

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE 1/5/73

Operator EL PASO NATURAL GAS COMPANY		Lease Vaughn #18 (PC)	
Location 1090/N, 990/W, Sec. 29, T26N, R6W		County Rio Arriba	State NM
Formation Pictured Cliffs		Pool South Blanco	
Casing: Diameter 2.875	Set At: Feet 3077	Tubing: Diameter No tubing	Set At: Feet
Pay Zone: From 2980	To 2995	Total Depth: 3982	Shut In 12/15/72
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 710	+ 12 = PSIA 722	Days Shut-In 21	Shut-In Pressure, Tubing PSIG No tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 115	+ 12 = PSIA 127		Working Pressure: Pw PSIG Calculated	+ 12 = PSIA 160	
Temperature: T = 60 °F	Ft = 1.000	n = .85	Fpv (From Tables) 1.012	Gravity .675	Fg = .9427

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

$$Q = (12.365)(127)(1.000)(.9427)(1.012) = \underline{1498} \text{ MCF/D}$$

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

$$Aof = Q \left( \frac{521284}{495684} \right)^n = (1498)(1.0516)^{.85} = (1498)(1.0437) = \underline{1564} \text{ MCF/D}$$

$$Aof = \underline{1564} \text{ MCF/D}$$

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

TESTED BY J. Jones

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

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

