

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE June 21, 1966

Operator El Paso Natural Gas Company		Lease Fields No. 3 (OWWO)	
Location 1548'N, 1507'E, Section 29, T-32-N, R-11-W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5890	Tubing: Diameter 2.375	Set At: Feet 5837
Pay Zone: From 5045	To 5838	Total Depth: 5890	Shut In 6-14-66
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 770	+ 12 = PSIA 782	Days Shut-In 7	Shut-In Pressure, Tubing PSIG 770	+ 12 = PSIA 782	
Flowing Pressure: P PSIG 276	+ 12 = PSIA 288		Working Pressure: P _w PSIG 636	+ 12 = PSIA 648	
Temperature: T = 83 °F	F _t = .9786	n = .75	F _{pv} (From Tables) 1.027	Gravity .680	F _g = .9393

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

$$Q = (12.365) (288) (.9786) (.9393) (1.027) = \underline{3362} \text{ MCF/D}$$

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

$$Aof = \left(\frac{611,524}{191,620} \right)^n = (3362) (3.1913)^{.75} = (3362) (2.3877)$$

NOTE: Slight distillate mist throughout test.

$$Aof = \underline{8027} \text{ MCF/D}$$

TESTED BY Walter CassidaCHECKED BY Hermon E. McAnally

H. L. Kendrick
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