

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE **December 8, 1959**

Operator El Paso Natural Gas Company		Lease San Juan 29-5 Unit No. 22-8	
Location 17908, 890W; 8-29-5		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 7	Set At: Feet 7686	Tubing: Diameter 1-1/4	Set At: Feet 5810
Pay Zone: From 5360	To 5778	Total Depth: 8086 P.B. 7567	Shut In 12/1/59
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, PSIG 1067	+ 12 = PSIA 1079	Days Shut-In 7	Shut-In Pressure, Tubing, PSIG 1067
Flowing Pressure: P, PSIG 495	+ 12 = PSIA 507	Working Pressure: Pw, PSIG 516	+ 12 = PSIA 528
Temperature: T, °F 70	F, °F .9905	Fpv (From Tables) 1.050	Gravity est. .669
Fg = .9498			

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

$$Q = 12.365 \times 507 \times .9905 \times .9498 \times 1.050 = 6193 \text{ MCF/D}$$

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

$$Aof = \left(\frac{1164241}{885457} \right)^n = 1.3148^{.75} \times 6193 = 1.2279 \times 6193$$

$$Aof = 7604 \text{ MCF/D}$$

TESTED BY **D. Mortensen**

WITNESSED BY

Checked By **T. B. Grant**

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