

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE 6-29-71

Operator El Paso Natural Gas Company		Lease San Juan 27-5 Unit No. 127	
Location 1750' S, 900' W, S 25, T27N, R5W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7906	Tubing: Diameter 1.990	Set At: Feet 7854
Pay Zone: From 7641	To 7856	Total Depth: 7906	Shut In 6-15-71
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 2571	+ 12 = PSIA 2583	Days Shut-In 14	Shut-In Pressure, Tubing PSIG 2570	+ 12 = PSIA 2582	
Flowing Pressure: P PSIG 281	+ 12 = PSIA 293		Working Pressure: P _w PSIG 555	+ 12 = PSIA 567	
Temperature: T = 66 °F	n = .75		F _{pv} (From Tables) 1.028	Gravity .655	F _g = .9571

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

$$Q = 12.365 \times 293 \times .9571 \times .9943 \times 1.028 = 3544 \text{ MCF/D}$$

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

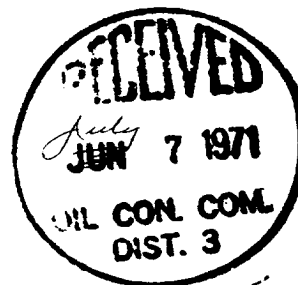
Note: Well blew heavy spray of water and distillate throughout test.

$$Aof = \left(\frac{6671889}{6350400} \right)^n = 3544(1.0506)^{.75} = 3544(1.0377)$$

$$Aof = 3678 \text{ MCF/D}$$

TESTED BY D. R. Roberts

WITNESSED BY _____



H. L. Kendrick
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