

OCC

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 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 South Blanco	
Casing: Diameter 2.875	Set At: Feet 3988	Tubing: Diameter No tubing	Set At: Feet
Pay Zone: From 2938	To 2990	Total Depth: 3988	Shut In 12/13/72
Stimulation Method SWP		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	+ 12 = PSIA	
Flowing Pressure: P PSIG 40	+ 12 = PSIA 52	Working Pressure: Pw PSIG	+ 12 = PSIA		
Temperature: T = 54 °F	n = .85	Fpv (From Tables) 1.004	Gravity .675	Fg = .9427	

$$\text{CHOKE VOLUME} = Q = C \times P_f \times F_t \times F_g \times F_{pv}$$

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

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

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

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

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

TESTED BY B. Broughton

WITNESSED BY _____

William D. Welch
William D. Welch
Well Test Engineer

