

EL PASO NATURAL GAS COMPANY OPEN FLOW TEST DATA

DATE **February 26, 1957**

Operator El Paso Natural Gas Company		Lease San Juan 28-7 Unit # 78	
Location 800'N, 800'E, Sec. 19-27-7		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco Mesa Verde	
Casing Diameter 5 1/2	Set At Feet 5397	Tubing Diameter 2	Set At Feet 5382
Pay Zone From 4978	To 5366	Total Depth 5400 - c/o - 5380	
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches 0.750	Choke Constant C 14.1605	Opened 11:13 A.M. Gauged 2:13 P.M.	
Shut-in Pressure, Casing, PSIG 1071	PSIA 1083	Days Shut-in 12	Shut-in Pressure, Tubing, PSIG 1071
Flowing Pressure: P, PSIG 110	PSIA 122	Working Pressure: Pw, PSIG 419	PSIA 431
Temperature: T 70	Flowing Pressure: P, PSIG 0.750	Fpv (From Tables) 1.011	Gravity 670

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

$$C \quad 14.1605 \times 122 \times .9905 \times .9463 \times 1.011 \quad 1637 \quad \text{MCF/D}$$

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

$$A_{of} \left(\frac{1,172,889}{987,128} \right)^n \quad 1.1881^{.75} \times 1637 = 1.1380 \times 1637$$

$$A_{of} \quad 1863 \quad \text{MCF/D}$$

TESTED BY **Tom Grant**

WITNESSED BY

L. D. Galloway
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