

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATADATE 10/12/72

Operator EL PASO NATURAL GAS COMPANY		Lease Mudge #41	
Location 800/S, 800/W, Sec. 11-T31N-R11W		County San Juan	State NM
Formation Pictured Cliffs <i>Ext</i>		Pool Blanco	
Casing: Diameter 2.875	Set At: Feet 2847	Tubing: Diameter no tubing	Set At: Feet
Pay Zone: From 2690	To 2750	Total Depth: 2847	Shut In 10/5/72
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 932	+ 12 = PSIA 944	Days Shut-In 7	Shut-In Pressure, Tubing PSIG No tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 195	+ 12 = PSIA 207	Working Pressure: Pw PSIG Calculated	+ 12 = PSIA 256		
Temperature: T = 68 °F	Ft = .9924	n =	Fpv (From Tables) 1.018	Gravity .635	Fg = .9721

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

$$Q = (12.365)(207)(.9924)(.9721)(1.018) = \underline{2514} \text{ MCF/D}$$

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

$$Aof = \left( \frac{891 \ 136}{825 \ 600} \right)^n = (2514)(1.0794)^{.85} = (2514)(1.0671)$$

$$Aof = \underline{2682} \text{ MCF/D}$$

NOTE: Well produced light mist of water through out test.

TESTED BY B. J. Broughton

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

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

