

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE Sept. 21, 1967

Operator El Paso Natural Gas Company		Lease San Juan 28-6 Unit No. 128	
Location 1800'N, 1150'E, Sec. 17, T-28-N, R-6-W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 8072	Tubing: Diameter 2.375	Set At: Feet 7810
Pay Zone: From 7844	To 8038	Total Depth: 8072	Shut In 9-14-67
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 2656	+ 12 = PSIA 2668	Days Shut-In 7	Shut-In Pressure, Tubing PSIG 2657	+ 12 = PSIA 2669
Flowing Pressure: P PSIG 349	+ 12 = PSIA 361		Working Pressure: P _w PSIG 1247	+ 12 = PSIA 1259
Temperature: T = 81 °F Ft = .9804	n = .75		Fpv (From Tables) 1.023	Gravity .595 Fg = 1.004

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

$$Q = (12.365)(361)(.9804)(1.004)(1.023) = 4495 \text{ MCF/D}$$

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

$$Aof = \left(\frac{7123561}{5538480} \right)^n = (4495)(1.2861)^{.75} = (4495)(1.2078)$$

NOTE: The well produced a heavy spray of wtr. and distillate throughout the test.

$$Aof = 5429 \text{ MCF/D}$$

TESTED BY Dan RobertsCHECKED
WITNESSED BY H. E. McAnally

H. L. Kendrick
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