

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE December 5, 1974

Operator El Paso Natural Gas Company		Lease San Juan 27-4 Unit #93	
Location 1115/N, 1833/W, Sec. 36, T27N, R4W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool Tapacito	
Casing: Diameter 2.875	Set At: Feet 4227'	Tubing: Diameter No Tubing	Set At: Feet --
Pay Zone: From 4114	To 4172	Total Depth: PBD 4227' 4216	Shut In 11-18-74
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 925	+ 12 = PSIA 937	Days Shut-In 17	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA --	
Flowing Pressure: P PSIG 186	+ 12 = PSIA 198		Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 266	
Temperature: T = 57 °F Ft = 1.003	n = .85		Fpv (From Tables) 1.022	Gravity .680 Fg = 0.9393	

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

$$Q = 12.365(198)(1.003)(0.9393)(1.022) = \underline{2357} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{877969}{807213} \right)^n = 2357(1.0877)^{.85} = 2357(1.0740)$$

$$Aof = \underline{2532} \text{ MCF/D}$$

Note: The well produced a dry gas flow.

TESTED BY J. B. Goodwin

WITNESSED BY _____

Loren W. Fothergill
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Well Test Engineer