

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 12-3-80			
Company El Paso Natural Gas Company				Connection Northwest Pipeline Corp.					
Pool Blanco				Formation Mesa Verde				Unit San Juan 27-4	
Completion Date 11-24-80		Total Depth 6354		Plug Back TD 6338		Elevation 6856 GR		Farm or Lease Name San Juan 27-4 Unit	
Csq. Size 7.000	Wt. 20.0	d 6.456	Set At 4120	Perforations: From *5440 To 6288		Well No. #125A			
Tbg. Size 2.375	Wt. 4.7	d 1.995	Set At 6242	Perforations: From To		Unit Sec. Twp. Rge. 0 8 27 4			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G. G. Dual						Packer Set At 3969		County Rio Arriba	
Producing Thru Tbg.		Reservoir Temp. °F P		Mean Annual Temp. °F		Baro. Press. - P _a 12		State New Mexico	
L	H	Gg 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. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
SI							1046				9 Days
1.	4" X 2.750.			127	7.60	52	297				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	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	129.96	28.33		1.0078	1.222	1.014	4598
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _t	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/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 1058	P _c ² 119364					
NO	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.0956$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.7418$
1	95481	765	585225	534139		
2						
3						
4						
5						

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 8009$

Absolute Open Flow 8009	Mcfd @ 15.025	Angle of Slope θ	Slope, n 0.75
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Remarks: * 4.500" Liner From 3954 to 6354. Gas Vented - 490 MCF
The well produced 2.24 bbls. oil and 4.48 bbls. water during the test.

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