

**EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA**

DATE August 24, 1973

Operator El Paso Natural Gas Company		Lease San Juan 27-5 Unit #161	
Location 800/N, 1500/W, Sec. 35 T-27-N R5W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool Tapacito	
Casing: Diameter 2.875	Set At: Feet 3472'	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 3360	To 3390'	Total Depth: 3472'	Shut In 8-7-73
Stimulation Method Sand Water Frac		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 362	+ 12 = PSIA 374	Days Shut-In 16	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 167	+ 12 = PSIA 179		Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 231	
Temperature: T = 61 °F	F _t = .9990	n = .85	F _{pv} (From Tables) 1.016	Gravity .655	F _g = .9571

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

$$Q = (12.365)(179)(.9990)(.9571)(1.016) = \underline{2150} \text{ MCF/D}$$

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

$$A_{of} = Q \left(\frac{139876}{86515} \right)^n = 2150(1.6168)^{.85} = 2150(1.5044)$$

$$A_{of} = \underline{3234} \text{ MCF/D}$$

Note: Well Produced a light mist
of water throughout the test.

TESTED BY B.J.B.

WITNESSED BY _____

William D. Webb
Well Test Engineer

