

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE April 26, 1973

Operator: El Paso Natural Gas Company		Lease Howell No. 11	
Location 1050'S, 1785'W, Section 27, T28N, R8W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool South Blanco	
Casing: Diameter 2.875	Set At: Feet 2780	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 2676	To 2732	Total Depth: 2780	Shut In 4-16-73
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 1025	+ 12 = PSIA 1037	Days Shut-In 10	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 132	+ 12 = PSIA 144		Working Pressure: P _w PSIG Calculated	+ 12 = PSIA	
Temperature: T = 62 °F	n = Ft = .9981		Fpv (From Tables) 1.013	Gravity .645	Fg = .9645

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

$$Q = (12.365) (144) (.9981) (.9645) (1.013) = \underline{1736} \text{ MCF/D}$$

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

NOTE: The well produced dry gas

$$Aof = Q \left(\frac{1075369}{1043685} \right)^n = 1736 (1.0304)^{.85} = 1736 (1.0258)$$

$$Aof = \underline{1782} \text{ MCF/D}$$

TESTED BY D. Norton

WITNESSED BY _____

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

