

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE **September 20, 1958**

Operator El Paso Natural Gas		Lease Bolack 2-E	
Location 1650N, 1700E; 1-23-6		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool Otero PC	
Casing: Diameter 5-1/2	Set At: Feet 2265	Tubing: Diameter 1-1/4"	Set At: Feet 2214
Pay Zone: From 2176	To 2206	Total Depth c/o 2250	Shut-in 8/18/58
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 697	- 12 = PSIA 709	Days - Shut-In 33	Shut-In Pressure, Tubing, PSIG 697
Flowing Pressure: P, PSIG 63	- 12 = PSIA 75		Working Pressure: P _w , PSIG 161
Temperature: T, °F 65			Gravity .660
			F _{pv} (From Tables) 1.009

CHOKE VOLUME $Q = C \times P_1 \times F_1 \times F_2 \times F_v$

$$Q = 12.365 \times 75 \times .9952 \times .9535 \times 1.009 = 888 \text{ MCF/D}$$

$$\text{OPEN FLOW } Aof = Q \left(\frac{P_1}{P_1 - P_w} \right)^n$$

$$Aof = 888 \left(\frac{502681}{472752} \right)^n = 888 (1.0633)^{.85} = 888 \times 1.0535$$

$$Aof = 936 \text{ MCF/D}$$

TESTED BY **H. L. Kendrick**

WITNESSED BY



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