

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE 4-20-71

Operator El Paso Natural Gas Company		Lease Heaton No. 27	
Location 1100 S, 1750 E, S 30 T31N, R11W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Aztec	
Casing: Diameter 2.875	Set At: Feet 2534	Tubing: Diameter no tubing	Set At: Feet
Pay Zone: From 2322	To 2360	Total Depth: 2534	Shut In 4-5-71
Stimulation Method S W F		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		tubingless completion	
Shut-In Pressure, Casing, PSIG 618	+ 12 = PSIA 630	Days Shut-In 15	Shut-In Pressure, Tubing PSIG no tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 217	+ 12 = PSIA 229	Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 277		
Temperature: T = 68 °F Ft = .9924	n = .85	F _{pv} (From Tables) 1.022	Gravity .675	F _g = .9427	

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

$$Q = 12.365 \times 229 \times .9924 \times .9427 \times 1.022 = \underline{2707} \text{ MCF/D}$$

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

Note: Well blew light fog of water and distillate throughout test.

$$Aof = \left(\frac{396900}{320171} \right)^n = 2707(1.2396)^{.85} = 2707(1.2002)$$

$$Aof = \underline{3249} \text{ MCF/D}$$

TESTED BY B. J. Broughton

WITNESSED BY _____

H. L. Kendrick
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