

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 7-5-68

Operator El Paso Natural Gas Company		Lease Warren No. 10	
Location 1180'S, 830'E, Sec. 13 - T-28-N, R-9-W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Aztec	
Casing: Diameter 2.875	Set At: Feet 2327	Tubing: Diameter NO TUBING	Set At: Feet
Pay Zone: From 2244	To 2290	Total Depth: 2327	Shut In 6-19-68
Stimulation Method Sand Water Frac		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .750	Choke Constant: C 12.365		TUBINGLESS COMPLETION		
Shut-In Pressure, Casing, PSIG 667	+ 12 = PSIA 679	Days Shut-In 16	Shut-In Pressure, Tubing, PSIG NO TUBING	+ 12 = PSIA	
Flowing Pressure: P, PSIG 83	+ 12 = PSIA 95		Working Pressure: P _w , PSIG CALC.	+ 12 = PSIA 114	
Temperature: T: 59 °F	n = .85		F _{pv} (From Tables) 1.007	Gravity .630	F _g = .9759

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

$$Q = (12.365)(95)(1.0010)(.9759)(1.007) = 1156 \text{ MCF/D}$$

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

$$\text{Acf} = \left(\frac{461041}{448045} \right)^n = (1156)(1.0290)^{.85} = (1156)(1.0246)$$

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

$$\text{Acf} = 1184 \text{ MCF/D}$$

TESTED BY B. J. Broughton

CALCULATED
WITNESSED BY H. E. McAnally

H. L. Kendrick

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