

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

Retest

DATE February 20, 1969

Operator El Paso Natural Gas Company		Lease Johnson No. 1-Y	
Location 890N, 1550E, Sec. 21, T27N, R10W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Fulcher-Kutz	
Casing: Diameter 2.875	Set At: Feet 1981	Tubing: Diameter No	Set At: Feet -----
Pay Zone: From 1846	To 1892	Total Depth: 2000	Shut In 2-06-69
Stimulation Method Sand Water Frac		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless completion	
Shut-In Pressure, Casing, PSIG 457	+ 12 = PSIA 469	Days Shut-In 14	Shut-In Pressure, Tubing PSIG No tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 62	+ 12 = PSIA 74		Working Pressure: Pw PSIG Calc.	+ 12 = PSIA 86	
Temperature: T = 62 °F	Ft = .9981	n = 85	Fpv (From Tables) 1.006	Gravity .575	Fg = 1.021

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

$$Q = 12.365 \times 74 \times .9981 \times 1.021 \times 1.006 = \underline{\quad 938 \quad} \text{ MCF/D}$$

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

$$Aof = \left(\frac{219961}{212565} \right)^n = (1209) (1.0347)^{.85} = 1209 (1.0294)$$

$$Aof = \underline{\quad 966 \quad} \text{ MCF/D}$$

Note: This well started making a light fog of water 40 min. after well was opened to the atmosphere through a 3/4 inch choke. After two hours, well started producing a heavy fog and at the end of the third hour, well produced a light spray of water.

TESTED BY CRW & GAL
Calculated
WITNESSED BY GAL

H. L. Kendrick
H. L. Kendrick
Regional Well Test Engineer




