

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 12-2-80			
Company El Paso Natural Gas Company				Connection Northwest Pipeline Corp.					
Pool Blanco				Formation Mesa Verde				Unit San Juan 27-4	
Completion Date 11-24-80		Total Depth 6323		Plug Back TD 6306		Elevation 6771 GL		Farm or Lease Name San Juan 27-4 Unit	
Csg. Size 7.000	Wt. 20.0	d 6.456	Set At 3980	Perforations: From *5345 To 6233				Well No. #124A (MV)	
Tbg. Size 2.375	Wt. 4.7	d 1.995	Set At 6189	Perforations: From To				Unit Sec. Twp. Rge. D 8 27 4	
Type Well - Single - Brdenhead - G.G. or G.O. Multiple G. G. Dual						Packer Set At 3830		County Rio Arriba	
Producing Thru Tbg.		Reservoir Temp. °F p		Mean Annual Temp. °F		Baro. Press. - P _a 12		State New Mexico	
L	H	G _g 0.670	% 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							1082				8 Days
1.	4"	X	2.750	129	6.52	50	283				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	129.96	23.42		1.0098	1.222	1.014	3808
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 1094 P _c ² 1196856					(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.5405$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.3827$	
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²				
1	87025	648	419904	776932				
2								
3								
4								
5								

Absolute Open Flow 5265 Mcfd @ 15.025					Angle of Slope θ _____ Slope, n 0.750				
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Remarks: *4 1/2" Liner from 3820 to 6323'. Gas Vented - 488 MCF
No Liquids Produced during The Test.

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