

EL PASO NATURAL GAS COMPANY OPEN FLOW TEST DATA

DATE **December 4, 1962**

Operator El Paso Natural Gas Company		Lease San Juan Unit 27-5 No. 90	
Location 2375'N, 2200'E, Sec. 16-27-5		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7842	Tubing: Diameter 2.375	Set At: Feet 7784
Pay Zone: From 7568	To 7794	Total Depth: 7862	Shut In 11-23-62
Stimulation Method Sand/Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .75		Choke Constant: C 12.365	
Shut-In Pressure, Casing, Not Measured	PSIG ---	PSIA ---	Days Shut-In 11
Flowing Pressure: P 358	PSIG ---	PSIA 370	Shut-In Pressure, Tubing 2588
Temperature 72	F .9887	F .75	Working Pressure: P _w Calculated
			PSIG ---
			PSIA 827
			Flow (From Tables) 1.041
			Gravity .700
			F _g .9258

CHOKE VOLUME $Q = C \times P_r \times F_p \times F_g \times F_{pv}$

$$Q = (12.365)(370)(.9887)(.9258)(1.041)$$

4359

MCF/D

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

$$Aof = \left(\frac{6,760,000}{6,076,071} \right)^n (4359)(1.1125)^{.75} = (4359)(1.0830)$$

NOTE: Unable to measure casing pressures.

Aof **4721** MCF/D

TESTED BY **Don Mortensen**

WITNESSED BY

Calculated by **H. L. Kendrick**


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