

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE September 14, 1967

Operator El Paso Natural Gas Company		Lease San Juan 28-5 Unit No. 45	
Location 1500'N, 1840'E, Sec. 36, T-28-N, R-5-W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 8104	Tubing: Diameter 2.375	Set At: Feet 7863
Pay Zone: From 7886	To 8072	Total Depth: 8104	Shut In 9-7-67
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 2539	+ 12 = PSIA 2551	Days Shut-In 7	Shut-In Pressure, Tubing PSIG 2537	+ 12 = PSIA 2549	
Flowing Pressure: P PSIG 204	+ 12 = PSIA 216		Working Pressure: Pw PSIG 768	+ 12 = PSIA 780	
Temperature: T = 75 °F	n = .75		Fpv (From Tables) 1.026	Gravity .750	Fg = .8944

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

$$Q = (12.365)(216)(.9859)(.8944)(1.026) = \underline{2416} \text{ MCF/D}$$

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

$$Aof = \left(\frac{6507601}{5899201} \right)^n = (2416)(1.1031)^{.75} = (2416)(1.0764)$$

NOTE: Blew light to medium fog of water and dist. entire test

$$Aof = \underline{2601} \text{ MCF/D}$$

TESTED BY J. B. GoodwinCHECKED
WITNESSED BY H. E. McAnally

H. L. Kendrick
H. L. Kendrick