

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE November 12, 1974

Operator El Paso Natural Gas Company		Lease San Juan 27-4 Unit #81	
Location 1100/S, 1097/W, Sec. 24, T27N, R4W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool Tapacito	
Casing: Diameter 2.875	Set At: Feet 4186'	Tubing: Diameter No Tubing	Set At: Feet --
Pay Zone: From 4028'	To 4094	Total Depth: PBD 4186' 4175'	Shut In 10-29-74
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 1105	+ 12 = PSIA 1117	Days Shut-In	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA --	
Flowing Pressure: P PSIG 121	+ 12 = PSIA 133		Working Pressure: Pw PSIG Calculated	+ 12 = PSIA 177	
Temperature: T = 53 °F	n = .85		Fpv (From Tables) 1.015	Gravity .680	Fg = 0.9393

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

$$Q = 12.365(133)(1.0068)(0.9393)(1.015) = \underline{1570} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{1247689}{1216360} \right)^n = 1570 (1.0258)^{.85} = 1570(1.0219)$$

$$Aof = \underline{1604} \text{ MCF/D}$$

Note: The well produced a light mist of water and distillate for the first 15 minutes then dry gas throughout the remainder of the test.

TESTED BY Carl Rhames

WITNESSED BY _____

J. E. McEnally
Well Test Engineer

