

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE 11-4-66

Operator El Paso Natural Gas Company		Lease San Juan 27-5 Unit No. 101	
Location R-10, T-10N, Sec. 10, R-27-E, T-5-W		County Rio Arriba	State New Mexico
Formation Bakken		Pool Basin	
Casing: Diameter 4.000	Set At: Feet 8663	Tubing: Diameter 2.375	Set At: Feet 8346
Pay Zone: From 8340	To 8552	Total Depth: 8670	Shut In 10-28-66
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 2303	+ 12 = PSIA 2315	Days Shut-In 7	Shut-In Pressure, Tubing PSIG 2379	+ 12 = PSIA 2391	
Flowing Pressure: P PSIG 260	+ 12 = PSIA 272		Working Pressure: Pw PSIG 758	+ 12 = PSIA 770	
Temperature: T = 69 °F	Ft = .9915	n = .75	Fpv (From Tables) 1.024	Gravity .630	Fg = .9759

$$\text{CHOKE VOLUME} = Q = C \times P_r \times F_r \times F_g \times F_{pv}$$

$$Q = (12.365)(272)(.9915)(.9759)(1.024) = \underline{3332} \text{ MCF/D}$$

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

$$Aof = \left(\frac{5716881}{5123981} \right)^n = (1.1157)^{.75} (3332) = (1.0855)(3332)$$

NOTE: Well made a very light spray of water and distillate throughout the test.

$$Aof = \underline{3617} \text{ MCF/D}$$

TESTED BY Dennie RobertsWITNESSED BY H. E. McAnally



 H. L. Kendrick