

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATADATE 8-21-69

Operator El Paso Natural Gas Company		Lease San Juan 29-6 Unit No. 97	
Location 990S-1090W- S35 - T29N-R6W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7774	Tubing: Diameter 1.660	Set At: Feet 7709
Pay Zone: From 7560	To 7732	Total Depth: 7774	Shut In 8-10-69
Stimulation Method Sand Water Frac		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches 0.750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2706	+ 12 = PSIA 2718	Days Shut-In 11	Shut-In Pressure, Tubing PSIG 2704	+ 12 = PSIA 2716	
Flowing Pressure: P PSIG 283	+ 12 = PSIA 295		Working Pressure: P <sub>w</sub> PSIG 414	+ 12 = PSIA 426	
Temperature: T = 79 °F	F <sub>t</sub> = .9822	n = .75	F <sub>pv</sub> (From Tables) 1.028	Gravity .670	F <sub>g</sub> = .9463

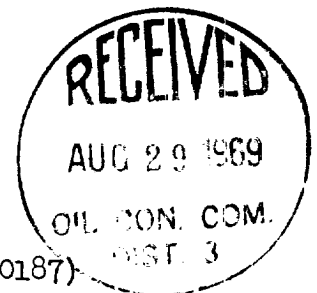
$$\text{CHOKE VOLUME} = Q = C \times P_i \times F_t \times F_g \times F_{pv}$$

$$Q = (12.365)(295)(.9822)(.9463)(1.028) = \underline{3485} \text{ MCF/D}$$

$$\text{OPEN FLOW} = Aof = Q \left( \frac{P_c^2}{P_c^2 - P_w^2} \right)^n$$

$$Aof = \left( \frac{7387524}{7206048} \right)^n = (3485)(1.0251)^{.75} = (3485)(1.0187)$$

$$Aof = \underline{3550} \text{ MCF/D}$$



Note: The well produced a light mist of water and distillate throughout the test.

TESTED BY Ron Headrick

WITNESSED BY \_\_\_\_\_

*H. I. Kendrick*  
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