

EL PASO NATURAL GAS COMPANY OPEN FLOW TEST DATA

DATE June 4, 1957

Operator El Paso Natural Gas		Lease Barron Kidd 1-E	
Location 890'S, 1650'W, Sec. 34-30-6		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing Diameter 5 1/2"	Set At: Feet 5787	Tubing Diameter 2"	Set At: Feet 5690
Pay Zone From 5202	To 5668	Total Depth 5800 - c/o - 5700	
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing X

Choke Size, inches 0.750		Choke Constant: C 14.1605	
Shut-In Pressure, Casing, PSIG 1068	- 12 - PSIA 1080	Days Shut-In 36	Shut-In Pressure, Tubing, PSIG 1064
Flowing Pressure: P, PSIG 432	- 12 - PSIA 444	Working Pressure: Pw, PSIG 952	- 12 - PSIA 964
Temperature T, F 83	Factor 0.750	Fp, from Tables 1.034	Gravity .620

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

$$Q = 14.1605 \times 444 \times .9786 \times .9837 \times 1.034 \quad 6258 \quad \text{MCF/D}$$

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

$$Aof = \left(\frac{1,166,400}{237,104} \right)^n \quad 4.9193^{.75} \times 6258 = 3.3020 \times 6258$$

$$Aof = 20,664 \quad \text{MCF/D}$$

TESTED BY Tom Grant

WITNESSED BY



L. D. Galloway
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