

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATADATE October 31, 1973

Operator El Paso Natural Gas Company		Lease Canyon Largo Unit #217	
Location 1170/N, 1520/W Sec. 17, T24N, R6W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool Ballard	
Casing: Diameter 2.875	Set At: Feet 2171'	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 2034	To 2086	Total Depth: 2171	Shut In 10-20-73
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 477	+ 12 = PSIA 489	Days Shut-In 11	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA
Flowing Pressure: P PSIG 105	+ 12 = PSIA 117		Working Pressure: P <sub>w</sub> PSIG Calculated	+ 12 = PSIA 139
Temperature: T = 57°F	n =		F <sub>pv</sub> (From Tables) 1.012	Gravity .700      F <sub>g</sub> = .9258
F <sub>t</sub> = 1.0029	.85			

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

$$Q = (12.365)(117)(1.0029)(.9258)(1.012) = \underline{\quad 1359 \quad} \text{ MCF/D}$$

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

$$Aof = Q \left( \frac{239121}{219800} \right)^n = (1.0879)(1359)^{.85} = (1.0742)(1359)$$

$$Aof = \underline{\quad 1460 \quad} \text{ MCF/D}$$

Note: Blew clear gas entire test.

TESTED BY Jesse B. Goodwin

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

*H. E. McAnally*  
Well Test Engineer

