

EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

DATE May 2, 1968

Operator El Paso Natural Gas Company		Lease Day No. 3 (OWMO)	
Location 990'S, 990'W, Sec. 18, T-29-N, R-8-W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5517	Tubing: Diameter 2.375	Set At: Feet 5306
Pay Zone: From 4691	To 5478	Total Depth: 5517	Shut In 4-25-68
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 786	+ 12 = PSIA 798	Days Shut-In 7	Shut-In Pressure, Tubing PSIG 782	+ 12 = PSIA 794	
Flowing Pressure: P PSIG 206	+ 12 = PSIA 218		Working Pressure: P _w PSIG 717	+ 12 = PSIA 729	
Temperature: T = 72 °F	Ft = .9887	n = .75	Fpv (From Tables) 1.023	Gravity .700	Fg = .9258

$$\text{CHOKE VOLUME} = Q = C \times P_i \times F_i \times F_g \times F_{pv}$$

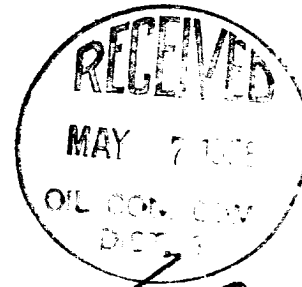
$$Q = (12.365)(218)(.9887)(.9258)(1.023) = \underline{2524} \text{ MCF/D}$$

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

$$Aof = \left(\frac{636,804}{105,363} \right)^n = (2,524)(6.0439)^{.75} = (2524)(3.8547)$$

NOTE: The well produced a light mist of water and dist. throughout the test.

$$Aof = \underline{9,729} \text{ MCF/D}$$

TESTED BY B. BroughtonChecked
WITNESSED BY C. R. Wagner

H. L. Kendrick
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