

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 4-30-81			
Company El Paso Natural Gas Company				Connection El Paso Natural Gas Company					
Pool Blanco				Formation Mesa Verde				Unit San Juan 28-7	
Completion Date 4-8-81		Total Depth 5990		Plug Back TD 5972		Elevation 6561 GR		Farm or Lease Name San Juan 28-7 Unit	
Csq. Size 7"	Wt. 20#	d 6.456	Set At 3650	Perforations: From *4985 To 5926		Well No. #74A (MV)			
Trg. Size 2 3/8	Wt. 4.7#	d 1.995	Set At 5905	Perforations: From To		Unit Sec. Twp. Rge. I 11 28 7			
Type Well - Single - Brindanhead - G.G. or G.O. Multiple G. G. Dual						Packer Set At 3545		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 0.650	% 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							811				7 Days
1.	Choke		0.750	12		61					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 F _L	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcf/d
1	12.365		24	.9990	.9608	1.007	287
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1										
2.										
3.										
4.										
5.										

P ₁ 823		P ₂ 677329	
NO.	P ₁	P ₂	P ₁ ² - P ₂ ²
1	576	49	2401
2.			
3.			
4.			
5.			

$$(1) \frac{P_c^2}{P_1^2 - P_2^2} = 1.0036$$

$$(2) \left[\frac{P_c^2}{P_1^2 - P_2^2} \right]^n = 1.0027$$

$$AOF = Q \left[\frac{P_c^2}{P_1^2 - P_2^2} \right]^n = 288$$

Absolute Open Flow	288	Mcf/d @ 15.025	Angle of Slope	0.75
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Remarks: Vented 16 MCF During Test
*4 1/2" Liner From 3527 to 5990

Approved by Division	Conducted By John Easley	Calculated By R. F. Headrick	Checked By
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