

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE August 22, 1974

Operator El Paso Natural Gas Company		Lease San Juan 27-4 Unit #84	
Location 850/N, 1620/E, Sec. 27, T27N, R4W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool Tapacito	
Casing: Diameter 2.875	Set At: Feet 4304'	Tubing: Diameter No Tubing	Set At: Feet --
Pay Zone: From 4128'	To 4190'	Total Depth: PBD 4304' 4292'	Shut In 8-15-74
Stimulation Method Sandwater Frac		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches 0.750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 1039	+ 12 = PSIA 1051	Days Shut-In 7	Shut-In Pressure, Tubing, PSIG No Tubing	+ 12 = PSIA --	
Flowing Pressure: P, PSIG 127	+ 12 = PSIA 139		Working Pressure: P _w , PSIG Calculated	+ 12 = PSIA 186	
Temperature: T = 59 °F	n = F _t = 1.0010		F _{pv} (From Tables) 1.015	Gravity .680	F _g = 0.9393

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

$$Q = 12.365(139)(1.0010)(0.9393)(1.0150) = \underline{\quad 1640 \quad} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{1104601}{1070005} \right)^n = 1640(1.0323)^{.85} = 1640(1.0274)$$

$$Aof = \underline{\quad 1685 \quad} \text{ MCF/D}$$

Note: The well produced a dry gas.

TESTED BY D. Norton

WITNESSED BY _____

Loren W. Fothergill
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Well Test Engineer

