

EL. PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 5-25-70

Operator El Paso Natural Gas Co.		Lease Canyon Largo Unit No. 160	
Location 1140N, 800W, S 13, T25N, R6W		County Rio Arriba	State New Mexico
Formation Chacara		Pool Otero	
Casing: Diameter 2.875	Set At: Feet 3795	Tubing: Diameter no tubing	Set At: Feet
Pay Zone: From 3584	To 3693	Total Depth: 3795	Shut In 5-16-70
Stimulation Method SWP		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		tubingless completion	
Shut-In Pressure, Casing, 851	PSIG	+ 12 = PSIA 863	Days Shut-In 9	Shut-In Pressure, Tubing no tubing	PSIG
Flowing Pressure: P 56	PSIG	+ 12 = PSIA 68	Working Pressure: P _w Calc.	PSIG	+ 12 = PSIA 88
Temperature: T = 62 °F	F _t = .9981	n = .75	F _p (From Tables) = 1.009	Gravity .675	F _g = .9427

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

$$Q = (12.365)(68)(.9981)(.9427)(1.009) = 798 \text{ MCF/D}$$

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

$$Aof = \left(\frac{744769}{737025} \right)^n = (1.0105)^{.75} 798 = (1.0078)(798)$$

$$Aof = 804 \text{ MCF/D}$$

TESTED BY B. J. Broughton

WITNESSED BY



H. L. Kendrick
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