

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE **November 17, 1959**

Operator El Paso Natural Gas Company		Lease San Juan 27-5 Unit 47 (M) OWWO	
Locat 15008, 1750W; 18-27-5		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing Diameter 5-1/2	Set At Feet 5586	Tubing Diameter 2	Set At Feet 5423
Pay Zone: From 5376	To 5502	Total Depth: c/o 5544	Shut In: 11/10/59
Stimulation Method Sand Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke size, inches .75	Choke Constant 12.365		
Shut-In Pressure, Casing 903 (PC)	PSIG - 12 - PSIA 915	Days Shut-In 19	Shut-In Pressure, Tubing 801 (MV)
Flowing Pressure, P 196 (MV)	PSIG - 12 - PSIA 208		Working Pressure, Pw Calc. 413
Temperature, T 57	F .75	Fpv (From Tables) 1.024	Gravity .702

Initial SIPT (PC) = 903 psig

Packer at 3295

Final SIPC (PC) = 907 psig

CHOKE VOLUME $Q = C \times P_c \times F_c \times F_g \times F_{pv}$

$$Q = 12.365 \times 208 \times 1.0029 \times .9258 \times 1.024 = 2445 \text{ MCF/D}$$

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

$$\text{Aof} = \left(\frac{660969}{490400} \right)^n$$

$$1.3478^{.75} \times 2445 = 1.2505 \times 2445$$

$$\text{Aof} = 3057 \text{ MCF/D}$$

TESTED BY **S. V. Roberts**

WITNESSED BY



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