

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE August 8, 1969

Operator El Paso Natural Gas Company		Lease San Juan 28-5 Unit No. 81	
Location 6008, 1010W, 226-124N-R5W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 8077	Tubing: Diameter 2.375	Set At: Feet 7000
Pay Zone: From 7304	To 8008	Total Depth: 8077	Shut In 7-08-69
Stimulation Method Sand Water Free		Flow Through Casing	Flow Through Tubing OK

Choke Size, Inches 0.750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2719	+ 12 = PSIA 2731	Days Shut-In 30	Shut-In Pressure, Tubing PSIG 2723	+ 12 = PSIA 2735	
Flowing Pressure: P _f PSIG 192	+ 12 = PSIA 204		Working Pressure: P _w PSIG 864	+ 12 = PSIA 876	
Temperature: T = 96 °F	n = 0.750		F _{pv} (From Tables) 1.013	Gravity .600	F _g = 1.000

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

$$Q = 12.365 (204) .9671 (1.013) 1.000 = 2471 \text{ MCF/D}$$

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

$$Aof = \left(\frac{7480225}{5712649} \right)^{.75} = (1.1143)^{.75} 2471 = 1.0345 \times 2471$$

Note: Well blew light spray of water and distillate throughout test.

$$Aof = 2680 \text{ MCF/D}$$

TESTED BY DER
Calculated
WITNESSED BY RES

H. L. Kendrick
H. L. Kendrick

