

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE November 12, 1968

Operator El Paso Natural Gas Company		Lease Day "B" No. 3	
Location 801'N, 1190'E, Sec. 7, T-27-N, R-8-W		County San Juan	State New Mexico
Formation Basin		Pool Dakota	
Casing: Diameter 4.500	Set At: Feet 6967	Tubing: Diameter 2.375	Set At: Feet 6767
Pay Zone: From 6735	To 6935	Total Depth: 6967	Shut In 10-29-68
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 1964	+ 12 = PSIA 1976	Days Shut-In 14	Shut-In Pressure, Tubing PSIG 1997	+ 12 = PSIA 2009	
Flowing Pressure: P PSIG 302	+ 12 = PSIA 314		Working Pressure: P _w PSIG 791	+ 12 = PSIA 803	
Temperature: T = 82 °F	F _t = .9795	n = .75	F _{pv} (From Tables) 1.032	Gravity .700	F _g = .9258

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

$$Q = (12.365)(314)(.9795)(.9258)(1.032) = \underline{\quad 3633 \quad} \text{ MCF/D}$$

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

$$Aof = \left(\frac{4036031}{3391272} \right)^n = (3633)(1.1901)^{.75} = (3633)(1.1395)$$

Note: The well produced a light fog of water throughout the test.

$$Aof = \underline{\quad 4140 \quad} \text{ MCF/D}$$

TESTED BY C. R. WagnerChecked
WITNESSED BY H. E. McInally

H. L. Kendrick
H. L. Kendrick

