

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE 10-8-70

Operator El Paso Natural Gas Company		Lease Heaton No. 24	
Location 1500 N, 990 W, S 30, T31N, R11W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Aztec	
Casing: Diameter 2.875	Set At: Feet 2579	Tubing: Diameter no tubing	Set At: Feet
Pay Zone: From 2386	To 2396	Total Depth: 2579	Shut In 9-26-70
Stimulation Method S W F		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C		tubingless completion	
Shut-In Pressure, Casing, PSIG 632	+ 12 = PSIA 644	Days Shut-In 12	Shut-In Pressure, Tubing PSIG no tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 215	+ 12 = PSIA 227	Working Pressure: Pw PSIG Calc.	+ 12 = PSIA 276		
Temperature: T = 68 °F	F _t = .9924	n = .85	F _{pv} (From Tables) 1.021	Gravity .650	F _g = .9608

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

$$Q = 12.365 \times 227 \times .9924 \times .9608 \times 1.021 = \underline{2733} \text{ MCF/D}$$

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

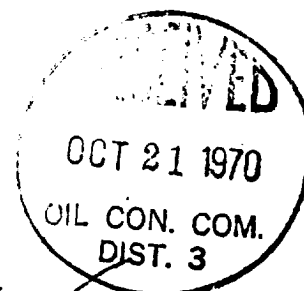
Note: blew light fog of water for 3 hrs.

$$A_{of} = \left(\frac{414736}{338560} \right)^n = (1.2250)^{.85} (2733) = 1.1882 \times 2733$$

$$A_{of} = \underline{3247} \text{ MCF/D}$$

TESTED BY Jesse B Goodwin

WITNESSED BY _____



H. L. Kendrick
H. L. Kendrick