

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE April 30, 1969

Operator El Paso Natural Gas		Lease Riddle "F" No. 7	
Location 1180'S; 1040'E; S-29; T-28N; R-8W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool S. Blanco	
Casing: Diameter 2.875	Set At: Feet 2372	Tubing: Diameter No tubing	Set At: Feet ---
Pay Zone: From 2252	To 2290	Total Depth: 2372	Shut In 4-18-69
Stimulation Method Sand Water Frac		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches 0.750		Choke Constant: C 12.365		Tubingless completion	
Shut-In Pressure, Casing, PSIG 812	+ 12 = PSIA 824	Days Shut-In 12	Shut-In Pressure, Tubing PSIG No tubing	+ 12 = PSIA ---	
Flowing Pressure: P PSIG 85	+ 12 = PSIA 97		Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 117	
Temperature: T = 62 °F	F _t = .9981	n = .85	F _{pv} (From Tables) 1.009	Gravity .650	F _g = .9608

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

$$Q = (12.365)(97)(.9981)(.9608)(1.008) = \underline{1161} \text{ MCF/D}$$

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

$$Aof = \left(\frac{678976}{665287} \right)^n = (1161)(1.0205)^{.85} = (1161)(1.0174) = 1181 \text{ MCF/D}$$

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

$$Aof = \underline{1181} \text{ MCF/D}$$

TESTED BY B. J. B.
Calculated
WITNESSED BY H. E. M.

Ed. Hendrich

