

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE July 31, 1969

Operator El Paso Natural Gas Company		Lease San Juan 27-5 Unit No. 40	
Location 1840 S, 800 W, S16-T27N-R5W		County Rio Arriba	State New Mexico
Formation Basin		Pool Dakota	
Casing: Diameter 4.500	Set At: Feet 7741	Tubing: Diameter 1.900	Set At: Feet 7680
Pay Zone: From 7464	To 7699	Total Depth: 7741	Shut In 7-15-69
Stimulation Method Sand Water Frac		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches 0.750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2587	+ 12 = PSIA 2599	Days Shut-In 16	Shut-In Pressure, Tubing PSIG 2612	+ 12 = PSIA 2624	
Flowing Pressure: P PSIG 390	+ 12 = PSIA 402		Working Pressure: P _w PSIG 719	+ 12 = PSIA 731	
Temperature: T = 88 °F	n = Ft = .9741		Fpv (From Tables) 1.034	Gravity .650	Fg = 9608

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

$$Q = 12.365 \times 402 \times .9741 \times 1.034 \times .9608 = 4810 \text{ MCF/D}$$

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

Note: Well blew medium spray of water and distillates

$$Aof = \left(\frac{6885376}{6351015} \right)^n = (1.0841)^{.75} 4810 = 1.0624 (4810)$$

$$Aof = 5110 \text{ MCF/D}$$



TESTED BY _____ DRR
 Calculated
 WITNESSED BY _____ RES

R. E. Stauffer
 R. E. Stauffer