

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELLS

12/12/88
RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 12/11/88		DEC 13 1988							
Company Robert L. Bayless		Connection Robert L. Bayless		OIL CON. DIV. DIST. 3							
Pool East Blanco Pictured Cliffs		Formation Pictured Cliffs		Unit							
Completion Date 12/3/88		Total Depth 4220'		Plug back TD 4146'							
Csg. Size 4 1/2		WT. 10.5#		Elevation 7231' RKB							
Perforations: From 3810' To 3900'		Set At 4193'		Well No. 3							
Perforations: From To		Set At 3843'		Unit Sec. Twp. Rye. H 30 30N 3W							
Type Well - Single - Brdenhead - G.C. or G.O. Multiple single		Packer Set At none		County Rio Arriba							
Producing Thru tubing		Reservoir Temp. °F		Baro. Press. - P _a 12.0 (est.)							
Mean Annual Temp. °F		State New Mexico		Prover Meter Run Taps							
L H Cg		% CO ₂ % N ₂ % H ₂ S		.65 (est)							
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.	Temp. °F	Duration of Flow
SI	8 days						900		902		
1.	2 inch x .750						292	60°	540		3 hrs.
2.											
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	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd				
1	12.365		304	1.000	1.240	1.030	4801				
2.											
3.											
4.											
5.											
NO.	R	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.						
1	.454		1.39	.943	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 914 P _c ² 835,396					(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.5742$			(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.4706$			
NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²	AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 7060$						
1		552	304,704	530,692							
2											
3											
4											
5											
Absolute Open Flow 7060 Mcfd @ 15.025					Angle of Slope @ _____			Slope, n .85			
Remarks: very little mist											
Approved By Division			Conducted By: David Ball			Calculated By: Kevin McCord			Checked By:		