

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE January 10, 1958

Operator El Paso Natural Gas Company		Lease San Juan 28-7 No. 92	
Location 1840'S, 800'W, Sec. 20-27-7		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool South Blanco Pictured Cliffs	
Casing: Diameter 5-1/2	Set At: Feet 3029	Tubing: Diameter 1-1/4	Set At: Feet 2928
Flow Zone: From 2904	To 2954	Total Depth: 3034	
Stimulation Method Sand Water Frac.		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365	
Shut-in Pressure, Casing, PSIG 858	PSIA 870	Days Shut-in 41	Shut-in Pressure, Tubing, PSIG 858
Flowing Pressure: P, PSIG 216	PSIA 228		Working Pressure: P _w , PSIG 226
Temperature: T 61	85		Gravity 0.647
			F _{pv} From Tables 1.021

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

$$Q = 12.365 \times 228 \times .9990 \times .9645 \times 1.021$$

2773 MCF/D

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

$$A_{of} = \left(\frac{756,900}{700,256} \right)^n 1.0808^{.85} \times 2773 = 1.0683 \times 2773$$

A_{of} 2962 MCF/D

Richard Proctor



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