

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

Operator El Paso Natural Gas Company		Lease Stickle No. 1	
Location 990' N, 145' W, T12, T30N, R10W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Elanco	
Casing: Diameter 2.875	Set At: Feet 3340	Tubing: Diameter no tubing	Set At: Feet
Pay Zone: From 3222	To 3238	Total Depth: 3340	Shut In 4-24-71
Stimulation Method S W F		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches .7.0		Choke Constant: C 12.365		tubingless completion	
Shut-In Pressure, Casing, PSIG 882	+ 12 = PSIA 894	Days Shut-In 11	Shut-In Pressure, Tubing PSIG no tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 125	+ 12 = PSIA 137	Working Pressure: P <sub>w</sub> PSIG calculated	+ 12 = PSIA	175	
Temperature: T = 71 °F	F <sub>t</sub> = .9990	n = .85	F <sub>p</sub> v (From Tables) 1.012	Gravity .635	F <sub>g</sub> = .9721

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

$$Q = 12.365 \times 137 \times .9990 \times .9971 \times 1.012 = 1665 \text{ MCF/D}$$

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

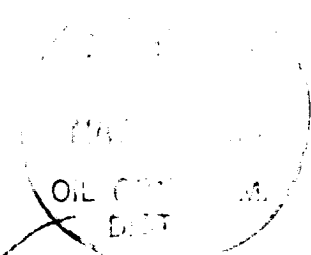
Note: Blew dry gas throughout entire test.

$$Aof = \left( \frac{799236}{768611} \right)^n = 1665(1.0398)^{.85} = 1665(1.0337)$$

$$Aof = 1721 \text{ MCF/D}$$

TESTED BY J. B. Goodwin

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



*H. L. Kendrick*  
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