

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE December 4, 1968

Operator El Paso Natural Gas Company		Lease Day "B" No. 4	
Location 1700'S, 1616'W, Sec. 7, T-27-N, R-8-W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7460	Tubing: Diameter 2.375	Set At: Feet 7398
Pay Zone: From 7262	To 7431	Total Depth: 7460	Shut In 11-21-68
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 2063	+ 12 = PSIA 2075	Days Shut-In 13	Shut-In Pressure, Tubing PSIG 2023	+ 12 = PSIA 2035	
Flowing Pressure: P PSIG 222	+ 12 = PSIA 234		Working Pressure: P _w PSIG 669	+ 12 = PSIA 681	
Temperature: T = 67 °F	F _t = .9933	n = .75	F _{pv} (From Tables) 1.023	Gravity .665	F _g = .9498

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

$$Q = (12.365)(234)(.9933)(.9498)(1.023) = \underline{2793} \text{ MCF/D}$$

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

$$Aof = \left(\frac{4305625}{3241864} \right)^n = (2793)(1.1207)^{.75} = (1.0892)(2793)$$

$$Aof = \underline{3042} \text{ MCF/D}$$

TESTED BY J. B. GoodwinCalculated
WITNESSED BY G. A. Lippman

H. L. Kendrick
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