

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE August 21, 1956

Operator El Paso Natural Gas Company		Lease Ludwick # 10 (M)	
Location 990'N, 990'E, Sec. 29-30N-10W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 5 1/2 7	Set At: Feet 4526-5298 4607	Tubing: Diameter 2"	Set At: Feet 5203
Pay Zone: From 4984	To 5218	Total Depth: 5315 - c/o - 5263	
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .750		Choke Constant: C 14.1605	
Shut-In Pressure, Casing, PSIG 195	- 12 = PSIA 207	Days Shut-In 9	Shut-In Pressure, Tubing PSIG 633 - 12 = PSIA 645
Flowing Pressure: P PSIG 195	- 12 = PSIA 207	Working Pressure: P _w PSIG Calculated	- 12 = PSIA 443
Temperature: T 75	F 75	F _{pv} (From Tables) 1.021	Gravity .700 est.

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

$$Q = 14.1605 \times 207 \times .9859 \times .9258 \times 1.021 = 2732 \text{ MCF/D}$$

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

$$Aof = \left(\frac{416,025}{219,776} \right)^{.75} 2732 (1.8929)^{.75} = 2732 \times 1.6145$$

Aof **4411**

MCF/D

TESTED BY **H. L. Kendrick**WITNESSED BY **Fred Cook, MOCC**cc: **E. J. Coel, Jr. (6)**

L. D. Galloway
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