

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 11-9-66

Operator El Paso Natural Gas Company		Lease Roelofs No. 2 (CWWO)	
Location 990'N, 1650'E, Sec. 15, T-29-N, R-8-W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5466	Tubing: Diameter 2.375	Set At: Feet 5329
Pay Zone: From 4659	To 5408	Total Depth: 5466	Shut In 11-2-66
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 826	+ 12 = PSIA 838	Days Shut-In 7	Shut-In Pressure, Tubing PSIG 825	+ 12 = PSIA 837	
Flowing Pressure: P PSIG 264	+ 12 = PSIA 276		Working Pressure: P _w PSIG 669	+ 12 = PSIA 681	
Temperature: T = 75 °F	F _t = .9859	n = .75	F _p (From Tables) 1.026	Gravity .685	F _g = .9359

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

$$Q = (12.365)(276)(.9859)(.9359)(1.026) = \underline{3231} \text{ MCF/D}$$

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

$$Aof = \left(\frac{702244}{238483} \right)^n = (2.9446)^{.75} (3230) = (2.2480)(3230)$$

NOTE: The well produced a light spray of water & distillates throughout the test.

$$Aof = \underline{7263} \text{ MCF/D}$$

TESTED BY Dan RobertsWITNESSED BY H. E. McAnally

H. L. Kendrick
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