

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATADATE 5-28-71

Operator El Paso Natural Gas Company		Lease Grambling C No. 9	
Location 800'S, 1800'E. S 14, T30N, R10W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Blanco	
Casing: Diameter 2.875	Set At: Feet 3169	Tubing: Diameter no tubing	Set At: Feet
Pay Zone: From 2986	To 3030	Total Depth: 3175	Shut In 5-21-71
Stimulation Method S WF		Flow Through Casing XXX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		tubingless completion	
Shut-In Pressure, Casing, PSIG 977	+ 12 = PSIA 989	Days Shut-In 7	Shut-In Pressure, Tubing PSIG no tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 175	+ 12 = PSIA 187		Working Pressure: P <sub>w</sub> PSIG calculated	+ 12 = PSIA 236	
Temperature: T = 66 °F	F <sub>t</sub> = .9943	n = .85	F <sub>pv</sub> (From Tables) 1.017	Gravity .650	F <sub>g</sub> = .9608

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

$$Q = 12.365 \times 187 \times .9943 \times .9564 \times 1.018 = \underline{2246} \text{ MCF/D}$$

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

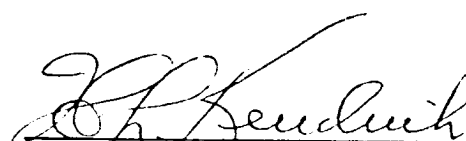
Note: Well blew dry gas throughout entire test.

$$Aof = \left( \frac{978121}{922425} \right)^n = (1.0603)^{.85} (2246) = (1.051) (2246)$$

$$Aof = \underline{2360} \text{ MCF/D}$$

TESTED BY D. R. Roberts & R. R. Hardy

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

  
 H. L. Kendrick
