

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 11-24-80			
Company El Pas o Natural Gas Company				Connection Northwest Pipeline Corp.					
Pool Blanco				Formation Mesa Verde				Unit San Juan 27-4	
Completion Date		Total Depth 6686		Plug Back TD 6668		Elevation 7138 GR		Farm or Lease Name San Juan 27-4 Unit	
Coq. Size 7.000	Wt. 20.0	d 6.456	Set At 4409	Perforations: From *5742 To 6582		Well No. #99A			
Thq. Size 2.375	Wt. 4.7	d 1.995	Set At 6469	Perforations: From To		Unit Sec. Twp. Rye. C 16 27 4			
Type Well - Single - Brodenhead - G.G. or G.O. Multiple G. G. Dual						Packer Set At 4276		County Rio Arriba	
Producing Thru Thg		Reservoir Temp. *F P		Mean Annual Temp. *F		Baro. Press. - P _a 12		State New Mexico	
L	H	G _g 0.670	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run 4"	Taps Flange	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. *F	Press. p.s.i.g.	Temp. *F	Press. p.s.i.g.		Temp. *F
SI							1064				
1.	4"		2.500	110	8.75	42	278				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 F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	103.21	30.56	122	1.018	1.222	1.013	3975
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 _____ Deg.
2.					Specific Gravity Separator Gas _____ XXXXXXXXXX
3.					Specific Gravity Flowing Fluid _____ XXXXX
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

P _c 1076 P _c ² 1157776					(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.6617$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.4636$	
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 5818$			
1	290	679	461041	696735				
2								
3								
4								
5								

Absolute Open Flow 5818 Mcfd @ 15.025		Angle of Slope θ _____		Slope, n 0.75	
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Remarks: *4.500" Liner from 4266 to 6686. No liquids produced during the test.
Gas vented - 453 MCF.

Approved By Division	Conducted By: Roger Hardy	Calculated By: H. E. McAnally	Checked By:
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