

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE November 8, 1962

Operator El Paso Natural Gas Company		Lease Florence No. 1-A (OWNO)	
Location 1550'N, 990'E, Sec. 25-30-10		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5321	Tubing: Diameter 2.375	Set At: Feet 5227
Pay Zone: From 4530	To 5262	Total Depth: 5370 C/O 5320	Shut In 11-1-62
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, PSIG 884	PSIG - 12 - PSIA 896	Days Shut-In 7	Shut-In Pressure, Tubing, PSIG 885
Flowing Pressure: P, PSIG 334	PSIG - 12 - PSIA 346		Working Pressure: Pw, PSIG 757
Temperature: T, °F 75	Fr .9859		Gravity .670
	.75		Fig .9463
			1.033

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

$$Q = (12.365)(346)(.9859)(.9463)(1.033)$$

4123 MCF/D

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

$$Aof = \left(\frac{804,609}{213,248} \right)^n$$

$$(3.7731)^{.75}(4123) = (2.7050)(4123)$$

$$Aof = 11,153 \text{ MCF/D}$$

NOTE: Light spray of water and distillate throughout the test.

TESTED BY Dannie R. Roberts

WITNESSED BY

Checked by W. D. Dawson

Lewis D. Galloway
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