

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 8-20-71

Operator El Paso Natural Gas Company		Lease San Juan 27-5 Unit No. 126	
Location 1650' S, 1550' W, S 7. T27N, R5W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7776	Tubing: Diameter 1.990	Set At: Feet 7724
Pay Zone: From 7526	To 7758	Total Depth: 7776	Shut In 8-11-71
Stimulation Method S W F		Flow Through Casing XXX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2630	+ 12 = PSIA 2642	Days Shut-In 9	Shut-In Pressure, Tubing PSIG 2438	+ 12 = PSIA 2450	
Flowing Pressure: P PSIG 376	+ 12 = PSIA 388		Working Pressure: Pw PSIG 574	+ 12 = PSIA 586	
Temperature: T = 74 °F	Ft = .9868	n = .75	Fpv (From Tables) 1.033	Gravity .635	Fg = .9721

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

$$Q = 12.365 \times 388 \times .9868 \times .9721 \times 1.033 = 4754 \text{ MCF/D}$$

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

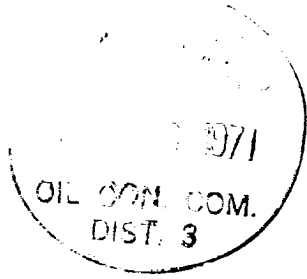
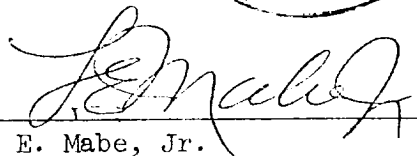
Note: Heavy fog of water for entire test.

$$Aof = \left(\frac{6980164}{6636768} \right)^n = 4754(1.0517)^{.75} = 4754(1.0385)$$

$$Aof = 4937 \text{ MCF/D}$$

TESTED BY Jesse B. Goodwin

WITNESSED BY



 L. E. Mabe, Jr.