AP-69 Apache NEDU #527, Lea County

May 2005 - permit to drill issued pit to be constructed under Rule 50

Sept 2005 - well drilled

Oct 2005 - well logged

July 2006 - leak detected during a "dig and haul" remediation pit closure procedure; material removed to a depth of 10 feet bgs and disposed of at Sundance facility.

July 19, 2006 GW impact reported to District One office and to Santa Fe.

July 31, 2006Additional 9000 cubic yards removed to a depth of 21 ft bgs. (under pit liner)

Nov 2006 form C-141 submitted "drilling pit liner had somehow been compromised and leaked below the liner"

Nov 2006 - Stage 1 investigation required

Feb 2007 - Stage 1 Abatement Plan submitted

"pit liner compromised" doesn't say what type of liner but seems to mean plastic (constructed under Rule 50)

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up to 37,000 ppm Cl in soils at 16 ft bgs in the SW quadrant of the pit

groundwater at 62 ft bgs with chlorides at 2007 mg/l

AP - 068

GENERAL CORRESPONDENCE

YEAR(S):

2006/2007

VonGonten, Glenn, EMNRD

From:	jerry brian [jrbrian@verizon.net]
Sent:	Thursday, February 15, 2007 7:56 AM
То:	VonGonten, Glenn, EMNRD
Cc:	Harold Swain; Guinn Burks; David Woolf
Subject:	Hungry Horse - Apache NEDU # 527 Stage 1 Abatement Plan
Follow Up Flag	: Follow up
Flag Status:	Red
Attachments:	Apache NEDU_527 Stage 1 Abatement Plan.pdf

Hi Glen,

Here is the Stage 1 Abatement Plan for the Apache NEDU # 527. Since it is a large file, I will send the analyticals in a separate email.

Hard copies will follow.

We appreciate your assistance.

Thanks, JB

VonGonten, Glenn, EMNRD

From:	jerry brian [jrbrian@verizon.net]
Sent:	Thursday, February 15, 2007 8:18 AM
То:	VonGonten, Glenn, EMNRD
Cc:	Harold Swain; Guinn Burks; David Woolf
Subject:	Hungry Horse - Apache NEDU #527 analyticals
Follow Up Flag	: Follow up
Flag Status:	Red
Attachments:	NEDU #527 analyticals0014.gif; NEDU #527 analyticals0001.gif; NEDU #527 analyticals0014.gif; NEDU #527 analyticals0001.gif; NEDU #527 analyticals0002.gif; NEDU #527 analyticals0003.gif; NEDU #527 analyticals0004.gif; NEDU #527 analyticals0005.gif; NEDU #527 analyticals0006.gif; NEDU #527 analyticals0007.gif; NEDU #527 analyticals0008.gif; NEDU #527 analyticals0009.gif; NEDU #527 analyticals0010.gif; NEDU #527 analyticals0011.gif; NEDU #527 analyticals0012.gif; NEDU #527 analyticals0013.gif

Here are the analyticals for the Apache NEDU #527.

Thanks, JB



PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

<u>___</u>

PHONE (505) 393-2326 + 101 E. MARLAND + HOBBS, NM 88240

ANALYTICAL RESULTS FOR HUNGRY HORSE, LLC ATTN: JERRY BRIAN P.O. BOX 1058 HOBBS, NM 88241 FAX TO: (505) 393-3386

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Receiving Date: 09/20/06 Reporting Date: 09/21/06 Project Owner: APACHE Project Name: NEDU #527 Project Location: LEA COUNTY, NM Analysis Date: 09/21/06 Sampling Date: 09/19/06 Sample Type: SOIL & WATER Sample Condition: COOL & INTACT Sample Received By: NF Analyzed By: HM

		CI
LAB NO.	SAMPLE ID	(ppm)
H11550-1	BH#3-57' BGS	*1663
H11550-2	BH#3-60' BGS	*656
H11550-3	BH#3-62' BGS	2007
H11550-4	BH#4-25' BGS	*1408
H11550-5	BH#4-30' BGS	*1871
H11550-6	BH#4-35' BGS	*512
H11550-7	BH#4-40' BGS	*432
H11550-8	BH#4-45' BGS	*560
H11550-9	BH#4-50' BGS	* 400
H11550-10	BH#4-55' BGS	*16
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Quality Cont	rol	960
True Value (20	1000
% Recovery	-	96
Relative Per	cent Difference	1.0

METHOD: Standard Methods 4500-CI'B *NOTE: Analyses performed on 1:4 w.v aqueous extracts.

Waren Chemist

09-21-01 Date

H11550

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 valved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicative service. In no event shall Cardinal be list for inclental or consequential damages, including, which utimatiano, business interruptions, loss of profile incurred by cleant, is 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.



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True Value (20	1000
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Relative Per	cent Difference	1.0

METHOD: Standard Methods 4500-CI'B *NOTE: Analyses performed on 1:4 w:v aqueous extracts.

Chemist

09 Date

H11550

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or fort, shall be limited to the amount paid by client for analysis. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thinty (30) days after completion of the supplicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profils incurred by client. 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.

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

ARDINAL LABORATORIES, INC.

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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



PHONE (325) 673-7001 · 2111 BEECHWOOD · ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR HUNGRY HORSE LLC ATTN: JERRY BRIAN 4614 N. GRIMES HOBBS, NM 88240 FAX TO:

Receiving Date: 09/15/06 Reporting Date: 09/15/06 Project Owner: APACHE (APA-06-002) Project Name: NEDU #527 Project Location: NOT GIVEN Analysis Date: 09/15/06 Sampling Date: 09/14/06 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: BC Analyzed By: HM

		CI
LAB NO.	SAMPLE ID	(mg/kg)
H11539-1	S091406-BH1-25	240
H11539-2	S091406-BH1-30	112
H11539-3	S091406-BH1-35	48
H11539-4	S091406-BH2-25	4319
H11539-5	S091406-BH2-30	1328
H11539-6	\$091406-BH2-35	128
H11539-7	S091406-BH3-25	10157
H11539-8	S091406-BH3-30	11436
H11539-9	S091406-BH3-35	8237 /
H11539-10	S091406-BH3-40	3071
H11539-11	S091406-BH3-45	2159
H11539-12	S091406-BH3-50	1695
	1	
Quality Cont	rol	990
True Value (20	1000
% Recovery		99
Relative Per	cent Difference	1.0

 METHOD:
 Standard Methods
 4500-CLB

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

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09-18-06 Date

H11539

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 timiled to the amount paid by chern for intrulyses. All claims, including those for negligence and any other cause whatsoever shall be deemed vaived 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 inclusional execution of the applicable 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.

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RDINAL LABORATORIES, INC.

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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



PHONE (325) 673-7001 + 2111 BEECHWOOD - ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR HUNGRY HORSE LLC ATTN: JERRY BRIAN P.O. BOX 1058 HOBBS, NM 88241 FAX TO: (505) 393-3386

Receiving Date: 09/06/06 Reporting Date: 09/07/06 Project Owner: APACHE Project Name: APACHE NEDU #527 Project Location: APACHE NEDU # 527 Analysis Date: 09/07/06 Sampling Date: 09/06/06 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: BC Analyzed By: HM

LAB NO. SAMPLE ID

Ci⁻⁻⁻ (mg/kg)

H11511-1 E - WORKING PIT - 19' BGS	224
H11511-2 NE - 19' BGS	288
H11511-3 SE - 19' BGS	1935
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Quality Control	980
True Value QC	1000
% Recovery	98
Relative Percent Difference	1.0

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

Chemist

07.06 09 Date

H11511

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 un-types All claims, including those for negligence and any other cause whatsoever shall be deemed waved 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 profils incurred by client. Its subsidiaries, affliates 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. ARDINAL LABORATORIES, INC.

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	2111 Beechwood, Abliene, TX 7960 (325) 673-7001 Fax (325) 673-702																			Page	of _	·
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† Cardinal cannot accept verbal changes. Please fax written changes to (325) 673-7020.

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PHONE (325) 673-7001 · 2111 BEECHWOOD · ABILENE, TX 79603

PHONE (505) 393-2326 + 101 E. MARLAND + HOBBS, NM 88240

ANALYTICAL RESULTS FOR HUNGRY HORSE LLC ATTN: JERRY BRIAN P.O. BOX 1058 HOBBS, NM 88241 FAX TO: (505) 393-3386

Receiving Date: 09/05/06 Reporting Date: 09/06/06 Project Owner: APACHE Project Name: NEDU #527 Project Location: LEA COUNTY Analysis Date: 09/06/06 Sampling Date: 08/28/06 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: NF Analyzed By: HM

LAB NO. SAMPLE ID

CI (mg/kg)

H11500-1 NW - 19'	BGS	8557
H11500-2 SW - 19		8717
H11500-3 SW - WR	K PIT - 19' BGS	5118
·		
Quality Control		990
True Value QC	······································	1000
% Recovery		99
Relative Percent Different	ence	1.0

METHOD: Standard Methods 4500-CI'B NOTE: Analyses performed on 1:4 w:v aqueous extracts.

09-06-06

Date

H11500

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 deemedy awaived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicative 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 claimst. In substituties, attitudes 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.

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Sample Condition Sample Condition Temp, *C Intact? No No No † Cardinal cannot accept verbal changes. Please fax written changes to (325) 673-7020.

Delivered By: (Circle One) Samples - UPS - Bus - Other:



PHONE (325) 673-7001 · 2111 BEECHWOOD · ABILENE, TX 79603

PHONE (505) 393-2326 . 101 E. MARLAND . HOBBS, NM 88240

ANALYTICAL RESULTS FOR HUNGRY HORSE ATTN: JERRY BRIAN P.O. BOX 1058 HOBBS, NM 88241 FAX TO: (505) 393-3386

Receiving Date: 08/17/06 Reporting Date: 08/18/06 Project Owner: APACHE Project Name: NEDU #527 Project Location: LEA COUNTY, NM Analysis Date: 08/18/06 Sampling Date: 08/08/06 & 08/16/06 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: BC Analyzed By: AB

LAB NO. - SAMPLE ID

Cl⁻⁻ (mg/kg)

H11451-1	C - 16' BGS	6158
H11451-2	SE - 16' BGS	5806
H11451-3	NW - 16' BGS	8797
H11451-4	SW - 16' BGS	37988
H11451-5	C WRK PIT - 14' BGS	• 176
H11451-6	SW WRK PIT - 17' BGS	9677
H11451-7	C - 17' BGS	112
H11451-8	SW - 17' BGS	10477
		· ·
Quality Cor	ntrol	980
True Value	QC	1000
% Recover	y	98
Relative Pe	rcent Difference	2.0

METHOD: Standard Methods 4500-Cl'B NOTE: Analyses performed on 1:4 w:v aqueous extracts.

Chem

08-18-0 Date

H11451

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether bared in contract or tort, shall be limited to the amount paid by chent tor analysis. All claims, including those for negligence and any other cause whatsoever shall be deemade waived unless made in writing and received by Cardinal within thiny (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidential or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise. ARDINAL LABORATORIES, INC.

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

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PHONE (325) 673-7001 · 2111 BEECHWOOD · ABILENE, TX 79603

PHONE (505) 393-2326 . 101 E. MARLAND . HOBBS, NM 88240

ANALYTICAL RESULTS FOR HUNGRY HORSE LLC ATTN: JERRY BRIAN P.O. BOX 1058 HOBBS, NM 88241 FAX TO: (505) 393-3386

Receiving Date: 08/07/06 Reporting Date: 08/08/06 Project Owner: APACHE Project Name: NEDU #527 Project Location: LEA COUNTY, NM Analysis Date: 08/08/06 Sampling Date: 07/31/06 & 08/07/06 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: HM Analyzed By: AB

LAB NO. SAMPLE ID

Cl[—] (mg/kg)

H11417-1	SE-10' BGS	12396
H11417-2	NE-10' BGS	17275
H11417-3	C-10' BGS	2255
H11417-4	C-12' BGS	272
H11417-5	SW-12' BGS	26872
H11417-6	NW-12' BGS	16315
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Quality Con	trol	980
True Value	QC	1000
% Recovery	/	98
Relative Pe	rcent Difference	2.0

METHOD: Standard Methods 4500-CI B NOTE: Analyses performed on 1:4 w:v aqueous extracts.

Chemis

08-08-Date

H11417

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tori, shall be limited to the amount paid by client for antidyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in witting and received by Cardinal within thirty (30) days after completion of the application service. In no event shall Cardinal be liable for incidential or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES, INC. 2111 Beechwood. Abilene. TX 79603 101 East Marland, Hobbs, NM 88240 Page (915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476 O1 Company Name: ANALYSIS REQUEST mon Hose Project Manager: B111 TO PO #: Isrian Address: 1058 Company: State: NAZip: 88241 City: Attn: 6149 Phone #: 39 Address: Fax #: 393-3386 City: Project #: Project Owner: State: Zip; Hoache Project Name: £<27 Phone #: NE DU Fax #: Project Location: COUNTY 2 FOR LAB USE ONLY MATRIX SAMPLING PRES. (G)RAB OR (C)OMP CONTAINERS Sample I.D. LAB I.D. VASTEWAT CC / COO SLUDGE SHER ġ DATE TIME +11417-56 -18' BGS 7-31<u>-0</u> -3 5-10' R/ < 7-21-26 -3 7-802:0501 -4 BGS 8-7-56 2:05.0 -5 5W-12'B65) 8-7.06 2:070 45-121865 16 Terms and Conditions: Internal will be charged on all accounts more th PLEASE NOTE: Liebility and Domagin, Cardinal's Lability and client's exclusive rom ncy for any diam anteng whether baned in contract or tort, shall be limited to the amount paid by the client for the Arabyses. Al claims including floate for negligence and my other cause whatsower shall be deemed writing unless made is writing and received by Cardena within 30 days after completion of the applicates 30 days paint due at the rate of 24% per annum from the original date of involce. service. In no overs that Condens be back for incidential or consequential damages, including without limitation, business interruptions, bas of use, or loss of profile incurred by obset, its extendences and all costs of collections, lincluding alternay's fees affiliates or uncessory anticing out of or matted to the performances of services hereunder by Cardinal, (equindues of whother such pairs) is based upon any of the st Date: ve stated n istria or otherwis Phone Result [] Yes [] No Additional Fax #: Sampler Relinguished: **Received By:** 7-06 Fax Result: O Yes O No Time: REMARKS: 2.04 Relinguished By: Date Received By: (Lab Staff) 08-07-06 Time3 . How Delivered By: (Circle One) Sample Condition CHECKED BY: Cool Intact Yes Dires (Initials) Bampley - UPS - Bus - Other:

† Cardinal cannot accept verbal changes. Please fax written changes to 915-673-7020.

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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	3-3386								Cit	V:							[`	· .{			{	ł		.	4	.	1	ŀ
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<u>Disprict II</u> 1301 W. Gren <u>District III</u> 1000 Rio Brez <u>District IV</u>	h Dr., Hobbs, d Ave., Astesia xos Rd., Axtesi mris Dr., Sunta	a, NLA 8821 , NLA 87410			<u> </u>	Mine Dil C 1220	erals a onser 0 S. S	Vew Mex nd Natura vation Div t Francis NM 875	al Resources rision Dr.	3	Form C-101 Permit 11271
			APP	LICA	TION F	OR I	PERI	OT TIN	DRILL	1	
	CORP le, Suite 150 74136-422		0 ඉත	rator Nan	ne and Addres	s				4	PEDD Number 873 UPI Number D25-37242
Property 2250				NOR	Propert THEAST D	y Name RINK		ואוד			Well No. 527
	· ·		·····						,		
				·······	Surf	ace L	ocatio	on		F	
UL or Lot M	Section 10	Township 21S		mere 7E	Lot Idn M	Feet, F 131	1	N/S Line ·S	Feet From 330	E/W Line W	County Lea
EUNICE;BI Wock T <u>:</u> New W	- 1	NORTH Well 1 OI	.ype			/Rotary	l Pool	• •	Lesse Type State	Giroum	d Level Elevation 3464
1411 M	ole	Proposed 692	-			mation nkard			Contractor		Spud Date
· · · · · · · · · · · · · · · · · · ·	anangana				ed Casin	a and	l Com	ont Drom		. 1	Anatanan (1997). s naarana (1997) Salaha (1997) Manatanan (1997)
Туре	Hole Size	Casing			g Weight/ft	ganu		g Depth	Sacks of Ce	ment	Estimated TOC
Surf	12.25	8.62			24	-		300	575		
Prod	7.825	5.5			17	, i	6	925	1100		
			I	Propos	ed Blowo	ut Pr	event	ion Progr	am	16.9	
	Туре			Work	ing Pressure			Test	Pressure	M	lamfacturer
• D	ouble Ram	[2000			-	3000		
			ation gi					OIL C	ONSERVAT		ISION
and comple	rtify that th ete to the be Ily Signed I	est of my		-				onically Ap Geologist	proved By: 1	Paul Kautz	
and comple	ete to the be Ily Signed I	est of my		-			Title:	Geologist			Pate: 05/18/2006

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 District I

 1625 N. French Dr., Hobbs, NM 88240

 District II

 1301 W. Grand Ave., Artesia, NM 88240

 District III

 1000 Rio Bruzos Rd., Artec, NM 87410

 District IV

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

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

. 5

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Name	Pool Code
30-025-37242	EUNICE;BLI-TU-DR, NORTH	22900
Property Code	Property Name	Well No.
22503	NORTHEAST DRINKARD UNIT	527
OGRID No.	Operator Name	Elevation
873	APACHE CORP	3464

ł

UL or Lot Section Township Ringe Lot Idn Feet From N/S Line Feet From E/W Line County 10 21S М 1310 s 330 W Μ 37E Lea Dedicated Acres Joint or Infill Consolidation Code Order No 40

				OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.
	ł		-	Electronically Signed By: Lana Williams
		1		Title: Drilling Clerk
				Date: 05/17/2005
		<hr/>		SURVEYOR CERTIFICATION
				I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.
				Surveyed By: GARY EIDSON
				Date of Survey: 03/22/2005
				Certificate Number: 12641
				Certificate Number: 12641

Surface And Bottom Hole Location

Form C-102 Permit 11271

Permit Conditions Of Approval C-101, Permit 11271

,

Operator: APACHE CORP , 873

Well: NORTHEAST DRINKARD UNIT #527

OCD Reviewer	Condition
PKAUTZ	Re-seeding mixture will must be approved or authorized by surface owner
PKAUTZ	Notice is to be given to the OCD prior to construction of the pit(s)
PKAUTZ	Pit construction and closure must satisfy all requirements of O.C.D. Rule 19.15.2.50, and the Pit and Below-Grade Tank Guidelines

			•	
Submit 3 Copies To Appropriate District	State of New Me			Form C-103
Office District I	Energy, Minerals and Natu	ral Resources	WELL API NO.	March 4, 2004
1625 N. French Dr., Hobbs, NM 88240	OIL CONSERVATION		30-025-37242	•
District II 1301 W. Grand Ave., Artesia, NM 88210	1220 South St. Fran		5. Indicate Type of Lease	
District III 1000 Rio Brazos Rd., Aztec, NM 87410	Santa Fe, NM 87	505	6. State Oil & Gas Lease No.	<u>×</u>
District IV			6. Blac on & Gas Deale No.	
1220 S. St. Francis Dr., Santa Fe, NM 87505				
SUNDRY NOT	CES AND REPORTS ON WELLS		7. Lease Name or Unit Agreeme	nt Name
(DO NOT USE THIS FORM FOR PRO			NEDU	
TO A DIFFERENT RESERVOIR. US SUCH PROPOSALS.)	E "APPLICATION FOR PERMIT" (F	ORM C-IUI) FOR	8. Well Number	
1. Type of Well:		· · · ·		
Oil Well 🖾 Gas Well 🗌 Oth	er	· · · · · · · · · · · · · · · · · · ·	527	
2 Name of Operator APACHE CORPORATION			9. OGRID Number 873	
3. Address of Operator	· · · · · · · · · · · · · · · · · · ·		10. Pool name or Wildcat	
6120 S. YALE, STE. 1500			EUNICE; BLI-TU-DR, NORTH	22900
4. Well Location	······································			
Unit Letter1011	: <u>1310</u> feet from the _			VS line
Section 10 To	wnship 21S Range 11. Elevation (Show whether Di		PM County LE	
		164 r. <i>KI</i> , GR, <i>eic</i> .		
Pit or Below-grade Tank Application (For		-	<u>1)</u>	
Pit Location: ULSectTwp	RngPit typeD	epth to Groundwater	Distance from nearest fresh wa	ter well
Distance from nearest surface water	Below-grade Tank Location UL	SectTwp	Rng ;	
feet from theline and		·····	(,	
12. Check Appropriate Box to Indicate I		a <i>'</i>		
	-			123
		REMEDIAL WORK		CASING
		COMMENCE DRI		
PULL OR ALTER CASING		CASING TEST AN		011
	COMPLETION	CEMENT JOB	12 as	N
OTHER:		OTHER: SPUD,	SURF. CSG., TD, LOG, PROD	. CSGA
11. Day it and an application				
RULE 1103. For Multiple Complete	rations. (Clearly state all pertinent details, tions: Attach wellbore diagram of propose	and give pertinent dates, d completion or recomple	including estimated date of starting any tion.	proposed work). SEE
9/2/05 DRILL & SURVEY TO 1283'. CAPS	STAR RIG # 14.			
	. DRILL - 987 - 1283. SURVEY - 1283 = .75			CID & DIN 8 635
CSG 29 JTS. CIRC CSG SAFETY M	EETING. CMT W/ BJ CMT W/ 375 SX 35:	65 POZ W/ 6% GEL + 2%	CACI+.25# CF = 125 BBLS 12.7# SLUR	RY W/ 1.88 YIELD -
CONDUCTOR PIPE. WELD ON HE	CI+.125# CF = 48 BBLS 14.8# SLURRY W AD. TEST TO 500 PSI. OK. NIPPLE UP BC	P & CHOKE. TESTING 3	RD PARTY BLINDS, CSG, PIPE RAM	S, CHOKE, KELLY
COCK, DART VALVE, = 500 LOW,	2000 HIGH OKAY. TIH W/ BIT#2 TOP OF RVEY @ 2487,= 1.5, SERV. RIG, CHANGE	CMT. @ 1200 FT. DRILL	ING CMT, PLUG, FLOAT COLLAR, FI	LOAT SHOE. DRLG.
5904' = 1.25. TRIP OUT HOLE FOR	BIT CHANGE. PICK UP MOTOR, BIT, MA			
2 JTS. DP, 50 JTS. DP INSTALL KS WASH 90' TO BTM. / CIRC. BTMS	W'S & STRIPPING RUBBER UP. DRILG. W/ BIT # 3 - 5936' - 6130'. DRI	LL - 6700' - 6862'. LOST 3	50 PSI - CHECK SURFACE EQUIP, PU	JMP SOFTLINE, PRESS
INCREASE 7.5 MINITES. T O H FI	X AIR LINES, FOUND 7" CRACK 2' ABOV	E PIN ON JT # 160 LAY	DOWN SAME. SAFETY MEETING, R	IG UP LOGGERS &
	ENSATED SONIC 6816 - 5000; DUAL LAT -55 & L-80 LT&C CSG. RIG DOWN CSG C			
	FI-52 = 325 BBLS 11.8# SLURRY W/ 2.44 ILS 2% KCL WATER- PLUG BUMPED & I			
RELEASE RIG 9/16/2005.				1 000,
I hereby certify that the information above is tr	up and complete to the best of my knowled	as and halisf. Thurshan,	andifer that are all an holow and had	
constructed or closed according to NMOCD	guidelines , a general permit or ar	a (attached) alternative (CD-approved plan	нь наз осснужші De
signature Jana William	ns TITLE DRILLING CLE	<u>rk II</u> DATE	0/5/05	
Type or print name LANA WILLIAMS	E-mail address: lana.williams@a	pachecorp.com	Telephone No. 918-	491-4980
This space for State use)				
This space for State use)	APPAAL BURG	Nr / 18		<u>.</u>
APPPROVED BY	TITLE EINULEUN	NGINEEN DA	HEI 1 7 2005	
Conditions of approval, if any:				

Conditions of approval, if any:

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WELL LOGS

A	PI number	: 30-025	i-37242	÷				
	OGRID:		Operator:	APACHE (CORP			
			Property:	NORTHEA	ST DRINKA	RD UNIT		# 527
surface	ULSTR:	M	10		215		37E	
			1310	FSL	330	FWL		
BH Loc	ULSTR:	M	10		215		37E	
			1310	FSL	330	FWL		
Gr	ound Level	: 3	464 DF:	3474	KB:	3475		
	Datum	: KB			TD:	6862		
								-
					Completic	on Date: (1)		
	Land:	STATE				s Received:	12/5/2005	**Late
					Date Logs	Due in: (2)	10/27/2005	
Cor	nfidential:	NO				Date out:		
	Confidentia	period: 9	0 Days for State &	Fee, 1 Year I	or federal			
	Date Due In	n: (1) is e	qual to Completion	Date (1) + 20	days			
	Logs		Depth in	iterval				
DSN/SD			200				paced Neutr	
DLL/MSI	FL		5000	6864	Dual Latero	log Micro Sp	erically Focu	used Log
_								
	_							
		OCD T	'ODS					

	······	r	 		
Rustler	1276	Strawn	 		
Tansill		Atoka			
Yates	2637	Morrow			
7R	2858				
T. Bowers Sd					
B. Bowers Sd					
Queen	3431				
Penrose					
Grayburg	3747				
San Andres	3979				
Glorieta	5163				
Tubb	6123		 		
Drinkard	6440		 		
Abo	6722				
Wolfcamp				****	
	<u>_</u>		 		
•					•

Apache Corporation 6120 S. Yale Ste 1500 Tulsa, OK 74136

NEDU # 527 Lea County New, Mexico	121	10.215.37e D/S # 330/w D.025- 3724	2 IZIZOUR		
451	4.51	3/4	1:31.	5.92	5.92
956	5.05	1	1.75	8.84	14.76
1283	3.27	3/4	1.31	4.29	19.05
1758	4.75	3/4	1.31	6.23	25.28
2233	4.75	· 2	3.50	16.63	41.91
2360	1.27	1 3/4	3.06	3.89	45.80
2487	1.27	1 1/2	2.63	3.33	49 .13
2614	1.27	1	1.75	2.22	51.35
3090	4.76	1	1.75	8.33	59.68
3598	5.08	1	1.75	8.89	68.57
4072	4.74	1	1.75	8.30	76.87
4547	4.75	. 1	1.75	8.31	85.18
.5047	5.00	1	1.75	8.75	93.93
5526	4.79	· 1	1.75	8.38	102.31
5904	3.78	1 1/4	2.19	8.27	110.58
6389	4.85	-1	1.75	8.49	119.07
6862	4.73	1	1.75	8.28	127.35

Michael Roghair - General Manager

The attached instrument was acknowledged before me on the 19^{44} day of 19^{44} day o



zan Notary Public

Ka



State of New Mexico



Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

1220 SOUTH ST. FRANCIS DR.

Santa Fe, New Mexico 87505

Form C-102 Revised JUNE 10, 2003 Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Coplea

1804 W. GRAND AVENUE, ARTESIA, NM 88210 DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410

1525 N. FERNCH DR., BOBBS, NM 55240

DISTRICT I

DISTRICT II

DISTRICT IV WELL LOCATION AND ACREAGE DEDICATION PLAT □ AMENDED REPORT 1220 S. ST. FRANCIS DE., BANTA PR. NK 87505 Pool Code Pool Name AP(Number 30-025-37242 22900 Eunice: Blinebry - Tubb - Drinkard - North Property Code Property Name Well Number NEDU 527 22503 OGRID No. Operator Name Elevation APACHE CORPORATION 00873 3464' Surface Location UL or lot No. Range Lat Idn Feet from the North/South line Feet from the Rest/West line Section Township County Μ 10 21-S 37-E 1310 SOUTH 330 WEST LEA Bottom Hole Location If Different From Surface UL or lot No. Section Lot Idn Feet from the North/South line Feet from the East/West line Township Range County Dedicated Acres Joint or Infill **Consolidation** Code Order No. NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the t of my knowledge and belief. Signatur GEODETIC COORDINATES Elaine Linton NAD 27 NME Engineering Technician Y=543842.7 N Tille X=862437.1 E December 2, 2005 Date LAT. = 32°29'22.72" N LONG. = 103°09'28.47' SURVEYOR CERTIFICATION hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervison and that the same is true and correct to the best of my belief. MARCH 22, 2005 Date Surgert FID DEL. 330' Signature & Scal Prograefonal Surreyor $\hat{\mathbf{O}}$ 3/105 05 11 0479 Certile Cor No. GABY ELDSON 12641 PROFESSIO

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·							•							
					•									
District I						State of N	an Mari					Form C-104		
1625 N. French	Dr., Ho	bbs, NM 8	8240	F		Minerals 8						Revised June 10, 2003		
District II 1301 W. Grand .	Avenue	, Artesia, N	M 88		ancigy, i		¢ I tatulai	Resour						
District III 1000 Rio Brazos					O	il Conserv	ation Divi	sion			Submit to A	ppropriate District Office 5 Copies		
District IV					12	20 South					_	5 Copies		
220 S. St. Fran	cis Dr.					Santa Fe,						AMENDED REPORT		
¹ Operator na				ESTFO	RALL	OWABLE		JTHO		RID Num	O TRANSF			
Apache C	orpor	ation								00	873			
6120 Sout Tuisa, OK			500						Rea	son for Fi W - 10/7/	ling Code/ Effe 2005	ective Date		
⁴ API Numbe		1		l Name					J		⁶ Pool Cod			
30 -025-37						ubb - Drink	ard - Nort	h		·····	22900			
⁷ Property Co 22503	ode	1	⁸ Pro No	perty Nam rtheast D	e rinkard	Unit				-	⁹ Well Nun 527	iber		
10	irface	Locatio					······					· · · ·		
Ul or lot no.	Secti			Range	Lot.Idn	Feet from th	e North/So	uth Line	Feet f	from the	East/West lin	e County		
M	10	215		37E		1310	South		330		West	Lea		
B(Secti	Hole Lo			Lot Idn	Foot from th	e North/S		Reat	from the	East/West lin	Country		
UL or lot no.	Jaccu	on Town	mp	Range		Feet from th		Juai IINË	rcet 1	nom me	casi west in	e County		
¹² Lse Code	" P	roducing Met	hod	" Gas Co	nnection	¹⁵ C-129 P	ermit Numbe	7 16	C-129 I	Effective I	Date 17 C	-129 Expiration Date		
5	Р	Code		10/07/	2005				•					
III. Oil a	and G													
¹⁸ Transpor OGRID	ter		" Tra	nsporter N	ame	2	0 POD	21 C	VG			TR Location		
195739 Plains Pipeline LP								0		Unit A.		scription		
		Three A	Allen n. T	Center, X 77002	333 Clay	′ 		<u> </u>		NEDU	Sec 2, T 21S Central Tan	k Battery		
20809		Sid Ric 201 Ma	hard iin Si	son Gase treet, Sui	line Co. te 3000			G		Unit A, NEDU	Sec 2, T 21S Central Tan	, R 37E k Batterv		
		Fort W	orth	treet, Sui , TX 761	02				_					
24650		Dynerg	y Mi	dstream	Services			G		Unit A,	Sec 2, T 21S E Central Ta	, R 37E		
		Housto	n, TZ	idstream ana, Suit X 77002	e 5800	<u> </u>	NEDU			NEDUI	E Central Ta	nk Battery		
												NAMES OF T		
								ļ						
											13	70 ()		
IV. Proc	duced	Water									13	88		
³ POD 2264750		'				and Description					8	bins of the second second second second second second second second second second second second second second s		
V. Well	0				, 1 215,	R 37E, NEI	DU Central	Lank E	sattery		19			
²⁵ Spud Da	ate	26 E	Jala Ready	Date	1	27 TD	²⁸ P	BTD	25	Perforati		30 DHC.MC		
9/02/2005		10/07/2			6862'		6843'			9 - 6687'				
³¹ H	ole Siz	e]	32 Casin	& Tubin	g Size	3	³ Depth S	et		³⁴ S	acks Cement		
12-1/4"			8	-5/8''			1283'				575 sx / circ	116 sx		
7-7/8''				-1/2''			6862'				1150 sx / TOC 208' CBL			
7-770				•1/2			0002				1150 sx / 10	C 208 CBL		
												····-		
<u> </u>						_, <u> </u>			,	<u> </u>				
VI. Wel	1 Test	Data	<u> </u>		17.	.	1R			19	- <u>-</u>			
Date New 10/07/2005		²⁰ Gas 10/07/		ery Date		Test Date .9/2005	24 hrs	est Lengt	л	Tb	g. Pressure	⁴⁰ Csg. Pressure		
⁴¹ Choke Si			42 Oi			Water	1	⁴⁴ Gas			^{\$} AOF	46 Test Method		
CHOKE S	<i></i>	70	0	1	31	TY ALCI	1030	Uas		1	AUP	Pumping		
I hereby cer] tifv /h/	at the rule		e Oil Corr	ervation I	Division have	<u>† ——</u>		01.4	1	ATION DIVI			
een complied	i with :	and that th	e info	rmation gi	ven above					LOINSER				
omplete to th signature:	e best	of my kno	wledg	ge and beli	ef.		A	. '			<u> </u>			
ignature:	1	Law	Z	intor	-		Approved	oy:		Z	all.	ICER		
rinted name: El	ajne I	Linton	~ ~ ~				Title:				\mathcal{V}	UM ENGINEER		
iule:			_				Approval I	Date:	·		PETHOL	· • · · ·		
Er E-mail Addres		ering Teo	hnic	ian				DEC 0	7 20	05	· -			
ela	aine.li	inton@a	÷	ecorp.cor			1							
Date: 12/02	/2005		Ph	one: (918)	401.574	,								

ТОР	BOTTOM			SCREEN		SIZ	E			PACKER SET	
_			NER RECORD			25.		UBING R	ECORD	- ·· <u></u>	
	· · · · · · · · · · · · · · · · · · ·						·			· · · · · · · · · · · · · · · · · · ·	
17#		6862	2'	7-7/8"			1150 sx / T	OC 208'	CBL		
<u>e we</u> 24#		1283		но 12-1/4"	LE SIZE	!				MOUNT PULLED	
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and Other Logs R /MG	·		·				<u>No</u>				
o, Drinkard			<u></u>				N	lo			
	mpletion - Top, Be	1	•			l		0. Was Dir	fectional S	urvey Made	
· · •	Back T.D.										
09/14/2005	10	/07/20	005	346	4'			·			
11. Date T.D.	Reached 12.	Date Co	ompl. (Ready to Prod.) 13.	Elevations					Coun Casinghead	
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- M · ·	1310 Feet Fr	omThe	South	lin	and	330	F	Seet From T	he W	est	
ale, Suite 150	JO TUISA, OK	7413	6-4224		-						
		. 7140	6-1001						uhh - Dr	rinkard - North	
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tor											
WORK DE			DIFF. <u>R</u> ESVR. 🔲 OTI	HER	•				_		
pletion:		гЦ	UINEK			r	Northeast L	rinkara (Jnit		
							7. Lease Name	or Unit Ag	reement N		
		MPL	ETION REPOR	TANDI	.OG		and the second				
			Santa Fe, NM	1 87505		F				<u> </u>	
	ļ	12	220 South St. F	Francis D	r.				Lease FEI	E	
	210	Oil Conservation Division								······································	
						- [
25	E	iergy.	State of New Minerals and N		sources				J	Form C- Revised June 10,	
	Hobbs, NM 88240 nue, Artesia, NM 88 Aziec, NM 87410 Dr. Santa Fe, NM 87 COMPLETIC ELL X GAS V pletion: WORK DE OVER tor Oration rator ale, Suite 150 10 11. Date T.D. 09/14/2005 16. Plug 6843' rrval(s), of this co o, Drinkard and Other Logs R /MG E WE 24# 17# 10 TOP TOP record (interval, si 5629-32,82-8 0' 2 JSPF 38,93-97,625 6578-82,661 ion	Hobbs. NM 88240 nue, Artesia. NM 88210 I. Ažtec, NM 87410 Dr., Santa Fe. NM 87505 COMPLETION OR RECO ELL [X] GAS WELL DR' pletion: WORK DEEPEN PLU OVER BA tor Oration rator ale, Suite 1500 Tulsa, OK r <u>M</u> 1310 Feet F 10 Townsi 11. Date T.D. Reached 12. 09/14/2005 10. 16. Plug Back T.D. 6843' EVEIGHT LB /FT. 24# 17# 24# 17# TOP BOTTOM record (interval, size, and number) 5629-32,82-84,5720-24,58 & Y 2 JSPF 38,93-97,6251-57 & 6329- 6578-82,6614-18,54-58 & ion Production Me Pumping Hours Tested Choke Size 24 hrS Casing Pressure Calculated	Hobbs. NM 88240 O nue, Artesia. NM 88210 O 1. Aztec, NM 87410 12 Dr., Santa Fe, NM 87305 OMPLETION OR RECOMPL COMPLETION OR RECOMPL ELL IX GAS WELL DRY ELL IX GAS WELL DRY Description: WORK DEEPEN PLUG OVER BACK tor Oration rator ale, Suite 1500 Tulsa, OK 7413 r 1310 Feet From The 10 Township 21 11. Date T.D. Reached 12. Date C 09/14/2005 10/07/20 16. Plug Back T.D. 17. If 6843' Z crval(s), of this completion - Top, Bottom, N. p, Drinkard Interval, Size, and number) oc29-32,82-84,5720-24,5806-100 y2 JSPF 38,93-97,6251-57 & 6329-31' 26578-82,6614-18,54-58 & 6683 ion Production Method (F Pumping Hours Tested Choke Size 24 hrs Choke Size	Hobbs. NM 88240 Oil Conservatio nue, Artesia. NM 88210 Santa Fe, NM , Aztec, NM 87410 Santa Fe, NM Dr., Santa Fe, NM 87505 Santa Fe, NM COMPLETION OR RECOMPLETION REPOR SLL A GAS WELL DRY OYER DEEPEN Pletion: WORK WORK DEEPEN PLUG DIFF. OVER BACK RESVR OTHER pletion: WORK WORK DEEPEN PLUG DIFF. OVER BACK RESVR OTHER pletion: PLUG OYER BACK RESVR OTHER Oration Tata rator 12. Date Compl. (Ready to Prod. 09/14/2005 10/07/2005 16. Plug Back T.D. 17. If Multiple Compl. Ho 6843' Zas strat(s), of this completion - Top, Bottom, Name O, Drinkard DEPTH SET 24# 1283' 17# 6862' DEVER DEPTH SET <	Hobbs. NM 88240 Oil Conservation Division 1220 South St. Francis D Santa Fe, NM 87505 COMPLETION OR RECOMPLETION REPORT AND I Santa Fe, NM 87505 COMPLETION OR RECOMPLETION REPORT AND I Santa Fe, NM 87505 COMPLETION OR RECOMPLETION REPORT AND I Santa Fe, NM 87505 COMPLETION OR RECOMPLETION REPORT AND I Santa Fe, NM 87505 COMPLETION OR RECOMPLETION REPORT AND I Santa Fe, NM 87505 COMPLETION OR RECOMPLETION REPORT AND I Santa Fe, NM 87505 COMPLETION OR RECOMPLETION REPORT AND I Santa Fe, NM 87505 COMPLETION OR RECOMPLETION REPORT AND I Santa Fe, NM 87505 OWORK DEEPEN DEEPEN PLUG DUG DUFF. OVER BACK Resver OTHER for Township 21S Range 13. 09/14/2005 12.0ac Compl. (Ready to Prod.) 16. Plug Back T.D. 17. If Multiple Compl. How Many 6843' Zose? arral(s), of this completion - Top, Bottom, Name O, Drinkard Interpereterm ACKS CEMENT <td< td=""><td>Hobbs. NM 88240 Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Santa Fe, NM 87505 Santa Fe, NM 87505 COMPLETION OR RECOMPLETION REPORT AND LOG SLL DI GAS WELL DRY OTHER pletion: WORK DEEPEN PLUG DIFF. OVER BACK RESVR OTHER pletion: WORK OPLATION OR RECOMPLETION REPORT AND LOG Stata Fe, NM 87505 COMPLETION OR RECOMPLETION REPORT AND LOG Stata Fe, NM 87506 WORK DEEPEN PLUG DIFF. OVER BACK RESVR OTHER Ior Township 21S Range 37E 11. Date T.D. Reached 12. Date Compl. (Ready to Prod.) 09/14/2005 10/07/2005 09/14/2005 10/07/2005 10/07/2005 3464' Tarentis). of this completion - Top. Bottom, Name O, Drinkard DEPTH SET HOLE SIZE 24# 170P BOTTOM <</td><td>Hobbs. 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NM 88210 Oil Conservation Division 30-025-37242 Artesik. NM 88210 1220 South St. Francis Dr. State Tiel K Gas Lease No. State Fe, NM 87305 State Tiel K Gas Lease No. State</td></td<>	Hobbs. NM 88240 Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Santa Fe, NM 87505 Santa Fe, NM 87505 COMPLETION OR RECOMPLETION REPORT AND LOG SLL DI GAS WELL DRY OTHER pletion: WORK DEEPEN PLUG DIFF. OVER BACK RESVR OTHER pletion: WORK OPLATION OR RECOMPLETION REPORT AND LOG Stata Fe, NM 87505 COMPLETION OR RECOMPLETION REPORT AND LOG Stata Fe, NM 87506 WORK DEEPEN PLUG DIFF. OVER BACK RESVR OTHER Ior Township 21S Range 37E 11. Date T.D. Reached 12. Date Compl. (Ready to Prod.) 09/14/2005 10/07/2005 09/14/2005 10/07/2005 10/07/2005 3464' Tarentis). of this completion - Top. Bottom, Name O, Drinkard DEPTH SET HOLE SIZE 24# 170P BOTTOM <	Hobbs. 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NM 88210 1220 South St. Francis Dr. State Tiel K Gas Lease No. State Fe, NM 87305 State Tiel K Gas Lease No. State	

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 25 through 29 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southea	astern New Mexico	Northwe	estern New Mexico
T. Anhy_	T. Canyon	T. Ojo Alamo	T. Penn "B"
T. Salt	T. Strawn	T. Kirtland-Fruitland	T. Penn. "C"
B. Salt	T. Atoka	T. Pictured Cliffs	T. Penn. "D"
T. Yates 2637'	T. Miss	T. Cliff House	T. Leadville
T. 7 Rivers 2858'	T. Devonian	T. Menefee	T. Madison
T. Queen 3431'	T. Silurian	T. Point Lookout	T. Elbert
T. Grayburg 3747'	T. Montoya	T. Mancos	T. McCracken
T. San Andres 3979'	T. Simpson	T. Gallup	T. Ignacio Otzte
T. Glorieta 5182'	T. McKee	Base Greenhorn	T. Granite
T. Paddock	T. Ellenburger	T. Dakota	Τ.
T. Blinebry 5646'	T. Gr. Wash	T. Morrison	T.
T.Tubb 6123'	T. Delaware Sand	T.Todilto	T.
T. Drinkard 6458'	T. Bone Springs	T. Entrada	T.
T. Abo 6722'	T. Rustler 1275'	T. Wingate	Τ.
T. Wolfcamp	Τ.	T. Chinle	Τ.
T. Penn	Τ.	T. Permian	<u> </u>
T. Cisco (Bough C)	Τ.	T. Penn "A"	Τ.

OIL OR GAS SANDS OR ZONES

-No. 1, from	No. 3, fromto
⁻ No. 2, fromtoto	No. 4, fromtoto

	IMPORTANT WATER SAND	S
Include data on rate of water inflow and eleva	tion to which water rose in hole.	
No. 1, from	to	.feet
No. 2, from	to	.feet
No. 3, from	to	.feet

LITHOLOGY RECORD (Attach additional sheet if necessary)

From	То	Thickness In Feet	Lithology		From	То	Thickness In Feet	Lithology
								· · ·
						•	-	
					•			
							•	· · · ·
				·		,	-,	

Submit 3 Copies To Appropriate District Office	State of New Mex			Form C-103 March 4, 2004
District I	Energy, Minerals and Natur	al Resources	WELL API NO.	Maich 4, 2001
1625 N. French Dr., Hobbs, NM 88240 District II	OIL CONSERVATION I	DIVISION	30-025	-37242
1301 W. Grand Ave., Artesia, NM 88210	1220 South St. Franc	is Dr.	5. Indicate Type of Lea STATE	
<u>District III</u> 1000 Rio Brazos Rd., Aztec, NM 87410	Santa Fe, NM 875	05	6. State Oil & Gas Leas	
District IV				
1220 S. St. Francis Dr., Santa Fe, NM 87505				
(DO NOT USE THIS FORM FOR PROPO TO A DIFFERENT RESERVOIR. USE "A			 Lease Name or Unit NE 8. Well Number 	Agreement Name
SUCH PROPOSALS.) 1. Type of Well:			o. wen number	
Oil Well 🛛 Gas Well 🗌 Other				27
2. Name of Operator			9. OGRID Number	73
APACHE CORPORATION 3. Address of Operator	······	······································	10. Pool name or Wildo	
6120 S. YALE, STE. 1500			EUNICE; BLI-TU-DR,	NORTH 22900
4. Well Location		1		
	1310 feet from the			
	nship 21S Range			LEA
	11. Elevation (Show whether DR 3.40			
Pit or Below-grade Tank Application (For pit			<u>)</u>	
Pit Location: ULSectTwp	_Rng Pit typeDe	pth to Groundwater	Distance from neares	t fresh water well
Distance from nearest surface water				
feet from theline and				
12. Check Appropriate Box to Indicate Nati				
NOTICE OF INTER	-		JBSEQUENT RERORT	
		REMEDIAL WORK		
	HANGE PLANS	COMMENCE DRIL		
—		CASING TEST AN CEMENT JOB		Ned String
OTHER:		OTHER: SPUD,	SURF. CSG., TD, LOG	PROD. CSG
13. Describe proposed or completed operation	ions. (Clearly state all pertinent details, a	and give pertinent dates, i	ncluding estimated date of s	tarting any proposed work). SEE
RULE 1103. For Multiple Completion 9/2/05 DRILL & SURVEY TO 1283'. CAPSTA	as: Attach wellbore diagram of proposed	completion or recomplet	tion.	
CSG 29 JTS. CIRC CSG SAFETY MEE TAIL WI 200 SX CLASS C + 2% CACH CONDUCTOR PIPE. WELD ON HEAD COCK, DART VALVE, = 500 LOW, 200 7.875 FORMATOIN, 1283-1420'. SURV	RILL - 987 - 1283. SURVEY - 1283 = .75. TING. CMT W/ BJ CMT W/ 375 SX 35.6 +:125# CF = 48 BBLS 14.8# SLURRY W/). TEST TO 500 PSI. OK. NIPPLE UP BOD 00 HIGH OKAY. TIH W/ BIT#2 TOP OF TEY @ 2487,= 1.5, SERV. RIG, CHANGE T CHANGE. PICK UP MOTOR, BIT, MAH S. & STRIPPING PUIBERP	5 POZ W/ 6% GEL + 2%C 1.35 YIELD - PLUG BUN P & CHOKE. TESTING 3 CMT. @ 1200 FT. DRILL OIL IN LIGHTPLANT. D	CACI+.25# CF = 125 BBEST. APED & HELD - <u>CIRC 116 S</u> RD PARTY BLINDS, CSG, I ING CMT, PLUG, FLOAT C RILL - 5716' - 5936'. CUT DI	Z.7# SLURRY W/ 1.88 YIELD - X.CMT. TO PIT. WOC. CUT OFF PIPE RAMS, CHOKE, KELLY OLLAR, FLOAT SHOE. DRLG. RILLING LINE,=100'. SURVEY @
WASH 90' TO BTM. / CIRC. BTMS UP.	2. DRILG. W/ BIT # 3 - 5936' - 6130'. DRIL AIR LINES, FOUND 7" CRACK 2' ABOVI	L - 6700' - 6862'. LOST 3: E PIN ON JT # 160 LAY I	50 PSI - CHECK SURFACE I DOWN SAME, SAFETY ME	EQUIP, PUMP SOFTLINE, PRESS
LOG. HALLIBURTON RAN COMPENS	SATED SONIC 6816 - 5000; DUAL LATE	EROLOG MICROGUARD	6864 - 5000; SPECTRAL DE	ENSITY DUAL SPACED
GEL + 5% SALT + .125 #CF + 6% FI-	& L-80 LT&C CSG. RIG DOWN CSG CF 52 = 325 BBLS 11.8# SLURRY W/ 2.44 Y	IELD & 400 SX 50:50 PO	Z C W/ 5% SALT + .6% FL2	5 = 92 BBLS 14.2# SLURRY W/
1.29 YTELD - DISPLACE W/ 159 BBLS RELEASE RIG 9/16/2005.	2% KCL WATER- PLUG BUMPED & H	ELD- CIRC 94 SX CMT T	TO PIT. ND BOP. SET SLIP	S. CUT OFF CSG.
I hereby certify that the information above is true a constructed or closed according to NMOCD gui	and complete to the best of my knowledg idelines], a general permit] or an	ge and belief. I further c (attached) alternative C	ertify that any pit or below DCD-approved plan .	•grade tank has been/will be
SIGNATURE Jana William	TITLE	KII DATE	15/05	
Type or print name LANA WILLIAMS	E-mail address: lana.williams@ap	achecorp.com	Telephone	No. 918-491-4980
This space for State use)				
APPPROVED BY	TITLEPETROLEUM E	NGINEER DA	<u>ET 1 7 2005</u>	
Conditions of approval, if any:		DA		

WELL LOGS

				and the second sec				
F A	PI number:	30-025-372	242					
	OGRID:		Operator:	APACHE (CORP			
			Property:	NORTHEA	ST DRINKA	RD UNIT		# 527
surface	ULSTR:	M	10		21S	R	37E	
			1310	FSL	330	FWL		
BH Loc	ULSTR:	M	10		215		37E	•
			1310	FSL	330	FWL		
							-	
Gr	ound Level:	3464	DF:	3474	KB:	3475		· · · · · · · · · · · · · · · · · · ·
	Datum:	KB			TD:	6862		
		•						
					Completic	on Date: (1)	10/7/2005	0
	Land:	STATE			Date Log	s Received:	12/5/2005	**Late
					Date Logs	Due in: (2)	10/27/2005	
Coi	nfidential:	NO		· ·		Date out:		
	Confidential	period: 90 Da	ys for State &	Fee, 1 Year f	or federal			
	Date Due In:	(1) is equal (o Completion	Date (1) + 20	days			
	Logs		Depth in	terval				
DSN/SD	L	:	200	6864	Spectral De	ensity Dual S	paced Neutr	on ·
DLL/MS	FL		5000	6864	Dual Latero	log Micro Sp	perically Focu	ised Log
					·			
·····					·		· · · ·	
		OCD TOP	5					•
							_	
Rustler		1276	Strawn			V		
Tansill			Atoka					
Yates		2637	Morrow					
7R		2858						
T. Bow								
B. Bow	vers Sd			·				
Queen		3431						

Apache Corporation 6120 S. Yale Ste 1500 Tulsa, OK 74136

M-10.215.37e 1310/54330/2 30.025-3724 NEDU # 527 Lea County New, Mexico 451 4.51 3/4 5.92 5.92 1.75 8.84 14.76 956 5.05 1 1.31 4.29 19.05 3.27 3/4 1283 1758 4.75 3/4 1.31 6.23 25.28 41.91 2233 4.75 2 3.50 16.63 2360 1.27 1 3/4 3.06 3.89 45.80 1 1/2 2.63 3.33 49.13 2487 1.27 1.27 1 1.75 2.22 51.35 2614 59.68 3090 4.76 1.75 8.33 1 1.75 8.89 68.57 3598 5.08 1 76.87 4072 4.74 1.75 8.30 1 1.75 8.31 85.18 4547 4.75 1 5047 1 1.75 8.75 93.93 5.00 4.79 1 1.75 8.38 102.31 5526 5904 3.78 1 1/4 2.19 8.27 110.58 4.85 1.75 8.49 6389 1 119.07 4.73 1.75 8.28 6862 1 127.35

Michael Roghair - General Manager

The attached instrument was acknowledged before me on the 19^{44} day of f_{eff} day o



in Notary Public

KAT



State of New Mexico

Snorgy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

Form C-102 Revised JUNE 10, 2003 Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

1220 SOUTH ST. FRANCIS DR. Santa Fe, New Mexico 87505 DISTRICT III 1000 Rio Brazos Rd., Astec. NM 87410 DISTRICT IV WELL LOCATION AND ACREAGE DEDICATION PLAT □ AMENDED REPORT 1220 S. ST. FRANCIS DR., SANTA PE, NM 87605 Pool Code Pool Name API Number 22900 30-025-37242 Eunice; Blinebry - Tubb - Drinkard - North Property Code **Property** Name Well Number NEDU 527 22503 Operator Name OGRID No. Elevation APACHE CORPORATION 3464' 00873 Surface Location Lot Idn Feet from the UL or lot No. North/South line Section Township Range Feet from the East/West line County Μ 10 21-S 37-E 1310 SOUTH 330 WEST LEA Bottom Hole Location If Different From Surface Lot Ida Feet from the North/South line UL or lot No. Section Township Range Feet from the East/West line County **Dedicated** Acres Joint or Infill Consolidation Code Order No. NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION OPERATOR CERTIFICATION I hereby certify the the information red herein is true and complete to the couledge and belief. Signatu GEODETIC COORDINATES Elaine Linton NAD 27 NME Printed Name Engineering Technician Y=543842.7 N X=862437.1 E December 2, 2005 Date LAT.=32"29'22.72" N LONG. = 103.09'28.47' SURVEYOR CERTIFICATION I hereby certify that the well locati on this plat was plotted from field notes of actual surveys made by me or under my supervison, and that the some is true and correct to the best of my belief. MARCH 22, 2005 anninnin Surveyed ElOSU Baroar Scal. of SO Salonal Surveyor Date Surveyed DEL 330 131/05 110479 Corelisions No. GABY BUSCH 12641 In THORES

DISTRICT II 1804 W. GRAND AVENUE, ARTESTA, MA 88210

DISTRICT I

1625 N. FRENCH OR. HOL

District I	Dr U-1-	. NM 89240			State of Ne				• .	Form C-1	
1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210								ces		Revised June 10, 20	
1301 W. Grand District III 1000 Rio Brazo					il Conservat				Submit to Ap	propriate District Of 5 Cop	
District IV 1220 S. St. Fran				12	20 South Si Santa Fe, N				. 🗆	AMENDED REPO	
	I.			OR ALL					O TRANSPO		 1
¹ Operator n Apache C					-			² OGRID Nun 00	1873	/	
	h Yale,	Suite 1500	•					³ Reason for F NW - 10/7	iling Code/ Effec /2005	tive Date	
⁴ API Numb	er	' Po	ol Name								
30 -025-37 7 Property C		< 8 Pro	perty Nan	ne	ubb - Drinka		I		9 Well Numb	ber 🧹	
22503	urface L	No	rtheast I	Drinkard	Unit				527		
UI or lat no.	Section	Township		Lot.Idn	Feet from the	1	uth Line	Feet from the	East/West line	· · ·	7
M	10	21S ole Locati	37E	l	1310	South		330	West	Lea	_1
UL or lot no.	Section			Lot Idn	Feet from the	North/So	uth line	Feet from the	East/West line	County	7
12 1 2 1	13 Dent	ucing Method		onnection	15 C 120 D	l	16	C-129 Effective	Data 17 C	129 Expiration Date	-
¹² Lse Code S	P	Code		Date 7/2005	¹⁵ C-129 Per	mut Numoer		C-129 Effective		129 Expiration Date	
			ters						22		-1
 ¹⁸ Transpor OGRIE	rter	" Tra	ansporter l and Addre	Name ss		POD	²¹ C		²² POD ULST and Desc	ription	_
195739		Plains Pipe Three Aller Houston, T	line LP Center,	333 Clay	,		0	Unit A NEDU	, Sec 2, T 21S, Central Tank	R 37E Battery	
											4
20809		Sid Richard 201 Main S Fort Worth	ison Gas treet, Su	oline Co. ite 3000			G	Unit A NEDU	, Sec 2, T 21S, Central Tank	R 37E Battery	
	1										_
024650		Dynergy M 1000 Louisi Houston, T	idstream ana, Sui	i Services te 5800			G	Unit A NEDU	, Sec 2, T 21S, E Central Tan	R 37E k Battery	
		nousion, I		· 						· · · · · · · · · · · · · · · · · · ·	_
										a sure particular	
				<u>.</u>					-13		
IV. Pro ²³ POD	duced V	Vater ²⁴ PO	DULSTR	Location	and Description	ı			N 00		7
2264750		Un	it A, Sec	2, T 21S,	R 37E, NED	U Central	Tank E	lattery	<u> 2</u> <u>3</u> <u>3</u>		
25 Spud D	ate	etion Data ²⁶ Ready	y Date		27 TD	²⁸ PE	TD	²⁹ Perforat	ions	7	
09/02/2005	1	0/07/2005		6862'		6843'		5629 - 6687		³⁰ DHC, MC	, ,
<u> </u>	lole Size		<u>24 Casir</u> 8-5/8''	ng & Tubin	ig Size	1283'	Depth S	cl	575 sx / circ 1	cks Cement	-
							<u> </u>				-
7-7/8"			5-1/2"			6862'			1150 sx / TO(208' CBL	_
VI. We	ll Test I	Data									
³⁵ Date Nev 10/07/200		³⁶ Gas Deli 10/07/200			Test Date 19/2005	³⁸ T 24 hrs	est Leng	th 39 T	bg. Pressure	40 Csg. Pressure	
41 Choke S		10/07/200 42 C			³ Water		⁴⁴ Gas		⁴⁵ AOF	46 Test Method	
		70		31		1030				Pumping	
47 I hereby ce	rtify that	the rules of t	he Oil Coi	nservation	Division have			OIL CONSER	VATION DIVIS	ION	Ì
been complie complete to the					s true and						
Signature:	4	amy	into	<u> </u>		Approved	by:		all.	EEP	
Printed name	laine Li	nton				Title:				UN ENGINEER	
Tide:	ngineer	ing Technie	cian		-	Approval I	Date:	7 2005	PETHUEL		
							, 63 (·	-1
E-mail Addre	ss: laine.lin	ton@apach	ecorp.co	m	1						1

			· ·								di Kanalari Kanalari		
Submit To Appropria State Lease - 6 copie			State of New Mexico			1				For	rm C-10		
Fee Lease - 5 copies District I		Energ	Energy, Minerals and Natural Resources				Revised June 10, 200 WELL API NO.						
	Hobbs, NM 88240					1	. API N 5-3724						
	pue, Artesia, NM 8821	ι υ (Oil Conservation Division					5. Indicate Type of Lease					
1000 Rio Brazos Rd	., Aztec, NM 87410		1220 South St. Francis Dr. Santa Fe, NM 87505				STATE X FEE State Oil & Gas Lease No.						
	Dr., Santa Fe, NM 8756												
the second second second second second second second second second second second second second second second se		VOR RECOMP	LETION REPOR	T AND I	_0 <u>G</u>	distant loss for							
	ELL 🛛 GAS WE	ELL 🗍 DRY 🗌	OTHER						eement Na Init	ime			
b. Type of Comp NEW 🔯 WELL		PEN [] PLUG [BACK		HER				2 ¹		. *			
2. Name of Operat						8. Well	No.						
Apache Corp	oration	•				527							
3. Address of Ope	rator					9. Pool n	ame or W	fildcat					
	ale, Suite 1500	Tulsa, OK 741	36-4224			Eunice	; Blinet	orý - Tu	ibb - Dri	inkard -	North 2		
4. Well Location													
Unit Letter	r <u> </u>	310 Feet From T	he South	Lin	e and 3	30	Feet	From Th	eWe	est	L		
Section	10	Township_2	21S	Range	37E	NMPM		Lea	L		County		
10. Date Spudded 09/02/2005	11. Date T.D. Ro 09/14/2005	eached 12. Date 10/07/2	Compl. (Ready to Prod. 2005	.) 13.	Elevations (DF& RKB, R	r, GR, etc	:.)	14. Elev.	Casinghea	d		
15. Total Depth	16. Plug E		. If Multiple Compl. Ho		18. Interva	als Rotary	Tools	_	Cable T	Tools	· <u> </u>		
. 6862'	6843'	. [Zones?	-	Drilled By				[
19. Producing Inte	erval(s), of this com	pletion - Top, Bottom	, Name		K			Was Dire	ectional Su	irvey Made	le ·		
Blinebry, Tubb	o, Drinkard and Other Logs Rut					22 11/-	NO s Well Co						
SD/DSN, DLL		· · · · · · · · · · · · · · · · · · ·				No	s well Co	160					
23.		C	ASING RECO	RD (Re	port all s	trings set	in wel	l)	<u> </u>		<u></u>		
CASING SIZE WEIGHT LE		HT LB./FT.	.B./FT. DEPTH SET 1283'		HOLE SIZE		NTING R	CEMENTING RECORD AMOUNT PULLED					
0 6/08	1						1	40					
the second second second second second second second second second second second second second second second s	24#			12-1/4"		575 sx			CBI				
the second second second second second second second second second second second second second second second s	24# 17#	68		12-1/4" 7-7/8"		575 sx 1150 s			CBL				
the second second second second second second second second second second second second second second second s					·				CBL				
5-1/2"		68	62'		·	1150 s	x / TO(208' (
8-5/8" 5-1/2" 24. SIZE		68		7-7/8"				208' (ECORD	PACKE	RSET		
5-1/2" 24.	17#	68	62'	7-7/8"		1150 s	x / TO(TUI	208' (ECORD	PACKE	R SET		
5-1/2" 24. SIZE	17# 	68 BOTTOM	62'	7-7/8"		1150 s. 25. SIZE 2-7/8"		2 208' (3ING RI DEPTH S 5713'	ECORD		R SET		
24. SIZE 26. Perforation r BLINEBRY 5	17# TOP record (interval, sizz 5629-32,82-84	68	62'	7-7/8" 	ID, SHOT, INTERVAL	1150 s 25. SIZE 2-7/8"		2 208' (3ING RI DEPTH S 5713' ENT, SQ	ECORD	ETC.	RSET		
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5-1/2" 24. SIZE 26. Perforation r BLINEBRY 5 32 & 6017-20 TUBB 6134- DRINKARD 28 Date First Product 10/07/2005 Date of Test	17# TOP record (interval, size 5629-32,82-84 0' 2 JSPF 38,93-97,6251 6578-82,6614 ion Hours Tested	68 BOTTOM e, and number) ,5720-24,5806-1 -57 & 6329-31' -18,54-58 & 668 Production Method (62' LINER RECORD SACKS CEMENT 10,72-75,5930- 2 JSPF 3-87' 2 JSPF PR	7-7/8" SCREEN 27. AC DEPTH 5629 - 6134 - 6578 - CODUC Ding - Size ar Oil - Bbl	ID, SHOT, INTERVAL 6020' 6331' 6687' FION Id type pump	1150 s 25. SIZE 2-7/8" FRACTURI AMOU 2000g 2000g 2000g 2000g 2000g 2000g 2000g 2000g 2000g	TUI TUI E. CEMI NT AND Jals 15 Jals 15 Jals 15 Jals 15 Jals 15	C 208 (BING RE DEPTH S 5713 ENT, SQ KIND M %HCl, %HCl, %HCl, 5 ' od. or Sh Water - B	ECORD ET DUEEZE, IATERIAL 41kgals 40kgals	ETC. USED gel+84 gel+82 gel+82 gel+82	il Ratio		
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5-1/2" 24. SIZE 26. Perforation r BLINEBRY 5 32 & 6017-20 TUBB 6134- DRINKARD 28 Date First Product 10/07/2005 Date of Test 10/19/2005 Flow Tubing	17# TOP record (interval, size 5629-32,82-84 0' 2 JSPF 38,93-97,6251 6578-82,6614 ion Hours Tested	68 BOTTOM BOTTOM e, and number) ,5720-24,5806-1 -57 & 6329-31' -18,54-58 & 668 Production Method (Pumping	62' LINER RECORD SACKS CEMENT SACKS CEMENT 10,72-75,5930- 2 JSPF 3-87' 2 JSPF PR (Flowing, gas lift, pump Prod'n For	7-7/8" 7-7/8" 7 SCREEN 27. AC DEPTH 5629 - 6134 - 6578 - 0012 C 0il - Bbl 70	ID, SHOT, INTERVAL 6020' 6331' 6687' FION Id type pump	1150 s 25. SIZE 2-7/8" FRACTURI AMOU 2000g 2000g 2000g 2000g 2000g 2000g 2000g 2000g 2000g	TUI TUI E. CEMI NT AND Jals 15 Jals 15 Jals 15 Status (P) Status (P) ducing	C 208 C BING RI DEPTH S 5713 ENT, SQ KIND M %HCl, %HCl	ECORD ET DUEEZE, ATERIAL 41kgals 42kgals 42kgals	ETC. USED gel+84 gel+82 gel+82 gel+82	4k# 20/4(2k# 20/4(2k# 20/4(1) 11.Ratio 1		
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INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 25 through 29 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southea	stern New Mexico	Northwe	estern New Mexico
T. Anhy	T. Canyon	T. Ojo Alamo	T. Penn "B"
T. Salt	T. Strawn	T. Kirtland-Fruitland	T. Penn. "C"
B. Salt	T. Atoka	T. Pictured Cliffs	T. Penn. "D"
T. Yates 2637'	T. Miss	T. Cliff House	T. Leadville
T. 7 Rivers 2858'	T. Devonian	T. Menefee	T. Madison
T. Queen 3431'	T. Silurian	T. Point Lookout	T. Elbert
T. Grayburg 3747'	T. Montoya	T. Mancos	T. McCracken
T. San Andres 3979'	T. Simpson	T. Gallup	T. Ignacio Otzte
T. Glorieta 5182'	T. McKee	Base Greenhorn	T. Granite
T. Paddock	T. Ellenburger	T. Dakota	Т.
T. Blinebry 5646'	T. Gr. Wash	T. Morrison	Τ.
T.Tubb 6123'	T. Delaware Sand	T.Todilto	Τ.
T. Drinkard 6458'	T. Bone Springs	T. Entrada	Τ.
T. Abo 6722'	T. Rustler 1275'	T. Wingate	Τ.
T. Wolfcamp	T.	T. Chinle	Τ.
T. Penn	T.	T. Permian	Τ.
T. Cisco (Bough C)	Τ.	T. Penn "A"	T.

			SANDS OR ZO	NES
No. 1. from		No. 3, from	to	
- · ·				
· · · · ·		ORTANT WATER SANDS		
Include data on rate of w	ater inflow and elevation to	o which water rose in hole.		

OIL OR GAS

No. 1. from	to	feet	
	to		
No 3 from	to	feet	

LITHOLOGY RECORD (Attach additional sheet if necessary)

From	То	Thickness In Feet	Lithology	From	То	Thickness In Feet	Lithology
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						-,	

VonGonten, Glenn, EMNRD

From: jerry brian [jrbrian@verizon.net]

Sent: Monday, February 05, 2007 1:12 PM

To: Larry Johnson; Johnson, Larry, EMNRD; Larry Johnson; VonGonten, Glenn, EMNRD

Cc: Page McNeill; Page McNeil; Harold Swain; Guinn Burks; David Woolf

Subject: Hungry Horse - Apache NEDU # 527-Work Plan

Hi Glen/Larry

Glen, as I indicated in prior discussions, we were in the process of conducting a "dig & haul" remediation closure on this site. I faxed all analyticals, the approved C-141, and a "Site Summary to you on the 11/8/06.

The current status of this site is that it has been excavated to a depth of 21' bgs. We were in the process of delineating the SW Quadrant to determine the vertical extent of chloride impact. Once that had been established, we were planning on capping the bottom of the entire pit area with a 20 ml liner and backfilling to grade with clean caliche.

We encountered groundwater at 62' in BH #3. The analyticals indicated that the chloride concentration is 2007 ppm. The analytical results for chlorides are as follows:

NW Quadrant (BH # 4)	Depth (bgs) 25' 30' 35' 40' 45' 50' 55'	Chlorides (ppm) 1408 1871 512 432 560 400 16
NE Quadrant (BH #1)	19' 25' 30'	288 240 112
Center	17'	, 112 ,
SE Quadrant (BH #2)	19' 25' 30' 35'	1935 4319 1328 128
SW Wrk. Pit SE Wrk. Pit	19' 19'	5118 224
SW Quadrant (BH #4)	19' 25' 30' 35' 40' 45' 50' 57' 60' 62'	8717 10,157 11,436 8237 3071 2159 1695 1663 656 2007(groundwater sample)

We would like to propose the following for your consideration and approval :

1. excavate the SW Quadrant to a depth of 38' bgs (which would put us at an extrapolated chloride concentration of approximately 5000 ppm) and cap with a 20 ml liner, and then backfill to 21' bgs with clean caliche

2. cap the entire excavated pit bottom (21' bgs) with a second 20 ml liner and backfill to grade with clean caliche

3. drill three monitor wells (two up-gradient and one down-gradient) to determine groundwater flow and gradient

4. begin to establish plume boundaries

5. evaluate data and modify plan accordingly

A drilling rig is available this week fo drill the monitoring wells.

Please advise. Thanks, JBrian - REM, REPA Geologist

VonGonten, Glenn, EMNRD

From: jerry brian [jrbrian@verizon.net]

Sent: Tuesday, February 06, 2007 12:48 AM

To: Larry Johnson; Johnson, Larry, EMNRD; Larry Johnson; VonGonten, Glenn, EMNRD

Subject: Hungry Horse - Apache NEDU #527 Site Photos

Attachments: NEDU 527 002.jpg; NEDU # 527 003.jpg; NEDU # 527 002.jpg

Hi Glen,

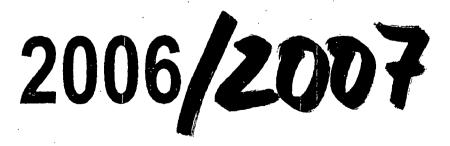
I am still trying to get this to you ...

Thanks, JB

3/24/2008

GENERAL CORRESPONDENCE

YEAR(S):



GENERAL CORRESPONDENCE

YEAR(S):

2006/2007

GENERAL CORRESPONDENCE

YEAR(S):

2006/2007

VonGonten, Glenn, EMNRD

From:	VonGonten, Glenn, EMNRD
Sent:	Tuesday, February 06, 2007 7:55 AM

To: 'jerry brian'; Larry Johnson; Johnson, Larry, EMNRD; Larry Johnson

Subject: RE: Hungry Horse - Apache NEDU #527 Stage 1 Abatement Plan

Follow Up Flag: Follow up

Flag Status: Red

Jerry,

How about making it due on February 12, 2007? Would that be enough time?

Glenn

From: jerry brian [mailto:jrbrian@verizon.net]

Sent: Tuesday, February 06, 2007 12:31 AM

To: Larry Johnson; Johnson, Larry, EMNRD; Larry Johnson; VonGonten, Glenn, EMNRD **Subject:** Hungry Horse - Apache NEDU #527 Stage 1 Abatement Plan

Hi Glen,

Well it is early in the morning and I really tried to get this to you under the deadline....I ran out of time and lost my file when I started to email it to you. I had printed a rough draft out thankfully and faxed it to you.

If you think that it might be possible to for me to obtain an extension on this, it would be give me time to be more professional.

If not, I understand, and this will have to do for the time being.

I will contact you tomorrow.

Thanks, JBrian

APACHE ENERGY CORPORATION

NEDU # 527

API#30-025-37242

STAGE 1 ABATEMENT PLAN (AP068)

UL-M OF SECTION 10 T21S R37E

LATITUDE: N32⁰ 29.387'

LONGITUDE: 103° 09.502'

LEA COUNTY, NEW MEXICO

FEB. 5, 2007

PREPARED FOR APACHE CORPORATION BY:

Hungry Horse, LLC P.O. Box 1058. Hobbs, New Mexico 88241 Phone (505) 393-3386; Fax (505) 391-4585

1.0 Company Contacts

CONTACT INFORMATION

Apache Corporation: Harold Swain, Permian Basin Drilling Foreman Phone: 915-527-3311 email: <u>Harold. Swain@USA.ApacheCorp.com</u> Mailing Address: P.O. Box 848, Wink, TX 79789

Hungry Horse, LLC: Jerry Brian, General Manager/Environmental Consultant Phone: 505-393-3386 email: jrbrian@verizon.net Mailing Address: P.O. Box 1058, Hobbs, NM 88241

2.0 Introduction

By letter dated November 29, 2006, the New Mexico Oil Conservation Division is requiring Apache Corporation to submit a State 1 investigation proposal to complete the definition of the lateral and vertical extent of groundwater contamination at the Apache NEDU # 527 well site located in Unit M, Section 10, T21S – R37E, Lea County New Mexico. The plan is being required pursuant to OCD Rule 19.E.1 and OCD Rule 19.E.3. The stage 1 abatement plan presented herein complies with the requirements of these rules and incorporates work already performed at the site prior to detection of the groundwater impact.

3.0 Background

On the 7/23/06, Hungry Horse, LLC began to conduct a "dig & haul' remediation pit closure procedure on the NEDU # 527. All drilling material and chloride impacted material below the liner was removed to a depth of 10' bgs and disposed of at Sundance disposal facility.

On the 7/31/06, we began extracting samples beneath the pit liner for chloride analysis. Chloride impacted material has been removed to a depth of 21' bgs. Approximately 9000 yrds³ have been removed and disposed of at Sundance disposal facility.

Vertical delineation continued until impacted groundwater was encountered in the SW Quadrant (BH # 3) at 62' bgs. The impact was reported to the New Mexico

Oil Conservation Division (OCD) District One office in Hobbs and to Glen Von Gotten at the OCD office in Santa Fe, NM on the 7/19/06.

4.0 Investigation Status

Prior to presentation of the Abatement Plan later in the document, the soil and groundwater work performed to date will be briefly reviewed below.

Based on investigation results and pursuant to NMOCD guidelines ("Guidelines for Remediation of Leaks, Spills and Releases" New Mexico Oil Conservation Division – August 13, 1993), Hungry Horse, LLC submitted a Risk Based remedial/clean-up work plan to the NMOCD on the 2/5/07. The work plan included further excavation of high chloride impacted materials above the water table, utilizing a double cap method to prevent any further vertical downward migration of chlorides. It also proposed drilling three initial groundwater-monitoring wells to establish groundwater gradient and water quality.

4.1 Vertical and Horizontal Extent of Contamination in the Vadose Zone

Preliminary investigation of the extent of soil contamination was performed from the 7/31/06 until the 9/19/06.

On the 7/31/06, we began extracting samples beneath the pit liner for chloride analysis. A 5-point sampling plan (see site sampling map) was conducted in the pit area (NW quadrant, NE quadrant, Center, SW quadrant). Sample points were located in the center of each quadrant, and one sample point located in the center of the pit area.

The working pit area closest to the wellhead was divided into 3 areas (E Wrk Pit, Center Wrk Pit, and SW Wrk Pit). Sample points were located in the center of each area.

Samples were extracted from 10' bgs to 19' bgs. Field chloride tests were conducted to determine if chloride concentrations exceeded the acceptable MCL of 250 ppm.

A total of 16 confirmation grab samples were retrieved. These samples were properly packaged, preserved, and transported under Chain-of-Custody to Cardinal Laboratories of Hobbs, New Mexico for analysis. All samples were analyzed for Chlorides (EPA Method: 4500-Cl⁻B).

Confirmation samples were extracted in the NE quadrant at 10'bgs, and 19' bgs. Analytical results indicated chloride concentrations were 17275 ppm, and 288 ppm, respectively (see table). Confirmation samples were extracted in the NW quadrant at 12', 16'and 19' bgs. Analytical results indicated chloride concentrations were 16315 ppm, 8797 ppm, and 8557 ppm, respectively (see table).

Confirmation samples were extracted in the Center quadrant at 10', 12', 16'and 17' bgs. Analytical results indicated chloride concentrations were 2255 ppm, 272 ppm, 6158 ppm, and 112 ppm, respectively (see table).

Confirmation samples were extracted in the SW quadrant at 12', 16', 17', and 19' bgs. Analytical results indicated chloride concentrations were 26872 ppm, 37988 ppm, 10477 ppm, and 8717 ppm, respectively (see table).

Confirmation samples were extracted in the SE quadrant at 10', 16', and 19' bgs. Analytical results indicated chloride concentrations were 12396 ppm, 5806 ppm, and 1935 ppm, respectively (see table).

Confirmation samples were extracted in the Center Wrk Pit at 14' bgs. Analytical results indicated the chloride concentration was 176 ppm (see table).

Confirmation samples were extracted in the SW Wrk Pit at 14', and 19' bgs. Analytical results indicated chloride concentrations were 9677 ppm, and 5118 ppm, respectively (see table).

Confirmation samples were extracted in the E Wrk Pit at 19' bgs. Analytical results indicated the chloride concentration was 224 ppm (see table).

DATE			CI
7/31/06	NE	10' BGS	17275
9/6/06	NE	19' BGS	288
7/31/06	NW	12' BGS	16315
8/806	NW	16' BGS	8797
9/6/06	NW	19' BGS	8557
7/31/06	С	10' BGS	2255
7/31/06	С	12' BGS	272
8/8/06	<u> </u>	16' BGS	6158
8/8/06	<u> </u>	17' BGS	112
7/31/06	SW	12' BGS	26872
8/8/06	SW	16' BGS	37988
8/8/06	SW	17' BGS	10477
9/6/06	SW	19' BGS	8717
7/31/06	SE	10' BGS	12396
. 8/8/06	SE	16' BGS	5806
9/6/06	SE	19' BGS	1935
8/8/06	C.WRK.PIT	14' BGS	176
8/8/06	SW.WRK.PIT	14' BGS	9677
8/28/06	SW.WRK.PIT	19' BGS	5118

9/6/06	E.WRK.PIT	19' BGS	224
9/14/06	BH #1	25' BGS	240
9/14/06	BH #1	30' BGS	112
9/14/06	BH #1	35' BGS	48
9/14/06	BH #2	25' BGS	4319
9/14/06	BH #2	30' BGS	1328
9/14/06	BH #2	35' BGS	128
9/14/06	BH #3	25' BGS	· 10157
9/14/06	BH #3	30' BGS	11436
9/14/06	BH #3	35' BGS	8237
9/14/06	BH #3	40' BGS	3071
9/14/06	BH #3	45' BGS	. 2159
9/14/06	BH #3	50' BGS	1695
9/19/06	BH #3	57' BGS	1663
9/19/06	BH #3	60' BGS	656
9/19/06	BH #3	62' BGS	2007*
9/19/06	BH #4	25' BGS	1408
9/19/06	BH #4 Ć	30' BGS	1871
9/19/06	BH #4	35' BGS	512
9/19/06	BH #4	40' BGS	432
9/19/06	BH #4	45' BGS	560
9/19/06	BH #4	50' BGS	400
9/19/06	BH #4	55' BGS	16

* - Saturated Zone (groundwater sample)

On the 9/14/06 and the 9/19/06, four bore holes (BH #1 - NE quadrant, BH #2 – SE quadrant, BH #3 – SW Quadrant, BH #4 – NW quadrant) (see site sampling map) were drilled and split spoon sampling conducted every 5'. A total of 22 discrete grab samples were retrieved.

The samples were properly packaged, preserved, and transported under Chain-of-Custody to Cardinal Laboratories of Hobbs, New Mexico for analysis. All samples were analyzed for Chlorides (EPA Method: 4500-Cl⁻B).

BH # 1- NE quadrant and BH #2 – SE quadrant were sampled at 25', 30', and 35' bgs respectively.

Chloride analysis at 25', 30', and 35' bgs indicated concentrations at BH #1 were 240 ppm, 112 ppm, and 48 ppm, respectively (see table,).

Chloride analysis at 25', 30', and 35' bgs indicated concentrations at BH #2 were 4319 ppm, 1328 ppm, and 128 ppm, respectively (see table,).

BH #3 – SW Quadrant was sampled at 25', 30', 35', 40', 45', 50', 55', 57', 60', and 62' bgs respectively.

Chloride analysis at 25', 30', 35', 40', 45', 50', 57', 60', and 62' bgs indicated concentrations at BH #3 were 10,157 ppm, 11,436 ppm, 8237 ppm, 3071 ppm, 2159 ppm, 1695 ppm, 1663 ppm, 656 ppm, and 2007 ppm (saturated zone), respectively (see table,).

BH #4 – NW Quadrant was sampled at 25', 30', 35', 40', 45', 50', and 55' bgs respectively.

Chloride analysis at 25', 30', 35', 40', 45', 50', and 55'bgs indicated concentrations at BH #4 were 1408 ppm, 1871 ppm, 512 ppm, 432 ppm, 560 ppm, 400 ppm, and 16 ppm, respectively (see table,).

4.2 Groundwater Characterization

Groundwater was encountered in BH #3 at 62' bgs with a chloride concentration of 2007 ppm.

The samples were properly packaged, preserved, and transported under Chain-of-Custody to Cardinal Laboratories of Hobbs, New Mexico for analysis. All samples were analyzed for Chlorides (EPA Method: 4500-ClB).

5.0 Abatement Plan

The purpose of the Stage 1 abatement plan is "to design and conduct a site investigation that will adequately define site conditions, and provide the data necessary to select and design an effective abatement option." Pursuant to OCD Rule 19.E.3, a State 1 abatement plan may include but not be limited to information as needed to select and implement an abatement option. Accordingly, Apache will generate and include the following information and date in the report to be submitted following such site investigation as necessary to determine abatement options. Information previously generated and included with this report is expected to satisfy some to the investigation report requirements.

a. Descriptions of the site, including a site map, and of site history including the mature of the release that caused the water impact, and a summary of previous investigations;

Information satisfying much of the requirement is submitted herein. It will be updated as necessary for submittal with the Stage 1 report.

b. Additional site investigation to define (i) site geology and hydrogeology, the vertical and horizontal extent and magnitude of

groundwater contamination, subsurface hydraulic conductivity, transmissivity, storativity; and rate and direction of contaminant migration, inventory of water wells inside and within one (1) mile from the perimeter of the three dimensional body where the standards set forth in [the rule] are exceeded, and location and number of such wells actually or potentially affected by the impact; and (ii) surfacewater hydrology, seasonal stream flow characteristics, groundwater/surface-water relationships,...[etc.]

Additional investigation is necessary to fill gaps in data already collected at the site, including the drilling and installation of monitor wells, and measurement of aquifer properties. An inventory of water wells will be conducted within one mile of the perimeter of the site and wells that potentially could be affected by the contamination identified. Three temporary monitor wells will be installed and completed as permanent wells with a bentonite seal to within 2 ft. of the surface and a metal protective locking box cemented at the surface. Following evaluation of data collected from the initial monitor wells, additional monitoring wells will be drilled as deemed necessary.

To determine the hydraulic conductivity and transmissivity of the sediments, groundwater slug-tests will be conducted on the monitor wells and the draw down and recovery data analyzed with procedures commonly utilized for the purpose. Determination of storativity usually requires installation of closely spaced monitor wells so that one can serve as an observation well for the pumping well. At this location with a shallow water table, storativity can be estimated from technical publications and a separate monitor well solely for this purpose is not necessary.

No intermittent, ephemeral or permanent sources of surface water are present in the area of the impact, so no hydrological or biological studies of the impact of the release on surface water are necessary.

Monitoring program, including sampling stations and frequencies, for the duration of the abatement plan that may be modified, after approval by the Director, as additional sampling stations are created.

с.

Following installation of the monitoring wells, they will be developed to remove any mud, silt and sand inadvertently introduced during the drilling process. The well locations and elevations will be located and surveyed by a registered professional surveyor. Water levels will be measured quarterly and wells will be sampled quarterly for CoC's following purging to ensure a fresh sample. In addition, the initial sampling will also include major cations and anions to establish a baseline condition for these constituents. Quality assurance plan, consistent with the sampling and analytical techniques listed in [the Water Quality Control Commission regulations] for all work to be conducted pursuant to the abatement plan.

Samples will be collected and handled in accordance with appropriate protocols for collection, preservation and transport of samples including maintaining a chain-of-custody and record keeping. The analytical laboratory selected to perform the analyses will be monitored for compliance with the applicable QA/QC standards.

e.

A schedule for all Stage 1 abatement plan activities, including the submission of summary quarterly progress reports, and the submission, for approval by the Director, of a detailed final site investigation report.

It is expected that all investigation work proposed within the Stage 1 abatement plan will be completed within three months of the date of approval. Quarterly progress reports will be submitted within 30 days following the end of the previous quarter. The report will include work performed and analytical results from testing of water quality in new and existing monitor wells. A final report will be prepared and submitted within 60 days of the completion of the work.

f.

Any additional information that may be required to design and perform and adequate site investigation.

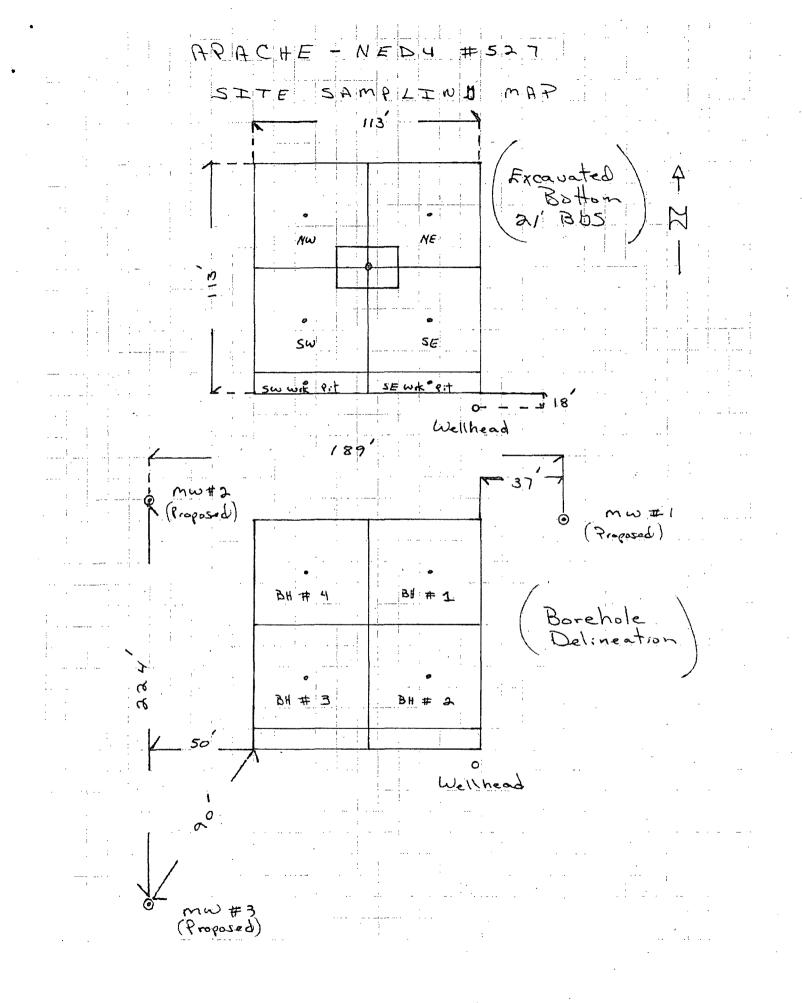
The information necessary to design and perform an adequate site investigation is included in the above paragraphs.

d.

GENERAL CORRESPONDENCE

YEAR(S):

2006/2007





NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON Governor Joanna Prukop Cabinet Secretary

Mark E. Fesmire, P.E. Director Oil Conservation Division

CERTIFIED MAIL RETURN RECEIPT NO: 3929 4029 ACCd @12(05 (2006

NOVEMBER 29, 2006

Mr. Harold Swain Apache Corporation P.O. Box 849 Wink, TX 79789

RE: REQUIREMENT TO SUBMIT ABATEMENT PLAN APACHE CORPORATION NEDU 527 API NO. 30-025-37242 SECTION 10, TOWNSHIP 21 SOUTH, RANGE 37 EAST LEA COUNTY, NEW MEXICO AP068

Dear Mr. Swain:

The New Mexico Oil Conservation Division (OCD) has determined after reviewing the *Pit Delineation Plan – Apache Corporation – NEDU # 527* submitted by Mr. Jerry Brian of Hungry Horse Environmental on behalf of Apache Corporation (Apache), that Apache must submit a Stage 1 Abatement Plan in accordance with OCD Rule 19 (19.15.1.19 NMAC) to investigate the ground water contamination at its NEDU 527 drilling pit located in Section 10, Township 21 South, Range 37 East, Lea County, New Mexico. The Stage 1 Abatement Plan proposal must be submitted to the OCD Santa Fe Office with a copy provided to the OCD Hobbs District Office and must meet of all the requirements specified in OCD Rule 19 (19.15.1.19 NMAC), including, but not limited to, the public notice and participation requirements specified in Rule 19G. The Stage 1 Abatement Plan is due sixty (60) days from the receipt by Apache of this written notice.

Apache's Stage 1 Abatement Plan must specifically meet all of the requirements specified in OCD Rule 19E.3, including, but not limited to, a site investigation work plan and monitoring program that will enable it to characterize the chloride release using an appropriate number of isoconcentration maps and cross sections that depict the contamination that has been released

Oil Conservation Division * 1220 South St. Francis Drive * Santa Fe, New Mexico 87505 Phone: (505) 476-3440 * Fax (505) 476-3462 * <u>http://www.emnrd.state.nm.us</u> Mr. Harold Swain November 29, 2006 Page 2

from the former pit and to provide the data necessary to select and design an effective abatement option. Apache may, if it chooses, concurrently submit a Stage 2 Abatement Plan that addresses appropriate proactive abatement options.

Apache should submit one paper copy with and an electronic copy on CD of all future workplans and/or reports. If you have any questions, please contact Glenn von Gonten of my staff at (505) 476-3488.

Sincerely,

6/AM

Wayne Price Environmental Bureau Chief

cc: Chris Williams, OCD Hobbs District Supervisor Larry Johnson, OCD Hobbs

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Oll Conservation Division 1220 S. St. Francis Drive Santa Fe, NM 87505

November 6, 2006

Mr. Glen Von Gonten Environmental Engineer Specialist NM Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

Reference:

Pit Delineation Plan- Apache Corporation NEDU # 527 Section 10, T21S-R37E API No.: 30-025-37242 Lea County, NM

Mr. Von Gotten:

On the 7/23/06, we began to conduct our "dig & haul" remediation on the NEDU # 527. All contents of the pit were removed and transported to Sundance Disposal Facility, Eunice, NM.

Depth to groundwater is $< 50^{\circ}$ bgs.

On the 7/31/06, we began extracting samples beneath the pit liner for chloride analysis. A 5-point sampling plan was conducted in the pit area (NW quadrant, NE quadrant, Center, SW quadrant). Sample points were located in the center of each quadrant, and one sample point located in the center of the pit area.

The working pit area closest to the wellhead was divided into 3 areas (E Wrk Pit, Center Wrk Pit, and SW Wrk Pit). Sample points were located in the center of each area.

Samples were extracted from 10' bgs to 19' bgs. Field chloride tests were conducted to determine if chloride concentrations exceeded the acceptable MCL of 250 ppm.

A total of 16 confirmation grab samples were retrieved. These samples were properly packaged, preserved, and transported under Chain-of-Custody to Cardinal Laboratories of Hobbs, New Mexico for analysis. All samples were analyzed for Chlorides (EPA Method: 4500-Cl⁻B).

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7/31/06	SW	12' BGS	26872
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8/8/06	SW -	17' BGS	10477
9/6/06	SW	19' BGS	8717
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9/6/06	SE	19' BGS	1935
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9/6/06	E.WRK.PIT	19' BGS	224
9/14/06	BH #1	25' BGS	240
9/14/06	BH #1	30' BGS	112
9/14/06	BH #1	35' BGS	48
9/14/06	BH #2	25' BGS	4319
9/14/06	BH #2	30' BGS	1328
9/14/06	BH #2	35' BGS	128
9/14/06	BH #3	25' BGS	10157
9/14/06	BH #3	30' BGS	11436
9/14/06	BH #3	35' BGS	8237
9/14/06	BH #3	40' BGS	3071
9/14/06	BH #3	45' BGS	2159
9/14/06	BH #3	50' BGS	1695
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9/19/06	BH #4	50' BGS	400
9/19/06	BH #4	55' BGS	16

* - Saturated Zone (groundwater sample)

On the 9/14/06 and the 9/19/06, four bore holes (BH #1 - NE quadrant, BH #2 – SE quadrant, BH #3 – SW Quadrant, BH #4 – NW quadrant) were drilled and split spoon sampling conducted every 5'. A total of 22 discrete grab samples were retrieved.

The samples were properly packaged, preserved, and transported under Chain-of-Custody to Cardinal Laboratories of Hobbs, New Mexico for analysis. All samples were analyzed for Chlorides (EPA Method: 4500-Cl⁻B).

BH # 1- NE quadrant and BH #2 - SE quadrant were sampled at 25', 30', and 35' bgs respectively.

Chloride analysis at 25', 30', and 35' bgs indicated concentrations at BH #1 were 240 ppm, 112 ppm, and 48 ppm, respectively (see table,).





Chloride analysis at 25', 30', and 35' bgs indicated concentrations at BH #2 were 4319 ppm, 1328 ppm, and 128 ppm, respectively (see table,).

BH #3 – SW Quadrant was sampled at 25', 30', 35', 40', 45', 50', 55', 57', 60', and 62' bgs respectively.

Chloride analysis at 25', 30', 35', 40', 45', 50', 57', 60', and 62' bgs indicated concentrations at BH #3 were 10,157 ppm, 11,436 ppm, 8237 ppm, 3071 ppm, 2159 ppm, 1695 ppm, 1663 ppm, 656 ppm, and 2007 ppm (saturated zone), respectively (see table,).

BH #4 – NW Quadrant was sampled at 25', 30', 35', 40', 45', 50', and 55' bgs respectively.

Chloride analysis at 25', 30', 35', 40', 45', 50', and 55'bgs indicated concentrations at BH #4 were 1408 ppm, 1871 ppm, 512 ppm, 432 ppm, 560 ppm, 400 ppm, and 16 ppm, respectively (see table,).

Groundwater was encountered in BH #3 at 62' bgs with a chloride concentration of 2007 ppm.

Sincerely, Jerry R. Brian - REM, REPA

Geologist Hungry Horse Environmental P.O. Box 1058 Hobbs, NM 88241

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PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 + 101 E. MARLAND + HOBBS, NM 88240

ANALYTICAL RESULTS FOR HUNGRY HORSE, LLC ATTN: JERRY BRIAN P.O. BOX 1058 HOBBS, NM 88241 FAX TO: (505) 393-3386

Receiving Date: 09/20/06 Reporting Date: 09/21/06 Project Owner: APACHE Project Name: NEDU #527 Project Location: LEA COUNTY, NM

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NOV 27 2006

Oil Conservation Division 1220 S. St. Francis Drive Analysis Date: 09/24/06 NM 87505 Sampling Date: 09/19/06 Sample Type: SOIL & WATER Sample Condition: COOL & INTACT Sample Received By: NF Analyzed By: HM

		CI
LAB NO.	SAMPLE ID	(ppm)
H11550-1	BH#3-57' BGS	*1663
H11550-2	BH#3-60' BGS	*656
H11550-3	BH#3-62' BGS	2007
H11550-4	BH#4-25' BGS	*1408
H11550-5	BH#4-30' BGS	*1871
H11550-6	BH#4-35' BGS	*512
H11550-7	BH#4-40' BGS	*432
H11550-8	BH#4-45' BGS	*560
H11550-9	BH#4-50' BGS	*400
H11550-10	BH#4-55' BGS	*16
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Quality Cont		960
True Value (1000
% Recovery		96
Relative Per	cent Difference	1.0

METHOD: Standard Methods 4500-CI B *NOTE: Analyses performed on 1:4 w:v aqueous extracts.

Date

H11550

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 annount paid by client for instityes; All claims, including hose 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 profils incured by client, its subsidiarities, 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.





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PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR HUNGRY HORSE LLC ATTN: JERRY BRIAN 4614 N. GRIMES HOBBS, NM 88240 FAX TO:

Receiving Date: 09/15/06 Reporting Date: 09/15/06 Project Owner: APACHE (APA-06-002) Project Name: NEDU #527 Project Location: NOT GIVEN Analysis Date: 09/15/06 Sampling Date: 09/14/06 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: BC Analyzed By: HM

		· CI
LAB NO.	SAMPLE ID	(mg/kg)
H11539-1	S091406-BH1-25	240
H11539-2	S091406-BH1-30	112
H11539-3	S091406-BH1-35	48
H11539-4	S091406-BH2-25	4319
H11539-5	S091406-BH2-30	1328
H11539-6	S091406-BH2-35	128
H11539-7	S091406-BH3-25	10157
H11539-8	S091406-BH3-30	11436
H11539-9	S091406-BH3-35	8237
H11539-10	S091406-BH3-40	3071
H11539-11	S091406-BH3-45	2159
H11539-12	S091406-BH3-50	1695
Quality Cont	rol	990
True Value (JC	1000
% Recovery		99
Relative Per	cent Difference	1.0

METHOD: Standard Methods 4500-CI'B NOTE: Analyses performed on 1:4 w:v aqueous extracts.

18-01 Date

H11539

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 mindyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thiny (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



PHONE (325) 673-7001 · 2111 BEECHWOOD · ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR HUNGRY HORSE LLC ATTN: JERRY BRIAN P.O. BOX 1058 HOBBS, NM 88241 FAX TO: (505) 393-3386

Receiving Date: 09/06/06 Reporting Date: 09/07/06 Project Owner: APACHE Project Name: APACHE NEDU #527 Project Location: APACHE NEDU # 527 Analysis Date: 09/07/06 Sampling Date: 09/06/06 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: BC Analyzed By: HM

SAMPLE ID LAB NO.

CI⁻ (mg/kg)

H11511-1 E - WORKING PIT - 19' BGS	224
H11511-2 NE - 19' BGS	288
H11511-3 SE - 19' BGS	1935
Quality Control	980
True Value QC	1000
% Recovery	98
Relative Percent Difference	1.0

METHOD: Standard Methods 4500-CI'B NOTE: Analyses performed on 1:4 w:v aqueous extracts.

Û Date

H11511

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the upplicative 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, alfiliates 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.



PHONE (325) 673-7001 · 2111 BEECHWOOD · ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR HUNGRY HORSE LLC ATTN: JERRY BRIAN P.O. BOX 1058 HOBBS, NM 88241 FAX TO: (505) 393-3386

Receiving Date: 09/05/06 Reporting Date: 09/06/06 Project Owner: APACHE Project Name: NEDU #527 Project Location: LEA COUNTY Analysis Date: 09/06/06 Sampling Date: 08/28/06 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: NF Analyzed By: HM

LAB NO. SAMPLE ID

Cl⁻ (mg/kg)

H11500-1 NW - 19' BGS	8557
H11500-2 SW - 19' BGS	. 8717
H11500-3 SW - WRK PIT - 19' BGS	5118
· · · · · · · · · · · · · · · · · · ·	
Quality Control	990
True Value QC	1000
% Recovery	99
Relative Percent Difference	1.0

METHOD: Standard Methods 4500-CI'B NOTE: Analyses performed on 1:4 w:v aqueous extracts.

Chemist

-06-06 Date

H11500

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 anticityes. 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 we liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, alfiliates 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.



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PHONE (505) 393-2326 + 101 E. MARLAND + HOBBS, NM 88240

ANALYTICAL RESULTS FOR HUNGRY HORSE ATTN: JERRY BRIAN P.O. BOX 1058 HOBBS, NM 88241 FAX TO: (505) 393-3386

Receiving Date: 08/17/06 Reporting Date: 08/18/06 Project Owner: APACHE Project Name: NEDU #527 Project Location: LEA COUNTY, NM

LAB NO.

SAMPLE ID

Analysis Date: 08/18/06 Sampling Date: 08/08/06 & 08/16/06 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: BC Analyzed By: AB

Cl⁻⁻ (mg/kg)

H11451-1	C - 16' BGS	6158
H11451-2	SE - 16' BGS	5806
H11451-3	NW - 16' BGS	8797
H11451-4	SW - 16' BGS	37988
H11451-5	C WRK PIT - 14' BGS	176
H11451-6	SW WRK PIT - 17' BGS	9677
H11451-7	C - 17' BGS	112
H11451-8	SW - 17' BGS	10477
Quality Cor	atrol	980
True Value		1000
% Recover	y	98
Relative Pe	arcent Difference	2.0

METHOD: Standard Methods 4500-CI'B NOTE: Analyses performed on 1:4 w:v aqueous extracts.

Cher

Date

H11451

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 analysis. All claims, including those for negligence and any other cause whatsoever shall be deemed waiwed unless made in writing and received by Cardinal within thiny (30) days after completion of the applicable service. In no event shall Cardinal we liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or bios of profits incurred by client, its subsidiaries, attiliates 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.





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PHONE (505) 393-2326 · 101 E. MARLAND · HOBBS, NM 88240

ANALYTICAL RESULTS FOR HUNGRY HORSE LLC ATTN: JERRY BRIAN P.O. BOX 1058 HOBBS, NM 88241 FAX TO: (505) 393-3386

Receiving Date: 08/07/06 Reporting Date: 08/08/06 Project Owner: APACHE Project Name: NEDU #527 Project Location: LEA COUNTY, NM Analysis Date: 08/08/06 Sampling Date: 07/31/06 & 08/07/06 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: HM Analyzed By: AB

LAB NO. SAMPLE ID

CI⁻⁻⁻ (mg/kg)

H11417-1	SE-10' BGS	12396
H11417-2	NE-10' BGS	17275
H11417-3	C-10' BGS	2255
H11417-4	C-12' BGS	272
H11417-5	SW-12' BGS	26872
H11417-6	NW-12' BGS	16315
<u> </u>		
Quality Cor	ntrol	980
True Value	QC	1000
% Recover	4	98
Relative Pe	rcent Difference	2.0
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METHOD: Standard Methods 4500-CI'B NOTE: Analyses performed on 1:4 w:v aqueous extracts.

. Teno Chemist

H11417

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 an algorithm of the applicable. 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 be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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ARDINAL LABORATORIES, INC. 2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240 (915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES, INC.

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ARDINAL LABORATORIES, INC. 2111 Beechwood, Abliene, TX 79603 101 East Marland, Hobba, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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District [State of	New Mexico		
1625 N. French Dr., Hobbs, NM 88240 District II		and Natural Resourc	~ • • • •	Form C-141 Revised October 10, 2003
1301 W. Grand Avenue, Artesia, NM 88210 District III		•		
1000 Rio Brazos Road, Aztec, NM 87410		rvation Division		Submit 2 Copies to appropriate District Office in accordance
District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505		h St. Francis Dr. e, NM 87505		with Rule 116 on back side of form
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•	Release Notification		e Action	
News of Comments Amatha Comme		OPERATOR	<u>⁄</u>	Initial Report 🗌 Final Report
Name of Company – Apache Corpora Address – P.O. Box 849 Wink, TX 7		Contact - Harold Swai Telephone No 505-3		· · · · · · · · · · · · · · · · · · ·
Facility Name - NEDU 527 API # -		Facility Type - Produc		
Surface Owner	Mineral Owner	· · · · · · · · · · · · · · · · · · ·		Lease No.
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Latitude - ?	N 32 degrees 29.387' Longi	tude - W 103 degrees (09.502'	
· · · · ·		OF RELEASE		
Type of Release - Brine Water	NATURE	Volume of Release	V	olume Recovered
Source of Release - compromised pit line	er	Date and Hour of Occa		ate and Hour of Discovery 7/19/06
Was Immediate Notice Given?		If YES, To Whom?	7:	30 AM
	ies 🔲 No 🗌 Not Required		on Goten	
By Whom? Jerry Brian - Hungry Horse H	Environmental	Date and Hour		
Was a Watercourse Reached?	Yes 🗍 No	If YES, Volume Impac unknown	ting the Waterco	ourse.
If a Watercourse was Impacted, Describe Analytical results indicated that groundw	ater has been impacted. Chlorid	de results of groundwater	at 62' bgs is 200)7 ppm.
Describe Cause of Problem and Remedia	l Action Taken.*		٠	· · ·
Drilling pit liner had somehow been com under chain-of-custody	promised and leaked below the l	liner. Field chloride test v	were conducted a	and sample taken to Cardinal laboratory.
		· <u>····</u> —		
Describe Area Affected and Cleanup Act	ion Taken.*			
Pit contents were removed and taken to s ppm was excavated to a depth of 19' bgs once vertical delineation had been establi	s and transported to Sundance di			
I hereby certify that the information given regulations all operators are required to re- public health or the environment. The ac- should their operations have failed to ade or the environment. In addition, NMOCI federal, state, or local laws and/or regulat	eport and/or file certain release r ceptance of a C-141 report by the equately investigate and remediat D acceptance of a C-141 report of	notifications and perform ne NMOCD marked as "F te contamination that pose	corrective action inal Report" does a threat to group	s for releases which may endanger s not relieve the operator of liability nd water, surface water, human health
Reletat, state, of focal laws and of regime	eting Agent	<u>OIL C</u>	CONSERVA	TION DIVISION
Signature: J. Hiven A	En Hpache Cosp.	Approved by District Sur	pervisor:	
Printed Name: Lever Dr.v Enveronmental Vhar Title:	agen - Hungry Horse C	Approval Date:	Ext	piration Date:
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E-mail Address: jobran Queri Date: 11606	505-390- Phone: 6149	Conditions of Approval:		Attached
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November 6, 2006

Mr. Glen Von Gotten Environmental Engineer Specialist NM Oil Conservation Division 1625 N. French Dr. Hobbs, NM 88240

Reference: Pit Delineation Plan- Apache Corporation NEDU # 527 Section 10, T21S-R37E API No.: 30-025-37242

Mr. Von Gotten:

Lea County, NM

On the 7/23/06, we began to conduct our "dig & haul" remediation on the NEDU # 527. All contents of the pit were removed and transported to Sundance Disposal Facility, Eunice, NM.

Depth to groundwater is $< 50^{\circ}$ bgs.

On the 7/31/06, we began extracting samples beneath the pit liner for chloride analysis. A 5-point sampling plan was conducted in the pit area (NW quadrant, NE quadrant, Center, SW quadrant). Sample points were located in the center of each quadrant, and one sample point located in the center of the pit area.

The working pit area closest to the wellhead was divided into 3 areas (E Wrk Pit, Center Wrk Pit, and SW Wrk Pit). Sample points were located in the center of each area.

Samples were extracted from 10' bgs to 19' bgs. Field chloride tests were conducted to determine if chloride concentrations exceeded the acceptable MCL of 250 ppm.

A total of 16 confirmation grab samples were retrieved. These samples were properly packaged, preserved, and transported under Chain-of-Custody to Cardinal Laboratories of Hobbs, New Mexico for analysis. All samples were analyzed for Chlorides (EPA Method: 4500-Cl⁻B).

7/31/06 SE 10' BGS 12396 8/8/06 SE 16' BGS 5806 9/6/06 SE 19' BGS 1935 8/8/06 C.WRK.PIT 14' BGS 176 8/8/06 SW.WRK.PIT 14' BGS 9677 8/28/06 SW.WRK.PIT 19' BGS 5118 9/6/06 E.WRK.PIT 19' BGS 5118 9/6/06 E.WRK.PIT 19' BGS 224 9/14/06 BH #1 30' BGS 112 9/14/06 BH #1 30' BGS 1328 9/14/06 BH #2 25' BGS 4319 9/14/06 BH #2 30' BGS 1328 9/14/06 BH #2 30' BGS 1328 9/14/06 BH #3 30' BGS 11436 9/14/06 BH #3 30' BGS 11436 9/14/06 BH #3 40' BGS 2071 9/14/06 BH #3 50' BGS 1683 9/14/06 BH #3 50' BGS 1685<				
9/6/06 SE 19' BGS 1935 8/8/06 C.WRK.PIT 14' BGS 176 8/8/06 SW.WRK.PIT 14' BGS 9677 8/28/06 SW.WRK.PIT 19' BGS 5118 9/6/06 E.WRK.PIT 19' BGS 224 9/14/06 BH #1 25' BGS 240 9/14/06 BH #1 30' BGS 112 9/14/06 BH #1 30' BGS 112 9/14/06 BH #2 25' BGS 48 9/14/06 BH #2 30' BGS 1328 9/14/06 BH #2 30' BGS 1328 9/14/06 BH #2 30' BGS 1128 9/14/06 BH #3 25' BGS 10157 9/14/06 BH #3 30' BGS 11436 9/14/06 BH #3 35' BGS 225' BGS 9/14/06 BH #3 40' BGS 3071 9/14/06 BH #3 45' BGS 2159 9/14/06 BH #3 50' BGS 16				12396
8/8/06 C.WRK.PIT 14' BGS 176 8/8/06 SW.WRK.PIT 14' BGS 9677 8/28/06 SW.WRK.PIT 19' BGS 5118 9/6/06 E.WRK.PIT 19' BGS 224 9/14/06 BH #1 25' BGS 240 9/14/06 BH #1 30' BGS 112 9/14/06 BH #1 35' BGS 48 9/14/06 BH #2 25' BGS 4319 9/14/06 BH #2 30' BGS 1328 9/14/06 BH #2 30' BGS 1328 9/14/06 BH #2 30' BGS 128 9/14/06 BH #3 25' BGS 10157 9/14/06 BH #3 30' BGS 11436 9/14/06 BH #3 30' BGS 11436 9/14/06 BH #3 30' BGS 11436 9/14/06 BH #3 40' BGS 30'1 9/14/06 BH #3 40' BGS 2159 9/14/06 BH #3 50' BGS				5806
8/8/06 SW.WRK.PIT 14' BGS 9677 8/28/06 SW.WRK.PIT 19' BGS 5118 9/6/06 E.WRK.PIT 19' BGS 224 9/14/06 BH #1 25' BGS 240 9/14/06 BH #1 30' BGS 112 9/14/06 BH #1 30' BGS 48 9/14/06 BH #2 25' BGS 4319 9/14/06 BH #2 30' BGS 1328 9/14/06 BH #2 30' BGS 1328 9/14/06 BH #2 30' BGS 1328 9/14/06 BH #3 25' BGS 10157 9/14/06 BH #3 30' BGS 11436 9/14/06 BH #3 30' BGS 11436 9/14/06 BH #3 30' BGS 11436 9/14/06 BH #3 40' BGS 3071 9/14/06 BH #3 60' BGS 1663 9/19/06 BH #3 60' BGS 1663 9/19/06 BH #4 25' BGS 1				
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9/6/06 E.WRK.PIT 19' BGS 224 9/14/06 BH #1 25' BGS 240 9/14/06 BH #1 30' BGS 112 9/14/06 BH #1 30' BGS 112 9/14/06 BH #1 35' BGS 48 9/14/06 BH #2 25' BGS 4319 9/14/06 BH #2 30' BGS 1328 9/14/06 BH #2 30' BGS 1328 9/14/06 BH #2 30' BGS 1128 9/14/06 BH #3 25' BGS 10157 9/14/06 BH #3 30' BGS 11436 9/14/06 BH #3 30' BGS 11436 9/14/06 BH #3 30' BGS 11436 9/14/06 BH #3 40' BGS 3071 9/14/06 BH #3 50' BGS 1695 9/19/06 BH #3 60' BGS 656 9/19/06 BH #3 60' BGS 2007 9/19/06 BH #4 25' BGS 1408	8/8/06	SW.WRK.PIT	14' BGS	9677
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9/14/06 BH #2 30' BGS 1328 9/14/06 BH #2 35' BGS 128 9/14/06 BH #3 25' BGS 10157 9/14/06 BH #3 30' BGS 11436 9/14/06 BH #3 30' BGS 11436 9/14/06 BH #3 30' BGS 11436 9/14/06 BH #3 35' BGS 8237 9/14/06 BH #3 35' BGS 3071 9/14/06 BH #3 50' BGS 3071 9/14/06 BH #3 50' BGS 1695 9/14/06 BH #3 50' BGS 1695 9/19/06 BH #3 50' BGS 1695 9/19/06 BH #3 60' BGS 656 9/19/06 BH #4 25' BGS 1408 9/19/06 BH #4 30' BGS 1871 9/19/06 BH #4 30' BGS 512 9/19/06 BH #4 40' BGS 432 9/19/06 BH #4 45' BGS 560	9/14/08	BH #1	35' BGS	48
9/14/06 BH #2 35' BGS 128 9/14/06 BH #3 25' BGS 10157 9/14/06 BH #3 30' BGS 11436 9/14/06 BH #3 30' BGS 11436 9/14/06 BH #3 35' BGS 8237 9/14/06 BH #3 40' BGS 3071 9/14/06 BH #3 40' BGS 3071 9/14/06 BH #3 50' BGS 1695 9/14/06 BH #3 50' BGS 1695 9/19/06 BH #3 50' BGS 1695 9/19/06 BH #3 60' BGS 656 9/19/06 BH #3 62' BGS 2007 9/19/06 BH #4 25' BGS 1408 9/19/06 BH #4 30' BGS 1871 9/19/06 BH #4 30' BGS 512 9/19/06 BH #4 40' BGS 432 9/19/06 BH #4 45' BGS 560 9/19/06 BH #4 50' BGS 400 <	9/14/06	BH #2	25' BGS	4319
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9/14/06 BH #3 40' BGS 3071 9/14/06 BH #3 45' BGS 2159 9/14/06 BH #3 50' BGS 1695 9/14/06 BH #3 50' BGS 1695 9/19/06 BH #3 57' BGS 1663 9/19/06 BH #3 60' BGS 656 9/19/06 BH #3 62' BGS 2007 9/19/06 BH #4 25' BGS 1408 9/19/06 BH #4 30' BGS 1871 9/19/06 BH #4 35' BGS 512 9/19/06 BH #4 40' BGS 432 9/19/06 BH #4 45' BGS 560 9/19/06 BH #4 45' BGS 560 9/19/06 BH #4 50' BGS 400	9/14/06	BH #3	30' BGS	11436
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9/19/06 BH #3 60' BGS 656 9/19/06 BH #3 62' BGS 2007 9/19/06 BH #4 25' BGS 1408 9/19/06 BH #4 30' BGS 1871 9/19/06 BH #4 35' BGS 512 9/19/06 BH #4 40' BGS 432 9/19/06 BH #4 45' BGS 560 9/19/06 BH #4 50' BGS 400	9/14/06	BH #3	50' BGS	1695
9/19/06 BH #3 62' BGS 2007 9/19/06 BH #4 25' BGS 1408 9/19/06 BH #4 30' BGS 1871 9/19/06 BH #4 35' BGS 512 9/19/06 BH #4 40' BGS 432 9/19/06 BH #4 45' BGS 560 9/19/06 BH #4 50' BGS 400	9/19/06	BH #3	57' BGS	1663
9/19/06 BH #4 25' BGS 1408 9/19/06 BH #4 30' BGS 1871 9/19/06 BH #4 35' BGS 512 9/19/06 BH #4 40' BGS 432 9/19/06 BH #4 45' BGS 560 9/19/06 BH #4 50' BGS 400	9/19/06	BH #3	60' BGS	656
9/19/06 BH #4 30' BGS 1871 9/19/06 BH #4 35' BGS 512 9/19/06 BH #4 40' BGS 432 9/19/06 BH #4 45' BGS 560 9/19/06 BH #4 50' BGS 400	9/19/06	BH #3	62' BGS	2007
9/19/Q6 BH #4 35' BGS 512 9/19/Q6 BH #4 40' BGS 432 9/19/Q6 BH #4 45' BGS 560 9/19/Q6 BH #4 50' BGS 400	9/19/06	BH #4	25' BGS	1408
9/19/06 BH #4 40' BGS 432 9/19/06 BH #4 45' BGS 560 9/19/06 BH #4 50' BGS 400	9/19/06	BH #4	30' BGS	1871
9/19/06 BH #4 45' BGS 560 9/19/06 BH #4 50' BGS 400	9/19/06	BH #4	35' BGS	512
9/19/06 BH #4 50' BGS 400	9/19/06	BH #4	40' BGS	432
	9/19/06	BH #4	45' BGS	560
9/19/06 BH #4 55' BGS 16	9/19/06	BH #4	50' BGS	400
	9/19/06	BH #4	55' BGS	16

On the 9/14/06 and the 9/19/06, four bore holes (BH #1 - NE quadrant, BH #2 – SE quadrant, BH #3 – SW Quadrant, BH #4 – NW quadrant) were drilled and split spoon sampling conducted every 5'. A total of 22 discrete grab samples were retrieved.

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The samples were properly packaged, preserved, and transported under Chain-of-Custody to Cardinal Laboratories of Hobbs, New Mexico for analysis. All samples were analyzed for Chlorides (EPA Method: 4500-CIB).

BH # 1- NE quadrant and BH #2 - SE quadrant were sampled at 25', 30', and 35' bgs respectively.

Confirmation samples were extracted in the NE quadrant at 10'bgs, and 19' bgs. Analytical results indicated chloride concentrations were 17, 275 ppm, and 288 ppm, respectively (see table).

Confirmation samples were extracted in the NW quadrant at 12', 16'and 19' bgs. Analytical results indicated chloride concentrations were 16315 ppm, 8797 ppm, and 8557 ppm, respectively (see table).

Confirmation samples were extracted in the Center quadrant at 10', 12', 16' and 17' bgs. Analytical results indicated chloride concentrations were 2255 ppm, 272 ppm, 6158 ppm, and 112 ppm, respectively (see table).

Confirmation samples were extracted in the SW quadrant at 12', 16', 17', and 19' bgs. Analytical results indicated chloride concentrations were 26872 ppm, 37988 ppm, 10477 ppm, and 8717 ppm, respectively (see table).

Confirmation samples were extracted in the SE quadrant at 10', 16', and 19' bgs. Analytical results indicated chloride concentrations were 12396 ppm, 5806 ppm, and 1935 ppm, respectively (see table).

Confirmation samples were extracted in the Center Wrk Pit at 14' bgs. Analytical results indicated the chloride concentration was 176 ppm (see table).

Confirmation samples were extracted in the SW Wrk Pit at 14', and 19' bgs. Analytical results indicated chloride concentrations were 9677 ppm, and 5118 ppm, respectively (see table).

Confirmation samples were extracted in the E Wrk Pit at 19' bgs. Analytical results indicated the chloride concentration was 224 ppm (see table).

7/31/06	NE	10' BGS	17275
9/6/06	NE	19' BGS	288
7/31/06	NW	12' BGS	16315
8/806	NW	16' BGS	8797
9/6/06	NW	19' BGS	8557
7/31/06	С	10' BGS	2255
7/31/06	C	12' BGS	272
8/8/06	C	16 BGS	6158
8/8/06	C	17' BGS	112
7/31/06	SW	12' BGS	26872
8/8/06	SW	16' BGS	37988
8/8/06	SW	17' BGS	10477
9/6/06	SW	19' BGS	8717

Chloride analysis at 25', 30', and 35' bgs indicated concentrations at BH #1 were 240 ppm, 112 ppm, and 48 ppm, respectively (see table,).

Chloride analysis at 25', 30', and 35' bgs indicated concentrations at BH #2 were 4319 ppm, 1328 ppm, and 128 ppm, respectively (see table,).

BH #3 - SW Quadrant was sampled at 25', 30', 35', 40', 45', 50', 55', 57', 60', and 62' bgs respectively.

Chloride analysis at 25', 30', 35', 40', 45', 50', 57', 60', and 62' bgs indicated concentrations at BH #3 were 10,157 ppm, 11,436 ppm, 8237 ppm, 3071 ppm, 2159 ppm, 1695 ppm, 1663 ppm, 656 ppm, and 2007 ppm (saturated zone), respectively (see table,).

BH #4 - NW Quadrant was sampled at 25', 30', 35', 40', 45', 50', and 55' bgs respectively.

Chloride analysis at 25', 30', 35', 40', 45', 50', and 55'bgs indicated concentrations at BH #4 were 1408 ppm, 1871 ppm, 512 ppm, 432 ppm, 560 ppm, 400 ppm, and 16 ppm, respectively (see table.).

Groundwater was encountered in BH #3 at 62' bgs with a chloride concentration of 2007 ppm.

Sincerely,

Jerry R. Brian, REM, REPA Geologist Hungry Horse Environmental P.O. Box 1058 Hobbs, NM 88241



PHONE (325) 673-7001 + 2111 BEECHWOOD + ABILENE, TX 79603

PHONE (505) 393-2326 . 101 E. MARLAND . HOBBS, NM 88240

ANALYTICAL RESULTS FOR HUNGRY HORSE, LLC ATTN: JERRY BRIAN P.O. BOX 1058 HOBBS, NM 88241 FAX TO: (505) 393-3386

Receiving Date: 09/20/06 Reporting Date: 09/21/06 Project Owner: APACHE Project Name: NEDU #527 Project Location: LEA COUNTY, NM Analysis Date: 09/21/06 Sampling Date: 09/19/06 Sample Type: SOIL & WATER Sample Condition: COOL & INTACT Sample Received By: NF Analyzed By: HM

		CI
LAB NO.	SAMPLE ID	(ppm)
H11550-1	BH#3-57' BGS	*1663
H11550-2	BH#3-60' BGS	*656 ·
H11550-3	BH#3-62' BGS	2007
H11550-4	BH#4-25' BGS	*1408
H11550-5	BH#4-30' BGS	*1871
H11550-6	BH#4-35' BGS	*512
H11550-7	BH#4-40' BGS	*432
H11550-8	BH#4-45' BGS	*560
H11550-9	BH#4-50' BGS	*400
H11550-10	BH#4-55' BGS	*16
•		
Quality Cont	rol	960
True Value I	QC	1000
% Recovery		96
Relative Per	cent Difference	1.0

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

Chemist

09-21-06 Date

H11550

PLEASE NOTE: Liability and Damages. Cardinal's liability and clients exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analysos. As claims, inclusing 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 profile incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hareunder by **Cardinal**, regardless of whether such claim is based upon any of the above-stated reasone or otherwise.

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

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PHONE (325) 673-7001 · 2111 BEECHWOOD · ABILENE, TX 79603

PHONE (505) 393-2326 . 101 E. MARLAND . HOBBS, NM 88240

ANALYTICAL RESULTS FOR HUNGRY HORSE LLC ATTN: JERRY BRIAN 4614 N. GRIMES HOBBS, NM 88240 FAX TO:

Receiving Date: 09/15/06 Reporting Date: 09/15/06 Project Owner: APACHE (APA-06-002) Project Name: NEDU #527 Project Location: NOT GIVEN Analysis Date: 09/15/06 Sampling Date: 09/14/06 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: BC Analyzed By: HM

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LAB NO.	SAMPLE ID	(mg/kg)
H11539-1	S091406-BH1-25	240
H11539-2	S091406-BH1-30	112
H11539-3	S091406-BH1-35	48
H11539-4	S091406-BH2-25	4319
H11539-5	S091406-BH2-30	1328
H11539-6	S091406-BH2-35	128
H11539-7	S091406-BH3-25	10157
H11539-8	S091406-BH3-30	11436
H11539-9	S091406-BH3-35	8237
H11539-10	S091406-BH3-40	3071
H11539-11	S091406-BH3-45	2159
H11539-12	S091406-BH3-50	1695
Quality Cont		990
True Value (20	1000
% Recovery		99
Relative Per	cent Difference	1.0

METHOD: Standard Methods 4500-CI'B NOTE: Analyses performed on 1:4 w/v aqueous extracts.

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09-18-00 Date

H11539

PLEASE NOTE: Liability and Damages. Cardina'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 carms, including tross 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 captication service. In no event shall cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profils incrured by client, its subsidiates affiates or successors arising out of a 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.

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ARDINAL LABORATORIES, INC. 2111 Beechwood, Abliene, TX 79603 101 East Marland, Hobbs, NM 88240

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PHONE (325) 673-7001 - 2111 BEECHWOOD - ABILENE, TX 79603

PHONE (505) 393-2326 · 101 E. MARLAND · HOBBS, NM 88240

ANALYTICAL RESULTS FOR HUNGRY HORSE LLC ATTN: JERRY BRIAN P.O. BOX 1058 HOBBS, NM 88241 FAX TO: (505) 393-3386

Receiving Date: 09/06/06 Reporting Date: 09/07/06 Project Owner: APACHE Project Name: APACHE NEDU #527 Project Location: APACHE NEDU # 527 Analysis Date: 09/07/06 Sampling Date: 09/06/06 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: BC Analyzed By: HM

LAB NO. SAMPLE ID

Cl⁻⁻ (mg/kg)

H11511-1 E - WORKING PIT - 19' BGS	224
H11511-2 NE - 19 BGS	288
H11511-3 SE - 19' BGS	1935
Quality Control	980
True Value QC	1000
% Recovery	98
Relative Percent Difference	1.0

METHOD: Standard Methods 4500-CI'B NOTE: Analyses performed on 1:4 w:v aqueous extracts.

Chemist

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PLEASE NOTE: Lisbility and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or bort, shall be limited to the anount paid by client for anxilysus. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and reserved by Cardinal within thirty (30) days after completion of the rupplicutive service. In no event shall Cardinal be liable for incidental or consequential damages. Including, without limitation, business interruptions, loss of use, or loss of profils incurred by client, its substituities, 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.

RDINAL LABORATORIES, INC.

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PHONE (325) 673-7001 . 2111 BEECHWOOD . ABILENE, TX 79603

PHONE (505) 393-2328 + 101 E. MARLAND + HOBBS, NM 89240

ANALYTICAL RESULTS FOR HUNGRY HORSE LLC ATTN: JERRY BRIAN P.O. BOX 1058 HOBBS, NM 88241 FAX TO: (505) 393-3386

Receiving Date: 09/05/06 Reporting Date: 09/06/06 Project Owner: APACHE Project Name: NEDU #527 Project Location: LEA COUNTY Analysis Date: 09/06/06 Sampling Date: 08/28/06 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: NF Analyzed By: HM

LAB NO. SAMPLE ID

C(~ (mg/kg)

H11500-1 NW - 19' BGS	8557
H11500-2 SW - 19' BGS	8717
H11500-3 SW - WRK PIT - 19' BGS	5118
Quality Control	990
True Value QC	1000
% Recovery	99
Relative Percent Difference	1.0

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

orme

09-06-06 Date

H11500

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thiny (30) days after completion of the applicable service. In no avent shall Cardinal be flable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of protes incurred by client, is subsidiaries, arillates on successors arising out or or related to the performance of services hereunder by Cardinal wither such claim is based upon any of the above-stated reasons or otherwise.

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PHONE (325) 873-7001 . 2111 BEECHWOOD . ABILENE, TX 79603

PHONE (505) 393-2326 . 101 E. MARLAND . HOBBS, NM 88240

ANALYTICAL RESULTS FOR HUNGRY HORSE ATTN: JERRY BRIAN P.O. BOX 1058 HOBBS, NM 88241 FAX TO: (505) 393-3386

Receiving Date: 08/17/06 Reporting Date: 08/18/06 Project Owner: APACHE Project Name: NEDU #527 Project Location: LEA COUNTY, NM Analysis Date: 08/18/06 Sampling Date: 08/08/06 & 08/16/06 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: BC Analyzed By: AB

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#### LAB NO. SAMPLE ID

(mg/kg)

H11451-1	C - 16' BGS	6158
H11451-2	SE - 16' BGS	5806
H11451-3	NW - 16' BGS	8797
H11451-4	SW - 16' BGS	37988
H11451-5	C WRK PIT - 14' BGS	176
H11451-6	SW WRK PIT - 17' BGS	9677
H11451-7	C - 17' BGS	112
H11451-8	SW - 17' BGS	10477
Quality Cor	10	980
True Value	QC	1000
% Recovery	/	98
<b>Relative</b> Pe	rcent Difference	2.0

METHOD: Standard Methods 4500-CI'B NOTE: Analyses performed on 1:4 w:v aqueous extracts.

08-18-01 Date

H11451

PLEASE NOTE: Listility and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or lort, shall be limited to the amount paid by client for arisings. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thiny (30) days after completion of the applications service. In no event shall Cardinal be lable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profile incurred by client, at substituries, etiliates or successors arising out of or related to the performance of services. Hereunder by Cardinal and whether such claim is besed upon any of the appoint state resonance or streamise.

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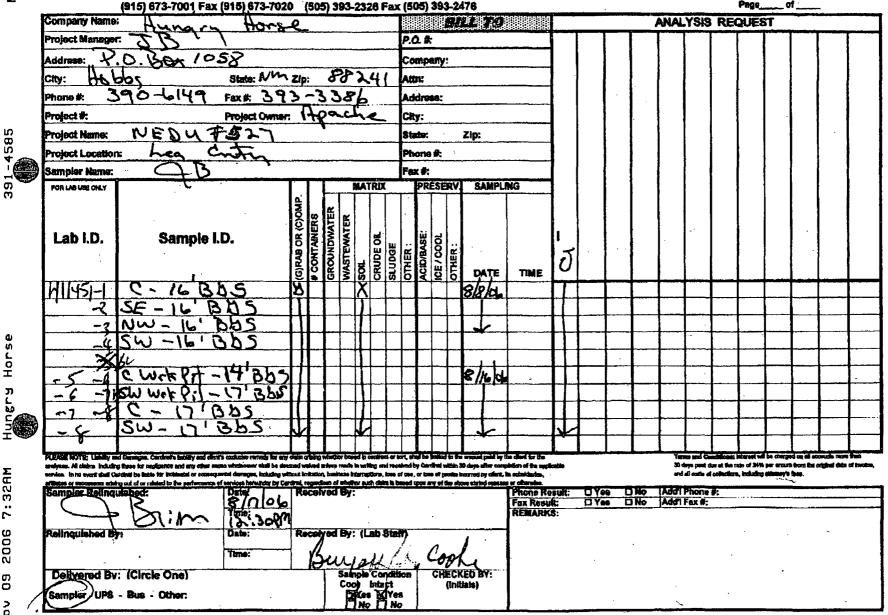
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ARDINAL LABORATORIES, INC. 2111 Beechwood, Abilene, TX 79803 101 East Marland, Hobbe, NM 88240

(915) 673-7001 Fax (915) 673-7020 (505) 393-2328 Fax (505) 393-2476



† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2475.



PHONE (325) 673-7001 · 2111 BEECHWOOD · ABILENE, TX 79603

PHONE (505) 393-2326 + 101 E. MARLAND + HOBBS, NM 88240

ANALYTICAL RESULTS FOR HUNGRY HORSE LLC ATTN: JERRY BRIAN P.O. BOX 1058 HOBBS, NM 88241 FAX TO: (505) 393-3386

Receiving Date: 08/07/06 Reporting Date: 08/08/06 Project Owner: APACHE Project Name: NEDU #527 Project Location: LEA COUNTY, NM

LAB NO.

Analysis Date: 08/08/06 Sampling Date: 07/31/06 & 08/07/06 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: HM Analyzed By: AB

C

SAMPLE ID

(mg/kg)

H11417-1 SE-10' BGS	12396
H11417-2 NE-10' BGS	17275
H11417-3 C-10' BGS	2255
H11417-4 C-12' BGS	272
H11417-5 SW-12' BGS	26872
H11417-6 NW-12 BGS	16315
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Quality Control	980
True Value QC	1000
% Recovery	98
Relative Percent Difference	2.0

METHOD: Standard Methods 4500-CITB NOTE: Analyses performed on 1:4 wiv aqueous extracts.

08-08-0 Date

H11417

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 whetsoever shall be deemed walved unless made in writing and received by Cardinal within (50) days after completion of the application service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, lose of use, or loss of profils incurred by client, it is substrates, 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.

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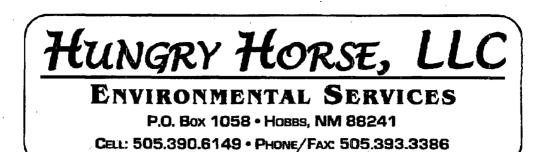
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DIRT WORK . ON-SITE REMEDIATION . SOIL TESTING . EXCAVATION

FAX MESSAGE

TO:

FAX NUMBER: 505-476-3462

FROM: _ Brian		
DATE: 11/8/06 TIME:		
NUMBER OF PAGES TO FOLLOW:	20 19	

IF THERE ARE ANY QUESTIONS CONCERNING THIS MESSAGE, PLEASE CONTACT:

PHONE/	505.393.3386
CELL:	505.390.6149

District I 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 1301 W. Grand Ave., Artesia, NM 88210 District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV 1220 S. St Francis Dr., Santa Fe, NM 87505

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

**C**-101

Permit 11271

APPLICATION FOR PERMIT TO DRILL

APACHE CORP	Operator Name and Address	OGRID Number 873			
6120 S. Yale, Suite 1 Tulsa, OK 74136-4		API Number 30-025-37242			
Property Code 22503	Property Neme NORTHEAST DRINKARD UNIT	Well No. 527			

	Surface Location											
UL or Lot	UL or Lot Section Township Range Lot Idn Feet From N/S Line Feet From E/W Line County											
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**Proposed Pools** 

EUNICE; BLI-TU-DR, NORTH 22900

Wark Type	Well Type	Cable/Rotary	Lesse Type	Ground Level Elevation
New Well	OIL		State	3464
Mantiple N	Proposed Depth 6925	Formation Drinkard	Contractor	Spud Date

#### Proposed Casing and Cement Program

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Туре	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	12.25	8.625	24	1300	575	
Prod	7.825	5.5	17	6925	1100	

#### **Proposed Blowout Prevention Program**

 Type	Working Pressure	Test Pressure	Manufacturer
 Double Ram	2000		

I hereby certify that the information given above is true	OIL CONSERVATION DIVISION
and complete to the best of my knowledge and belief.	Electronically Approved By: Paul Kautz
Electronically Signed By: Lana Williams	Title: Geologist
Title: Drilling Clerk	Approval Date: 05/18/2005 Expiration Date: 05/18/2006
Date: 05/17/2005 Phone: 918-491-4900	Conditions of Approval:
· ·	There are conditions. See Attached.





# WELL LOGS

A	PI number:	30-025-37	242					
	OGRID:		Operator:	APACHE (	CORP			
			Property:	NORTHEA	ST DRINKA	RD UNIT		# 527
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			1310	FSL	330	FWL		
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B. Bowe			<u></u>					
Queen		3431						

## Apache Corporation 6120 S. Yale, Ste 1500

Tulsa, OK 74136

NEDU # 527 Lea County New, Mexico M.10-215-37e 1310/5 + 330/w 30.025-37242

	_		20	e	
451	4.51	3/4	1200 F31	5.92	5.92
956		1	1.75	8.84	14.76
128		3/4	1.31	4.29	19.05
175	3 4.75	3/4	1.31	6.23	25.28
223	3 4.75	2	3.50	16.63	41.91
236	) 1.27	1 3/4	3.06	3.89	45.80
248	7 1.27	1 1/2	2.63	3.33	49.13
2614		1	1.75	2.22	51.35
309		1	1.75	8.33	<b>59.68</b>
359		. 1	1.75	8.89	68.57
407:		1	1.75	8.30	76.87
454	•	. 1	1.75	. 8.31	85.18
504	7 5.00	l	1.75	8.75	93.93
552	6 4.79	1	1.75	8.38	102.31
590		1 1/4	2.19	8.27	110.58
638	•	1	1.75	8.49	119.07
686		1	1.75	8.28	127.35
-			•		

Michael Roghair - General Manager

The attached instrument was acknowledged before me on the  $19^{41}$  day of eptewber 2005 by Michael Roghair - General Manager, CapStar Drilling, L.P.

TAMME HUGGINS Y COMMISSION EXPIRES May 21, 2006

in Notary Public

Ka

DIST	RICT	I				
1625 1	r. PRÉNCI	I OR.,	110883	NM	88240	•

#### State of New Mexico

Bnergy, Minerals and Natural Resources Department

#### OIL CONSERVATION DIVISION 1220 SOUTH ST. FRANCIS DR. Santa Fe, New Mexico 87505

Form C-102 Revised JUNE 10, 2003 Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

□ AMENDED REPORT

DISTRICT III 1000 Rio Brazos Rd., Astec, NM 87410

1301 W. GRAND AVENUE, ARTESIA, NH 68210

DISTRICT IV

.

DISTRICT II

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

BO S. ST. FRANCIS DR., SANTA PE, NK 87606	WELL LOCATION AND	ACREAGE DEDICATION IL	<u></u>	AMENDED REPORT
API Number	Pool Code	Pool	Name	· · · ·
30-025-37242	22900	Eunice; Blinebry - Tubb	- Drink	ard — North
Property Code	Pro Pro	perty Name		Well Number
22503	1	NEDU		527
OGRID No.	Ope	rator Name		Elevation
00873	APACHE	CORPORATION		3464'
~~~~··································	Surfa	ace Location	i	

UL or lot No. Section Township Lot Idn Feet from the North/South line Feet from the East/West line Range County М 10 21-S 37-E SOUTH WEST LEA 1310 330

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
	•								
Dedicated Acres	Joint o	r Infill Co	nsolidation C	ode Ord	ler No.			L	. <u></u>

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS' HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	OPERATOR CERTIFICATION
	l hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.
	Calque Linton
GEODETIC COORDINATES NAD 27 NME	Elaine Linton Printed Name
Y=543842.7 N X=862437.1 E	Engineering Technician Tille
LAT.=32°29'22.72" N	December 2, 2005
LONG. = 103°09'28.47" W	SURVEYOR CERTIFICATION
2001202530 P	I hereby certify that the well location shown on this plat was platted from field notes of actual surveys made by me ar under my supervison, and that the same is true and correct to the best of my belief.
330°	MARCH 22, 2005 Date Surveyed Scal of South Million Signature & Scal of South Million Propagional Surveyor Annu Scal
310 G	Bary 2 100 m 3/31/05
	Certificers No. GABY PLOSUF 12841

Submit 3 Copies To Appropriate District	State of New Mex		Form March 4	C-103
Office District I	Energy, Minerals and Natur	al Resources	WELL API NO.	*, 2004
1625 N. French Dr., Hobbs, NM 88240	ON CONCENTION	DIVISION	30-025-37242	
District II 1301 W. Grand Ave., Artesia, NM 88210	OIL CONSERVATION		5. Indicate Type of Lease	
District III	1220 South St. Franc Santa Fe, NM 875		STATE FEE	
1000 Rio Brazos Rd., Aztec, NM 87410 District IV	Santa FC, INIVI 8/2		6. State Oil & Gas Lease No.	
1220 S. St. Francis Dr., Santa Fe, NM 87505		·		
SUNDRY NOTIO	CES AND REPORTS ON WELLS		7. Lease Name or Unit Agreement Name	
(DO NOT USE THIS FORM FOR PRO	POSALS TO DRILL OR TO DEEPE	N OR PLUG BACK		
TO A DIFFERENT RESERVOIR. USE	"APPLICATION FOR PERMIT" (F	UKM C-101) FOR	NEDU	
SUCH PROPOSALS.) 1. Type of Well:			o, weil indilider	
Oil Well Gas Well Othe	er		527	
2. Name of Operator			9. OGRID Number	
APACHE CORPORATION		· · · · · · · · · · · · · · · · · · ·	873	
3. Address of Operator 6120 S. YALE, STE. 1500			10. Pool name or Wildcat EUNICE; BLI-TU-DR, NORTH 22900	
4. Well Location				.
		S line and		line
Section 10 To	wnship 21S Range		IPM County LEA	
	11. Elevation (Show whether DI 3,4			
Pit or Below-grade Tank Application (For			d)	
			Distance from nearest fresh water well	
•	• • • • • • • • • • • • • • • • • • • •	–		
Distance from nearest surface water	-	SectTwp	Rng;	
feet from theline and	· · · · · · · · · · · · · · · · · · ·			
2. Check Appropriate Box to Indicate N	ature of Notice, Report or Other Data	l		
NOTICE OF INT	ENTION TO:	s s	UBSEQUENT REROAT OF:	9
PERFORM REMEDIAL WORK		REMEDIAL WOR		G ² _€ <u>\</u>
	CHANGE PLANS	COMMENCE DRI		۲ <u>ا</u>
PULL OR ALTER CASING	MULTIPLE	CASING TEST AN CEMENT JOB		5110
OTHER:		OTHER: SPUD,	SURF. CSG., TD, LOG. PROD. CSG	çıx/
13. Describe proposed or completed oper	ations. (Clearly state all pertinent details,	and give pertinent dates.	including estimated date of starting any propose	
RULE 1103. For Multiple Complet	ions: Attach wellbore diagram of propose	d completion or recomple	etion.	
2/05 DRILL & SURVEY TO 1283'. CAPS	TAR RIG # 14.			
3/05- DRILL & SURVEY TO TD @ 6862'.	DRILL - 987 - 1283. SURVEY - 1283 = .75	5. CIRC TO RUN 8.625 C	SG. T O H TO RUN SURFACE CSG. RIG UP & R	UN 8.625
CSG 29 JTS. CIRC CSG SAFETY MI	EETING. CMT W/ BJ CMT W/ 375 SX 35:	65 POZ W/ 6% GEL + 2%	CACI+.25# CF = T25 BBLS T2.7# SLURRY W/ 1.1	88 YIELD -
CONDUCTOR PIPE. WELD ON HE	AD. TEST TO 500 PSI. OK. NIPPLE UP BO	P & CHOKE, TESTING :	MPED & HELD - C <u>IRC 116 SX CMT. T</u> O PIT. W(3 RD PARTY BLINDS, CSG, PIPE RAMS, CHOK	E. KELLY
COCK, DART VALVE, = 500 LOW,	2000 HIGH OKAY. TIH W/ BIT#2 TOP OF	CMT. @ 1200 FT. DRIL	LING CMT. PLUG. FLOAT COLLAR. FLOAT SH	IOE. DRLG.
5904' = 1.25. TRIP OUT HOLE FOR	BIT CHANGE, PICK UP MOTOR, BIT.MA	S OIL IN LIGHTPLANT. I KE UP SAME, BREAK (DRILL - 5716' - 5936', CUT DRILLING LINE,=10 CIRC. FUNCTION TEST BOP. T I H BREAKING (U. SURVEY @ CIRC. @ DC.∦
2 JTS. DP, 50 JTS. DP INSTALL KSV	V'S & STRIPPING RUBBER			
INCREASE 7.5 MINITES, T O H FD	(AIR LINES, FOUND 7" CRACK 2' ABOY	/E PIN ON JT # 160 LAY	350 PSI - CHECK SURFACE EQUIP, PUMP SOF DOWN SAME. SAFETY MEETING, RIG UP LO	GGERS &
LOG. HALLIBURTON RAN COMPI	ENSATED SONIC 6816 - 5000: DUAL LAT	EROLOG MICROGUAR	D 6864 - 5000: SPECTRAL DENSITY DUAL SPA	CED
NEU I KON 6864 – 200. RUN 5.50" J GEL + 5% SALT + $.125 \# CF + 6\%$	55 & L-80 LT&C CSG. RIG DOWN CSG (FI-52 = 325 BBLS 11.8# SLURRY W/ 2 44	REW. CIRC CSG. BJ CM YIELD & 400 SX 50-50 P	IT SHOE @6862 - FC @ 6842 W/ 750 SX 50:50: P OZ C W/ 5% SALT + .6% FL25 = 92 BBLS 14.2# S	OZCW/10%
1.29 YIELD - DISPLACE W/ 159 BB	LS 2% KCL WATER- PLUG BUMPED & I	HELD- CIRC 94 SX CMT	TO PIT. ND BOP. SET SLIPS. CUT OFF CSG.	
RELEASE RIG 9/16/2005.				
hereby certify that the information above is tru	ie and complete to the best of my knowled	ge and belief. I further	certify that any pit or below-grade tank has b	een/will be
onstructed or closed according to NMOCD	guidelines 🔲, a general permit 🔲 or an	n (attached) alternative	OCD-approved plan	
IGNATURE Jana William	nd	<u>RK II</u> DATE	0/5/05	
ype or print name LANA WILLIAMS	E-mail address: lana.williams@a	pachecorp.com	Telephone No. 918-491-498	0
his space for State use)				
			007	

• District I 1625 N. French	Dr., Hobb	s, NM 882	240	Б		State of No Minerals &			2005		•		Form C-104 Revised June 10, 2003
District II 1301 W. Grand	Avenue, A	rtesia, NN	4 88210		nergy,	Minerais &	Naturai	Resour	ces		O h	• • • • •	
istrict.III 000 Rio Brazo:	s Rd., Azte	x, NM 87	410			il Conserva					Submi	t to App	ropriate District Office 5 Copies
istrict IV 220 S. St. Fran	icis Dr., Sa	nta Fe, Ni	M 87505	5	14	220 South S Santa Fe, I							AMENDED REPORT
	I.		OUES		RALL	OWABLE			RIZAT	TION T	O TRA		
Operator na		Address							² OG	RID Nun	ıber		/
Apache C 6120 Sout			500						³ Re:	ason for F	1873	le/ Effect	ive Date
Tulsa, OK	(74136	-4224		-					N	W - 10/7	/2005		
API Numb 30 - 025-3 7		1'	Pool N Eunic		iebry - T	ubb - Drink	ard - Nort	h			Poc 229	ol Code 00	-
Property C		7	Proper	ty Nam	e .						⁹ We	ll Numbe	er 🖌
2503 IL ¹⁰ St	Irface L			ieast D	rinkard	Unit					527		I
J or lot no.				Range	Lot.Idn	Feet from the	North/So	outh Line	Feet	from the	East/W	est line	County
1	10	215	37	7E		1310	South		330		West		Lea
¹¹ Bo	ottom H Section				T an Ida	Track for an all	Nertyp		Ent		Erman	ant line	Country
or lot no.	Section	liowas	sup r	Range	Lot Idn	Feet from the	inoruvs	outh line	reet	from the	East/ w	est line	County
Lse Code	¹³ Produ	ing Metho Code		" Gas Co 10/07/		¹⁵ C-129 Pe	rmit Numbe	16	C-129	Effective	Date	¹⁷ C-1	29 Expiration Date
III. Oil													
¹⁸ Transpor OGRID		¹⁹ Transporter Name and Address				20	POD	OD ²¹ O/G			²² POD ULSTR Location		
)5739		Plains Pipeline LP			O Unit A,			and Description A, Sec 2, T 21S, R 37E J Central Tank Battery					
· · · ·	{]	Three Allen Center, 333 Clay Houston, TX 77002			y	NEDU			Centra	l Tank I	Battery		
0809		Sid Richardson Gasoline Co.						G		I Inid A	Sec 2 '	T 218 I	0 37F
		201 Main Street, Suite 3000 Fort Worth, TX 76102					G		NEDÛ	, Sec 2, ' Central	I Tank I	Battery	
24650	i	Dynergy Midstream Services				3		G		Unit A	, Sec 2,	T 21S, I	R 37E Battery
	i	000 Louisiana, Suite 5800 Houston, TX 77002						·	NEDU	E Centr	ai Tank	Battery	
												میں۔ دریاری مرکز	
											13	27 (D. M.) 21	
IV. Proc	duced W	Vater									19		
POD 2264750						and Descriptio R 37E, NEI		l Tank E	Battery	,	HE-S	Sp	
V. Well	Compl	etion D	ata		_	²⁷ TD	28 -		72	9	<u></u>		30
²⁵ Spud D: 9/02/2005		0/07/20	eady Da 05	ate	6862'	" TD	6843'	BTD		⁹ Perforat 9 - 6687		$\leq c_{c_1}$	DHC, MC
³¹ H	ole Size		32	² Casin	g & Tubir	1g Size		¹³ Depth S				³⁴ Sac	ks Cement
12-1/4"			8-5/				1283'				575 sx /	/ circ 11	
7 7 10 11													
7-7/8''			5-1/	2			6862'				1150 sx / TOC 208' CBL		
]				<u></u>	• .						
VL Wel					37		32			10		—	40
³⁵ Date New 10/07/200:		³⁶ Gas D 10/07/2		Date	³⁷ Test Date 10/19/2005		24 hrs	Fest Lengi	th	ј "т	bg. Pressu	ire	⁴⁰ Csg. Pressure
*1 Choke S			⁴² Oil			¹³ Water	24 613	44 Gas			⁴⁵ AOF		46 Test Method
Choice		70	0.1		31			045			AUF	P	umping
een complie	d with an	d that the	; informa	ation gi	ven abov	Division have e is true and		<u></u>	OIL	CONSER	VATION	DIVISI	ON
omplete to th Signature:			- Auger	. <u> </u>	-		Approved	by:				-	
	- <u>- </u>	un	Au	ulor	-					l	dy	<u></u>	NGINEER
rinted name: E	laine Li	nton					Title:				1	- NFU	MENU
itle: E	ngineeri	ng Tecl	hnician	1			Approval			05	PET	HOP	M ENGINEER
-mail Addre	ss:							DEC-0	7 20				
lotar	aine.lint	on@ap				·				•			
Date: 12/02	/2005		Phone	^{e:} (918)491-536	52							

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1a. Type of Well: OIL WELL [b. Type of Completic NEW [2] WOF WELL OVE 2. Name of Operator Apache Corporat 3. Address of Operator 6120 South Yale, 4. Well Location Unit Letter M Section 10 10. Date Spudded 09/02/2005 15. Total Depth 5862' 19. Producing Interval(21. Type Electric and C SD/DSN, DLL/MC 23. CASING SIZE 3-5/8" 5-1/2" 24. SIZE 70. 24. SIZE 70. 26. Perforation recor BLINEBRY 562	Artesia, NM 88210 zec. NM 87410 Santa Fe, NM 87505 MPLETION (, [X] GAS WELL ion: DRK] DEEPE Ation DRK] DEEPE ation 0, Suite 1500] M 131 0 11. Date T.D. Reac 09/14/2005 16. Plug Bac 6843' I(s), of this comple Drinkard Other Logs Run G	OR RECC L DR EN PLL BA Tulsa, OK 0 Feet F Towns sched 12 10 ck T.D.	Oil (1220 Si OMPLET RY □ 0 UG □ DI ACK R (74136-4 From The SO Ship 21S 2. Date Comp 0/07/2005 17. If Mu Zone Some CASI DI 1283'	OTHER IFF. $ESVR. \Box OTHER 1224 0uth 01. (Ready to Prod. 01. (Ready to Prod$	n Divis Francis I 8750: T AND HER HER	ion Dr. Dr. Dr. Dr. Dr. Dr. Dr. Dr. Dr. Dr.	Image: second	State Oil & T. Lease Name Iortheast D 8. Well No. 527 9. Pool name of Eunice; Blir MPM RKB, RT, GR Rotary Tools X	2242 Type of L TE X Gas Lease or Unit Agree or Unit Agree rinkard U r Wildcat rebry - Tu Feet From Th Lea , etc.)	casc FEE PNO. Extension FEE Provide State FEE Provide State Provide State FEE Provide State FEE Provide State Provide State Provide State Provide State FEE Provide State Provide State	inkard - North est Casinghead
1625 N. French Dr., Hobb District II 1301 W. Grand Avenue, A Oistrict II 1000 Rio Brazos Rd., Azu District II 1000 Rio Brazos Rd., Azu District II 1000 Rio Brazos Rd., Azu District II 1220 S. St. Francis Dr., Sc WELL CON 1a. Type of Well: OIL WELL [b. Type of Completic NEW Ø WOF VELL OVE 2. Name of Operator Apache Corporati 3. Address of Operator 6120 South Yale, 4. Well Location Unit LetterM Section10 10. Date Spudded11 09/02/200505 15. Total Depth 5862' 19. Producing Interval(21. Type Electric and C SD/DSN, DLL/MG 23. CASING SIZE 3-5/8" 5-1/2" 24. SIZE	Artesia, NM 88210 zec. NM 87410 Santa Fe, NM 87505 MPLETION (, [X] GAS WELL ion: DRK [] DEEPE Ation DRK [] DEEPE ation 0, Suite 1500 7 M 131 0 11. Date T.D. Reac 09/14/2005 16. Plug Bac 6843' I(s), of this comple Drinkard 10ther Logs Run G WEIGHT 24#	L DR DR DLL BA Tulsa, OK 0 Feet F Towas Sched 12 10 ck T.D. etion - Top, B	1220 S OMPLET RY □ 0 UG □ DI ACK R CASI 0/07/2005 17. If Mu Zone CASI DI 1283'	D South St. F anta Fe, NM ION REPOR OTHER IFF. IESVR. [] OTH IESVR. Francis I 8750: T ANE HER Range) 3 w Many	Dr. LOG Solutions 37E 3. Elevations 464' 18. Inter- Drilled B	Image: second	30-025-37 5. Indicate STA State Oil & 7. Lease Name Iortheast D 8. Well No. 527 9. Pool name of Eunice; Blir MPM RKB, RT, GR Rotary Tools X	2242 Type of L TE X Gas Lease or Unit Agree or Unit Agree rinkard U r Wildcat rebry - Tu Feet From Th Lea , etc.)	FEE No. Sement Na nit bb - Dri We 14. Elev. 0 Cable T	inkard - North est Casinghead	
1301 W. Grand Avenue, A District II 1000 Rio Brazos Rd., Azu District IV 1220 S. St. Francis Dr., St WELL CON 1a. Type of Well: OIL WELL [b. Type of Completic NEW [2] WOF WELL OVE 2. Name of Operator Apache Corporati 3. Address of Operator 6120 South Yale, 4. Well Location Unit Letter M Section 10 10. Date Spudded 09/02/2005 15. Total Depth 5862' 19. Producing Interval() 21. Type Electric and C SD/DSN, DLL/MC 23. CASING SIZE 3-5/8" 5-1/2" 24. SIZE TC 26. Perforation recor BLINEBRY 562	Ziec, NM 87410 Santa Fe, NM 87505 MPLETION (MPLETION (IMPLETION (IOR IN 100 IN 110 IN 131 O II. Date T.D. Reac O9/14/2005 16. Plug Bac 6843' I(s), of this comple Other Logs Run G WEIGHT 24#	L DR DR DLL BA Tulsa, OK 0 Feet F Towas Sched 12 10 ck T.D. etion - Top, B	1220 S OMPLET RY □ 0 UG □ DI ACK R CASI 0/07/2005 17. If Mu Zone CASI DI 1283'	D South St. F anta Fe, NM ION REPOR OTHER IFF. IESVR. [] OTH IESVR. Francis I 8750: T ANE HER Range) 3 w Many	Dr. LOG Solutions 37E 3. Elevations 464' 18. Inter- Drilled B	Image: Second state Image: Second state	5. Indicate STA State Oil & 7. Lease Name Jortheast D 8. Well No. 527 9. Pool name of Eunice; Blir MPM RKB, RT, GR Rotary Tools X	Type of L TE X Gas Lease or Unit Agre rr Wildcat nebry - Tu Feet From Th Lea , etc.)	FEE No. Sement Na nit bb - Dri We 14. Elev. 0 Cable T	inkard - North est Casinghead	
1000 Rio Brazos Rd., Azu District IV 1220 S. Francis Dr., Sr WELL CON 1a. Type of Well: OIL WELL [b. Type of Well: OIL WELL [b. Type of Completic NEW Ø WOH NEW Ø WOH 2. Name of Operator Apache Corporati 3. Address of Operator Apache Corporati 6120 South Yale, 4. Well Location Unit Letter M Section 10 10. Date Spudded 09/02/2005 09 15. Total Depth 5862' 19. Producing Interval 21. Type Electric and C SD/DSN, DLL/MG 23. CASING SIZE 3-5/8" 5-1/2" 24. SIZE 70 26. Perforation recor BLINEBRY 562	Santa Fe, NM 87505 MPLETION (CX GAS WELL ion: DRK DEEPE ation or e, Suite 1500 T M 131 0 11. Date T.D. Reac D9/14/2005 16. Plug Bac 6843' el(s), of this comple Drinkard Other Logs Run G WEIGH 24#	L DR DR DLL BA Tulsa, OK 0 Feet F Towas Sched 12 10 ck T.D. etion - Top, B	Si OMPLET RY 0 UG 0 UG 0 I ACK R (74136-4 From The So (74136-4 From The So Solution, Name CASI 1283'	anta Fe, NM	I 8750: T ANE HER Range) 3 w Many	ine and 37E 3. Elevations 464' 18. Inter- Drilled B	N	State Oil & T. Lease Name Iortheast D 8. Well No. 527 9. Pool name of Eunice; Blir MPM RKB, RT, GR Rotary Tools X	Gas Lease or Unit Agre rrinkard U rrinkard U rr Wildcat nebry - Tu Feet From Th Lea , etc.)	E No.	inkard - North est Casinghead
1220 S. St. Francis Dr., Si WELL CON 1a. Type of Well: OIL WELL [b. Type of Completic NEW [X] WOF WELL OVE 2. Name of Operator Apache Corporati 3. Address of Operator 6120 South Yale, 4. Well Location Unit Letter M Section 10 10. Date Spudded 09/02/2005 15. Total Depth 5862' 19. Producing Interval(21. Type Electric and C SD/DSN, DLL/MG 23. CASING SIZE 3-5/8" 5-1/2" 24. SIZE TO 26. Perforation recor BLINEBRY 562	MPLETION (DA GAS WELL ion: ORK DEEPE /ER ation 0, Suite 1500 T M 131 0 11. Date T.D. Reac 09/14/2005 16. Plug Bac 6843' 1(s), of this comple Drinkard 10ther Logs Run G WEIGHT 24#	L DR DR DLL BA Tulsa, OK 0 Feet F Towas Sched 12 10 ck T.D. etion - Top, B	OMPLET RY 0 UG 0 UG 0 ACK R CASI 0/07/2005 17. If Mu Zone 0/07/2005 17. If Mu Zone 0 0/07/2005 17. If Mu Zone 0 0 0 1283'	ION REPOR	T ANE	ine and 37E 3. Elevations 464' 18. Inter- Drilled B	N	7. Lease Name Jortheast D 8. Well No. 527 9. Pool name o Eunice; Blir MPM RKB, RT, GR Rotary Tools X	r Wildcat rebry - Tu Peet From Th Lea , etc.)	bb - Dri e We 14. Elev. (Cable T	inkard - North est Coun Casinghead
WELL CON 1a. Type of Well: OIL WELL [b. Type of Completic NEW 2 WOF WELL OVE 2. Name of Operator Apache Corporat 3. Address of Operator 6120 South Yale, 4. Well Location Unit Letter	MPLETION (DA GAS WELL ion: ORK DEEPE /ER ation 0, Suite 1500 T M 131 0 11. Date T.D. Reac 09/14/2005 16. Plug Bac 6843' 1(s), of this comple Drinkard 10ther Logs Run G WEIGHT 24#	L DR DR DLL BA Tulsa, OK 0 Feet F Towas Sched 12 10 ck T.D. etion - Top, B	RY 0 UG DI ACK R K 74136-4 From The SO sship 21S 2. Date Comp 0/07/2005 17. If Mu Zone; Solution, Name SO CASI DI 1283' DI	OTHER IFF. RESVR. [] OTH 4224 Outh 0.1 (Ready to Prod. 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.	HER Range) 3 w Many	ine and 37E 3. Elevations 464' 18. Inter- Drilled B	7 8 5 5 8 8330 NN (DF& 1) rals y y	7. Lease Name lortheast D 8. Well No. 527 9. Pool name o Eunice; Blir RKB, RT, GR Rotary Tools X	or Unit Agro Prinkard U Prinkard D Prinkard	ement Na nit bb - Dri e We 14. Elev. (Cable T	inkard - North est Coun Casinghead
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24. 5-1/2" 24. SIZE TO 26. Perforation recor BLINEBRY 5629	24#	. יעט ודו.	1283'	Li 111 011		HOLE SIZE	string	gs set in v CEMENTIN		ΔN	MOUNT PULLED
24. SIZE TO 26. Perforation recor BLINEBRY 5629			_ +		12-1/4			575 sx / cir		<u></u>	MOUNT FULLED
24. SIZE TO 26. Perforation recor BLINEBRY 5629			6862'		7-7/8"			1150 sx / T		¢BL	
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SIZE TO 26. Perforation recor BLINEBRY 5629											
SIZE TO 26. Perforation recor BLINEBRY 5629				RRECORD			25.		TUBING RI	FCOPD	
	TOP .	BOTTOM		SACKS CEMENT	SCRE	EN	SIZE	E	DEPTHS		PACKER SET
							2-7	/8"	6713'		
								·			l ·
	ord (interval, size, 1 29-32 82-84 5	and number) 720-24 59	806-10.72	2-75,5930-				AMOUNT A			
32 & 6017-20' 2	2 JSPF					<u>h intervai</u> - 6020'		AMOUNT A			s gel+84k# 20
			6329-31' 2 JSPF 6134 - 6331'								gel+82k# 20
DRINKARD 657	0/8-82,6614-1	8,54-58	& 6683-87	C 2 JSPF		- 6687'					s gel+62k# 20
28						CTION			1:34		1.5
Date First Production 10/07/2005	· •	Production M Pumping	Aethod (Flow)	ing, gas lift, pump	oing - Size	and type pum	p)	Well Status Produc	(Prod. or Sh	ar-integ	
	Hours Tested	Choke Siz		Prod'n For Test Period	Oil - I	Bbl		- MCF	Water - B	bl.	Gas - Oil Ratio
10/19/2005 2	24 hrs				70		1	030	31	<u>୍</u>	14714
Flow Tubing Ca Press.	Casing Pressure	Calculate Hour Rate		Oil - Bbl.	G	as - MCF	W	Vater - Bbl.	Oil (bravity - A	PI - (Corr.)
1 1099.		Hour Kat							40.0	n	
29. Disposition of Gas	s (Sold used for 6	le vented -						··	Test Witnes		
Sold	w work, used for fl	nco, <i>ftiulli</i> , El							Apache (•	ition
30. List Attachments]			
Logs, Deviation I				·							
31 Thereby certify th	inat the informat D	non shown	on both sid	tes of this form a	is true ai	a complete i	o the l	oest of my kr	owledge an	d belief	
Simula /	lawa	inton		rinted	- 4	·			- 		D
Signature -	newy		N	ame Elaine Li	nton	Т	itle E	Engineering	j i echnic	an	Date 12/02/
E-mail Address	elaine.linton	n@apachec	corp.com					_K-	5		
								7 (2			

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 25 through 29 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southea	astern New Mexico	Northwe	estern New Mexico
T. Anhy	T. Canyon	T. Ojo Alamo	T. Penn "B"
T. Salt	T. Strawn	T. Kirtland-Fruitland	T. Penn. "C"
B. Salt	T. Atoka	T. Pictured Cliffs	T. Penn. "D"
T. Yates 2637'	T. Miss	T. Cliff House	T. Leadville
T. 7 Rivers 2858'	T. Devonian	T. Menefee	T. Madison
T. Queen 3431'	T. Silurian	T. Point Lookout	T. Elbert
T. Grayburg 3747'	T. Montoya	T. Mancos	T. McCracken
T. San Andres 3979'	T. Simpson	T. Gallup	T. Ignacio Otzte
T. Glorieta 5182'	T. McKee	Base Greenhorn	T. Granite
T. Paddock	T. Ellenburger	T. Dakota	Τ.
T. Blinebry 5646	T. Gr. Wash	T. Morrison	Τ.
T.Tubb 6123'	T. Delaware Sand	T.Todilto	T.
T. Drinkard 6458'	T. Bone Springs	T. Entrada	T.
T. Abo 6722'	T. Rustler 1275'	T. Wingate	T.
T. Wolfcamp	Τ.	T. Chinle	T
T. Penn	T.	T. Permian	<u>T.</u>
T. Cisco (Bough C)	Τ.	T. Penn "A"	T.

OIL OR GAS SANDS OR ZONES

- No. 1, from	to	No. 3, from	to					
No. 2, from	to							
ΙΜΡΩΡΤΑΝΤ ΨΑΤΕΡ SANDS								
Include data on rate of wat	er inflow and elevation to	o which water rose in hole.						
		feet						
		feet						
		feet						

LITHOLOGY RECORD (Attach additional sheet if necessary)

					ccuon ac	an a vii	a sheet ii i	iccosary)		
From	То	Thickness In Feet	Lithology		From	То	Thickness In Feet	Lithology		
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District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Ave., Artesia, NM 88210 District III 1000 Rio Bruzos Rd., Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505 Permit 11271

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Name	Pool Code
30-025-37242	EUNICE;BLI-TU-DR, NORTH	22900
Property Code	Property Name	Well No.
22503	NORTHEAST DRINKARD UNIT	527
OGRID No.	Operator Name	Elevation
873	APACHE CORP	3464

Surface And Bottom Hole Location

UL or Lot.	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
M	10	21S	37E	M	1310	S	330	W	Lea
		Joint or	Infill	Consoli	dation Code		Order		

OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Electronically Signed By: Lana Williams Title: Drilling Clerk Date: 05/17/2005
SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. Surveyed By: GARY EIDSON Date of Survey: 03/22/2005 Certificate Number: 12641

Per Conditions Of Approval

Operator: APACHE CORP, 873 Well: NORTHEAST DRINKARD UNIT #527

OCD Reviewer	Condition
PKAUTZ	Re-seeding mixture will must be approved or authorized by surface owner
PKAUTZ	Notice is to be given to the OCD prior to construction of the pit(s)
YEK AULZ	Pit construction and closure must satisfy all requirements of O.C.D. Rule 19.15.2.50, and the Pit and Below-Grade Tank Guidelines

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9/22/2006 VnalL · EVELYN WITNES. SUCES. - DASES JET 476-1947 0 L1:16 -· 4:01 - MIKE CIMFFIN, 201-284-2050 · 7:39- JEnny Drup - Husane House ARACHE NEDU 527 33-025-37242 JIOM 213, 37E 505- 70-6149 GW CONTAMINATION MIKE GRIFFIN - 09:13 · Jany Brund -LP PIT CLASURE - DON'T WANT DO LERVE OPEN NEMONE BOODYOS_ AND Stat Wowlen. SE come DH-3-60' CE-656 D TW 3 62' # 2007 BOTTO - 0 20' O MODUMENT DATU GUAD TO NE