

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL •

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 5-6-1978	
Company Palmer Oil & Gas Company			Connection Northwest Pipeline		
Pool Wilcat			Formation Pictured Cliff		
Completion Date 4-29-1978		Total Depth 3630		Elevation 6539 G.L.	
Casing Size 5.500		Set At 3630		Perforations: From 3325 To 3522	
Tubing Size 2.375		Set At 3300		Perforations: From Open To Ended	
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Gas - Gas Dual				Packer Set At 3300	
Producing Thru Tbg. C		Reservoir Temp. °F 6		Mean Annual Temp. °F 12 psia	
H		Gg 650(est.)		% CO ₂ % H ₂ % H ₂ S Prover	
County San Juan		State New Mexico		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	7 day						1461				
1.	2 inch	.750	138				138	60°			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 Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	12.3650		150	1.000	.9608	1.014	1806
2.							
3.							
4.							
5.							

NO.	P _f	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.	
					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.	
					Specific Gravity Separator Gas _____ X X X X X X X X	
					Specific Gravity Flowing Fluid _____ X X X X X	
					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.	
					Critical Temperature _____ R	

NO.	P _f	P _w	P _w ²	P _f ² - P _w ²	(1) $\frac{P_f^2}{P_f^2 - P_w^2} = 1.0304$	(2) $\left[\frac{P_f^2}{P_f^2 - P_w^2} \right]^n = 1.02577$
1		253	64018	2,105,711		
2	Use calculated Pw ²					
3						
4						
5						

Absolute Open Flow 1852		Mcf @ 15.025		Angle of Slope θ		Slope, n .85	
Remarks: Initial P.L. test taken in conjunction with potential test.							
Approved By Commissioner		Conducted By Joe F. Elledge		Calculated By Joe F. Elledge		Checked By Don Roberts	