

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE 5-27-70

Operator El Paso Natural Gas Company		Lease Canyon Largo Unit No. 159	
Location 990N, 1650E, S 14, T25N, R6W		County Rio Arriba	State New Mexico
Formation Chacra		Pool Otero	
Casing Diameter 2.875	Set At: Feet 3773	Tubing: Diameter no tubing	Set At: Feet
Pay Zone: From 3563	To 3670	Total Depth: 3773	Shut In 5-16-70
Stimulation Method SWF		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless completion	
Shut-In Pressure, Casing, 885	PSIG	+ 12 = PSIA 897	Days Shut-In 11	Shut-In Pressure, Tubing no tubing	PSIG + 12 = PSIA
Flowing Pressure: P 84	PSIG	+ 12 = PSIA 96		Working Pressure: P <sub>w</sub> Calc.	PSIG + 12 = PSIA 125
Temperature: T = 58 °F	F <sub>t</sub> = 1.0019	n = .75		F <sub>pv</sub> (From Tables) 1.009	Gravity .650 F <sub>g</sub> = .9608

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

$$Q = (12.365)(96)(1.0019)(.9608)(1.009) = 1153 \text{ MCF/D}$$

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

Note: Blew a light spray of water and dist. throughout test.

$$Aof = \left( \frac{804609}{788984} \right)^n = (1.0198)^{.75}(1153) = (1.0148)(1153)$$

$$Aof = 1170 \text{ MCF/D}$$

TESTED BY Dan Roberts

WITNESSED BY

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