

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE January 29, 1974

Operator El Paso Natural Gas Company		Lease San Juan 28-7 Unit #172 (CH)	
Location 1590/S, 1560/W, Sec. 16, T27N, R7W		County Rio Arriba	State New Mexico
Formation Chacra		Pool Undes	
Casing: Diameter 2.875	Set At: Feet 4179'	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 4016	To 4030	Total Depth: PBD 4207 4169	Shut In 1-22-74
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 990	+ 12 = PSIA 1002	Days Shut-In 7	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 45	+ 12 = PSIA 57	Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 76		
Temperature: T = 52 °F	n = F _t = 1.0078	F _p = .75	F _{pv} (From Tables) 1.004	Gravity .655	F _g = .9571

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

$$Q = 12.365(57)(1.0078)(.9571)(1.004) = \underline{683} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{1004004}{998228} \right)^n = 683(1.0058)^{.75} = 683(1.0043)$$

$$Aof = \underline{686} \text{ MCF/D}$$

Note: Well produced a light mist of water throughout test.

TESTED BY Rhames

WITNESSED BY _____

Loren W. Fothergill
Loren W. Fothergill
Well Test Engineer

