



ANALYTICAL RESULTS FOR OCOTILLO ENVIRONMENTAL, LLC ATTN: JOHN GOOD P.O. BOX 1816 HOBBS, NM 88241

Receiving Date: 07/18/08 Reporting Date: 07/21/08 Project Owner: APACHE CORP. Project Name: NMGSAU #368 Project Location: UL-O S19 T19S R37E Analysis Date: 07/18/08 Sampling Date: 07/16/08 Sample Type: GROUNDWATER Sample Condition: INTACT Sample Received By: KS Analyzed By: KS

		CI
LAB NO.	SAMPLE ID	(mg/L)
H15194-1	MONITOR WELL	52
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Quality Con		500
True Value		500
% Recovery		100
Relative Pe	rcent Difference	< 0 1
	Indard Methods	4500-CI B

Chemist Andredo

07/21/08 Date

H15194 OCO

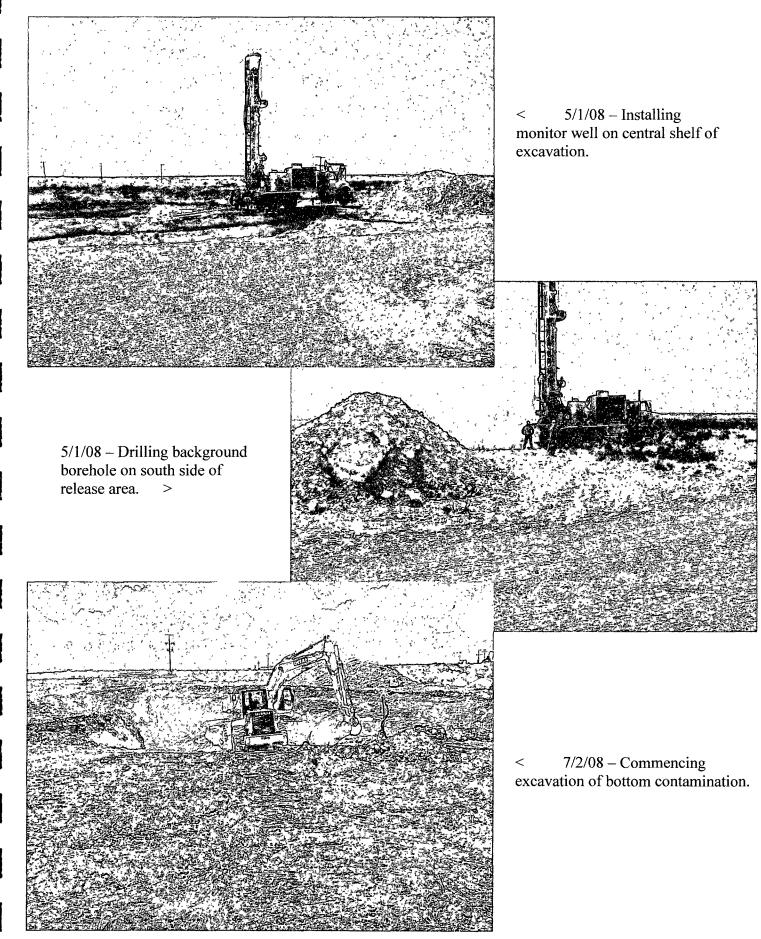
PLEASE NOTE Lability and Damages Cardinal's liability and client's exclusive remedy for any claim ansing, whether based in contract or tort, shall be limited to the amount paid by client for analyses All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless 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 imitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidianes, affiliates or successors ansing out of or related to the performance of 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

APACHE CORPORATION

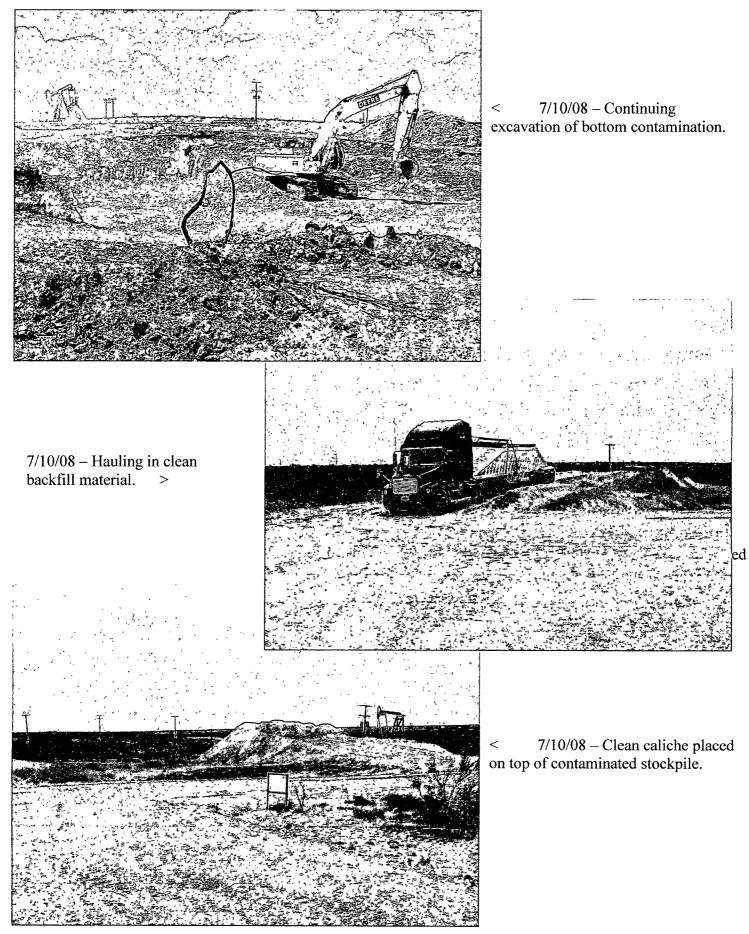
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Lab I,D.	Sample I.D.	(G)RAB OR (C)C	# CONTAINERS	GROUND WATER	WASTEWATER	SOIL	SLUDGE	OTHER	ACID/BASE	ICE/COOL	OTHER:	DATE	TIME			Chloride									
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Interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates, or successors ansing out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise

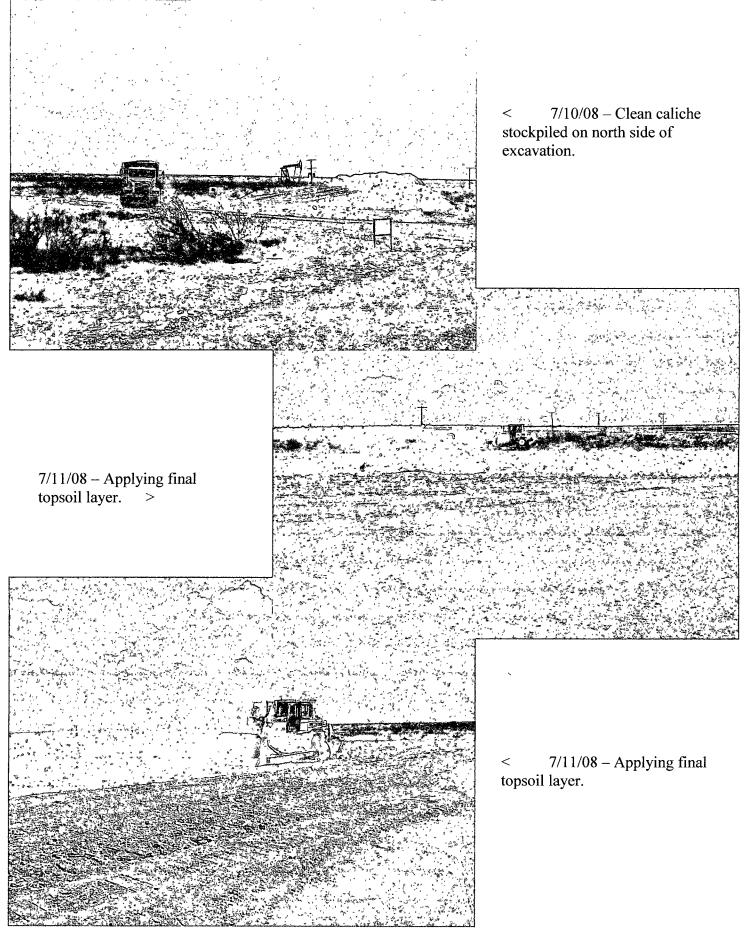
Relinquished by:	Date: 7/18/08	Received By:		Phone Result: Yes No. Add'l Phone#: 631-3277 (J. Good) Fax Result: Yes Yos No. Add'l Fax #:
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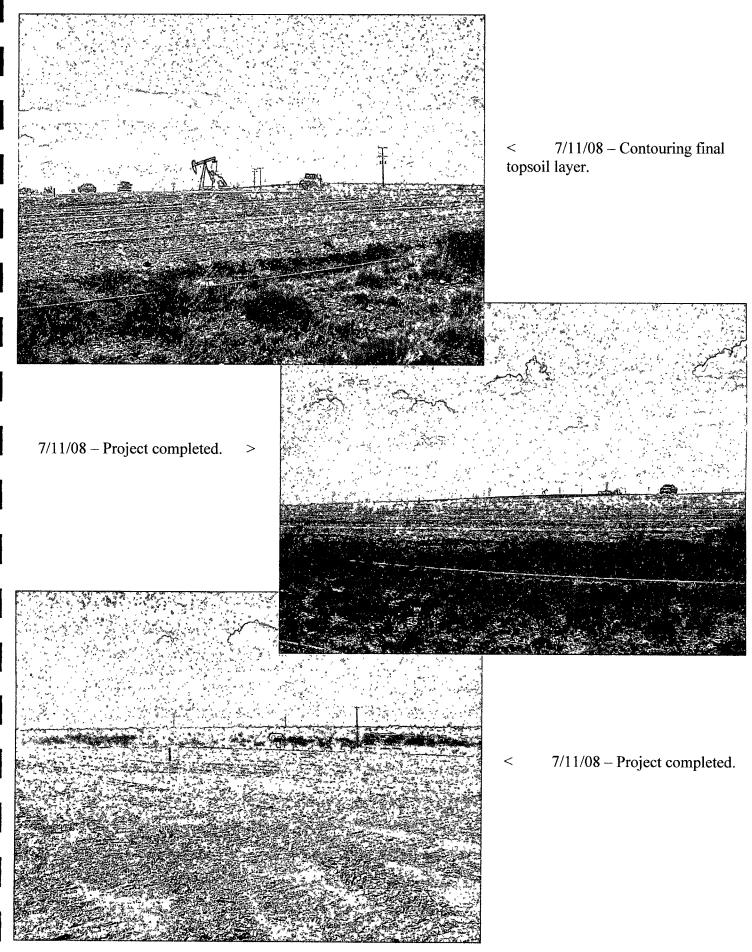
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<u>District II</u> 1301 W. Grand <u>District III</u> 1000 Rio Brazo <u>District IV</u>	n Dr., Hobbs, Ni I Avenue, Arties os Road, Aztec,	sa, NM 88210 NM 87410		Energy Miner Oil Co 1120 S	outh St. Francis Dr.	NUV 232 NUV 232 HOBBS(UU9 Submit 2 Co District O	ctober 10, 2003 pies to appropraite ffice in accordance i Rule 116 on back
1220 S. St. Fra	incis Dr., Santa	Fe, NM 8750	and the second se		ta Fe, NM 97505			side of form
			Relaes	e Notifica	tion and Correct	ive Action		
					OPERATOR		nitial Report	Final Report
Name of Con	npany		che Corpo		Contact		Billy L Stockton	
Address				260 Lub,Tx	Telephone No.	R	806-893-9575	At
Facility Name	}	r	IMGSAU #	808	Facility Type	<u>N</u>	ew well drilling loca	luon
Surface Own	er	Jimmy	Cooper	Mineral Owne	ər	······	API # 30-1)25-38459
				LOCAT	ION OF RELEAS	E		
Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
	19	19S	37E	1060'	South	2420'	East	Lea
	15	185	5/2	1000		2420		Lea
			Latitude		Longitud	de		
				NATU	RE OF RELEASE			
Type of Releas	ie		g Brine	Volume of Rele	ease	45	Volume Recovered	25
Source of Rele			ell bore	Daste/Hour of		2:30 PM	Date /Hour of Discovery	9:00 AM
	e Notice Given?	, 	Net Dogurod	If Yes, To Who		0 @ 19.45	Their colled book 10/01	0 0 d0 am
	Billy L.	Stockton	Not Required		12-22-07 12		Chris called back 12/2	5 @ 2:42 pm
	purse Reached		<u>`</u>		Impacting the Watercour			· · · · · · · · · · · · · · · · · · ·
	Yes		No					
If a Watercours	se was Impacte	d, describe Fu	lly*					
Describe Caus	e of Problem ar	nd Remedial A	ction Taken *					
							handle it. Brine spille s kept fluid recovered	
and fair 5								
Describe Area	Affected and Cl	eanup Action	Taken.*					
Backhoe bl	ended effecte	ed area on l	ocation. Pa	sture area wa	s left until contact wi	th land owner.	Apache Drilling Dept. I	nas taken over
	the cl	lean-up proj	ect at this t	me. Contact	info for Drilling Dept.	is Harold Swair	n @ 505-390-4368.	
							irsuant to NMOCD rules ar	
operators are r	equired to repor	t and/or file ce	ertain release r	notifications and	perform corrective actions	s for releases which	n may endanger public hea of liability should their ope	Ith or the
to adequately in	nvestigate and r	emediate con	tamination tha	t pose a threat to	o ground water, surface wa	ater, human health	or the environment. In add	tition, NMOCD
acceptance of a	a C-141 report o	toes not reliev	e the operator	of responsibility	for compliance with any c	other federal, state,	or local laws and/or regula	tions.
						il Conserv	ation Division	
Signature:	Bill.	L.St	rolton		≚		N N N N N N N N N N N N N N N N N N N	
	10 00 0g					a	ohuson	
Printed Name:	1	Billy L'S	Stockton		Approved by the District	ENNEMIN		
						_		
Title [.]	<u> </u>	Environm	ental Tech		Approval Date 1.2.	08 (Expiration Date: 3.3.	<u>08</u>
Email Address:	billy	.stockton@	apachecorp	.com	Conditions of Approval:		Attached	
Date:	12/28/2007	Phone:	806-8	93-9575	SUBALT FIN	nc C 141		
	nal Sheets if Ne				Document		77	12.7.1
					· ····································	LINE DU	KP	#1701

<u>District I</u> 625 N French Dr., <u>District II</u> 301 W. Grand Ave District III				Energy Mine	rals	New Mexico and Natural R vation Divisi	csources		Submit		Form C-141 ed October 10, 2003	
000 Rio Brazos Ro District JV	ad, Aztec,	NM 87410				St. Francis			Distri	ict Ofl	fice in accordance Rule 116 on back	
220 S. St. Francis I	Dr., Santa H	Fe, NM 87505		San	ta Fe	e, NM 87505					side of form	,
	1	nformat	ional -	· Release No	otifi	cation and	l Corro					
			~~~	OPERAT					al Report		Final Report	1
Name of Co Address: P.						Contact: Ha Telephone N			2211		· · · · · · · · · · · · · · · · · · ·	
Facility Nar Andres Unit	ne: No	rth Monun	nent Gr			Facility Typ	All statements and statements		New Well)	>T #3	0-025-38459	
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Surface Ow	ner: St	ate of New	/ Мехи	o Mineral (	Jwn	er:			Lease I	No.:		
						)F RELEAS				r		1
Unit Letter 1 O	Section 19	Township 19S	Range 37E	Feet from the 1,060	Not	-th/South Line South	Feet from 2,420		East/West Li East	ne	County Lea	
		Lati	tude: <u>}</u>	<u>1 32° 38' 29.54</u>	<u>4"</u> L	ongitude: <u>W</u>	<u>103° 17</u>	<u>" 24.(</u>	<u>)7"</u>			
		·····		NATUR	E OI	RELEASE		L.1			4. > 6 11 1	
Type of Release Source of Release			loop cont	ainment		Volume of Re Date and Hou				_	red: >5 bbls of Discovery:	
Was Immediate			•			December 22, If YES, To W		:00 hrs			07 @ 09:00 hrs	Í
vvas immediate	Nouce G		ies 🔲	No 🔲 Not Requ	ired	Chris William		– Hob	bs			
By Whom? Billy									2007 @ 12:45 h	rs		
Was a Watercon	urse Reac		Yes 🛛 I	Ňo		If YES, Volur Not Applicable		ng the	Watercourse:			;
If a Watercours	e was Im			* Not Applicable								ŀ
system capacity. cellar to contain Approximately 4 operations.	Drilling flow back 5 barrels	brine was rele while vacuur (~25 bbls on l	ased onto n trucks r ocation a	on Taken.* Well location (well pad ecovered free fluid nd ~20 bbls off loc lken.* Approximal	) and withi ation)	flowed southeast in berned area. V of drilling fluid	off locatio Well was co were releas	n into p emented ed fron	basture. A berm and flow back n containment s	was t cease ystem	ouilt around well d. during drilling	
mpacted by the	release. A	ho Cleanup A backhoe was	utilized t	o blend impacted	veil p	ad materials. No	actions we	of we	ormed upon past	JU II" ( ure ar	of pasture) were ea.	
and regulations a endanger public l operator of habili surface water, hu	II operato health or t ity should man healt	ors are required the environme their operation th or the envir	to report nt. The a ons have f onment.	s true and complet and/or file certain cceptance of a C-1 ailed to adequately In addition, NMOC cal laws and/or reg	relea 41 rep inves CD ac	se notifications a port by the NMO stigate and remed ceptance of a C- ns.	nd perform CD marked liate contan 141 report o	correc as "Fi nination loes fo	tive actions for nal Report" does that pose a thr	releases s not r eat to	es which may relieve the ground water,	
Signature:	Jac	old x	Sun	in	_		L CONS				TOFFICER	1/ \\
Printed Name:	Harold Sv	wain				Approved by <del>Di</del>			- in all		Carry	9
Title: Drilling F	oreman, P	Permian Basın	<u></u>		4	Approval Date:	1/17	108	Expiration I	Date: .	<u>3/3/08</u>	$\sum$
E-mail Address:						Conditions of A	oproval:	"   / M	b	Atta	ched 🔲	
Date: /-/0 Attach Addi	tional S	Sheets If N	Necessa	ry		110	Iry .	e,	in 1	······································		
					U.		F			 	RP#1	7'

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If >1000 from water source, or, >200         If Depth to GW >100-feet: 0 points         Ground Water Score:       20         Wellhead Protection Score:       0         Site Ranking (1 + 2 + 3):       20         Total Site Ranking Score and Acceptable Concentrations         Parameter       20 or >         Benzene ¹ 10-ppm         BTEX ¹ 50-ppm	A	2000100	Incident Date: 12/22/07 NMC	DCD Notified: 12/22/07
Company:         Apache Corporation           Street Address:         North Eurole Loop, Hwy 207           Mailing Address:         P.O. Box 1849           City, Stale, Zip,         Eurole, NM 88231           Representative:         Natalie Gladden           Representative:         1           Fluid Volume Released (bbl):         5           Set Mith MMCO versity with 2t hours and submit C-141 with is fays.           Set Submer Fam C-141 within 15 days. (Also applies to unsultarized mease of >50 met Natural Gas).           Leak, Spill, or Pti (LSP) Name:         NMGSAU #368           Source of Contamination.         Overflow of dosed-loop containment vessel           Land Owner, Le. BLM, ST, Fee, Other:         State of NM           LSP Dimensions:         322 38.4 X 153 (maximum dimensions)           LSP Area         ~ 21000 -R ² Location of Reference Point (RP):         22 38.4 54           Longitude: West         103 17.363           Elevation above mean sea level (amsl):         3657 feet 1116 meters           Distance from South Section Line (feet):         2420           Location - County         109           Location - County         19           Location - County         Lea           Surface water body within 1000' radius of site:         0	SITE:	NMGSAU #368		API No. 30-025-38459
Street Address:         North Eurore Loop, Hwy 207           Mailing Address:         P.O. Box 1849           Gity, State, Zip         Euroice, NM 88231           Representative:         Natalie Gladden           Representative Telephone:         575-330-4186           Telephone:         525 bit Staff VM MOCD vetaaly within 24 hours and submit C-141 within 15 days.           525 bit Staff VM MOCD vetaaly within 24 hours and submit C-141 within 15 days.           525 bit Staff Rom C-141 within 5 days. (Also agales to unauthorized misses of -550 mC Nauma (Gas.)           Leak, Spill, or Fit (LSP) Name:         NMGSAU #358           Source of Contamination:         Overflow of closed-loop containment vessel           Land Owner, Le BLM, ST, Fee, Other:         State of NM           LSP Dimensions:         328 X 153 (maximum dimensions)           LSP Area         ~ 21000 · ft           Location distance and direction from RP:         22 38 454           Lotation con of Reference Point (RP):         103 17.353           Elevation above mean sea level (amsil):         3657 feet 1115 meters           Distance from South Section Line (feet):         2420           Location - County         Lea           Surface water body within 1000' radius of site:         0           Domestic water wells within 1000' radius of site:         0	Company:	Apache	e Corporation	
Mailing Address:         P.O. Box 1849           City, State, Zp:         Function           Representative:         Natalie Gladden           Setter State (bb):         State (bb):           State of NM         State of NM           Source of Contamination:         Overflow of closed-loop containment vessel           Land Owner, Le, BLM, ST, Fee, Other:         State of NM           LSP Dimensions:         328 451 (maximum dimensions)           LSP Area         ~ 21000 -1 ⁴ Location of Reference Point (RP):         Incating in the interse           Location of Reference Point (RP):         1063           Location a constance and direction from RP.         1115 meters           Distance from South Section Line (feet):         2420           Location - Section Line (feet):         2420           Location - County         Lea           Surface water body within 1000' radius of site:         0           Domestic water wells within 1000' radius of site:         0           Domestic water wells within 1000' radius of site:         0				
City, State, Zip:         Eunice, NM 88231           Representative:         Natalie Gladden           Representative:         S75-330-4186           Telephone:         State: Xally, MMOCD versally, within 24 hours and submet C-141 within 15 days.           - 528 bit: Nathly, MMOCD versally, within 24 hours and submet C-141 within 15 days.           - 528 bit: Nathly, MMOCD versally, within 24 hours and submet C-141 within 15 days.           - 528 bit: Nathly, MMOCD versally, Within 24 hours and submet C-141 within 15 days.           - 528 bit: Submet Form C-141 within 15 days.           - 528 bit: Submet Form C-141 within 15 days.           - 528 bit: Submet Form C-141 within 15 days.           - 528 bit: Submet Form C-141 within 15 days.           - 159 Area           - 21000 - R ² - 159 Area           - 150 Area           - 160 Area           <				
Representative         Natalie Gladden           Representative Telephone:         575-390-4186           Telephone:         >25 bit Natif MMCC0 verbally within 24 hours and submit C-141 within 15 days.           5-25 bit: Subm Form C-141 within 15 days.         6-25 bit: Subm Form C-141 within 15 days.           5-25 bit: Subm Form C-141 within 15 days.         6-25 bit: Subm Form C-141 within 15 days.           Source of Contamination:         Overflow of closed-loop containment vessel           Land Owner, Le, BLM, ST, Fee, Other:         State of NM           LSP Dimensions:         322 38.454           Location of Reference Point (RP):         Location of Reference Point (RP):           Location of Reference Point (RP):         3657 feet 1115 meters           Distance from East Section Line (feet):         2420           Location - Unit Letter and 1/4 1/4:         UL-         O SW 1/4 of SE 1/4           Location - Township         19         Location - County           Location - County         Lea         Surface water body within 1000' radius of site:           Domestic water wells within 1000' radius of site:         0         Surface water body within 1000' radius of site:           Domestic water wells within 1000' radius of site:         0         Public water supply wells within 1000' radius of site:           Domestic water wells within 1000' radius of site:         0				
Regresentative Telephone:         575-390-4186           Telephone:         Net Released (bb):         45         Volume Recovered (bb):         5         Net Release:         40           Fluid Volume Released (bb):         45         Volume Released (bb):         5         Net Release:         40           S25 bb: Math MMCCD versely within 24 hours and submit C-141 within 15 days.         NMGSAU #388         50 md Natural Gas.           Leak, Spil, or Pti (LSP) Name:         NMGSAU #388         30 md Natural Gas.         21 memory of constraintsion:         0 verflow of colsed-loop containment vessel           Land Owner, Le, BLM, ST, Fee, Other:         State of NM         12 SP Area         21000 - R ¹ Location of Istance and direction from RP.         12 38.454         103 17.353         115 meters           Location of state of nom South Section Line (feet):         1060         115 meters         104 coation - 10 meters           Distance from South Section Line (feet):         19         10 coation - 3 metar Section Line (feet):         19           Location - Township         19S         12 surface water body within 1000' radius of site:         0           Domestic water wells within 1000' radius of site:         0         10 surface water body within 1000' radius of site:         0           Domestic water wells within 1000' radius of site:         0				···· · · · · · · · · · · · · · · · · ·
Telephone:       45       Volume Recovered (bb):       5       Net Release:       40         *25 bbl: Notify MMOCD verbally within 24 hours and submit C-141 within 15 days.       5-25 bbl: Notify MMOCD verbally within 24 hours and submit C-141 within 15 days.       5-25 bbl: Notify MMOCD verbally within 24 hours and submit C-141 within 15 days.       5-25 bbl: Notify MMOCD verbally within 24 hours and submit C-141 within 15 days.         Leak, Spill, or Pit (LSP) Name:       NMGSAU M388       NMGSAU M388         Source of Contaminaton:       Overflow of closed-loop containment vessel         Land Owner, i.e. BLM, ST, Fee, Other:       State of NM         LSP Area       - 21000 ft ⁴ Location of Reference Point (RP):       Location distance and direction from RP:         Latitude: North       32       38 454         Longitude: West       103       17.353         Elevation above mean sea level (amsl):       2420         Distance from South Section Line (feet):       2420         Location - Section       19         Location - County       Lea         Surface water body within 1000' radius of site:       0         Domestic water wells within 1000' radius of site:       0         Domestic water wells within 1000' radius of site:       0         Domestic water wells within 1000' radius of site:       0         Domes				
Fluid Volume Released (bb):         45         Volume Recovered (bb):         5         Net Release:         40           >255 bbl: Submit PMICOD verbally within 24 hours and submit C-141 within 15 days:         5-25 bbl: Submit PMICOD verbally within 24 hours and submit C-141 within 15 days:         5-25 bbl: Submit PMICOD verbally within 15 days:         5-25 bbl: Submit PMICOD verballs PMICOD verball         5-25 bbl: Submit PMICOD verballs PMICOD verball         5-25 bbl: Submit PMICOD verball         5-25			0-4100	
>25 bit Notify NMOCD versity within 24 hours and submit 0-141 within 15 days.           525 bit Submit Form C-141 within 15 days (Also applies b unautificated release of >50 mcl Natural Gas).           Leak, Spill, or Pit (LSP) Name:         NMGSAU#368           Source of Contamination:         Overflow of closed-loop containment vessel           Land Owner, i.e. BLM, ST, Fee, Other:         State of NM           LSP Dimensions:         328 X 153 (maximum dimensions)           LSP Area         ~ 2100 - n²           Location of Reference Point (RP):         Location of Reference Point (RP):           Location distance and direction from RP:         Lattude: North           Lattude: North         32         38.454           Longitude: West         103         17.353           Elevation above mean sea lavel (ams):         36657 feet         1115 meters           Distance from South Section Line (feet):         1060         19           Location - Namsip         19S         Location - County         Lea           Surface water body within 1000' radius of site:         0         0         Surface water body within 1000' radius of site:         0           Domestic water wells within 1000' radius of site:         0         0         Eavator         200-1000           Surface water body within 1000' radius of site:         0         Eavator			Valuma Receivered (bbl):	5 Not Polozzo: 40
5-25 bit : Summ Form C-141 within 15 days (Also applies to unauthorized release of >50 mct Natural Gas).           Leak, Spill, or Pit (LSP) Name:         NIMGSAU #368           Source of Contamination:         Overflow of closed-loop containment vessel           Land Owner, ie. BLM, ST, Fee, Other:         State of NM           LSP Dimensions:         328 X 153 (maximum dimensions)           LSP Dimensions:         328 X 153 (maximum dimensions)           LSP Area         ~ 21000 - ft ² Location of Reference Point (RP):         Location of stance and direction from RP:           Latitude: North         32 38 454           Longitude: West         103 17, 353           Elevation above mean sea level (amsl)         3657 feet 1115 meters           Distance from South Section Line (feet):         2420           Location - Last Section Line (feet):         2420           Location - Counthistip         198           Location - Range         37E           Location - Counthy         Lea           Surface water body within 1000' radius of site:         0           Domestic water wells within 1000' radius of site:         0           Domestic water wells within 1000' radius of site:         0           Domestic water wells within 1000' radius of site:         0           Domestic water wells within				
Leak, Spill. or Prit (LSP) Name:         NMGSAU #368           Source of Contamination:         Overflow of closed-loop containment vessel           Land Owner, i.e. BLM, ST, Fee, Other:         State of NM           LSP Dimensions:         328' X 153' (maximum dimensions)           LSP Area         ~ 21000 -t²           Location of Reference Point (RP):				
Source of Contamination:         Overflow of closed-loop containment vessel           Land Owner, Le, BLM, ST, Fee, Other:         State of NM           LSP Dimensions:         322 X 153 (maximum dimensions)           LSP Area         ~ 21000 -t²           Location of Reference Point (RP):	Leak Snitt			
Land Owner, i.e. BLM, ST, Fee, Other:         State of NM           LSP Dimensions:         328' X 153' (maximum dimensions)           LSP Area         ~ 21000 -ft ² Location of Reference Point (RP):			the second se	ontainment vessel
LSP Dimensions:         328' X 153' (maximum dimensions)           LSP Area         ~ 21000 -ft ² Location of Reference Point (RP):	and the second			
LSP Area         ~ 21000 -ft ² Location of Reference Point (RP):		· · · · · · · · · · · · · · · · · · ·		manajana)
Location of Reference Point (RP):           Location distance and direction from RP:           Latitude: North         32         38.454           Longitude: West         103         17.353           Elevation above mean sea level (amsl):         3657         feet         1115           Distance from South Section Line (feet):         1060         1080           Distance from South Section Line (feet):         2420         1060           Location - Unit Letter and 1/4 1/4:         UL-         0         SW 1/4 of         SE 1/4           Location - Range         37E         102         102         102           Location - County         Lea         0         50         100         1000/200         1000/200         1000/200         1000/200         1000/200         1000/200         1000/200         1000/200         1000/200         1000/200         1000/200         1000/200         1000/200         1000/200         1000/200         1000/200         1000/200         1000/200         100/200         111/200         100/200         100/200         100/200         100/200         100/200         100/200         100/200         100/200         100/200         100/200         100/200         100/200         1/200/200         100/200         100/200		5015.		
Location distance and direction from RP:         32         38.454           Longitude: West         103         17.353           Elevation above mean sea level (amsl):         3657         feet         1115         meters           Distance from South Section Line (feet):         1060         1115         meters           Distance from Satt Section Line (feet):         2420         1115         meters           Location - Unit Letter and 1/4 1/4:         UL-         0         SW 1/4 of         SE 1/4           Location - Section         19         Location - Township         19S           Location - Range         37E         Location - County         Lea           Surface water body within 1000' radius of site:         0         Surface water wells within 1000' radius of site:         0           Domestic water wells within 1000' radius of site:         0         Agricultural water wells within 1000' radius of site:         0           Agricultural water wells within 1000' radius of site:         0         0         Agricultural water wells within 1000' radius of site:         0           Public water supply wells within 1000' radius of site:         0         0         20         200           Public water supply wells within 1000' radius of site:         0         20         200         200			~ 21000 -11	
Latitude: North         32         38.454           Longitude: West         103         17.353           Elevation above mean sea level (amsl)         3657         feet         1115         meters           Distance from South Section Line (feet):         1060         1115         meters         1115         meters           Location - Unit Letter and 1/4 1/4:         UL-         O         SW 1/4 of         SE 1/4         Location - Section         19           Location - Range         37E         Location - County         Lea         Surface water body within 1000' radius of site:         0           Surface water body within 1000' radius of site:         0         0         Domestic water wells within 1000' radius of site:         0           Domestic water wells within 1000' radius of site:         0         0         Public water supply wells within 1000' radius of site:         0           Public water supply wells within 1000' radius of site:         0         0         Public water supply wells within 1000' radius of site:         0           Public water supply wells within 1000' radius of site:         0         0         200         200           Public water supply wells within 1000' radius of site:         0         0         200         200         200           If Forph to GW <50-feet: 20 points </td <td></td> <td></td> <td>د این اور اور اور اور اور اور اور اور اور اور</td> <td></td>			د این اور	
Longitude: West         103         17.353           Elevation above mean sea level (amsl):         3657         feet         1115 meters           Distance from South Section Line (feet):         2420				
Elevation above mean sea level (amsl):         3657         feet         1115 meters           Distance from South Section Line (feet):         1060           Distance from South Section Line (feet):         2420           Location - Unit Letter and 1/4 1/4:         UL-         O         SW 1/4 of         SE 1/4           Location - Section         19         19S         Location - Range         37E           Location - County         Lea         Surface water body within 1000' radius of site:         0           Surface water body within 1000' radius of site:         0         Domestic water wells within 1000' radius of site:         0           Domestic water wells within 1000' radius of site:         0         Domestic water wells within 1000' radius of site:         0           Agricultural water wells within 1000' radius of site:         0         Domestic water supply wells within 1000' radius of site:         0           Public water supply wells within 1000' radius of site:         0         Domestic water wells within 1000' radius of site:         0           Public water supply wells within 1000' radius of site:         0         2         20         20           Public water supply wells within 1000' radius of site:         0         2         200         200         200         200         200         200         200				
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Distance from East Section Line (feet):         2420           Location - Unit Letter and 1/4 1/4:         UL-         O         SW 1/4 of         SE 1/4           Location - Section         19         Location - Section         Location - Range         37E           Location - Range         37E         0         Surface water body within 1000' radius of site:         0           Surface water body within 1000' radius of site:         0         O         Surface water wells within 1000' radius of site:         0           Domestic water wells within 1000' radius of site:         0         O         Agricultural water wells within 1000' radius of site:         0           Agricultural water wells within 1000' radius of site:         0         O         Public water supply wells within 1000' radius of site:         0           Public water supply wells within 1000' radius of site:         0         O         D         Depth (feet) form land surface to Ground Water (DG):         60           Depth (feet) for long surface to Ground Water (DG):         13         Depth (feet) for Gwest contamination (DC):         13           Depth to GW <50-feet: 20 points		`````````````````````````````````		
Location - Unit Letter and 1/4 1/4:         UL-         O         SW         1/4 of         SE 1/4           Location - Section         19         195         195         195         195         195         195         195         195         195         195         195         195         195         195         195         195         195         195         195         195         195         195         195         195         195         195         195         195         195         195         195         195         195         195         195         195         195         195         195         195         195         195         195         195         195         195         195         195         195         195         195         195         195         195         195         195         195         195         195         195         195         195         195         195         195         195         195         195         195         195         195         195         195         195         195         195         195         195         195         195         195         195         195         195         195         19				
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Location - Township       19S         Location - Range       37E         Location - County       Lea         Surface water body within 1000' radius of site:       0         Domestic water wells within 1000' radius of site:       0         Domestic water wells within 1000' radius of site:       0         Domestic water wells within 1000' radius of site:       0         Agricultural water wells within 1000' radius of site:       0         Agricultural water wells within 1000' radius of site:       0         Public water supply wells within 1000' radius of site:       0         Public water supply wells within 1000' radius of site:       0         Public water supply wells within 1000' radius of site:       0         Public water supply wells within 1000' radius of site:       0         Public water supply wells within 1000' radius of site:       0         Public water supply wells within 1000' radius of site:       0         Depth (feet) form land surface to Ground Water (DG):       13         Depth (feet) of lowest contamination (DC):       13         Depth to GW <50-feet: 20 points	a de la companya de l			E 1/4
Location - Range       37E         Location - County       Lea         Surface water body within 1000' radius of site:       0         Domestic water wells within 1000' radius of site:       0         Domestic water wells within 1000' radius of site:       0         Agricultural water wells within 1000' radius of site:       0         Agricultural water wells within 1000' radius of site:       0         Agricultural water wells within 1000' radius of site:       0         Public water supply wells within 1000' radius of site:       0         Public water supply wells within 1000' radius of site:       0         Depth (feet) from land surface to Ground Water (DG):       60         Depth (feet) for lowest contamination (DC):       13         Depth (feet) to Ground Water (DG - DC = DtGW):       47         If Depth to GW <50-feet: 20 points				
Location - County       Lea         Surface water body within 1000' radius of site:       0         Surface water body within 1000' radius of site:       0         Domestic water wells within 1000' radius of site:       0         Agricultural water wells within 1000' radius of site:       0         Agricultural water wells within 1000' radius of site:       0         Agricultural water wells within 1000' radius of site:       0         Public water supply wells within 1000' radius of site:       0         Depth (feet) form land surface to Ground Water (DG):       60         Depth (feet) to Ground Water (DG - DC = DtGW):       ~ 47         1       Ground Water       2. Wellhead Protection Area       3. Distance to Surface Water         If Pepth to GW <50-feet: 20 points				
Surface water body within 1000' radius of site:       0         Surface water body within 1000' radius of site:       0         Domestic water wells within 1000' radius of site:       0         Agricultural water wells within 1000' radius of site:       0         Agricultural water wells within 1000' radius of site:       0         Agricultural water wells within 1000' radius of site:       0         Agricultural water wells within 1000' radius of site:       0         Public water supply wells within 1000' radius of site:       0         Public water supply wells within 1000' radius of site:       0         Public water supply wells within 1000' radius of site:       0         Public water supply wells within 1000' radius of site:       0         Public water supply wells within 1000' radius of site:       0         Public water supply wells within 1000' radius of site:       0         Public water supply wells within 1000' radius of site:       0         Public water supply wells within 1000' radius of site:       0         Depth (feet) form land surface to Ground Water (DG):       60         Depth (feet) to Ground Water       113         If >1000' from water source, or, <200'				
Surface water body within 1000' radius of site:         0           Domestic water wells within 1000' radius of site:         0           Domestic water wells within 1000' radius of site:         0           Agricultural water wells within 1000' radius of site:         0           Agricultural water wells within 1000' radius of site:         0           Public water supply wells within 1000' radius of site:         0           Public water supply wells within 1000' radius of site:         0           Public water supply wells within 1000' radius of site:         0           Public water supply wells within 1000' radius of site:         0           Public water supply wells within 1000' radius of site:         0           Public water supply wells within 1000' radius of site:         0           Public water supply wells within 1000' radius of site:         0           Depth (feet) form land surface to Ground Water (DG):         13           Depth (feet) to Ground Water         2. Wellhead Protection Area         3. Distance to Surface Water           If Depth to GW <50-feet: 20 points	Location - C	County	Lea	
Domestic water wells within 1000' radius of site:         0           Domestic water wells within 1000' radius of site:         0           Agricultural water wells within 1000' radius of site:         0           Agricultural water wells within 1000' radius of site:         0           Public water supply wells within 1000' radius of site:         0           Public water supply wells within 1000' radius of site:         0           Public water supply wells within 1000' radius of site:         0           Public water supply wells within 1000' radius of site:         0           Public water supply wells within 1000' radius of site:         0           Depth (feet) from land surface to Ground Water (DG):         60           Depth (feet) of lowest contamination (DC):         13           Depth (feet) to Ground Water (DG - DC = DtGW):         ~ 47           If Depth to GW <50-feet: 20 points	Surface wa	ter body within 1000' radius of s	site: 0	
Domestic water wells within 1000' radius of site:       0         Agricultural water wells within 1000' radius of site:       0         Agricultural water wells within 1000' radius of site:       0         Public water supply wells within 1000' radius of site:       0         Public water supply wells within 1000' radius of site:       0         Public water supply wells within 1000' radius of site:       0         Public water supply wells within 1000' radius of site:       0         Public water supply wells within 1000' radius of site:       0         Public water supply wells within 1000' radius of site:       0         Public water supply wells within 1000' radius of site:       0         Public water supply wells within 1000' radius of site:       0         Public water supply wells within 1000' radius of site:       0         Depth (feet) for lowest contamination (DC):       13         Depth (feet) to Ground Water (DG - DC = DtGW):       ~ 47         If Depth to GW <50-feet: 20 points				· • • • • • • • • • • • • • • • • • • •
Agricultural water wells within 1000' radius of site:       0         Agricultural water wells within 1000' radius of site:       0         Public water supply wells within 1000' radius of site:       0         Public water supply wells within 1000' radius of site:       0         Public water supply wells within 1000' radius of site:       0         Public water supply wells within 1000' radius of site:       0         Public water supply wells within 1000' radius of site:       0         Public water supply wells within 1000' radius of site:       0         Public water supply wells within 1000' radius of site:       0         Public water supply wells within 1000' radius of site:       0         Public water supply wells within 1000' radius of site:       0         Depth (feet) of lowest contamination (DC):       13         Depth (feet) to Ground Water (DG - DC = DtGW):       47         If Depth to GW <50-feet: 20 points	Domestic w	ater wells within 1000' radius o	fsite: 0	
Agricultural water wells within 1000' radius of site:       0         Public water supply wells within 1000' radius of site:       0         Public water supply wells within 1000' radius of site:       0         Public water supply wells within 1000' radius of site:       0         Public water supply wells within 1000' radius of site:       0         Public water supply wells within 1000' radius of site:       0         Depth (feet) from land surface to Ground Water (DG):       60         Depth (feet) to Ground Water (DG - DC = DtGW):       ~ 47         1. Ground Water       2. Wellhead Protection Area       3. Distance to Surface Water         If Depth to GW <50-feet: 20 points	Domestic w	ater wells within 1000' radius o		
Public water supply wells within 1000' radius of site:       0         Public water supply wells within 1000' radius of site:       0         Depth (feet) from land surface to Ground Water (DG):       60         Depth (feet) of lowest contamination (DC):       13         Depth (feet) to Ground Water (DG - DC = DtGW):       ~         1. Ground Water       2. Wellhead Protection Area         1. Ground Water       1. Ground Water         1. Ground Water       2. Wellhead Protection Area         1. Ground Water       1. Ground Water         2.0 points       11          1.1 Depth to GW <50 to 100-feet: 10 points	Agricultural	water wells within 1000' radius	of site: 0	
Public water supply wells within 1000' radius of site:       0         Depth (feet) from land surface to Ground Water (DG):       60         Depth (feet) of lowest contamination (DC):       13         Depth (feet) to Ground Water (DG - DC = DtGW):       47         1. Ground Water       2. Wellhead Protection Area       3. Distance to Surface Water         If Depth to GW <50-feet: 20 points	Agricultural	water wells within 1000' radius	of site: 0	,
Depth (feet) from land surface to Ground Water (DG):       60         Depth (feet) of lowest contamination (DC):       13         Depth (feet) to Ground Water (DG - DC = DtGW):       ~ 47         1. Ground Water       2. Wellhead Protection Area       3. Distance to Surface Water         If Depth to GW <50-feet: 20 points	Public wate	r supply wells within 1000' radiu	us of site: 0	
Depth (feet) of lowest contamination (DC):       13         Depth (feet) to Ground Water (DG - DC = DtGW):       47         I. Ground Water       2. Wellhead Protection Area       3. Distance to Surface Water         If Depth to GW <50-feet: 20 points       If <1000' from water source, or, <200' from private domestic water source:       200 horizontal feet: 20 points         If Depth to GW 50 to 100-feet: 10 points       If >1000' from water source, or, >200' from private domestic water source; or, >200' from private domestic water source: 0       200-1000 horizontal feet: 10 points         If Depth to GW >100-feet: 0 points       From private domestic water source; 0       >1000 horizontal feet: 0 points         Ground Water Score:       20       Vellhead Protection Score:       0       Surface Water Score:       0         Site Ranking (1 + 2 + 3):       20       Total Site Ranking Score and Acceptable Concentrations       0       0         Parameter       20 or >       10       0       0       0       0       0       0         Benzene ¹ 10-ppm       10-ppm       10-ppm       50-ppm       50-ppm       50-ppm	Public wate	r supply wells within 1000' radiu	us of site: 0	
Depth (feet) to Ground Water (DG - DC = DtGW):       ~ 47         I. Ground Water       2. Wellhead Protection Area       3. Distance to Surface Water         If Depth to GW <50-feet: 20 points       If <1000' from water source, or, <200' from private domestic water source:       200 horizontal feet: 20 points         If Depth to GW 50 to 100-feet: 10 points       If >1000' from water source, or, >200' from private domestic water source:       200-1000 horizontal feet: 10 points         If Depth to GW >100-feet: 0 points       If >1000' from water source; or, >200' from private domestic water source: 0 points       >1000 horizontal feet: 0 points         Ground Water Score:       20       Wellhead Protection Score: 0       Surface Water Score: 0         Site Ranking (1 + 2 + 3):       20       Total Site Ranking Score and Acceptable Concentrations       0         Parameter       20 or >       10       0       0         Benzene ¹ 10-ppm       10-ppm       10-ppm         BTEX ¹ 50-ppm       50-ppm       50-ppm	Depth (feet)	) from land surface to Ground V	Vater (DG): 60	
1. Ground Water2. Wellhead Protection Area3. Distance to Surface WaterIf Depth to GW <50-feet: 20 points	Depth (feet)	) of lowest contamination (DC):	and a second	
If Depth to GW <50-feet: 20 pointsIf <1000' from water source, or, <200' from private domestic water source: 20 points<200 horizontal feet: 20 pointsIf Depth to GW 50 to 100-feet: 10 points20 points200-1000 horizontal feet: 10 pointsIf Depth to GW >100-feet: 0 pointsfrom private domestic water source; or, >200' points>1000 horizontal feet: 0 pointsGround Water Score:20Wellhead Protection Score:0Site Ranking (1 + 2 + 3):20Total Site Ranking Score and Acceptable ConcentrationsParameter20 or >100Benzene110-ppm10-ppm10-ppmBTEX150-ppm50-ppm50-ppm	Depth (feet)	) to Ground Water (DG - DC =	DtGW): ~ 47	
If Depth to GW 50 to 100-feet: 10 points       from private domestic water source: 20 points       200-1000 horizontal feet: 20 points         If Depth to GW 50 to 100-feet: 0 points       If >1000' from water source, or, >200' from private domestic water source: 0 points       >1000 horizontal feet: 0 points         If Depth to GW >100-feet: 0 points       from private domestic water source: 0 points       >1000 horizontal feet: 0 points         Ground Water Score:       20       Wellhead Protection Score:       0         Site Ranking (1 + 2 + 3):       20       Total Site Ranking Score and Acceptable Concentrations         Parameter       20 or >       10       0         Benzene ¹ 10-ppm       10-ppm       10-ppm         BTEX ¹ 50-ppm       50-ppm       50-ppm		1. Ground Water	2. Wellhead Protection Area	3. Distance to Surface Water
If Depth to GW 50 to 100-feet: 10 pointsfrom private domestic water source: 20 points200-1000 horizontal feet: 10 pointsIf Depth to GW >100-feet: 0 pointsfrom private domestic water source: 0 points>1000 horizontal feet: 0 pointsGround Water Score:20Wellhead Protection Score:0Site Ranking (1 + 2 + 3):20IfTotal Site Ranking Score and Acceptable ConcentrationsParameter20 or >10Benzene ¹ 10-ppm10-ppmBTEX ¹ 50-ppm50-ppm	If Depth to (	GW <50-feet: 20 points		<pre></pre>
If Depth to GW 50 to 100-feet. 10 points       If >1000' from water source, or, >200'       200-1000 horizontal feet. 10 points         If Depth to GW >100-feet. 0 points       from private domestic water source: 0       >1000 horizontal feet. 0 points         Ground Water Score:       20       Wellhead Protection Score: 0       Surface Water Score: 0         Site Ranking (1 + 2 + 3):       20         Total Site Ranking Score and Acceptable Concentrations         Parameter       20 or >       10       0         Benzene ¹ 10-ppm       10-ppm       10-ppm         BTEX ¹ 50-ppm       50-ppm       50-ppm			from private domestic water source:	
If >1000 from water source, or, >200         If Depth to GW >100-feet: 0 points         Ground Water Score:       20         Wellhead Protection Score:       0         Site Ranking (1 + 2 + 3):       20         Total Site Ranking Score and Acceptable Concentrations         Parameter       20 or >         Benzene ¹ 10-ppm         BTEX ¹ 50-ppm	If Denth to (	GW 50 to 100-feet: 10 points		- 200-1000 horizontal feet: 10 points
If Depth to GW >100-reet 0 points     points     >1000 horizontal reet 0 points       Ground Water Score:     20     Wellhead Protection Score:     0 Surface Water Score:     0       Site Ranking (1 + 2 + 3):     20     Total Site Ranking Score and Acceptable Concentrations     0       Parameter     20 or >     10     0       Benzene ¹ 10-ppm     10-ppm       BTEX ¹ 50-ppm     50-ppm				•
Ground Water Score:         20         Wellhead Protection Score:         0 Surface Water Score:         0           Site Ranking (1 + 2 + 3):         20         Total Site Ranking Score and Acceptable Concentrations         0           Parameter         20 or >         10         0           Benzene ¹ 10-ppm         10-ppm         10-ppm           BTEX ¹ 50-ppm         50-ppm         50-ppm	If Depth to (	GW >100-feet 0 points	•	>1000 horizontal feet: 0 points
Site Ranking (1 + 2 + 3):         20           Total Site Ranking Score and Acceptable Concentrations           Parameter         20 or >         10         0           Benzene ¹ 10-ppm         10-ppm         10-ppm           BTEX ¹ 50-ppm         50-ppm         50-ppm		· · · · · · · · · · · · · · · · · · ·		1
Total Site Ranking Score and Acceptable Concentrations           Parameter         20 or >         10         0           Benzene ¹ 10-ppm         10-ppm         10-ppm           BTEX ¹ 50-ppm         50-ppm         50-ppm	· · · · · · · · · · · · · · · · · · ·		Wellhead Protection Score:	0 Surface Water Score: 0
Parameter         20 or >         10         0           Benzene ¹ 10-ppm         10-ppm         10-ppm           BTEX ¹ 50-ppm         50-ppm         50-ppm	Site Rankin			
Benzene ¹ 10-ppm         10-ppm           BTEX ¹ 50-ppm         50-ppm				· · · · · · · · · · · · · · · ·
BTEX ¹ <b>50-ppm</b> 50-ppm 50-ppm		20 or >		0
BTEX ¹ <b>50-ppm</b> 50-ppm 50-ppm		10-ppm	10-ppm	10-ppm
	BTEX ¹	50-ppm	50-ppm	
<u>100-ppm   100-ppm   5000-ppm   5000-ppm   100-ppm   100</u>	TPH	100-ppm	1000-ppm	5000-ppm

District I			State of New Mexico					Form C-141			
1625 N French Dr., Hobbs, NM 88240 Energy			<b>Energy Miner</b>	Minerals and Natural Resources				Revised June 10, 2003			
District II											
1301 W Grand Ave	enue, Artesia, NM 8	8210									
Distric III	ation <b>E</b>	tion Division Submit 2 Copies to appropria									
1000 Rio Brazos Road, Aztec, NM 87410 1220 South					St. Francis Dr.			District Office in accordance			
District IV Santa Fe.					, NM 87505			with Rule 116 on back			
										side of form	
Release Notification and Corrective Action											
				🗸 Initia	Report 🔽 F	inal Report					
Name of Compa			pache Corporation						e Gladden		
Address			Eunice, NM 88231 IGSAU #368		Telephone No. 575-39				······································		
Facility Name					Facility	/ Туре	Tank B				
Surface Owner State of NM			Mineral Owner				API No. <b>30-025-38459</b>				
LOCATION OF RELEASE											
Unit Letter	Section	Township	Range		from	Feet from	Longi	tude-W	Latitude-N	County	
0	19	19S	37E		h Line	East Line	103	.2892	32.6409	Lea	
I					KO F DFI	2420 FASE			1		
NATURE OF RELEASE           Type of Release         Volume of Release         Volume Recovered											
Drilling Brine Water					Greater than 45 bbl			5 bbi			
Source of Release					the second s	Date and Hour of Occurrence			Date and Hour of Discovery		
Overflow of closed-loop containment vessel					12/22/07 9:00AM 12/22/07 9:00AM						
Was Immediate Notice Given?					If YES, To Whom?						
YES NO Not Required					Chris Williams - NMOCD           Date and Hour         12/22/07 12:45PM						
By Whom? Billy L. Stockton Was a Watercourse Reached?					Date and Hour     12/22/07 12:45PM       If YES, Volume Impacting the Watercourse						
					INA IES	, volume impac	angue	waterco	uise		
If a Watercourse was Impacted, Describe Fully*											
Describe Cause of Problem and Remedial Action Taken. *											
Well bore flow back volume during new well logging was in excess of closed loop system capacity. Drilling brine was released onto location (well pad)											
and flowed southeast off location into pasture. Berm was constructed around well cellar to contain flow back while vacuum trucks recovered free fluid											
within bermed area. Well was cemented and flow back ceased.											
Describe Area Affected and Cleanup Action Taken. *											
Approximately 25-bbl of brine water was released onto the well pad area, and an additional ~20-bbl flowed SE onto pasture area. A real extent of											
affected area was ~21,000-ft2. Well pad area was blended to mitigate chloride impact to <250-ppm. Pasture area SE of location was remediated to <250-											
ppm chloride concentration by Ocotillo Environmental, LLC - Hobbs, NM.											
			plete to the best of my								
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 releve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to											
ground water, surfact other federal, state, or			nt. In addition, NMOCD	accept	ance of a (	C-141 report does n	not relieve t	he operator	of responsibility	for compliance with any	
					OIL CONSERVATION DIVISION						
Signature:										_	
Printed Name: Natalie Gladden					Approved by District Supervisor:						
Title:	Enviro	nmental Tech -	Permian Basin			al Date:		And the second	on Date:		
E-Mail Address	: Natal	ie.Gladden@u	sa.apachecorp.c	xom	Conditi	ons of Approva	ıl:	1RP#	1701, 1746		
Date:	6/24/2009	Phone:	575-390-4186							Attached	

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