

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE September 5, 1968

Operator El Paso Natural Gas Company		Lease San Juan 27-4 Unit No. 38	
Location 1830'S, 868'W, Sec. 6, T-27-N, R-4-W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 8306	Tubing: Diameter 2.375	Set At: Feet 8025
Pay Zone: From 8068	To 8270	Total Depth: 8306	Shut In 8-25-68
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 2415	+ 12 = PSIA 2427	Days Shut-In 9	Shut-In Pressure, Tubing PSIG 2464	+ 12 = PSIA 2476	
Flowing Pressure: P PSIG 402	+ 12 = PSIA 414		Working Pressure: P _w PSIG 1201	+ 12 = PSIA 1213	
Temperature: T = 87 °F F _t = 9750	n = .75		F _{pv} (From Tables) 1.038	Gravity .670 F _g = .9463	

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

$$Q = (12.365)(414)(.9750)(.9463)(1.038) = \underline{\quad 4903 \quad} \text{ MCF/D}$$

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

$$Aof = \left(\frac{6139576}{4659207} \right)^n = (4903)(1.3157)^{.75} = (4903)(1.2282)$$

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

$$Aof = \underline{\quad 6022 \quad} \text{ MCF/D}$$

TESTED BY Bobby BroughtonChecked
WITNESSED BY H. E. McAnally

H. L. Kendrick
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