

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE **July 13, 1961**

Operator El Paso Natural Gas Company	Lease San Juan 27-4 No. 28
Location 990S, 1150W; 11-27N-4W	County Rio Arriba State New Mexico
Formation Mesaverde	Pool Blanco
Casing: Diameter 7" O.D.	Set At: Feet 3978
Pay Zone: From 5934	To 6098
Stimulation Method Sand Water Frac.	Flow Through: Casing X
	Flow Through: Tubing 6/21/61
	Shut In 5920
	Total Depth 6187 s/o
	Tubing: Diameter 1-1/4"
	Set At: Feet 5920

Choke Size, Inches .75	Choke Constant: C 12.365	4-1/2" O.D. Liner from 3864 to 6163
Shut-In Pressure, Casing 1154	PSIG 12 PSIA 1166	Days Shut-In 22
Flowing Pressure: P 323	PSIG 12 PSIA 335	Working Pressure: P _w 386
Temperature 64 F	F _g .9962	F _g .9608
	F _w .75	F _w 1.033
		Gravity .65
		E _{pv} (From Tables) 1.033

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

$$Q = 12.365 \times 335 \times .9962 \times .9608 \times 1.033 = 4096 \text{ MCF/D}$$

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

$$Aof = \left(\frac{1366561}{1208157} \right)^n \times 1.1311^{.75} \times 4096 = 1.0969 \times 4096$$

$$Aof = 4493 \text{ MCF/D}$$

Calculated by **R. F. Headrick**

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