

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE December 5, 1974

Operator El Paso Natural Gas Company		Lease San Juan 27-4 Unit #80	
Location 1000/S, 1760/E, Sec. 24, T27N, R4W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool Tapacito	
Casing: Diameter 2.875	Set At: Feet 4262'	Tubing: Diameter No Tubing	Set At: Feet --
Pay Zone: From 4122	To 4206'	Total Depth: PBT 4262' 4251	Shut In 11-15-74
Stimulation Method Sandwater Frac		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches .750	Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 1119	+ 12 = PSIA 1131	Days Shut-In 20	Shut-In Pressure, Tubing, PSIG No Tubing	+ 12 = PSIA --
Flowing Pressure: P, PSIG 81	+ 12 = PSIA 93		Working Pressure: P _w , PSIG Calculated	+ 12 = PSIA 124
Temperature: T = 58 °F	n = Ft = 1.002		F _{pv} (From Tables) 1.009	Gravity .680 F _g = 0.9393

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

$$Q = 12.365(93)(1.002)(0.9393)(1.009) = \underline{1092} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{1279161}{1263785} \right)^n = 1092(1.0122)^{.85} = 1092(1.0103)$$

$$Aof = \underline{1103} \text{ MCF/D}$$

Note: The well produced a dry gas.

TESTED BY J. Goodwin

WITNESSED BY _____

Loren W. Fothergill
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Well Test Engineer