

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE December 9, 1968

Operator El Paso Natural Gas Company		Lease Rincon Unit No. 187	
Location 1100'N, 850'E, Sec. 35, T-27-N, R-7-W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7642	Tubing: Diameter 2.375	Set At: Feet 7519
Pay Zone: From 7340	To 7576	Total Depth: 7650	Shut In 11-30-68
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing XX

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2608	+ 12 = PSIA 2620	Days Shut-In 9	Shut-In Pressure, Tubing PSIG 2595	+ 12 = PSIA 2607	
Flowing Pressure: P PSIG 121	+ 12 = PSIA 133		Working Pressure: P _w PSIG 782	+ 12 = PSIA 794	
Temperature: T=60 °F F _r =1.0000	n = .75		F _p v (From Tables) 1.013	Gravity .660 F _g = .9535	

$$\text{CHOKE VOLUME} = Q = C \times P_r \times F_r \times F_g \times F_{pv}$$

$$Q = (12.365)(133)(1.0000)(.9535)(1.013) = 1588 \text{ MCF/D}$$

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

$$Aof = \left(\frac{6864400}{6233964} \right)^n = (1588)(1.1011)^{.75} = (1588)(1.0748)$$

Note: The well produced a heavy fog of distillate and water throughout the test.

$$Aof = 1707 \text{ MCF/D}$$

TESTED BY J. B. Goodwin

Checked
WITNESSED BY R. E. Stauffer

H. L. Kendrick
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