

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE June 22, 1966

Operator El Paso Natural Gas Company		Lease Schwerdtfeger A No. 23	
Location S10'S, 1844'E, Section 8, T-27-N, R-8-W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool South Blanco	
Casing: Diameter 2.875	Set At: Feet 2936	Tubing: Diameter No Tubing	Set At: Feet -
Pay Zone: From 2856	To 2896	Total Depth: 2936	Shut In 6-15-66
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 322	+ 12 = PSIA 634	Days Shut-in 7	Shut-in Pressure, Tubing PSIG No Tubing	+ 12 = PSIA -
Flowing Pressure: P PSIG 180	+ 12 = PSIA 192		Working Pressure: Pw PSIG Calc.	+ 12 = PSIA 239
Temperature: T = 68 °F	n = .85		Fpv (From Tables) 1.018	Gravity .650 Fg = .9608

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

$$Q = (12.365) (192) (.9924) (.9608) (1.018) = 2304 \text{ MCF/D}$$

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

$$Aof = \left(\frac{401,956}{344,835} \right)^n = (1.1656)^{.85} (2304) = (2304) (2304)$$

NOTE: Blew dry gas (some sand) for the entire test.

$$Aof = 2624 \text{ MCF/D}$$

TESTED BY Jesse B. GoodwinCHECKED BY Herman E. McAnally

Herman E. McAnally
Herman E. McAnally