

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 8-23-71

Operator El Paso Natural Gas Company		Lease Howell No. 9	
Location 1150' S, 990' E, S 27, T28N, R8W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool So. Blanco	
Casing: Diameter 2.875	Set At: Feet 2720	Tubing: Diameter no tubing	Set At: Feet
Pay Zone: From 2560	To 2582	Total Depth: 2725	Shut In 8-13-71
Stimulation Method S W F		Flow Through Casing XXX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		tubingless completion	
Shut-In Pressure, Casing, PSIG 924	+ 12 = PSIA 936	Days Shut-In 10	Shut-In Pressure, Tubing PSIG no tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 55	+ 12 = PSIA 67		Working Pressure: P _w PSIG calculated	+ 12 = PSIA 82	
Temperature: T = 61 °F	F _t = .9990	n = .85	F _{pv} (From Tables) 1.009	Gravity .650	F _g = .9608

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

$$Q = 12.365 \times 67 \times .9990 \times .9608 \times 1.009 = 802 \text{ MCF/D}$$

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

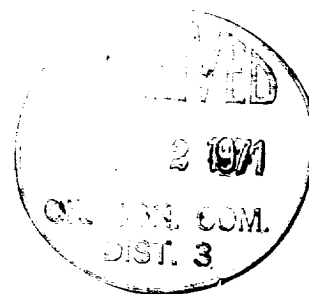
Note: Well blew dry gas throughout test.

$$Aof = \left(\frac{876096}{869372} \right)^n = 802(1.0077)^{.85} = 802(1.0070)$$

$$Aof = 808 \text{ MCF/D}$$

TESTED BY D. R. Roberts

WITNESSED BY



 L. E. Mabe, Jr.