

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE April 23, 1973

Operator El Paso Natural Gas Company		Lease Riddle "F" No. 10	
Location 1180'S, 890'W, Section 17, T-28-N, R-8-W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool So. Blanco Ext.	
Casing: Diameter 2.875	Set At: Feet 2234	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 2110	To 2170	Total Depth: 2234	Shut In 4-12-73
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 765	+ 12 = PSIA 777	Days Shut-In 11	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 51	+ 12 = PSIA 63		Working Pressure: P <sub>w</sub> PSIG Calculated	+ 12 = PSIA 75	
Temperature: T = 60 °F	F <sub>t</sub> = 1.000	n = .85	F <sub>pv</sub> (From Tables) 1.007	Gravity .645	F <sub>g</sub> = .9645

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

$$Q = (12.365) (63) (1.000) (.9645) (1.007) = 757 \text{ MCF/D}$$

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

NOTE: The well produced dry gas.

$$Aof = \left( \frac{603729}{598104} \right)^n = (757) (1.0094)^{.85} = (757) (1.0080)$$

$$Aof = 764 \text{ MCF/D}$$

TESTED BY C. Rhames

WITNESSED BY



William D. Welch  
Well Test Engineer