

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE August 8, 1969

Operator El Paso Natural Gas Company		Lease Klein A No. 3	
Location 900N, 1180E, 331-126N-R6W		County Rio Arriba	State New Mexico
Formation Chacra		Pool Otero	
Casing: Diameter 2.375	Set At: Feet 3329	Tubing: Diameter No tubing	Set At: Feet ----
Pay Zone: From 3188	To 3294	Total Depth: 3329	Shut In 7-28-69
Stimulation Method Sand Water Proc		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches 0.750		Choke Constant: C 12.365		Tubingless completion	
Shut-In Pressure, Casing, PSIG 812	+ 12 = PSIA 824	Days Shut-In 11	Shut-In Pressure, Tubing PSIG No tubing	+ 12 = PSIA ----	
Flowing Pressure: P PSIG 67	+ 12 = PSIA 79		Working Pressure: Pw PSIG Calculated	+ 12 = PSIA 100	
Temperature: T = 62 °F	Ft = .9981	n = 0.75	Fpv (From Tables) 1.009	Gravity .650	Fg = .9608

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

$$Q = 12.365 \times 79 \times .9981 \times 1.009 \times .9608 = \underline{945} \text{ MCF/D}$$

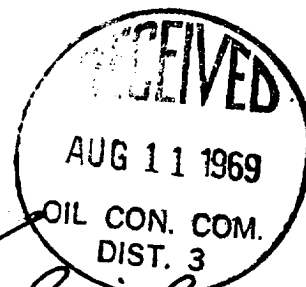
$$\text{OPEN FLOW} = Aof = Q \left(\frac{P_c^2}{P_c^2 - P_w^2} \right)^n$$

$$Aof = \left(\frac{678976}{668883} \right)^n = (1.0150)^{.75} 945 = 1.0111 (945)$$

Note: Well blew light fog of water throughout test.

$$Aof = \underline{955} \text{ MCF/D}$$

TESTED BY BJB
 Calculated
 WITNESSED BY RES



H. L. Kendrick
 H. L. Kendrick