

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 7-13-71

Operator El Paso Natural Gas Company		Lease San Juan 28-6 Unit No. 107	
Location 1150' S, 990' W, S 23, T28N, R6W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7856	Tubing: Diameter 1.990	Set At: Feet 7796
Pay Zone: From 7600	To 7812	Total Depth: 7856	Shut In 7-1-71
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, 2740	PSIG	+ 12 = PSIA 2752	Days Shut-In 12	Shut-In Pressure, Tubing 2732	PSIG
Flowing Pressure: P 448	PSIG	+ 12 = PSIA 460		Working Pressure: P _w 2390	PSIG
Temperature: T = 81 °F		n = .75		F _{pv} (From Tables) 1.035	Gravity .620 F _g = .9837

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

$$Q = 12.365 \times 460 \times .9804 \times .9837 \times 1.035 = 5678 \text{ MCF/D}$$

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

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

$$Aof = \left(\frac{7573504}{1803900} \right)^n = 5678(4.1984)^{.75} = 5678(2.9330)$$

$$Aof = 16654 \text{ MCF/D}$$

TESTED BY D. R. Roberts

WITNESSED BY



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