

Patterson Drilling Company

410 N. Loraine Street - (915) 682-9401 Midland, Texas 79701

July 20, 1998

Mr. Dave Talbott **Apache Corporation** 2000 Post Oak Blvd, Ste 100 Houston, TX 77056

RE:

Inclination Report
NEDU #231
Sec 2; T-21-S; R-37-E

3800/S

30-025-344()

Gentlemen:

The following is an inclination survey on the above referenced well located in Lea County, New

205' - 0.50	3131' - 0.50
632' - 0.50	3594' 0.75
998' - 0.50	4185' – 1.00
1402' - 0.75	4 679' – 1.00
1700' - 1.00	5176' - 0.75
1979' – 0.75	5675' - 1.00
2289' - 0.75	6176' - 0.75
2540' - 1.25	6661' - 0.75
2820' - 0.50	6940' - 0.75

Sincerely,

Rebecca Edwards

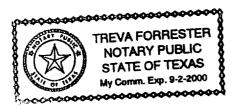
Rebecca A. Edwards Administrative Assistant

STATE OF TEXAS

COUNTY OF MIDLAND

The foregoing was acknowledged before me this 20th day of July, 1998 by Rebecca A. Edwards.

MY COMMISSION EXPIRES:



State of New Mexico Energy, Minerals and Natural Resources Department

Form C-105 Revised 1-1-89

District Office
State Lease-6 copies
Fee Lease-5 copies

DISTRICT I P.O. Box 1980, Hobbs, NM 88240

DISTRICT II

P.O. Drawer DD, Artesia, NM 88210

ΩII	CONSE	FRV A	MOIT	DIVI	ROIR

P.O. Box 2088 Santa Fe, New Mexico 87504-2088 WELL API NO.

30-025-34411

5. Indicate Type of Lease

STATE

FEE

DISTRICT III							6. State	6. State Oil & Gas Lease No.				
1000 Rio Brazos Rd., Aztec, NM 87410								22503				
	·	TION OR	RECOMPLETI	ON RE	PORT	AND I	OG	V/////				
1a. Type of Well:	OOM LL	TION OIL	TRECOINI EETI	01111	<u> </u>	7 11 12 2		7. Lease	Name or t	Jnit Agreem	ent Name	
OIL WELL GAS WELL DRY OTHER									-			
b. Type of Completion:								1	Northe	ast Drin	kard Unit	
✓ New Well	Workove	r 🗌 Dee	epen 🔲 Plug B	Back	Diff.	Resvr.	Other					
2. Name of Operator	4:							8. Well N	lo. 231			
Apache Corpora 3. Address of Operator	tion							9 Pool n	ame or Wi	ldcat		
2000 Post Oak E	Blvd., Ste.	100, Hous	ston, Texas 77	056-440	00						Tubb-Drinkard	
	Lot 13 :	3800	Foot From The	Sout	h	Line and	1200	Feet Fron	n Tho	West	Line	
•				37E		Line and	Lea	_	11 1116	11000	LING	
Section 10. Date Spudded	∠ 11. Date T.D. R		213 Range (Read		NMPM		tions (DF& RKB, RT,	County GR, etc.)	I14. F	lev. Casing	head	
6/29/98		1/98	8/12			1	3484' GR				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
15. Total Depth	16. Plug B		17. If Multiple Co			.l	18. Intervals	Rotary To	ools		Cable Tools	
6940		6847	Many Zones?	-			Drilled By	>	Κ			
19. Producing Interval(s), of Blinebry 5746 - 5		n - Top, Bottom,	Name ard 6718 - 6798						20. \	Vas Directio	onal Survey Made	
21. Type Electric and Othe	er Logs Run	Dillike	ard 07 10 - 07 30	<u>, </u>				22. Was	Well Core			
GR-CNL / CBL										NO		
23.								1				
			CASING REC	ORD (R	eport	all stri	ngs set in w	ell)				
CASING SIZE	WEIGH	ΓLB./FT.	DEPTH SET	1	HOLE S	IZE	CEMENTIN	IG RECO	3 RECORD AMOUNT PULLED			
8-5/8"	24#		1382		11"		410 sx / Circ	: 125 s	K			
5-1/2"	17#		6940		7-7/8" 1450 sx / Circ			rc 146 s	SX			
									<u> </u>			
-								_				
24.		LINER REC	ORD			25.		TUBIN	IG REC	ORD		
SIZE	TOP	воттом	SACKS CEMENT	sc	REEN		SIZE	DEPTH SET PACKER SET				
						2-7/8"			6810			
26. Perforation reco	ord (interval,	size, and nu	mber)	27. F	CID, S	HOT, FF	ACTURE, CEM	ENT, SC	UEEZE	, ETC.		
	·		-			EPTH INT	ERVAL		AMOU	NT AND KIN	ID MATERIAL USED	
Blinebry 5746-66,	70-86, 5830	-46, 50-60, 9	4-5916, 40-66	5746	- 5860			Frac w	Frac w/10000 gals gel/30100# 16/30 sand			
4" - 220 holes				5894	- 5966			Acidize	Acidize w / 2500 gals 15% HCL			
								Frac w	Frac w/ 10000 gals gel/30120# 16/30 sand			
Drinkard 6718-23,	36-40, 50-58	8, 68-82, 86-	98	6718	- 6798			Acidize	Acidize w / 2500 gals 15% HCL			
4" - 86 holes								Frac w	Frac w/19400 gals gel/35000# 16/30 sand			
28.					DUCT							
Date First Production		Productio	n Method (<i>Flowing, gas</i>)			• • • • • • • • • • • • • • • • • • • •			ĺ	Well Status	s (Prod. or Shut-in)	
8/13/98				umping							Producing	
Date of Test	Hours Test	ed	1	Prod'n For	· - (Oil - Bbl.	Gas - MCF	1	er - Bbl.		Gas - Oil Ratio	
8/26/98	24			Test Period		37	24		70	<u> </u>	649	
Flow Tubing Press.	Casing Press	sure Calculate Hour Rat		1	Gas - M	CF	Water - Bbl	ı. K	Oil Gravity	- API - (Cori	·) 37.4	
29. Disposition of Gas (So	l	vented, etc.)		L			J.—	Test Witr	nessed By			
Sold						Apac	he Co	poratio	n			
30. List Attachments								- 				

Printed

Debra J. Anderson

7

Engineering Tech.

Date 10/6/98

INSTRUCTIONS

This form is to filed with the appropriate District Office of the Division 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.

INDICA:	TE FORM	IATION TOF	'S IN	CONFORMAN	IC	DE WITH	GE	OGRAPH	IICAL SECTION	OF STATE
	S	outheaster	n Ne	w Mexico					stern New Mexic	
T. Anhy			т.	Canyon				Ojo Alamo		T. Penn. "B"
T. Salt			T.	Strawn			- Т.	Kirtland-Fru	itland	T. Penn. "C"
B. Salt		_	Т.	Atoka				Pictured Cli		T. Penn. "D"
T. Yates		2681	Т.	Miss			_	Cliff House		T. Leadville
T. 7 River	s		Т.	Devonian	_		Т .	Menefee		T. Madison
T. Queen			T.	Silurian			- т.	Point Look	out	T. Elbert
T. Graybu	irg			Montoya			- Т.	Mancos		T. McCracken
T. San An	idres	3888	-	Simpson			Т.	Gallup		T. Ignacio Otzte
T. Glorieta	a	5303	-	McKee			Ba	se Greenho	orn	T. Granite
T. Paddoo		5360		Ellenburger			¯т.	Dakota		т. — — — — — — — — — — — — — — — — — — —
T. Blinebr	y	5726		Gr. Wash			Т .	Morrison		т.
T. Tubb		6248	Т.	Delaware San	d		Т .	Todilto		т.
T. Drinkar	d	6581	Т.	Bone Springs			T .	Entrada		т.
T. Abo			T.	Rustier		1389		Wingate		т.
T. Wolfcar	пр		Τ.				Т.	Chinle		т.
T. Penn			Т.				- Т.	Permain		Т.
T. Cisco (E	Bough C)		Т.					Penn "A"		т.
				OIL OR	C	AS SAN	DS	OR ZON	ES	
No. 1, fron			to			No. 3, from	1			to
No. 2, fron	n		to		•	No. 4, from	 1			to
				IMPOF				R SAND	S	
				vation to which was	te	r rose in hol	le.			
No. 1, from	n			to		• • • • • • • • • • •			feet	
No. 2, from	n			to		• • • • • • • • • • • • • • • • • • • •			foot	
No. 3, from				to					feet	
	T**	Ll	THO	LOGY RECOR	Ď	(Attach a	add	itional she	eet if necessary)	
_	_	Thickness in			$\ \ $					
From	То	Feet		Lithology	П	From	<u>L</u>	То	Thickness in Feet	Lithology
					П					
							ł			
		l								
					П				•	
					П		ĺ			
		1			П				1	
					П		l			
					П		l			
	!									
					П					÷.

Submit 3 Copies

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-103

to Appropriate	
District Office	

Revised 1-1-89

District Office						
DISTRICT I OIL CONSERVATION		TION DIVISION	WELL API NO.			
P.O. Box 1980, Hobbs, NM 883	240 P.O. BOX	(2088	30-025-34	1411		
DISTRICT II P.O. Drawer DD, Arlesia, NM 8	Santa Fe, New Mex	kico 87504-2088	5. Indicate Type of Lease STATE	FEE		
DISTRICT III 1000 Rio Brazos Rd., Aztec, N	M 87410		6. State Oil & Gas Lease No.			
S	UNDRY NOTICES AND REPORTS OF	N WELLS				
	FORM FOR PROPOSALS TO DRILL OR TO DI		7. Lease Name or Unit Agreement N	lame		
	(FORM C-101) FOR SUCH PROPOSALS		NE Drinkard Unit			
Type of Well: ✓ OIL WE	LL GAS WELL OTHER					
Name of Operator			8. Well No.			
APACHE CORPO	RATION		9. Pool name or Wildcat			
3. Address of Operator 2000 POST OAK F	BLVD., SUITE 100, HOUSTON, TX 77	056-4400	Eunice N. (BTD)			
4. Well Location	22.75., 001.12.100,11.000.101, 15.1.1.					
Unit Lette		outh Line and 1200'	Feet From The West	Line		
Section	2 Township 21S Range	37E NMPM	Lea county			
	3484' GR	er Dr., RND, RT, GIN, etc.)				
11.		x to Indicate Nature of Notice, R	eport, or Other Data			
	NOTICE OF INTENTION TO:		SUBSEQUENT REPORT	OF:		
Perform Remedia	al Work 🔲 Plug and Abandon	Remedial Work	Altering	g Casing		
Temporarily Abar	ndon Change Plans	✓ Commence Dril	ling Operations 🔲 Plug an	d Abandonment		
Pull or Alter Casi	ng	Casing Test and	nd Cement Job			
Other		Prod. Csg.				
12. Describe Proposed or Cor SEE RULE 1103.	npleted Operations (Clearly state all pertinent details, and give p	pertinent dates, including estimated date of	starting any proposed work)			
6/29/9 8	MIRU. Spud well @ 6:00 p.m.*					
6/30/98	Drld. 11" hole to 1382'. Ran 32 jts. 8- to pit.	-5/8" 24#, J-55 csg. Cmt'd	w/ 410 sxs PBCZ. Cir	c. 125 sxs		
7/12/98	Drld. 7-7/8" hold to 6940'. Ran 161 jt & 500 sxs Premium 50/50 POZ. Top Circ. 146 sxs to pit.		_			
I hereby certify that the info	/ The a show K i lide III	e and belief. Engineering Technician		/15/98 .no. 713-296-7152		
(This space for State Use)						
APPROVED BY ADDICA	NAL SIGNED BY CHRIS WILLIAMS		DATE M	ไท้ กก 100 0		
CONDITIONS OF APPROV	VALUE SUPERVISOR	· , · · · · · · · · · · · · · · · · · ·		OF 4 1940		