

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

Operator El Paso Natural Gas Company		Lease Day No. 1 (OWWO)	
Location 1650'S, 1650'W, Sec. 17, T-29-N, R-8-W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5456	Tubing: Diameter 2.375	Set At: Feet 5327
Pay Zone: From 4628	To 5362	Total Depth: 5456	Shut In 11-13-67
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 840	+ 12 = PSIA 852	Days Shut-In 8	Shut-In Pressure, Tubing PSIG 837	+ 12 = PSIA 849	
Flowing Pressure: P PSIG 239	+ 12 = PSIA 251		Working Pressure: P _w PSIG 740	+ 12 = PSIA 752	
Temperature: T = 68 °F	F _t = .9924	n = .75	F _{pv} (From Tables) 1.027	Gravity .700	F _g = .9258

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

$$Q = (12.365)(251)(.9924)(.9258)(1.027) = \underline{2928} \text{ MCF/D}$$

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

$$Aof = \left(\frac{725904}{160400} \right)^n = (2928)(4.5255)^{.75} = (2928)(3.1028)$$

NOTE: The well blew a heavy fog of water and light hydrocarbons for the entire test.

$$Aof = \underline{9085} \text{ MCF/D}$$

TESTED BY Jesse B. GoodwinChecked
WITNESSED BY H. E. McAnally

H. L. Kendrick
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