

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE 5-20-71

Operator El Paso Natural Gas Company		Lease San Juan 28-5 Unit No. 86	
Location 1450' S, 1190' W, S 23, T28N, R5W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 8489	Tubing: Diameter 1.990	Set At: Feet 8449
Pay Zone: From 8336	To 8446	Total Depth: 8489	Shut In 5-9-71
Stimulation Method S W F		Flow Through Casing XXX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2686	+ 12 = PSIA 2698	Days Shut-In 11	Shut-In Pressure, Tubing PSIG 2686	+ 12 = PSIA 2698	
Flowing Pressure: P PSIG 247	+ 12 = PSIA 259		Working Pressure: P _w PSIG 603	+ 12 = PSIA 615	
Temperature: T = 76 °F F _t = .9850	n = .75		F _{pv} (From Tables) 1.019	Gravity .600 F _g = 1.000	

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

$$Q = 12.365 \times 259 \times .9850 \times 1.000 \times 1.019 = \underline{3214} \text{ MCF/D}$$

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

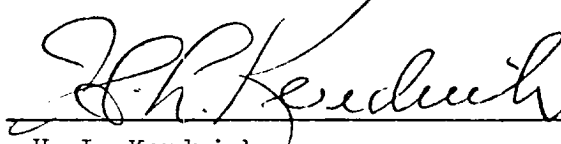
Note: Blew very heavy fog of water and light hydrocarbons for 3 hours.

$$Aof = \left(\frac{7279204}{6900979} \right)^n = (1.0548)^{.75} (3214) = (1.0408) (3214)$$

$$Aof = \underline{3345} \text{ MCF/D}$$

TESTED BY Jesse B. Goodwin

WITNESSED BY _____


H. L. Kendrick