

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test: ☒ Initial ☐ Annual ☐ Special						Test Date: 1-5-81			
Company: El Paso Natural Gas Company				Connection: Northwest Pipeline Corp.					
Pool: Tapacito				Formation: Pictured Cliff				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	
Csg. Size: 7.000	Wt.: 20.0	d: 6.456	Set At: 3699	Perforations: From 3384 To 3437		Well No.: #53A			
Thg. Size: 1.660	Wt.: 2.33	d: 1.380	Set At: 3434	Perforations: From To		Unit: D	Sec.: 5	Twp.: 27	Rge.: 5
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: G. G. Dual				Packer Set At: 3560		County: Rio Arriba			
Producing Thru Csg.		Reservoir Temp. °F		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							1070		1090		14 Days
1.	Choke		0.750	50		54	77				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 _{pv}	Rate of Flow Q, Mcfd
1	12.365		62	1.0058	0.9608	1.009	748
2.							
3.							
4.							
5.							

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

P _c : 1102	P _c ² : 1214404	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0066$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0056$
NO.	P _t ²	P _w	P _w ²
1		89	7921
2			
3			
4			
5			

Absolute Open Flow: 752 Mcfd @ 15.025		Angle of Slope θ: _____	Slope, n: 0.85
Remarks: Gas Vented = 132 MCF			

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