

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE October 18, 1967

Operator El Paso Natural Gas Company		Lease San Juan 28-6 Unit No. 127	
Location 1650'N, 1130'E, Sec. 20, T-28-N, R-6-W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7683	Tubing: Diameter 2.375	Set At: Feet 7405
Pay Zone: From 7446	To 7656	Total Depth: 7685	Shut In 10-1-67
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 2750	+ 12 = PSIA 2762	Days Shut-In 17	Shut-In Pressure, Tubing PSIG 2750	+ 12 = PSIA 2762	
Flowing Pressure: P PSIG 532	+ 12 = PSIA 544		Working Pressure: Pw PSIG 1600	+ 12 = PSIA 1612	
Temperature: T = 79 °F	n = .750		Fpv (From Tables) 1.046	Gravity .610	Fg = .9918

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

$$Q = (12.365)(544)(.9822)(.9918)(1.046) = \underline{6854} \text{ MCF/D}$$

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

$$Aof = \left(\frac{7628644}{5030100} \right)^n = (6854)(1.5165)^{.75} = (6854)(1.3666)$$

NOTE: The well unloaded a heavy fog of water and dist. then it blew a light fog of dist. and water throughout the remainder of the test.

$$Aof = \underline{9367} \text{ MCF/D}$$

TESTED BY Don NortonCALCULATED
WITNESSED BY H. E. McAnally


H. L. Kendrick

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