

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

CORRECTED COPY

DATE December 6, 1973

Operator El Paso Natural Gas Company		Lease Canyon Largo Unit #216	
Location 1720/N, 1530/E, Sec. 15, T24N, R6W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool Ballard	
Casing: Diameter 2.875	Set At: Feet 2392'	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 2284	To 2344	Total Depth: 2392	Shut In 11-20-73
Stimulation Method Sandwater Frac		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 415	+ 12 = PSIA 427	Days Shut-In 16	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 32	+ 12 = PSIA 44		Working Pressure: P <sub>w</sub> PSIG Calculated	+ 12 = PSIA 47	
Temperature: T = 56 °F	n = Ft = 1.0039		Fpv (From Tables) 1.004	Gravity .700	Fg = .9258

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

$$Q = (12.365)(44)(1.0039)(.9258)(1.004) = \underline{\quad 508 \quad} \text{ MCF/D}$$

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

$$Aof = Q \left( \frac{182329}{179520} \right)^n = 508(1.0156)^{.85} = (1.0133)(508)$$

$$Aof = \underline{\quad 514 \quad} \text{ MCF/D}$$

Note: Blew clear gas for entire test.

TESTED BY Jesse B. Goodwin

WITNESSED BY \_\_\_\_\_

*William D. Welch*  
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 Well Test Engineer

