

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 5-31-84			
Company Robert L. Bayless				Connection			
Pool Ballard Pictured Cliff				Formation Pictured Cliffs <i>Ext.</i>			
Completion Date 5-22-84		Total Depth 2760'		Plug Back TD 2691'			
Csq. Size 2-7/8"		Wt. 7.9#		Elevation 7128'			
Perforations: From 2595 To 2660		Well No. B#2		Unit J			
Perforations: From -- To --		Unit J		Sec. 26 Twp. 23N Rye. 4W			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At None			
Producing Thru Casing				County Sandoval			
Reservoir Temp. °F #				State New Mexico			
Mean Annual Temp. °F				Baro. Press. - P _a 12 psi (est)			
L		H		Prover			
G _g .650		% CO ₂		% N ₂			
% H ₂ S		Meter Run		Taps			
FLOW DATA							
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w		
1.	8 days						
2.	2" X 1/2"			26			
3.							
4.							
5.							
TUBING DATA							
	Press. p.s.i.g.	Temp. °F					
	680						
	26	60°					
CASING DATA							
	Press. p.s.i.g.	Temp. °F					
RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.	5.4315		38	1.000	.9608	1.009	200
2.							
3.							
4.							
5.							
NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.		
1.					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.		
2.					Specific Gravity Separator Gas _____ X X X X X X X X		
3.					Specific Gravity Flowing Fluid _____ X X X X X		
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.		
5.					Critical Temperature _____ R _____ R		
P _c	692	P _c ²	478864				
NO.	P ₁ ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0034$		
1.		40	1628	477,236	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0029$		
2.							
3.							
4.							
5.							
Calculated					AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 201$		
Absolute Open Flow 201 Mcfd @ 15.025					Angle of Slope θ		Slope, n .85
Remarks:							
Approved By Division		Conducted By: Walsh Engineering		Calculated By: Kevin H. McCord		Checked By: Robert L. Bayless	