

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE 12/20/72

Operator EL PASO NATURAL GAS COMPANY		Lease Canyon Largo Unit #167	
Location 1800/N, 1750/E, Sec. 3, T25N, R6W		County Rio Arriba	State NM
Formation Chacra		Pool Otero	
Casing: Diameter 2.875	Set At: Feet 3958	Tubing: Diameter No tubing	Set At: Feet
Pay Zone: From 3798	To 3910	Total Depth: 3958	Shut In 12/13/72
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 642	+ 12 = PSIA 654	Days Shut-In 7	Shut-In Pressure, Tubing PSIG No tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 79	+ 12 = PSIA 91	Working Pressure: P <sub>w</sub> PSIG Calculated	+ 12 = PSIA 120		
Temperature: T = 56 °F	n = Ft = 1.004	F <sub>pv</sub> (From Tables) 1.009	Gravity .660	F <sub>g</sub> = .9535	

CHOKE VOLUME = Q = C x P<sub>i</sub> x F<sub>i</sub> x F<sub>g</sub> x F<sub>pv</sub>

$$Q = (12.365)(91)(1.004)(.9535)(1.009) = 1087 \text{ MCF/D}$$

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

$$A_{of} = Q \left( \frac{427716}{413316} \right)^n = 1087 (1.0348)^{.75} = 1087 (1.0260)$$

$$A_{of} = 1115 \text{ MCF/D}$$

NOTE: Well produced a light fog of distillate and water.

TESTED BY D. Norton

WITNESSED BY

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