

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE September 9, 1959

Operator El Paso Natural Gas		Lease San Juan 28-7 Unit No. 107 (M)	
Location 17508, 1650W; 11-27-7		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 5-1/2	Set At: Feet 5634	Tubing: Diameter 2"	Set At: Feet 5462
Pay Zone: From 5432	To 5552	Total Depth 5536 c/o 5592	Shut In: 8/29/59
Stimulation Method Sand Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .75		Choke Constant: C 14.1605		5-1/2 liner 3358 - 5634	
Shut-In Pressure, (PC) 965	PSIG	12 - PSIA	Days Shut-In 11	Shut-In Pressure, Tubing (MV) 1051	PSIG
Flowing Pressure 196	PSIG	12 - PSIA		Working Pressure, Calc. 458	PSIG
Temperature: T 62	F	n		Fpv (From Tables) 1.023	Gravity .694

Initial SIPT (PC) = 965 psig

Packer at 3185

Final SIPT (PC) = 969 psig

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

$$Q = 14.1605 \times 208 \times .9981 \times .9325 \times 1.023 = 2804 \text{ MCF/D}$$

$$\text{OPEN FLOW } Aof = Q \left(\frac{P_c^n}{P_w^n - P_c^n} \right)^{\frac{1}{n}}$$

$$Aof = \left(\frac{1129969}{920205} \right)^{\frac{1}{.75}} \cdot 1.2279^{.75} \times 2804 = 1.1662 \times 2804$$

$$Aof = 3270 \text{ MCF/D}$$

TESTED BY **W. D. Dawson**WITNESSED BY **T.J. Smith (NMOCC)**

Lewis D. Galloway
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