

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 2/11/89	
Company Robert L. Bayless				Connection Robert L. Bayless	
Pool East Blanco Pictured Cliffs				Formation Pictured Cliffs	
Completion Date 2/3/89		Total Depth 4110'		Plug Back TD 4015'	
Csg. Size 4 1/2"		WT. 10.5		Elevation 7087' RKB	
Trg. Size 2 3/8"		WT. 4.7		Farm or Lease Name Jicarilla 464	
Perforations: From 3726' To 3998'		Set At 4078'		Well No. 5	
Perforations: From To		Set At 3974'		Unit Sec. Twp. Rys. B 31 30N 3W	
Type Well - Single - Bradenhead - G.C. or G.O. Multiple gas - single				Packer Set At none	
Producing Thru tubing				County Rio Arriba	
Reservoir Temp. °F .				State New Mexico	
Mean Annual Temp. °F .				Baro. Press. - P _a 12.0 (est.)	
L		H		Prover	
G _g .65 (est)		% CO ₂		% N ₂	
% H ₂ S		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
1	8 days				
2	2 inch x .750				
3					
4					
5					
RATE OF FLOW CALCULATIONS					
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g
1	12.365		224	1.000	1.240
2					
3					
4					
5					
NO.	R ₁	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio
1	.33		1.39	.957	A.P.I. Gravity of Liquid Hydrocarbons
2					Specific Gravity Separator Gas
3					Specific Gravity Flowing Fluid
4					Critical Pressure
5					Critical Temperature
P _c 1057 P _c ² 1,117,249					
NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.1907$
1		423	178,929	938,320	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.1599$
2					
3					
4					
5					
Absolute Open Flow 4071 Mcld @ 15.025 Angle of Slope 0 Slope, n .85					
Remarks: light to medium mist throughout test					
Approved By Division		Conducted By: David Ball		Checked By: Kevin H. McCord	