

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

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DATE 8/30/72

Operator El Paso Natural Gas Company		Lease San Juan 29-7 Unit #103	
Location 990/s, 1190/W, Sec. 31-T29N-R7W		County RA	State NM
Formation PC		Pool Undesignated	
Casing: Diameter 2.375	Set At: Feet 3404	Tubing: Diameter no tubing	Set At: Feet
Pay Zone: From 3302	To 3322	Total Depth: 3404	Shut In 8/23/72
Stimulation Method SWP		Flow Through Casing X	Flow Through Tubing

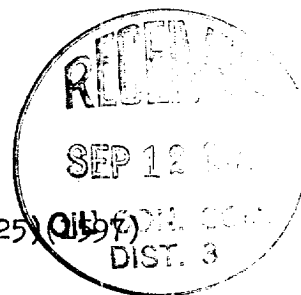
Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 1033	+ 12 = PSIA 1045	Days Shut-In 7	Shut-In Pressure, Tubing PSIG No tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 119	+ 12 = PSIA 131	Working Pressure: P <sub>w</sub> PSIG Calculated	+ 12 = PSIA 168		
Temperature: T = 61 °F	n = Ft = .9990	Fpv (From Tables) 1.011	Gravity .630	Fg = .9759	

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

$$Q = 12.365 \times 131 \times .9990 \times .9759 \times 1.011 = \underline{1597} \text{ MCF/D}$$

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

$$Aof = \left( \frac{1092025}{1063801} \right)^n = (1.0265)^{.85} (1597) = (1.0225) (1597) = \underline{1633} \text{ MCF/D}$$



NOTE: Well produced light mist of water throughout test.

$$Aof = \underline{1633} \text{ MCF/D}$$

TESTED BY Bobby J. Broughton

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

*J. A. Jones*  
J. A. Jones  
Well Test Engineer