

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
 Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 6-23-80	
Company El Paso Natural Gas Company				Connection			
Pool Blanco				Formation Mesa Verde		Unit San Juan	
Completion Date 4-25-80		Total Depth 6173		Plug Back TD 6156		Elevation 6683 G1	
Farm or Lease Name San Juan 27-5 Unit		Well No. #21A					
Csg. Size 4.500	Wt. 10.5	d 4.052	Set At 6173	Perforations: From 5214 To 6064		Unit Sec. Twp. Rge. I 3 27 5	
Tbg. Size 2.375	Wt. 4.7	d 1.995	Set At 6032	Perforations: From To		County Rio Arriba	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G.G.				Packer Set At 3731		State New Mexico	
Producing Thru Tbg.		Reservoir Temp. °F @		Mean Annual Temp. °F 12		Baro. Press. - P _a	
L	H	G _g	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run Taps
		0.650					

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.	
SI							1000			
1.	2"		0.750	250		66				
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		262	0.9943	0.9608	1.025	3172
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ A.P.I. Gravity of Liquid Hydrocarbons _____ Specific Gravity Separator Gas _____ Specific Gravity Flowing Fluid _____ Critical Pressure _____ P.S.I.A. Critical Temperature _____ R
1.					
2.					
3.					
4.					
5.					

P _c 1012	P _c ² 1024144		
NO.	P _t ²	P _w	P _w ²
1	68644	538	289444
2			
3			
4			
5			

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.3940$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 4069$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.2829$$

Absolute Open Flow	4069	Mcfd @ 15.025	Angle of Slope θ	Slope, n 0.75
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Remarks: The Well Produced 491 MCF/D of Gas During the Test.

Approved By Commission:	Conducted By: Mel Wileman	Calculated By: H. E. McAnally	Checked By:
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