

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE December 3, 1968

Operator El Paso Natural Gas Company		Lease Rincon Unit No. 146	
Location 1620'N, 1550'E, Sec. 23, T-27-N, R-6-W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7300	Tubing: Diameter 2.375	Set At: Feet 7500
Pay Zone: From 7536	To 7748	Total Depth: 7800	Shut In 11-10-68
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .750		Choke Constant: C 12.365	
Shut-In Pressure, Casing, PSIG 2594	+ 12 = PSIA 2606	Days Shut-In 23	Shut-In Pressure, Tubing PSIG 2572
Flowing Pressure: P PSIG 308	+ 12 = PSIA 320	Working Pressure: Pw PSIG 1137	+ 12 = PSIA 1149
Temperature: T = 76 °F	n = .75	Fpv (From Tables) 1.033	Gravity .700
Ft = .9850	Fg = .9258		

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

$$Q = (12.365)(320)(.9850)(.9258)(1.033) = 3727 \text{ MCF/D}$$

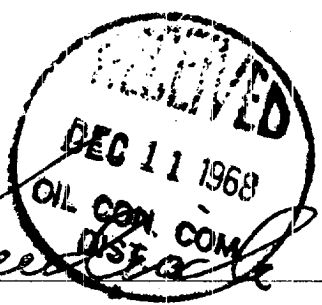
$$\text{OPEN FLOW} = Aof = Q \left(\frac{P_c^2}{P_c^2 - P_w^2} \right)^n$$

$$Aof = \left(\frac{6791236}{5471035} \right)^n = (3727)(1.243)^{.75} = (1.1770)(3729)$$

Note: Well blew a heavy spray of water and distillates throughout the test.

$$Aof = 4389 \text{ MCF/D}$$

TESTED BY D. R. Roberts

Checked
WITNESSED BY R. E. Stauffer


H. L. Kendrick