

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 2-26-81			
Company El Paso Natural Gas Company					Connection Northwest Pipeline Corp.			
Pool Blanco					Formation Mesa Verde			Unit San Juan 27-5
Completion Date 2-19-81		Total Depth 6166		Plug Back TD 6148		Elevation 6676 GR		Farm or Lease Name San Juan 27-5 Unit
Csq. Size 7.000	Wt. 20.0	d 6.456	Set At 3880	Perforations: From *5208 To 6064			Well No. #25A	
Tbg. Size 2.375	Wt. 4.7	d 1.995	Set At 6042	Perforations: From To			Unit Sec. Twp. Rge. F 3 27 5	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G. G. Dual					Packer Set At 3709		County Rio Arriba	
Producing Thru Tbg.		Reservoir Temp. °F θ		Mean Annual Temp. °F		Baro. Press. - P _a 12		State New Mexico
L	H	Gg 0.650	% 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							898				7 Days
1.	Choke		0.750	268		62					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 Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	12.365		280	0.9981	0.9608	1.027	3410
2.							
3.							
4.							
5.							

NO.	P _f	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1.										
2.										
3.										
4.										
5.										

P _c 910	P _c ² 828100				
NO.	P _f ²	P _w	P _w ²	P _c ² - P _w ²	
1	78400	577	332929	495171	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.6724$
2					(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.4706$
3					
4					
5					

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 5015$			
Absolute Open Flow 5015 Mcfd @ 15.025		Angle of Slope θ	
Slope, n 0.75			

Remarks: *4.500" Liner From 3698 to 6166
Vented 466 MCF Gas During The Test

Approved By Division	Conducted By: Melvin Wileman	Calculated By: H. E. McAnally	Checked By:
----------------------	---------------------------------	----------------------------------	-------------