

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 6-25-81							
Company El Paso Natural Gas Company						Connection Northwest Pipeline Corp.							
Pool Blanco						Formation Mesa Verde							
Completion Date 6-5-81			Total Depth 8105			Plug Back TD 8097			Elevation 6471 GR			Farm or Lease Name Allison Unit	
Csg. Size 9.625		Wt. 40		ID 8.835		Set At 3658		Perforations: From *5415 To 6102				Well No. #5A	
Trq. Size 1.900		Wt. 2.9		ID 1.610		Set At 6064		Perforations: From To				Unit Sec. Twp. Rge. I 16 32 7	
Type Well - Single - Brdunhead - G.G. or G.O. Multiple G. G. Dual						Packer Set At 6138			County San Juan				
Producing Thru Csg.			Reservoir Temp. °F P			Mean Annual Temp. °F			Baro. Press. - P _a 12			State New Mexico	
L		H		G _g .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							440		1000		20 Days
1.	2		.750	185		64	338		185		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	12.365		197	.9962	.9608	1.019	2376
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf, Jbl.
1					A.P.I. Gravity of Liquid Hydrocarbon	Deg.
2.					Specific Gravity Separator Gas	XXXXXX
3.					Specific Gravity Flowing Fluid	XXXXXX
4.					Critical Pressure	P.S.I.A.
5.					Critical Temperature	°F

P _c P012 P _c ² 1024144			
NO.	P ₁ ²	P _w ²	P _c ² - P _w ²
1		350	122500
2			901644
3			
4			
5			

(1) $\frac{P_c^2}{P_t^2 - P_w^2} = \frac{1024144}{901644}$		(2) $\left[\frac{P_c^2}{P_t^2 - P_w^2} \right]^n = 1.1003$	
AOF = Q $\left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n = 2614$			

Absolute Open Flow 2614		Mcf @ 15.025		Angle of Slope °		Slope, n .75	
Remarks: *7.000 Liner - 3540 - 6270 4.500 Liner - 6155 - 8105							

Approved By Division	Conducted By: Tom McAndrews	Calculated By: Ed Mabe	Checked By:
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