

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 2-18-81	
Company El Paso Natural Gas Company				Connection Northwest Pipeline	
Pool Tapacito				Formation Pictured Cliffs	
Completion Date 12-3-80		Total Depth 5866'		Plug Back TD 5849'	
				Elevation 6563' G.L.	
Farm or Lease Name San Juan 27-5 Unit					
Csq. Size 7.0	Wt. 20.0	d 6.456	Set At 3631	Perforations: From 3254 To 3323	
Well No. #5A					
Thg. Size 1.660	Wt. 2.90	d 1.380	Set At 3316	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 Tubing		Reservoir Temp. °F p		Baro. Press. - P _a 12.0	
State New Mexico					
L	H	Gg 0.67	% 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							944		944		77 Days
1.	3/4" Choke			79		50			402		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 Fg	Rate of Flow Mc/d
1	12.365		91	1.010	.9463	3 1075
2.						
3.						
4.						
5.						

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mc'/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 956 P _c ² 913,936		(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.2308$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.1931$	
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	
1		414	171,396	742540	
2					
3					
4					
5					

Absolute Open Flow 1283 _____ Mc/d @ 15.025		Angle of Slope θ _____		Slope, n 0.85	
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Remarks: No Liquids Produced, Gas Vented - 170 MCF
The Pictured Cliffs Pressure Has Been Used To Attempt To Unload The Mesa Verde.

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