

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 5-4-81			
Company El Paso Natural Gas Company				Connection El Paso Natural Gas Company					
Pool Blanco (PC) Ext.				Formation Pictured Cliffs				Unit San Juan 28-7	
Completion Date 4-20-81		Total Depth 5974		Plug Back TD 5957		Elevation 6622 GL		Farm or Lease Name San Juan 28-7	
Csg. Size *7.000	Wt. 20	d 6.456	Set At 3635	Perforations: From 3300 To 3341		Well No. #20A (PC)			
Tub. Size 1.660	Wt. 2.33	d 1.380	Set At 3328	Perforations: From To		Unit J	Sec. 8	Twp. 28	Rge. 7
Type Well - Single - Bronthead - G.G. or G.O. Multiple G. G. Dual						Packer Set At 3516		County Rio Arriba	
Producing Thru Csg.		Reservoir Temp. *F p		Mean Annual Temp. *F		Baro. Press. - P _a 12		State New Mexico	
L	H	G _g 0.625	% 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							964		964		14 Days
1.	Choke		0.750	100		60	104				3 Hours
2.											
3.											
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_{in}}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super. Compres. Factor, F _{sp}	Rate of Flow Q, Mcfd
1	12.365		112	1.000	.9798	1.010	1370
2.							
3.							
4.							
5.							

NO.	P _t	Temp. *R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf, bbl.
1					A.P.L. Gravity of Liquid Hydrocarbons	Deq.
2					Specific Gravity Separator Gas	XXXXXX
3					Specific Gravity Flowing Fluid	
4					Critical Pressure	P.S.I.A.
5					Critical Temperature	R

NO.	P _t	P _w	P _u	P _t ² - P _w ²	(1) $\frac{P_c^2}{P_t^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_t^2 - P_w^2} \right]^n =$
1	976	952576	116	13456	1.0143	1.0122
2.						
3.						
4.						
5.						

Absolute Open Flow 1387				Mcf @ 15.025		Angle of Slope		Slope, n 0.85	
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Remarks: Gas Vented During Test 233 MCF
*4 1/2" Liner from 3495 to 5974

John Easley

R. F. Headrick