

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

Operator EL PASO NATURAL GAS COMPANY		Lease Vaughn #19 (CH)	
Location 1500/N, 1800/E, Sec. 27, T26N, R6W		County Rio Arriba	State NM
Formation Chacra <i>Egt.</i>		Pool <del>Undesignated</del> <i>Attero</i>	
Casing: Diameter 2.875	Set At: Feet 4028	Tubing: Diameter No tubing	Set At: Feet
Pay Zone: From 3872	To 3888	Total Depth: 4028	Shut In 12/21/72
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 952	+ 12 = PSIA 964	Days Shut-In 15	Shut-In Pressure, Tubing PSIG No tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 48	+ 12 = PSIA 60	Working Pressure: Pw PSIG Calculated	+ 12 = PSIA 79		
Temperature: T = 56 °F	Ft = 1.004	n = .75	Fpv (From Tables) 1.004	Gravity .655	Fg = .9571

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

$$Q = (12.365)(60)(1.004)(.9571)(1.004) = \underline{716} \text{ MCF/D}$$

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

$$Aof = Q \left( \frac{929296}{923055} \right)^n = (716)(1.0068)^{.75} = (716)(1.0051)$$

$$Aof = \underline{719} \text{ MCF/D}$$

NOTE: Well produced a very light mist of distillate throughout test.

TESTED BY C. Rhames

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

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

