

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE November 18, 1968

Operator El Paso Natural Gas Company		Lease Vaughn No. 8	
Location 1160'N, 810'E, Sec. 26, T-26-N, R-6-W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7528	Tubing: Diameter 2.375	Set At: Feet 7154
Pay Zone: From 7196	To 7448	Total Depth: 7528	Shut In 10-29-63
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 2572	+ 12 = PSIA 2584	Days Shut-In 20	Shut-In Pressure, Tubing PSIG 2516	+ 12 = PSIA 2528	
Flowing Pressure: P PSIG 491	+ 12 = PSIA 503		Working Pressure: P _w PSIG 1270	+ 12 = PSIA 1282	
Temperature: T = 80 °F	n = Ft = .9813		Fpv (From Tables) 1.055	Gravity .700	Fg = .9258

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

$$Q = (12.365)(503)(.9813)(.9258)(1.055) = \underline{\quad 5961 \quad} \text{ MCF/D}$$

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

$$Aof = \left(\frac{6677056}{5033532} \right)^n = (5961)(1.3265)^{.75} = (5961)(1.2360)$$

Note: Blew heavy fog of H₂O and light hydrocarbons.

$$Aof = \underline{\quad 7368 \quad} \text{ MCF/D}$$

TESTED BY J. B. GoodwinCalculated
WITNESSED BY H. E. McAnallyChecked by G. A. Lippman

H. L. Kendrick
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