

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE November 13, 1962

Operator El Paso Natural Gas Company	Lease San Juan 27-5 No. 92
Location 790'S, 1850'E, Sec. 36-27-5	County Rio Arriba State New Mexico
Formation Pictured Cliffs	Pool Tapacito
Casing: Diameter 2.875 Set At: Feet 4122	Tubing: Diameter No Tubing Set At: Feet
Pay Zone: From 4011 To 4023	Total Depth: 4125 Shut In 11-4-62
Stimulation Method Sand Water Frac.	Flow Through Casing X Flow Through Tubing

Choke Size, Inches .75	Choke Constant: C 12.365	Tubingless Completion
Shut-In Pressure, Casing, PSIG 660	PSIA 672 Days Shut-In 9	Shut-In Pressure, Tubing, PSIG No Tubing
Flowing Pressure: P, PSIG 196	PSIA 208	Working Pressure: Pw, PSIG (Calc.) 278
Temperature: 57	1.0029	Flow From Tables: 1.021
	.75	Gravity .650 ρ_g .9608

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

$$Q = (12.365)(208)(1.0029)(.9608)(1.021)$$

2530

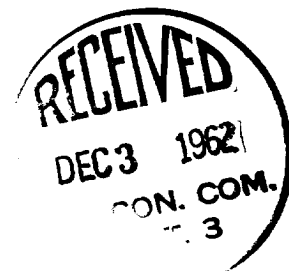
MCF/D

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

$$Aof = \left(\frac{451,584}{374,300} \right)^n (2530)(1.2064)^{.85} = (2530)(1.1731)$$

Aof 2968

MCF/D



C. R. Wagner

Calculated by W. D. Dawson

Checked by Tom B. Grant

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