

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE April 26, 1973

Operator El Paso Natural Gas Company		Lease Riddle "G" No. 3	
Location 1800'S, 850'E, Section 17, T-28-Nm R-8-W		County San Juan	State New Mexico
Formation Pictured Cliffs Ext		Pool South Blanco	
Casing: Diameter 2.875	Set At: Feet 2290	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 2184	To 2244	Total Depth: 2290	Shut In 4-17-73
Stimulation 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 840	+ 12 = PSIA 852	Days Shut-In 9	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 103	+ 12 = PSIA 115		Working Pressure: P <sub>w</sub> PSIG Calculated	+ 12 = PSIA 138	
Temperature: T = 64 °F	F <sub>t</sub> = .9962	n = .85	F <sub>p</sub> v (From Tables) 1.010	Gravity .645	F <sub>g</sub> = .9645

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

$$Q = (12.365)(115)(.9962)(.9645)(1.010) = \underline{1380} \text{ MCF/D}$$

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

NOTE: The well produced dry gas.

$$Aof = Q \left( \frac{725904}{706860} \right)^n = 1380(1.0269)^{.85} = 1380(1.0229)$$

$$Aof = \underline{1412} \text{ MCF/D}$$

TESTED BY W. D. Welch

WITNESSED BY \_\_\_\_\_

*William D. Welch*  
William D. Welch, Well Test Engineer