

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATADATE July 6, 1973

Operator El Paso Natural Gas Company		Lease San Juan 27-5 Unit No. 152	
Location 1500'N, 1000'W, Section 16, T27N, R5W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool Tapacito	
Casing: Diameter 2-7/8	Set At: Feet 3508	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 3368	To 3408	Total Depth: 3508	Shut In 6-26-73
Stimulation Method SWF		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 795	+ 12 = PSIA 807	Days Shut-In 9	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 210	+ 12 = PSIA 222		Working Pressure: P <sub>w</sub> PSIG Calculated	+ 12 = PSIA 285	
Temperature: T = 74 °F	F <sub>t</sub> = .9868	n = .85	F <sub>pv</sub> (From Tables) 1.021	Gravity .655	F <sub>g</sub> = .9571

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

$$Q = (12.365)(222)(.9868)(.9571)(1.021) = \underline{2647} \text{ MCF/D}$$

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

NOTE: Well produced dry gas.

$$Aof = Q \left( \frac{651249}{570024} \right)^n = (2647)(1.1423)^{.85} = 2647 (1.1199)$$

$$Aof = \underline{2964} \text{ MCF/D}$$

TESTED BY T. D. Norton

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



*William D. Welch*  
William D. Welch, Well Test Engineer