

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE August 6, 1971

Operator El Paso Natural Gas Company		Lease San Juan 28-6 Unit No. 161	
Location 1460'N, 1775'E, Sec. 12, T-27-N, R-6-W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing Diameter 4.500	Set At: Feet 7643	Tubing Diameter 1.990	Set At: Feet 7604
Pay Zone: From 7406	To 7610	Total Depth 7643	Shut In 7-30-71
Stimulation Method Sand Water Frac		Flow Through Casing XXX	Flow Through Tubing

Choke Size, Inches 0.750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2665	+ 12 = PSIA 2677	Days Shut-In 7	Shut-In Pressure, Tubing PSIG 2663	+ 12 = PSIA 2675	
Flowing Pressure: P PSIG 396	+ 12 = PSIA 408		Working Pressure: P _w PSIG 608	+ 12 = PSIA 620	
Temperature: T = 84 °F	F _t = .9777	n = 0.75	F _{pv} (From Tables) 1.031	Gravity .620	F _g = .9837

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

$$Q = (12.365)(408)(.9777)(.9837)(1.031) = \underline{\quad 5002 \quad} \text{ MCF/D}$$

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

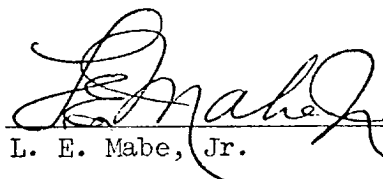
Note: Well blew light spray of water throughout test.

$$Aof = \left(\frac{7166329}{6781929} \right)^n = (5002)(1.0566)^{.75} = (5002)(1.0862)$$

$$Aof = \underline{\quad 5433 \quad} \text{ MCF/D}$$

TESTED BY Bobby J. Broughton

WITNESSED BY


L. E. Mabe, Jr.
