

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE September 13, 1971

Operator El Paso Natural Gas Company		Lease Stromberg No. 8	
Location 1800' / S-990' / E, S29, T23N, R3W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool Ballard	
Casing: Diameter 2.875	Set At: Feet 3163	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 3080	To 3106	Total Depth: 3163	Shut In 9-4-71
Stimulation Method SWF		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches 0.75	Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 492	+ 12 = PSIA 504	Days Shut-In 9	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA
Flowing Pressure: P PSIG 65	+ 12 = PSIA 77		Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 97
Temperature: T = 61 °F F _t = .9990	n = 0.85		F _{pv} (From Tables) 1.011	Gravity .701 F _g = .9258

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

$$Q = 12.365 \times 77 \times .9990 \times .9258 \times 1.011 = \underline{\quad 890 \quad} \text{ MCF/D}$$

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

Note: Blew light fog of water for 3 hours.

$$A_{of} = \left(\frac{254016}{244607} \right)^{.85} = (1.0385)^{.85} \times 890 = 1.0327 \times 890$$

$$A_{of} = \underline{\quad 919 \quad} \text{ MCF/D}$$

TESTED BY J. B. Goodwin

WITNESSED BY _____



[Signature]
L. E. Mabe, Jr.