

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE July 17, 1973

Operator El Paso Natural Gas Company		Lease San Juan 27-5 Unit # 154	
Location 1750/S, 1025/E Sec. 21 T-27-N, R-5-W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool Tapacito	
Casing: Diameter 2 7/8	Set At: Feet 3398	Tubing: Diameter No tubing	Set At: Feet
Pay Zone: From 3268	To 3284	Total Depth: 3398	Shut In 7-5-73
Stimulation Method SWF		Flow Through Casing	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12,365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 667	+ 12 = PSIA 679	Days Shut-In 12	Shut-In Pressure, Tubing PSIG No tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 67	+ 12 = PSIA 79	Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 101		
Temperature: T = 60 °F	F _t = 1.000	n = .85	F _p v (From Tables) 1.009	Gravity .655	F _g = .9571

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

$$Q = (12.365) (79) (1.000) (.9571) (1.009) = \underline{\quad 943 \quad} \text{ MCF/D}$$

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

NOTE: The well produced dry gas.

$$Aof = Q \left(\frac{461041}{450840} \right)^n = 943(1.0226)^{.85} = 943(1.0192)$$

$$Aof = \underline{\quad 961 \quad} \text{ MCF/D}$$

TESTED BY Rhames

WITNESSED BY _____

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

