

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE July 20, 1966

Operator El Paso Natural Gas Company		Lease Huerfano Unit No. 17-X	
Location 2000'N, 1050'W, Section 31, T-27-N, R-10-W		County San Juan	State New Mexico
Formation Fractured Cliffs		Pool West Kutz	
Casing: Diameter 2.875	Set At: Feet 1753	Tubing: Diameter No Tubing	Set At: Feet -
Pay Zone: From 1638	To 1652	Total Depth: 1762	Shut In 7-13-66
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, 270	PSIG	+ 12 = PSIA 282	Days Shut-In 7	Shut-In Pressure, Tubing No Tubing	PSIG -
Flowing Pressure: P 123	PSIG	+ 12 = PSIA 135		Working Pressure: P _w Calc.	PSIG 156
Temperature: T = 66 °F	F _t = .9943	n = .85		F _{pv} (From Tables) 1.013	Gravity .675 F _g = .9427

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

$$Q = (12.365) (135) (.9943) (.9427) (1.013) = 1585 \text{ MCF/D}$$

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

$$Aof = \left(\frac{79,524}{55,188} \right)^n = (1585) (1.4409)^{.85} = (1585) (1.3642)$$

NOTE: Well blew light spray of water and distillate throughout the test.

$$Aof = 2162 \text{ MCF/D}$$

TESTED BY Doc RobertsWITNESSED BY H. E. McAnallyCHECKED BY Tom B. Grant

H. L. Kendrick
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