

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 7-14-75	
Company Northwest Pipeline Corp.				Connection New Completion			
Pool Blanco				Formation Mesa Verde		Unit San Juan 29-6	
Completion Date 7-4-75		Total Depth 5660		Plug Back TD 5613		Elevation 6384 G1	
Csg. Size 4.5		Wt. 10.5		Set At 4.052		Perforations: From 4994 To 5604	
Tubg. Size 2 3/8		Wt. 4.7		Set At 1.995		Perforations: From To	
Type Well - Single - Broadhead - G.G. or G.O. Multiple Gas - single				Packer Set At none		Well No. 63A	
Producing Thru tubing		Reservoir Temp. *F 		Mean Annual Temp. *F 		Baro. Press. - P _a 	
L 		H 		G _g .690		% CO ₂ 	
% N ₂ 		% H ₂ S 		Prover 3/4 variable		Meter Run 4"	
To, s 		Flange 		County Rio Arriba			
State New Mexico				State New Mexico			

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Meter p.s.i.g.	Diff.	Temp. *F	Press. p.s.i.g.	Temp. *F	Press. p.s.i.g.	Temp. *F	Duration of Flow
SI	7 day SIP						888		889		
1.	4 X 2.50			89	8.4	52°	415		707		3 hr.
2.											
3.											
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	meter diff.	Pressure Meter Static	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	103.00	8.4	3.2	1.008	1.204	1.010	3394
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 ²	P _w ²	P _w ²	P _r ² - P _w ²
1	901	811801	719	516961
2				
3				
4				
5				

(1) $\frac{P_r^2}{P_r^2 - P_w^2} = \frac{811801}{294840}$

AOF = Q $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 7255$

(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 2.1375$

Absolute Open Flow <u>7255</u> Mcfd @ 15.025		Angle of Slope θ _____
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Remarks: Diff. & static reading from L-10 chart. Coefficient from L-10 chart factor of 3.162 & orifice factor 32.64. Well produced trace of condensate.

Approved By Commission: _____	Conducted By: <u>BJB</u>	Calculated By: <u>Robby Broughton</u>	Checked By: _____
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