

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 12-9-80			
Company El Paso Natural Gas Company				Connection Northwest Pipeline Corp.					
Pool Blanco				Formation Pictured Cliff				Unit San Juan 27-5	
Completion Date 11-25-80		Total Depth 5854		Plug Back TD 5837		Elevation 6512 GR		Farm or Lease Name San Juan 27-5 Unit	
Csg. Size 7.000	Wt. 20.0	d 6.456	Set At 3581	Perforations: From 3237 To 3312		Well No. #56A			
Thq. Size 1.660	Wt. 2.33	d 1.380	Set At 3290	Perforations: From To		Unit Sec. Twp. Rge. E 34 27 5			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G.G. Dual						Packer Set At 3434		County Rio Arriba	
Producing Thru Csg.		Reservoir Temp. °F θ		Mean Annual Temp. °F		Baro. Press. - P _a 12		State New Mexico	
L	H	Gg 0.670	% 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							808		808		14 Days
1.	Choke		0.750	58		52	58				3 Hours
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 Comp. Factor F _{sp}	Rate of Flow Mcf/d
1	12.365		70	1.0078	0.9463		834
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.
5.					Critical Temperature	R

NO.	P _t ²	P _w ²	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$
1		70	4900	667500	1.0073	1.0062
2						
3						
4						
5						

$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 839$			
Absolute Open Flow 839 Mcfd @ 15.025		Angle of Slope θ	
		Slope, n 0.85	

Remarks: Vented Gas - 181 MCF. The Well Produced No Liquids During The Test.

Approved By Division	Conducted By: Knox Hedecoke	Calculated By: H. E. McAnally	Checked By:
----------------------	--------------------------------	----------------------------------	-------------