

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE July 10, 1972

Operator El Paso Natural Gas Company		Lease San Juan 28-5 Unit No. 87	
Location 1050'N, 1840'E, Section 22, T28N, R5W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 8055	Tubing: Diameter 1.900	Set At: Feet 8007
Pay Zone: From 7844	To 8032	Total Depth: 8055	Shut In 7-2-72
Stimulation Method SWF		Flow Through Casing	Flow Through Tubing XX

Choke Size, Inches 0.750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2054	+ 12 = PSIA 2066	Days Shut-In 8	Shut-In Pressure, Tubing PSIG 1842	+ 12 = PSIA 1854	
Flowing Pressure: P PSIG 193	+ 12 = PSIA 205		Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 733	
Temperature: T = 92°F	n =		F _{pv} (From Tables) 1.013	Gravity .610	F _g = .9918
F _t = .9706	.75				

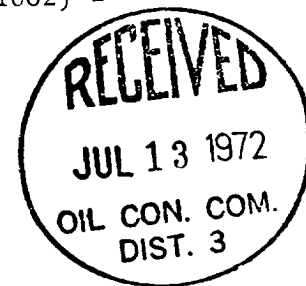
$$\text{CHOKE VOLUME} = Q = C \times P_i \times F_t \times F_g \times F_{pv}$$

$$Q = (12.365) (205) (.9706) (.9918) (1.013) = \underline{2472} \text{ MCF/D}$$

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

$$Aof = \left(\frac{4268356}{3731067} \right)^n = (2472) (1.4400)^{.75} = (2472) (1.1062) =$$

$$Aof = \underline{2734} \text{ MCF/D}$$



TESTED BY C. Rhames

WITNESSED BY _____

J. A. Jones
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