Submit in duplicate to appropriate district office See Rule 401 & Rule 1122

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-122 Revised 4-1-91

OIL CONSERVATION DIVISION

P.O. Box 2088 Santa Fe, New Mexico 87504-2088

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

perator		ONLIG	IIVI Bilott	Lease	or Unit Name		
Robert L. Ba	yless			Test I	Apache Be	Well No.	
<u>X</u> /		Special			3-15-93	3 1'au l la San	. TWP - Rge.
ompleuon Date Total 1-28-93 29	Depth 177	Plug 1	Back TD 10	Eleva	7325 GL	F-31-T2	3N-R2W
sg. Size Wt. d	Set At	Perfo	rations:			County	
4 1/2 10.5	2965	From	2846	To:	2858	San	doval
bg. Size Wt. d	Set At		rations:			Pool	
1 1/4 2.4	2858	3 From		To:		Bal	lard
ype Well - Single - Bradenhead - G	.G. or G.O. Mult		Packer Set A			Formation	
Single			Para Prose	None		Pic Connection	tured Cliffs
roducing Thru Reservoir Temp. Tubing	*F Mean Annu	milemp. "r	Balo, Fless	12.0 ps	i est.	EPN	
H Gg	% CC	92	% N ₂	% H ₂ S	Prover	Meter Run	Taps
FLOW	DATA			TUBIN	IG DATA	CASING DATA	A Duration
Proves Orifice	Press.	Diff.	Temp.	Press.	Temp.	Press. Terr	ip. of
NO Line X Size Size	p.s.i.g.	h,	ak	p.s.z.g.	at,	p.s.i.g. P	Flow
312E 312E				425	1	425	
l. :2 inch x .750"				98	 	389	3 hrs
2.		<u> </u>	· 	<u> </u>			
3.	 	!	 				
4. :		 	-				
5.	· · · · · · · · · · · · · · · · · · ·	PA	TE OF FLOW C	ALCULATIO	ONS	······	
COEFFICIENT		Pressur		Temp.	Gravity Factor	Super Compress.	Rate of Flow
NO. (24 HOUR)	∕h _u P _m	P _m		or FL	Fg.	Factor, F pv.	Q, Mcfd
1. 12.365		110	1.00	00	1.240	1.014	1710
2.		-			~~		FCS.
3.					- 0) t		
<u>4.</u> 5.							U
	T _r	Z	Gas Liquid Hydr	ncerton Ratio	MA	R1 8 1993	.Mcf/t
NO.			A.P. L Gravity of				
1. 0.16	1.39	0.973	Specific Gravity		4	CON. DIV.	XXXXXXX
2.	-		Specific Gravity	Flowing Fluid		DIST. 3	
3.			Critical Pressure			P.S.I.A.	P S
5.			Critical Tempera	mus		R	
	,969					•	
	- 2	P _c - P _w 2	1) P _c ²	= <u>6.33</u>	02	$\binom{(2)}{r}$ $\binom{p_2}{r}$	= <u>4.7996</u>
p 2 p	p -		P. 2 . P	- 2		$\overline{P^2 \cdot P^2}$	
NO. Pt P.	P_2		P - P	_		1	
1. 401	160,801	30,168	P _c · P	•		[, ,]	
1. 401			AOF = Q	•] " =8	3207	
1. 401 2. 3.			1	$ \begin{bmatrix} \frac{P_c^2}{P_c^2 - 1} \end{bmatrix} $	" =	3207	
1. 401			1	$\begin{bmatrix} \frac{P_c^2}{P_c^2 - 1} \end{bmatrix}$	n =8		
1. 401 2. 3. 4.			1	$\begin{bmatrix} \frac{P_c^2}{P_c^2 - 1} \end{bmatrix}$ Angle of			. n . 85
1. 401 2. 3. 4. 5. Absolute Open Flow 8207			AOF = Q	$\begin{bmatrix} \frac{P_c^2}{P_c^2 - 1} \end{bmatrix}$			e, n <u>.85</u>
1. 401 2. 3. 4. 5.			AOF = Q	$\begin{bmatrix} \frac{P_c^2}{P_c^2 - 1} \end{bmatrix}$			e, n <u>.</u> 85
1. 401 2. 3. 4. 5. Absolute Open Flow 8207	160,801		AOF = Q _Mcfd @ 15.025	$\begin{bmatrix} \frac{P_c^2}{P_c^2 - 1} \end{bmatrix}$	Slope Θ		

Form 3160-5 (June 1990)

UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

FORM APPROVED Budget Bureau No. 1004-0135

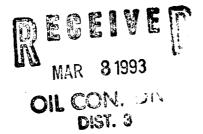
Expires: March 31, 1993

Lease Designation and Serial No.

Do not use this form for proposals to dr	AND REPORTS ON WELLS ill or to deepen or reentry to a different reservoir R PERMIT—" for such proposals	Apache
SUBMIT	IN TRIPLICATE	7. If Unit or CA, Agreement Designation
1 Type of Well Old Gas Well Well Other 2. Name of Operator Robert L. Bayless 3. Address and Telephone No. PO Box 168, Farmington, NM 4 Location of Well (Footage, Sec., T., R., M., or Survey December 1795' FNL & 1570' FWL		8. Well Name and No. Apache Bend #3 9. API Well No. 30-043-20878 10. Field and Pool, or Exploratory Area Ballard Pictured Cliffs 11. County or Parish, State Sandoval County, NM DRT. OR OTHER DATA
	TYPE OF ACTION	
TYPE OF SUBMISSION Notice of Intent Subsequent Report Final Abandonment Notice	Abandonment Recompletion Plugging Back Casing Repair Altering Casing Other Acidize, Frac	Change of Plans New Construction Non-Routine Fracturing Water Shut-Off Conversion to Injection Dispose Water (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

· See Attached Daily Report



APPROVED:

MINERALS STAFF CHIEF BUREAU OF LAND MANAGEMENT RIO PUERCO RESOURCE AREA

. I hereby certify that the foregoing is true and correct				
Signed Price M. Bayless	_ Title _	Petroleum Engineer		Date 1-5-93
(This space for Federal or State office use) Approved by Conditions of approval if any:	Title	For AM	· · · · · · · · · · · · · · · · · · ·	Date 2/15/93

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Robert L. Bayless Apache Bend #3 1795' FNL & 1570' FWL Sec. 31, T23N, R2W Sandoval County, NM

Rig up Western Company. Pump 250 gal 7 1/2% HCI acid. Start displacement and break down perfs @ 1550 psi. Pump water to displace acid into perforations at 12 bpm @ 350 psi. ISIP = 0. Let acid sit for 5 min. Roll acid into perforations. Start frac and stimulate well with 32,000 gal 70 quality foam with 46,000 lbs 12-20 sand as follows:

Pad	9 000 1 70		Avg. Press.
	8,000 gal 70 quality foam		1280 psi
1st Stage	10,000 gal w/1 ppg sand	10,000 lbs	1180 psi
2nd Stage 8,000	8,000 gal w/2 ppg sand	16,000 lbs	1160 psi
3rd Stage	4,000 gal w/3 ppg sand	12,000 lbs	1200 psi
4th Stage	2,000 gal $w/4$ ppg sand	8,000 lbs	1230 psi
Flush	1,800 gal 70 quality foam	-, 155	
	, , , , , , , , , , , , , , , , , , ,	46,000 lbs	1270 psi

Average testing pressure = 1160. Average rate = 21 bpm. ISIP = 1110 psi. 5 min = 1020 psi. 10 min = 1010 psi. 15 min = 990 psi. Shut well in for 4 hours. Open well to pit through 1/8" choke to clean up. Leave well flowing to pit.

- 12-26-92 Well flowing. Will burn intermittently. Leave well flowing.
- 12-28-92 Well flowing dry gas. Shut well in.
- 12-29-92 Surface casing pressure at 240 psi.