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State of New Mexico
Energy, Minerals and Natural Resources Department

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Form C-122
Revised 4-1-91

OIL CONSERVATION DIVISION

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

OIL CON. DIV.
DIST. 3

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator Robert L. Bayless				Lease or Unit Name Apache Bend			
Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 7/20/93		Well No. 6	
Completion Date 5/28/93		Total Depth 3028		Plug Back TD 2976		Elevation 7258 KB	
Csg. Size 4 1/2		Wt. d 10.5# 4.052		Set At 3022		Perforations: From: 2901 To: 2911	
Tbg. Size 1 1/4"		Wt. d 2.4 1.380		Set At 2904		Perforations: From: To:	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At None		Formation Ballard	
Producing Thru tubing		Reservoir Temp. °F		Mean Annual Temp. °F		Baro. Press - P _a 12.0 (est.)	
L		H		Gg est. .65		% CO ₂	
						% N ₂	
						% H ₂ S	
						Prover	
						Meter Run	
						Taps	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	
SI							582		584	
1.	2" x .750						84	60	374	
2.										
3.										
4.										
5.										

RATE OF FLOW CALCULATIONS

NO.	COEFFICIENT (24 HOUR)	$\sqrt{h_w P_a}$	Pressure P _a	Flow Temp. Factor F _L	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.	12.3650		96	1.000	1.240	1.014	1493
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcft/bbl.
1.			1.39	.973	A.P. I. Gravity of Liquid Hydrocarbons	Deg
2.					Specific Gravity Separator Gas	XXXXXXXXXX
3.					Specific Gravity Flowing Fluid	XXXXXX
4.					Critical Pressure	P.S.I.A. P.S.I.A.
5.					Critical Temperature	R R

P _c 596	P _c ² 355216					
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.7225$	2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.5876$
1.		386	148996	206220		
2.						
3.						
4.						
5.						

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2370$$

Absolute Open Flow	2370	Mcfd @ 15.025	Angle of Slope θ	Slope, n	.85
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Remarks:

Approved By Division

Conducted By:
Randy Thille

Calculated By:
Price M. Bayless

Checked By: