

Rec 11-7-75 MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 10/20/75				
Company Northwest Pipeline Corporation				Connection None					
Pool Blanco				Formation Mesa Verde				Unit San Juan 30-5	
Completion Date 10/13/75		Total Depth 5940		Plug Back TD 5908		Elevation 6414 GL		Farm or Lease Name San Juan 30-5 Unit	
Csg. Size 4.500	Wt. 10.5	d 4.052	Set At 5940	Perforations: From 5344 To 5830		Well No. #43			
Tbg. Size 2.375	Wt. 4.7	d 1.995	Set At 5820	Perforations: From To		Unit Sec. Twp. Rge. M 5 30 5			
Type Well - Single - Brodenhead - G.G. or G.O. Multiple Gas - Single					Packer Set At None		County Rio Arriba		
Producing Thru Tubing		Reservoir Temp. °F θ		Mean Annual Temp. °F		Baro. Press. - P _a 12.0		State New Mexico	
L	H	Gg .59	% CO ₂	% N ₂	% H ₂ S	Prover 3/4" choke		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							1143		1143		
1.	2 X 3/4			280			280	74°	683		3 hr
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, Γ _{pv}	Rate of Flow Q, Mcfd
1	12.365		292	.9868	1.008	1.021	3667
2.							
3.							
4.							
5.							

NO.	P _t	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 _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.5676$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.4010$
1		695	483025	851000		
2						
3						
4						
5						

Absolute Open Flow 5137 Mcfd @ 15.025				Angle of Slope θ _____		Slope, n .75	
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Remarks: Well blew dry gas throughout.			
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Approved By Commission:	Conducted By: Bill Beevers	Calculated By: Fred S. Hamrick	Checked By: B.B.B.
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