

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE October 22, 1959

Operator El Paso Natural Gas Company		Lease San Juan 28-6 Unit No. 85 (F)	
Location 1840N, 1460E; 25-27-6		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool South Blanco	
Casing Diameter 7-5/8	Set At: Feet 3245	Tubing Diameter 1-1/4	Set At: Feet 3077
Pay Zone: From 3066	To 3116	Total Depth 5444 c/o 5416	Shut In: 9/20/59
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 1068	PSIG + 12 = PSIA 1080	Shut-In Pressure, Tubing 1068	PSIG + 12 = PSIA 1080
Flowing Pressure: P 146	PSIG + 12 = PSIA 158	Working Pressure: Pw 151	PSIG + 12 = PSIA 163	Flow Through Tubing 1.015	Gravity .67
Temperature: T 59	n = .85				

Initial SIPT (MW) = 1083 psig
Final SIPT (MW) = 1085 psig

Packer at 4598

CHOKE VOLUME = $Q \cdot C \cdot P \cdot x \cdot F_1 \cdot x \cdot F_g \cdot x \cdot F_{pv}$

$$Q = 12.365 \times 158 \times 1.0010 \times .9463 \times 1.015 = 1878 \text{ MCF/D}$$

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

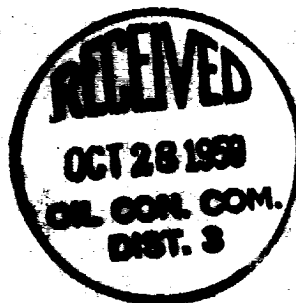
$$Aof = \left(\frac{1166.00}{1150.00} \right)^n$$

$$1.0235^{.85} \times 1878 = 1.0198 \times 1878$$

$$Aof = 1915 \text{ MCF/D}$$

TESTED BY S. V. Roberts

WITNESSED BY

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