

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 12-29-80			
Company El Paso Natural Gas Company				Connection Northwest Pipeline Corp.					
Pool Blanco				Formation Mesa Verde				Unit San Juan 27-5	
Completion Date 12-22-80		Total Depth 6020		Plug Back TD 6003		Elevation 6569 GL		Farm or Lease Name San Juan 27-5 Unit	
Csq. Size 7.000	Wt. 20.0	d 6.456	Set At 3699	Perforations: From *5053 To 5946		Well No. #53A (MV)			
Tbg. Size 2.375	Wt. 4.7	d 1.995	Set At 5910	Perforations: From To		Unit Sec. Twp. Rge. D 5 27 5			
Type Well - Single - Brodenhead - G.G. or G.O. Multiple G. G. Dual						Packer Set At 3560		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	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							610				7 Days
1.	Choke	0.75		160		59					
2.											
3.											
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	12.365		172	1.001	0.9463	1.019	2053
2.							
3.							
4.							
5.							

NO.	P _r	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 OIL CON. COR.
4.					Critical Pressure _____ P.S.I.A. DIST. 3 P.S.I.A.
5.					Critical Temperature _____ R _____ R

NO.	P _c	P _c ²	P _w	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	622	386884	350	122500	254384	1.4633	1.3305
2							
3							
4							
5							

Absolute Open Flow _____ Mcfd @ 15.025				Angle of Slope θ _____		Slope, n 0.75	
Remarks: Vented Gas - 270 MCF							

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