

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE August 31, 1970

Operator El Paso Natural Gas Company		Lease Lackey No. 3	
Location 1000 S, 1550 E, S 19, T29N, R9W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Aztec	
Casing: Diameter 2.875	Set At: Feet 2166	Tubing: Diameter no tubing	Set At: Feet
Pay Zone: From 2006	To 2042	Total Depth: 2166	Shut In 8-19-70
Stimulation Method SWP		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches .750	Choke Constant: C 12.365		tubingless completion	
Shut-In Pressure, Casing, PSIG 714	+ 12 = PSIA 726	Days Shut-In 12	Shut-In Pressure, Tubing PSIG no tubing	+ 12 = PSIA
Flowing Pressure: P PSIG 207	+ 12 = PSIA 219		Working Pressure: Pw PSIG Calc.	+ 12 = PSIA 259
Temperature: T = 66 °F	n = .85		Fpv (From Tables) 1.021	Gravity .665 Fg = .9499

$$\text{CHOKE VOLUME} = Q = C \times P_r \times F_p \times F_g \times F_{pv}$$

$$Q = 12.365 \times 219 \times .9943 \times .9499 \times 1.021 = \underline{2611} \text{ MCF/D}$$

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

Note: well produced very light fog
of distillate & H₂O throughout
the test.

$$Aof = \left(\frac{527076}{459995} \right)^n = 2611 (1.1458)^{.85} = 2611 (1.1226)$$

$$Aof = \underline{2931} \text{ MCF/D}$$

TESTED BY B. J. Broughton

WITNESSED BY _____

H. L. Kendrick
H. L. Kendrick

