

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE November 12, 1963

Operator El Paso Natural Gas Company	Lease Lucerne No. 4 A-X
Location 1180'N, 1150'E, Sec. 10, T-31-N, R-10-W	County San Juan State New Mexico
Formation Mesa Verde	Pool Blanco
Casing: Diameter 4.500	Set At: Feet 5317'
Pay Zone: From 4714	To 5228
Stimulation Method Sand/Water Frac.	Flow Through Casing X

Choke Size, Inches 0.750	Choke Constant: C 12.365	Baker Packer at 3048'
Shut-In Pressure, Casing, (Packer) 232	PSIG · 12 · PSIA 244	Days Shut-In 7
Flowing Pressure: P 319	PSIG · 12 · PSIA 331	Shut-In Pressure, Tubing 888
Temperature: T 83	F _i .9786 F _g .75	Working Pressure: P _w (Calc.)
		PSIG · 12 · PSIA 640
		E _{pv} (From Tables) 1.028
		Gravity .650 F _g .9608

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

$$Q = 12.365 \times 331 \times .9786 \times .9608 \times 1.028$$

3956

MCF/D

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

$$Aof = \left(\frac{810,000}{400,400} \right)^n$$

$$(3956)(2.0229)^{.75} = (3956)(1.6965)$$

Aof **6711**

MCF/D

TESTED BY **R. F. Headrick**

Calculated by **H. E. McNally**

Checked by **W. D. Dawson**



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