

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE August 20, 1957

Operator El Paso Natural Gas		Lease Abraham No. 2-X	
Location 990'S, 1010'W, Sec. 12-30-6		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 5-1/2	Set At: Feet 5563	Tubing: Diameter 2	Set At: Feet 5502
Pay Zone: From 5090	To 5504	Total Depth: 5590 - c/o 5520	
Stimulation Method Sand Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches 0.750		Choke Constant: C 12.365	
Shut-In Pressure, Casing, PSIG 1171	12 = PSIA 1183	Days Shut-In 56	Shut-In Pressure, Tubing PSIG 1164
Flowing Pressure: P PSIG 316	12 = PSIA 328		Working Pressure: P _w PSIG 792
Temperature: T °F 69	n .750		Gravity 580

CHOKE VOLUME = Q C x P_i x F_i x F_g x F_{pv}

$$Q = 12.365 \times 328 \times .9915 \times 1.017 \times 1.022 = 4180 \text{ MCF/D}$$

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

$$Aof = \left(\frac{1,399,489}{753,073} \right)^n = 1.8583^{.75} \times 4180 = 1.5910 \times 4180$$

Aof 6650 MCF D

TESTED BY T. B. Grant and Jess Goodwin

WITNESSED BY _____



L. D. Galloway
L. D. Galloway

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