

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE July 20, 1967

Operator El Paso Natural Gas Company		Lease San Juan 27-5 Unit No. 103	
Location 1850'N, 1190'E, Sec. 14, T-27-N, R-5-W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7970	Tubing: Diameter 2.375	Set At: Feet 7760
Pay Zone: From 7698	To 7908	Total Depth: 7970	Shut In 7-1-67
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-in Pressure, Casing, PSIG 2467	+ 12 = PSIA 2479	Days Shut-In 19	Shut-in Pressure, Tubing PSIG 2557	+ 12 = PSIA 2569	
Flowing Pressure: P PSIG 335	+ 12 = PSIA 347		Working Pressure: P _w PSIG 1018	+ 12 = PSIA 1030	
Temperature: T = 81 °F	F _t = .9804	n = .75	F _{pv} (From Tables) 1.028	Gravity .640	F _g = 9682

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

$$Q = (12.365)(347)(9804)(9682)(1.028) = \underline{4187} \text{ MCF/D}$$

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

$$Aof = \left(\frac{6599761}{5538861} \right)^n = (4187)(1.1915)^{.75} = (4187)(1.1404)$$

NOTE: The well produced a heavy spray of water & distillates throughout the test period.

$$Aof = \underline{4775} \text{ MCF/D}$$

TESTED BY Dan RobertsCALCULATED
WITNESSED BY _____

H. L. Kendrick
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by TBC