

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE **August 28, 1958**

Operator El Paso Natural Gas		Lease Johnston State No. 6	
Location 1500N, 890W; 36-26-6		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool South Blanco	
Casing: Diameter 5-1/2	Set At: Feet 2947	Tubing: Diameter 1-1/4"	Set At: Feet 2911
Pay Zone: From 2866	To 2918	Total Depth: 2956 a/o 2930	Shut-in 7/16/58
Stimulation Method Sand Water Frac.		Flow Through: Casing X	Flow Through: Tubing

Choke Size, Inches .75		Choke Constant: C 12.365	
Shut-In Pressure, Casing, PSIG 906	12 = PSIA 918	Days Shut-In 43	Shut-In Pressure, Tubing, PSIG 906
Flowing Pressure: P, PSIG 174	12 = PSIA 186		Working Pressure: P _w , PSIG 181
Temperature: T, °F 65	n = .85		Flow (From Tables) 1.019
			Gravity .680

CHOKE VOLUME - $Q = C \times P_1 \times F_1 \times F_g \times F_{pv}$

$$Q = 12.365 \times 186 \times .9952 \times .9393 \times 1.019 = 2191 \text{ MCF/D}$$

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

$$Aof = \left(\frac{842724}{805475} \right)^n \quad 1.0462^{.85} (2191) = 1.0392 (2191)$$

$$Aof = 2277 \text{ MCF/D}$$

TESTED BY **Frank Clark**

WITNESSED BY

Checked By **H. L. Kendrick**

Lewis D. Galloway
L. D. Galloway

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