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See Rule 401 & Rule 1122

State of New Mexico
Energy, Minerals and Natural Resources Department

JUL 28 1993

Form C-122
Revised 4-1-91

OIL CONSERVATION DIVISION OIL CON. DIV.
P.O. Box 2088
Santa Fe, New Mexico 87504-2088
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. 5	
Completion Date 6-4-93		Total Depth 3050		Plug Back TD 3004		Elevation 7389 KB	
Csg. Size 4 1/2"		Wt. 10.5#		Set At 4.052"		Perforations: From: 2902 To: 2912	
Tbg. Size 1 1/4"		Wt. 2.4#		Set At 1.380"		Perforations: From: To:	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At None		Formation Pictured Cliffs	
Producing Thru tubing		Reservoir Temp. °F		Mean Annual Temp. °F		Baro. Press. - P 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		.					314		334	
1.	2" x .750"						28	60	248	
2.										
3.										
4.										
5.										

RATE OF FLOW CALCULATIONS

NO.	COEFFICIENT (24 HOUR)		Pressure P _m	Flow Temp. Factor Ft	Gravity Factor Fg	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.	12,3650		40	1.000	1.240	1.014	622
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.	.06		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

NO.	P _t	P _w	P _w ²	P _c ² - P _w ²	1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{2.2971}{P_c^2 - P_w^2}$	2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{2.0277}{P_c^2 - P_w^2}$
1.		260	67600	52116		
2.						
3.						
4.						
5.						

AOE = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1261$

Absolute Open Flow	1261	Mcf/d @ 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:
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