

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 10-13-80			
Company El Paso Natural Gas Company				Connection Northwest Pipeline Corp.					
Pool Blanco				Formation Mesa Verde				Unit San Juan 27-4	
Completion Date 9-24-80		Total Depth 6683		Plug Back TD		Elevation 7177 GR		Farm or Lease Name San Juan 27-4 Unit	
Csq. Size 7.000	Wt. 23.0	d 6.366	Set At 4473	Perforations: From 5768 To 6556		Well No. #138 (MV)			
Tbg. Size 2.375	Wt. 4.7	d 1.995	Set At 6562	Perforations: From To		Unit 0		Sec. 16	Twp. 27
						Rge. 4			
Type Well - Single - Brodenhead - G.G. or G.O. Multiple Gas - Gas Dual						Packer Set At 4340		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 X	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							1139				19 Days
1.	4"		2.750	147	6.85	50	306				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	27.31		1.010	1.222	1.016	4451
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 1151 P _c ² 1324801			
NO.	P _t ²	P _w	P _w ²
1	25281	711	505521
2			
3			
4			
5			

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.6170$		(2) $\frac{P_c^2}{P_c^2 - P_w^2} = 340$	
AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 6383$			

Absolute Open Flow 6383 Mcfd @ 15.025		Angle of Slope θ _____	
Slope, n 0.75			

Remarks: 4.500" Liner From 4312 to 6683
No Liquid Production During The Test. Vented 533 MCF Gas.

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