

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 11-3-80	
Company El Paso Natural Gas Company				Connection Northwest Pipeline Company	
Pool Blanco				Formation Mesa Verde	
Completion Date 8-10-80		Total Depth 6235'		Plug Back TD 6219'	
				Elevation 6715'	
Farm or Lease Name San Juan 27-4 Unit				Well No. #134	
Csq. Size 7.0"	Wt. 20.0#	d 6.456"	Set At 3903	Perforations: From 5368 To 6111	Unit N
Tbg. Size 2.375	Wt. 4.7#	d 1.995	Set At 6104	Perforations: From To	Sec. 9
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G.G. Dual				Packer Set At 3773	
Producing Thru Tbg.		Reservoir Temp. °F 8		Mean Annual Temp. °F 12.0	
Baro. Press. - P _a 12.0		State New Mexico		County Rio Arriba	
L	H	G _g 0.670	% 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
SI							710				55 Days
1.	4" X 2.750"			113	6.20	52	270				
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	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	41.10	69.31	125	1.008	1.222	1.013	3.555
2.							
3.							
4.							
5.							

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

$P_c = 722$ $P_c^2 = 521,284$					$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 3.3708$		$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.4877$	
NO.	P ₁ ²	P _w	P _w ²	P _c ² - P _w ²				
1	79,524	606	366,637	154,647				
2								
3								
4								
5								

$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 8,844$				Absolute Open Flow <u>8,844</u> Mcfd @ 15.025		Angle of Slope θ _____ Slope, n <u>0.75</u>	
--	--	--	--	---	--	--	--

Remarks: * 4 1/2" - Liner - 3762 to 6235'	
Liquids Produced - 10.5 Bbls Oil, Gas Vented - 336 MCF	

Approved By Division	Conducted By: Roger Hardy	Calculated By: Bill Blark	Checked By:
----------------------	------------------------------	------------------------------	-------------