

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 12-10-80			
Company El Paso Natural Gas Company				Connection Northwest Pipeline Corp.					
Pool Tapacito				Formation Pictured Cliff				Unit San Juan 27-4	
Completion Date 11-24-80		Total Depth 6354		Plug Back TD 6338		Elevation 6856 GR		Farm or Lease Name San Juan 27-4 Unit	
Csg. Size 7.000	Wt. 23.0	d 6.366	Set At 4120	Perforations: From 3739 To 3824		Well No. #125A			
Tbg. Size 1.660	Wt. 2.4	d 1.380	Set At 3804	Perforations: From To		Unit Sec. Twp. Rys. 0 8 27 4			
Type Well - Single - Brodenhead - G.C. or G.O. Multiple G. G. Dual						Packer Set At 3969		County Rio Arriba	
Producing Thru Csg.		Reservoir Temp. °F #		Mean Annual Temp. °F		Baro. Press. - P _a 12		State New Mexico	
L	H	G _g 0.67	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run 4"	Taps Flange	

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							1060		1060		16 Days
1.	4" X 2.750.			61	3.65	50	162		156		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- ibility Factor, F _{spv}	Rate of Flow Q, Mcfd
1	129.96	9.86		1.0098	1.222	1.010	1597
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _t	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

P _c 1072	P _c ² 1149184		
NO.	P _t ²	P _w	P _w ²
1		174	30276
2			
3			
4			
5			

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0271$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0230$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1634$

Absolute Open Flow 1634	Mcf/d @ 15.025	Angle of Slope θ _____	Slope, n 0.85
-------------------------	----------------	-------------------------------	---------------

Remarks: Vented Gas - 333 MCF. The Well Produced No Liquids During The Test.

Approved By Division	Conducted By: Roger Hardy	Calculated By: H. E. McAnally	Checked By:
----------------------	------------------------------	----------------------------------	-------------