

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE January 2, 1975

Operator El Paso Natural Gas Company		Lease San Juan 27-4 Unit #74	
Location 810/S, 1125/E, Sec. 17, T27N, R4W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool Tapacito	
Casing: Diameter 2.875	Set At: Feet 4241'	Tubing: Diameter No Tubing	Set At: Feet --
Pay Zone: From 4062'	To 4114'	Total Depth: PBD 4241' 4230'	Shut In 12-12-74
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 785	+ 12 = PSIA 797	Days Shut-In 21	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA --	
Flowing Pressure: P PSIG 38	+ 12 = PSIA 50		Working Pressure: Pw PSIG Calculated	+ 12 = PSIA 67	
Temperature: T = 54 °F	n = Ft = 1.0058 .85		Fpv (From Tables) 1.004	Gravity .680	Fg = 0.9393

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

$$Q = 12.365(50)(1.0058)(0.9393)(1.004) = \underline{\quad 586 \quad} \text{ MCF/D}$$

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

$$Aof = Q \left( \frac{635209}{630720} \right)^n = 586(1.0071)^{.85} = 586(1.0060)$$

$$Aof = \underline{\quad 590 \quad} \text{ MCF/D}$$

Note: The well produced a light fog of water and distillate throughout the test.

TESTED BY D. Norton

WITNESSED BY \_\_\_\_\_

*Loren W. Fathergill*  
Well Test Engineer