

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 7-15-71

Operator El Paso Natural Gas Company		Lease San Juan 27-5 Unit No. 125	
Location 1450' S, 1500' W, S 21, T27N, R5W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7728	Tubing: Diameter 1.990	Set At: Feet 7677
Pay Zone: From 7460	To 7692	Total Depth: 7728	Shut In 6-28-71
		Flow Through Casing XXX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 1700	+ 12 = PSIA 1712	Days Shut-In 17	Shut-In Pressure, Tubing PSIG 1760	+ 12 = PSIA 1772	
Flowing Pressure: P PSIG 360	+ 12 = PSIA 372		Working Pressure: P _w PSIG 592	+ 12 = PSIA 604	
Temperature: T = 69 °F	F _t = .9915	n = .75	F _{pv} (From Tables) 1.037	Gravity .655	F _g = .9571

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

$$Q = 12.365 \times 372 \times .9915 \times .9571 \times 1.037 = 4527 \text{ MCF/D}$$

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

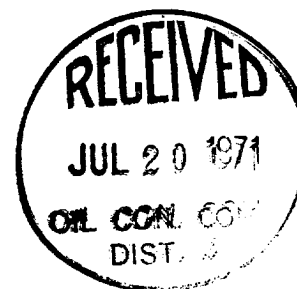
Note: Well blew light spray of water and distillate throughout test.

$$Aof = \left(\frac{3139984}{2775168} \right)^n = 4527(1.1314)^{.75} = 4527(1.0970)$$

$$Aof = 4966 \text{ MCF/D}$$

TESTED BY D. R. Roberts

WITNESSED BY



H. E. McAnally
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