

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 8-26-80			
Company El Paso Natural Gas Company				Connection El Paso Natural Gas Company					
Pool Basin				Formation Dakota				Unit San Juan 29-7	
Completion Date 7-27-80		Total Depth 8112		Plug Back TD 8104		Elevation 6867'GL		Farm or Lease Name San Juan 29-7 Unit	
Csg. Size 7.000	Wt. 23.0	d d	Set At 6414	Perforations: From 7892 To 8088			Well No. #49A (DK)		
Tbg. Size 2.375	Wt. 4.7	d 1.995	Set At 8044	Perforations: From To			Unit Sec. Twp. Rge. I 20 29 7		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G.G. Dual						Packer Set At 6247		County Rio Arriba	
Producing Thru Tbg.		Reservoir Temp. *F a		Mean Annual Temp. *F		Baro. Press. - P _a 12		State New Mexico	
L	H	Gg	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run	Taps	
			0.640						

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							2002				30 Days
1.	Choke		0.750	9		60					3 Hr.
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	12.365		21	1.0000	0.9682	1.0000	251
2.							
3.							
4.							
5.							

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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_r 2014 P_c² 4056196

NO.	P _r ²	P _w	P _w ²	P _c ² - P _w ²
1	441	47	2209	4053987
2.				
3.				
4.				
5.				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0005$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0004$

ACF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 251$

Absolute Open Flow	251	Mcfd @ 15.025	Angle of Slope θ	Slope, n 0.75
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Remarks: 4 500 Liner From 6247 to 8112. The Well Produced 34 MCF Gas During The Test

Approved By Commission:	Conducted By: John Easley	Calculated By: H. E. McAnally	Checked By:
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