

EL PASO NATURAL GAS COMPANY OPEN FLOW TEST DATA

DATE May 25, 1973

Operator El Paso Natural Gas Company		Lease Hughes No. 23	
Location 1480'S, 800'W, Section 29, T29N, R8W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Blanco	
Casing Diameter 2.875	Set At: Feet 3144	Tubing Diameter No Tubing	Set At: Feet
Pay Zone: From 2940	To 3040	Total Depth: 3144	Shut In 5-17-73
Simulation Method SWF		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 947	+ 12 = PSIA 959	Decys Shut-In 8	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 70	+ 12 = PSIA 82		Working Pressure: Fw PSIG Calculated	+ 12 = PSIA 103	
Temperature: T = 60 °F	Ft = 1.000	n = .85	Fpv (From Tables) 1.007	Gravity .645	Fg = .9645

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

$$Q = (12.365) (82) (1.000) (.9645) (1.007) = 985 \text{ MCF/D}$$

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

NOTE: The well produced dry gas.

$$Aof = Q \left(\frac{919681}{909072} \right)^{.85} = 985 (1.0117) = 985 (1.0099)$$

$$Aof = 996 \text{ MCF/D}$$

TESTED BY Tommy Norton

WITNESSED BY

William D. Welch
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