

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE October 29, 1957

Operator El Paso Natural Gas Company		Lease Klein No. 3	
Location 990'N, 1750'E, Sec. 30-26-6		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool South Blanco Pictured Cliffs	
Casing: Diameter 5-1/2	Set At: Feet 2711	Tubing: Diameter 2	Set At: Feet 2655
Pay Zone: From 2628	To 2688	Total Depth: 2725	
Stimulation Method Sand Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches 3/7		Choke Constant: C 12.365	
Shut-In Pressure, Casing, PSIG 838	- 12 - PSIA 850	Days Shut-In 18	Shut-In Pressure, Tubing, PSIG 838
Flowing Pressure: P, PSIG 331	- 12 - PSIA 343		Working Pressure: P _w , PSIG 594
Temperature: T, F 56	F _n .850		F _{pv} (From Tables) 1.037
			Gravity .662

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

$$Q = 12.365 \times 343 \times 1.0039 \times .9535 \times 1.037 = 4210 \text{ MCF/D}$$

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

$$Aof = \left(\frac{722,500}{355,264} \right)^n = 2.0336^{.85} \times 4210 = 1.829 \times 4210$$

$$Aof = 7700 \text{ MCF/D}$$

TESTED BY Richard Proctor

WITNESSED BY _____



L. D. Galloway
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