

OCC

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE 1/5/73

Operator EL PASO NATURAL GAS COMPANY		Lease Vaughn #20 (PC)	
Location 1190/S, 890/W, Sec. 27-T26N, R6W		County Rio Arriba	State NM
Formation Pictured Cliffs		Pool South Blanco	
Casing: Diameter 2.875	Set At: Feet 2659	Tubing: Diameter No tubing	Set At: Feet
Pay Zone: From 2514	To 2584	Total Depth: 2659	Shut In 12/9/72
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 904	+ 12 = PSIA 916	Days Shut-In 27	Shut-In Pressure, Tubing PSIG No tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 319	+ 12 = PSIA 331		Working Pressure: P <sub>w</sub> PSIG Calculated	+ 12 = PSIA 408	
Temperature: T = 60 °F      F <sub>t</sub> = 1.000	n = .85		F <sub>pv</sub> (From Tables) 1.035	Gravity .675	F <sub>g</sub> = .9427

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

$$Q = (12.365)(331)(1.000)(.9427)(1.035) = \underline{3993} \text{ MCF/D}$$

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

$$Aof = Q \left( \frac{839056}{672592} \right)^n = 3993 (1.2475)^{.85} = 3993 (1.2068)$$

$$Aof = \underline{4819} \text{ MCF/D}$$

NOTE: Well blew dry gas throughout test.

TESTED BY R. Hardy

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

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

