

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 8-24-66

Operator El Paso Natural Gas Company		Lease Michener No. 4	
Location 1170'S, 1590'W, Sec. 15, T-28-N, R-9-W		County San Juan	State New Mexico
Formation Pictured cliff		Pool Aztec	
Casing: Diameter 2.875	Set At: Feet 2397	Tubing: Diameter No Tubing	Set At: Feet -----
Pay Zone: From 2306	To 2344	Total Depth: 2405	Shut In 8-13-66
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, PSIG 733	+ 12 = PSIA 745	Days Shut-In 11	Shut-in Pressure, Tubing No Tubing	PSIG + 12 = PSIA	
Flowing Pressure: P PSIG 163	+ 12 = PSIA 175		Working Pressure: P _w Calc.	PSIG 211	
Temperature: T = 66 °F	F _t = .9943	n = .85	F _{pv} (From Tables) 1.018	Gravity .680	F _g = .9393

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

$$Q = (12.365)(175)(.9943)(.9393)(1.018) = 2,057 \text{ MCF/D}$$

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

$$Aof = \left(\frac{555,025}{510,504} \right)^n = (2057)(1.0372)^{.85} = (2057) 1.0737$$

NOTE: Well blew dry gas

$$Aof = 2,209 \text{ MCF/D}$$

TESTED BY Ron Headrick

CHECKED BY

WITNESSED BY C. R. Wagner

Calculated by H. E. McNally



H. L. Kendrick