

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE June 29, 1973

Operator El Paso Natural Gas Company		Lease Russell No. 11	
Location 1090'N, 1650'E, Section 25, T28N, R8W		County San Juan	State New Mexico
Formation Pictured Cliffs <i>Ext.</i>		Pool So. Blanco	
Casing: Diameter 2-7/8	Set At: Feet 2975	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 2850	To 2916	Total Depth: 2975	Shut In 6-18-73
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 11	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 72	+ 12 = PSIA 84	Working Pressure: P _w PSIG Calculated	+ 12 = PSIA		
Temperature: T = 61 °F	F _t = .9990	F _p (From Tables) 1.007	Gravity .645	F _g = .9645	

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

$$Q = (12.365) (84) (.9990) (.9645) (1.007) = 1008 \text{ MCF/D}$$

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

NOTE: Well produced dry gas.

$$Aof = Q \left(\frac{725904}{714879} \right)^n = 1008 (1.0154)^{.85} = 1.008 (1.0131)$$

$$Aof = 1021 \text{ MCF/D}$$

TESTED BY Roger Hardy

WITNESSED BY _____



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