

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 10/12/72

Operator EL PASO NATURAL GAS COMPANY		Lease Mudge #38	
Location 1010/N, 1840/E, Sec. 10-T31N-R11W		County San Juan	State NM
Formation Pictured Cliffs <i>Ext.</i>		Pool Blanco	
Casing: Diameter 2.875	Set At: Feet 2836	Tubing: Diameter No tubing	Set At: Feet
Pay Zone: From 2664	To 2730	Total Depth: 2836	Shut In 10/4/72
Stimulation Method SWF		Flow Through Casing XXX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 936	+ 12 = PSIA 948	Days Shut-In 8	Shut-In Pressure, Tubing PSIG No tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 206	+ 12 = PSIA 218	Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 269		
Temperature: T = 69 °F	n = .85	F _{pv} (From Tables) 1.018	Gravity .635	F _g = .9721	

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

$$Q = (12.365)(218)(.9915)(.9721)(1.018) = \underline{2645} \text{ MCF/D}$$

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

$$Aof = \left(\frac{898 \ 704}{826 \ 343} \right)^n = (2645)(1.0876)^{.85} = (2645)(1.0740)$$

$$Aof = \underline{2840} \text{ MCF/D}$$

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

TESTED BY B. J. Broughton

WITNESSED BY _____

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

