

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE August 4, 1971

Operator El Paso Natural Gas Company		Lease Grambling C No. 5	
Location 955'S, 930'W, Sec. 14, T-30-N, R-10-W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Blanco	
Casing: Diameter 2.875	Set At: Feet 3238	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 3094	To 3130	Total Depth: 3238	Shut In 7-19-71
Stimulation Method Sand Water Frac		Flow Through Casing XXX	Flow Through Tubing

Choke Size, Inches 0.750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 955	+ 12 = PSIA 967	Days Shut-In 14	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 274	+ 12 = PSIA 286		Working Pressure: P _w PSIG Calculated	+ 12 = PSIA	363
Temperature: T = 66 °F	n = Ft = .9943		Fpv (From Tables) 1.025	Gravity 0.635	Fg = .9721

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

$$Q = (12.365)(286)(.9943)(.9721)(1.025) = \underline{\quad 3504 \quad} \text{ MCF/D}$$

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

Note: Well blew dry gas throughout test.

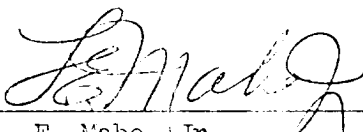
$$Aof = \left(\frac{935089}{803320} \right)^n = (3504)(1.1640)^{.85} = (3504)(1.1377)$$

$$Aof = \underline{\quad 3987 \quad} \text{ MCF/D}$$

TESTED BY T. D. Norton

WITNESSED BY _____





 L. E. Mabe, Jr.