

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 8-16-82	
Company Jerome P. McHugh		Connection	
Pool So. Blanco		Formation Pictured Cliffs	
Completion Date 6-1-82	Total Depth 3300'	Plug Back TD 3235'	Elevation 6996'
Casing Size 4 1/2"		Well No. 12	
Casing Weight 10.5#		Perforations: From 3192 To 3235	
Casing Depth 4.052'		Perforations: From open end To	
Casing Set At 3296'		Unit G 12 24N 3W	
Type Well - Single - Brdenhead - C.G. or G.O. Multiple Single		Packer Set At ---	
Producing thru tubing		County Rio Arriba	
Reservoir Temp. °F P		State New Mexico	
Mean Annual Temp. °F ---		Baro. Press. - P _a	
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							424		425		7 days
1.	1/2"	positive choke					44	65°	108		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	5.4315		56	.9952	.9837	1.000	298
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

NO.	P _r	P _w	P _r ²	P _w ²	P _r ² - P _w ²
1	437	120	190,969	14,400	176,569
2.					
3.					
4.					
5.					

(1) $\frac{P_r^2}{P_r^2 - P_w^2} = 1.08$

AOF = Q $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 319$

(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1.07$

Absolute Open Flow	319	Mcf @ 15.025	Angle of Slope @	40°	Slope, n	.85
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Remarks: Dry Gas

Approved By Division	Conducted By: Anderson	Calculated By: Anderson	Checked By:
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