

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE July 8, 1957

Operator El Paso Natural Gas Company		Lease Donnell No. 2	
Location 1650'S, 1650'E, Sec. 22-24-6		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool Undesignated	
Casing: Diameter 5 1/2	Set At: Feet 2133	Tubing: Diameter 1 1/4	Set At: Feet 2253
Pay Zone: From 2082	To 2152	Total Depth: 2263 - c/o 2170	
Stimulation Method Sand Water Frac.		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches 0.75		Choke Constant: C 12.365	
Shut-In Pressure, Casing, PSIG 687	PSIG - 12 - PSIA 699	Days Shut-In 10	Shut-In Pressure, Tubing, PSIG 687
Flowing Pressure: P, PSIG 224	PSIG - 12 - PSIA 236		Working Pressure: P _w , PSIG 233
Temperature: T, °F 62	n .85		F _{pv} (From Tables) 1.023
			Gravity .650

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

$$Q = 12.365 \times 236 \times .9981 \times .9608 \times 1.023 = 2863 \text{ MCF/D}$$

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

$$A_{of} = \left(\frac{488,601}{428,576} \right)^{.85} \times 1.1400 \times 2863 = 1.1178 \times 2863$$

$$A_{of} = 3200 \text{ MCF/D}$$

TESTED BY R. A. Ullrich

WITNESSED BY _____



L. D. Galloway
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