

OCC

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE 12/29/72

Operator EL PASO NATURAL GAS COMPANY		Lease Mudge #39	
Location 1815/N, 1650/W. Sec.10, T31N, R11W		County San Juan	State NM
Formation Pictured Cliffs <i>Eyt.</i>		Pool Blanco	
Casing: Diameter 2.875	Set At: Feet 2940	Tubing: Diameter No tubing	Set At: Feet
Pay Zone: From 2794	To 2850	Total Depth: 2940	Shut In 12/21/72
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 909	+ 12 = PSIA 921	Days Shut-In 8	Shut-In Pressure, Tubing PSIG No tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 213	+ 12 = PSIA 225	Working Pressure: P <sub>w</sub> PSIG Calculated	+ 12 = PSIA 280		
Temperature: T = 65 °F	Ft = .9952	n = .85	Fpv (From Tables) 1.019	Gravity .635	Fg = .9721

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

$$Q = (12.365)(225)(.9952)(.9721)(1.019) = \underline{2743} \text{ MCF/D}$$

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

$$Aof = Q \left( \frac{848241}{769841} \right)^n = 2743 (1.1018)^{.85} = 2743 (1.0859)$$

$$Aof = \underline{2978} \text{ MCF/D}$$

NOTE: The well produced a very light spray of water and distillate throughout test.

TESTED BY J. Jones

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

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

