

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE 9/27/72

Operator EL PASO NATURAL GAS COMPANY		Lease San Juan 28-7 Unit #161	
Location 1460/N, 1500/E, Sec. 16-T28N-R7W		County Rio Arriba	State NM
Formation Pictured Cliffs		Pool So. Blanco Ext.	
Casing: Diameter 2.375	Set At: Feet 3002	Tubing: Diameter no tubing	Set At: Feet
Pay Zone: From 2900	To 2946	Total Depth: 3002	Shut In 9/18/72
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 948	+ 12 = PSIA 960	Days Shut-In 9	Shut-In Pressure, Tubing PSIG no tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 43	+ 12 = PSIA 55	Working Pressure: P <sub>w</sub> PSIG calculated	+ 12 = PSIA 69		
Temperature: T = 59 °F	F <sub>t</sub> = 1.001	n = .85	F <sub>pv</sub> (From Tables) 1.003	Gravity .645	F <sub>g</sub> = .9645

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

$$Q = (12.365)(55)(1.001)(.9645)(1.003) = \underline{659} \text{ MCF/D}$$

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

$$Aof = \left( \frac{921\ 600}{916\ 839} \right)^n = (659)(1.0052)^{.85} = (659)(1.0044)$$

$$Aof = \underline{661} \text{ MCF/D}$$

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

TESTED BY B. J. Broughton

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

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

