

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE **March 14, 1960**

Operator El Paso Natural Gas		Lease San Juan 29-5 Unit 13-30 (M)	
Location 1650N, 800E; 30-29-5		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 7	Set At: Feet 7852	Tubing: Diameter 1-1/4	Set At: Feet 5970
Pay Zone: From 5526	To 5984	Total Depth: 8214 c/o 8130	Shut In 3/24/60
Stimulation Method Sand Water Frac.		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .75		Choke Constant: C 12.365		Packer at 7740	
Shut-In Pressure, Casing, (MV) 1087	PSIG - 12 PSIA 1099	Days Shut in 19	Shut-In Pressure, Tubing (MV) 1087	PSIG - 12 PSIA 1099	
Flowing Pressure: P (MV) Csg.) 380	PSIG - 12 PSIA 392		Working Pressure: P _w (MV Tbg.) 852	PSIG - 12 PSIA 864	
Temperature: T 36 F	F _i 1.0239	.75	F _{pr} From Tables 1.046	Gravity .669	F _g .9498

Initial SIPT (D) = 1131 psig

Final SIPT (D) = 1152 psig

CHOKE VOLUME $Q = C \times P_1 \times F_i \times F_g \times F_{pr}$

$$Q = 12.365 \times 392 \times 1.0239 \times .9498 \times 1.046 = 4931 \text{ MCF D}$$

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

The last three flow press. readings were slightly fluctuating and there was ice in the choke upstream from the choke constriction.

$$A_{of} = \left(\frac{1207801}{461305} \right)^n$$

$$2.6182^{.75} \times 4931 = 2.0585 \times 4931$$

$$A_{of} = 10150 \text{ MCF D}$$

TESTED BY **W. D. Dawson**WITNESSED BY **W. B. Smith (Phillips)**

Lewis D. Galloway
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