

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE 3-25-72

Operator El Paso Natural Gas Co.		Lease San Juan 29-6 Unit No. 100	
Location 1840N, 1840E, S35, W29N, R6W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7328	Tubing: Diameter 1.500	Set At: Feet 7786
Pay Zone: From 7692	To 7606	Total Depth: 7098	Shut In 3-16-70
Stimulation Method SWP		Flow Through Casing 100	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2635	+ 12 = PSIA 2647	Days Shut-In 7	Shut-In Pressure, Tubing PSIG 2624	+ 12 = PSIA 2636	
Flowing Pressure: P PSIG 231	+ 12 = PSIA 233		Working Pressure: P _w PSIG 400	+ 12 = PSIA 411	
Temperature: T = 60 °F	F _t = .9924	n = .75	F _{pv} (From Tables) 1.021	Gravity .650	F _g = .9603

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

$$Q = 12.365 \times 233 \times .9924 \times .9603 \times 1.021 = \underline{2805} \text{ MCF/D}$$

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

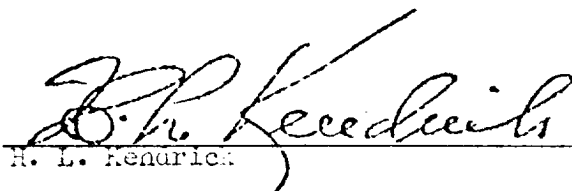
Note: Well blew a light spray of water distillates throughout the test.

$$Aof = \left(\frac{7006609}{6512120} \right)^n = (1.0285)^{.75} (2805) = (1.0213)(2805)$$

$$Aof = \underline{2865} \text{ MCF/D}$$

TESTED BY Dan Roberts

WITNESSED BY _____


R. L. Hendrick