

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 11/8/88		RECEIVED NOV 1 01988		
Company Robert L. Bayless				Connection Bayless					
Pool East Blanco Pictured Cliffs				Formation Uvulas, Pictured Cliffs					
Completion Date 10/31/88		Total Depth 4075		Plug back TD 3925		Elevation 7086' RKB		Unit OIL CON. DIV DIST. 3	
Csg. Size 4 1/2"		Wt. 10.5#/ft		d 4.052		Set AI 4033		Perforations: From 3715 To 3784	
Tub. Size 1 1/2"		Wt. 2.9#/ft		d 1.610		Set AI 3758		Perforations: From To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple gas - single					Packer Set AI none			County Rio Arriba	
Producing Thru tubing		Reservoir Temp. °F #		Mean Annual Temp. °F		Baro. Press. - P _a 12.0 (est)		State New Mexico	
L		H		G _g .65(est)		% 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	8 days						1040		1040	
1.	2 inch x .750						212	60°	620	
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		224	1.000	1.240	1.022	3510
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1	.33		1.39	.957	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

NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²
1		632	399,424	707,280
2				
3				
4				
5				

P_c 1052 P_c² 1,106,704

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.5647$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.4631$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 5135$

Absolute Open Flow 5135 Mcfd @ 15.025

Angle of Slope ϕ _____

Slope, n .85

Remarks: Light mist throughout test--no sand.

Approved By Division	Conducted By: David Ball	Calculated By: Kevin H. McCord	Checked By:
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