

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE 9/21/72

Operator EL PASO NATURAL GAS COMPANY		Lease Vaughn #21	
Location 800/S, 1460/E, Sec. 26-T26N-R6W		County Rio Arriba	State NM
Formation Chacra <i>Ext.</i>		Pool Undesignated <i>Altera</i>	
Casing: Diameter 2.375	Set At: Feet 3959	Tubing: Diameter no tubing	Set At: Feet
Pay Zone: From 3776	To 3882	Total Depth: 3959	Shut In 9/12/72
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 870	+ 12 = PSIA 882	Days Shut-In 9	Shut-In Pressure, Tubing PSIG no tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 93	+ 12 = PSIA 105	Working Pressure: Pw PSIG calculated	+ 12 = PSIA 138		
Temperature: T = 58 °F	Ft = 1.002	n = .75	Fpv (From Tables) 1.009	Gravity .655	Fg = .9571

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

$$Q = (12.365)(105)(1.002)(.9571)(1.009) = 1256 \text{ MCF/D}$$

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

$$Aof = \left(\frac{777.924}{758.880} \right)^n = (1256)(1.0251)^{.75} = (1256)(1.0188) = 1280 \text{ MCF/D}$$

$$Aof = 1280 \text{ MCF/D}$$

NOTE: Well blew dry gas throughout test.

TESTED BY Roger Hardy

WITNESSED BY _____

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

