

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE 8-19-71

Operator El Paso Natural Gas Company		Lease Grambling A No. 4	
Location 1700' S, 800' E, S 22, T28N, R8W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Aztec	
Casing: Diameter 2.875	Set At: Feet 2448	Tubing: Diameter no tubing	Set At: Feet
Pay Zone: From 2280	To 2334	Total Depth: 2455	Shut In 8-6-71
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 1000	+ 12 = PSIA 1012	Days Shut-In 13	Shut-In Pressure, Tubing PSIG no tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 234	+ 12 = PSIA 246	Working Pressure: P <sub>w</sub> PSIG calculated	+ 12 = PSIA 297		
Temperature: T = 70 °F	n = .85	F <sub>pv</sub> (From Tables) 1.021	Gravity .630	F <sub>g</sub> = .9759	

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

$$Q = 12.365 \times 246 \times .9905 \times .9759 \times 1.021 = 3002 \text{ MCF/D}$$

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

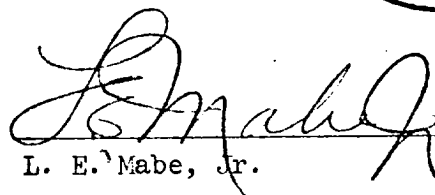
Note: Well blew dry gas throughout test.

$$Aof = \left( \frac{1024114}{935935} \right)^n = 3002(1.0942)^{.85} = 3002(1.0795)$$

$$Aof = 3241 \text{ MCF/D}$$

TESTED BY T. D. Norton

WITNESSED BY

  
L. E. Mabe, Jr.
