

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE June 29, 1973

Operator El Paso Natural Gas Company		Lease Tapp No. 11	
Location 1750'N, 1180'W, Section 24, 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 2979	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 2816	To 2894	Total Depth: 2995	Shot In 6-19-73
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 973	+ 12 = PSIA 983	Days Shut-in 10	Shut-in Pressure, Tubing, PSIG No Tubing	+ 12 = PSIA	
Flowing Pressure, P, PSIG 94	+ 12 = PSIA 106		Working Pressure, Pw, PSIG Calculated	+ 12 = PSIA 132	
Temperature: T = 62 °F	n = .85		Fpv (From Tables) 1.007	Gravity .635	Fg = .9721

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

$$Q = (12.365)(106)(.9981)(.9721)(1.007) = 1281 \text{ MCF/D}$$

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

NOTE: Well produced dry gas.

$$Aof = Q \left(\frac{966289}{948865} \right)^n = 1281 (1.0184)^{.85} = 1281 (1.0156)$$

$$Aof = 1301 \text{ MCF/D}$$

TESTED BY Roger Hardy

WITNESSED BY _____



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