

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 10-12-79				
Company Caulkins Oil Company				Connection					
Pool South Blanco-PC				Formation Pictured Cliffs				Unit	
Completion Date 10-5-79		Total Depth 3980		Plug Back TD 3980		Elevation 6570 Gr.		Farm or Lease Name Breech A	
Csg. Size 7" 1/2 4 1/2		Wt. 23# 10.5#		d 6.366 4.000		Set At 2937 2804-3980		Perforations: From 2956 To 3864	
Tub. Size 1"		Wt. 1.7#		d 1.315		Set At 3807		Perforations: From 3807 To	
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Dual G-G Commingle					Packer Set At None		County Rio Arriba		
Producing Thru Tubing		Reservoir Temp. °F P		Mean Annual Temp. °F		Baro. Press. - P _a		State New Mexico	
L		H		G _g		% 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.		Temp. °F
SI							411		416		7 Days
1.							24		307		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 F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	14,1605		36	1.000	1.000	1.000	510
2.							
3.							
4.							
5.							

NO.	P ₁	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 _____ XXXXXXXXXX	
3.					Specific Gravity Flowing Fluid _____ XXXXX	
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.	
5.					Critical Temperature _____ R _____ R	

P _c 428 P _c ² 183,184			
NO.	P ₁ ²	P _w	P _w ²
1		319	101,761
2			
3			
4			
5			

(1) $\frac{P_c^2}{P_w^2 - P_c^2} = 2.24$

AOF = Q $\left[\frac{P_c^2}{P_w^2 - P_c^2} \right]^n = 937$

(2) $\left[\frac{P_c^2}{P_w^2 - P_c^2} \right]^n = 1.8369$

Absolute Open Flow _____ Mcfd @ 15,025		Angle of Slope @ _____	Slope, n 75
Remarks: 70% Pictured Cliffs equals 659 MCFPD			
39% Chacra equals 278 MCFPD			

Approved by Division	Conducted By:	Calculated By:	Checked By:
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