

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 3-9-81			
Company El Paso Natural Gas Company				Connection Northwest Pipeline					
Pool Blanco				Formation Mesa Verde				Unit San Juan 27-5	
Completion Date 1-23-81		Total Depth 5866		Plug Back TD 5849		Elevation 6543 GR		Farm or Lease Name San Juan 27-5 Unit	
Csq. Size 7.0*	Wt. 20.0	d 6.456	Set At 3631	Perforations: From 4897 To 5832		Well No. #5A			
Tbg. Size 2.375	Wt. 4.7	d 1.995	Set At 5772	Perforations: From To		Unit Sec. Twp. Rge. J 34 27 5			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G. G. Dual						Packer Set At 3465		County Rio Arriba	
Producing Thru Tbg.		Reservoir Temp. °F θ		Mean Annual Temp. °F		Baro. Press. - P _a 12.0		State New Mexico	
L	H	Gg .67	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run 4"	Taps Flg.	

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
1.	4" X 2,500			23	4.95	56	101				45 Days 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 Ft.	Gravity Factor F _g	Super Compress Factor, F _{sp}
1	103.21	9.261	35	1.004	1.222	1.000
2.						
3.						
4.						
5.						

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

P _c 616	P _c ² 279,456	(1) $\frac{P_c^2}{P_c^2 - R_w^2} = 1.1259$	(2) $\left[\frac{P_c^2}{P_c^2 - R_w^2} \right]^n = 1.0930$
NO. 1	P _t ² 12,769	P _w 206	P _w ² 42,436
2.			
3.			
4.			
5.			

Absolute Open Flow 1282 Mcfd @ 15.025		Angle of Slope θ	Slope, n 0.75
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Remarks: *4 1/2" Liner 3456 to 5866	
Liquids - 11.7 Bbls Oil	Gas Vented - 173 MCF
35.0 Bbls Water	

Approved By Division	Conducted By: Lyle Nation	Calculated By: Bill Clark	Checked By:
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