

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

Operator El Paso Natural Gas Company		Lease San Juan 27-5 Unit #179	
Location 1600/S, 1180/E, Sec. 17, T27N, R5W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool Tapacito	
Casing: Diameter 2.875	Set At: Feet 3369'	Tubing: Diameter No Tubing	Set At: Feet --
Pay Zone: From 3250	To 3270	Total Depth: PBD 3369' 3358'	Shut In 5-13-74
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 897	+ 12 = PSIA 909	Days Shut-In 9	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA --
Flowing Pressure: P PSIG 114	+ 12 = PSIA 126		Working Pressure: Pw PSIG Calculated	+ 12 = PSIA 161
Temperature: T = 60 °F F _t = 1.0000	n = .85		F _{pv} (From Tables) 1.0110	Gravity .655 F _g = .9571

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

$$Q = 12.365(126)(1.0000)(.9571)(1.0110) = \underline{\quad 1508 \quad} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{826281}{800360} \right)^n = 1508(1.0323)^{.85} = 1508(1.0275)$$

$$Aof = \underline{\quad 1549 \quad} \text{ MCF/D}$$

Note: The well produced a dry flow.

TESTED BY C. Rhames

WITNESSED BY _____

Loren W. Fothergill
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 Well Test Engineer

