

CORRECTED COPY

FORM 23-75 (12-66)

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATADATE 1/5/73

Operator EL PASO NATURAL GAS COMPANY		Lease Vaughn #22 (PC)	
Location 1550/N, 1740/E, Sec. 29, T26N, R6W		County Rio Arriba	State NM
Formation Pictured Cliffs		Pool So. Blanco	
Casing: Diameter 2.875	Set At: Feet 3073	Tubing: Diameter No tubing	Set At: Feet
Pay Zone: From 2938	To 2990	Total Depth: 3988	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 819	+ 12 = PSIA 831	Days Shut-In 23	Shut-In Pressure, Tubing PSIG no tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 40	+ 12 = PSIA 52	Working Pressure: P <sub>w</sub> PSIG Calculated	+ 12 = PSIA 65		
Temperature: T = 54 °F	F <sub>t</sub> = 1.006	n = .85	F <sub>pv</sub> (From Tables) 1.004	Gravity .675	F <sub>g</sub> = .9427

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

$$Q = (12.365)(52)(1.006)(.9427)(1.004) = \underline{612} \text{ MCF/D}$$

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

$$Aof = Q \left( \frac{690561}{686336} \right)^n = 612 (1.006)^{.85} = 612 (1.0052)$$


$$Aof = \underline{615} \text{ MCF/D}$$

NOTE: The well produced a very fine mist of water throughout test.

TESTED BY B. Broughton

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

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William D Welch  
 William D. Welch  
 Well Test Engineer