

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE 7-23-71

Operator El Paso Natural Gas Company		Lease San Juan 27-5 Unit No. 122	
Location 800' N, 900' E, S 21, T27N, R5W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7838	Tubing: Diameter 1.990	Set At: Feet 7774
Pay Zone: From 7542	To 7766	Total Depth: 7852	Shut In 7 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 2379	+ 12 = PSIA 2391	Days Shut-In 8	Shut-In Pressure, Tubing PSIG 2539	+ 12 = PSIA 2551	
Flowing Pressure: P PSIG 549	+ 12 = PSIA 561		Working Pressure: Pw PSIG 829	+ 12 = PSIA 841	
Temperature: T = 66 °F	n = Ft = .9943		Fpv (From Tables) 1.055	Gravity .655	Fg = .9571

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

$$Q = 12.365 \times 561 \times .9943 \times .9571 \times 1.055 = 6958 \text{ MCF/D}$$

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

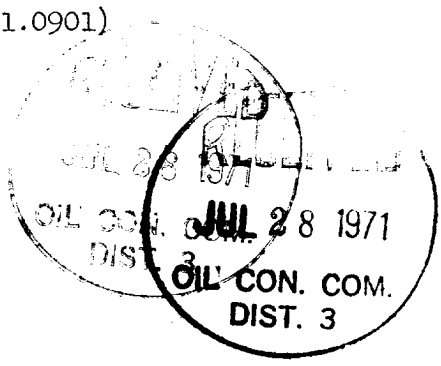
Note: Well blew heavy spray of water and distillate throughout test.

$$Aof = \left( \frac{6507601}{5800320} \right)^n = 6958(1.1219)^{.75} = 6958(1.0901)$$

$$Aof = 7585 \text{ MCF/D}$$

TESTED BY D. R. Roberts

WITNESSED BY


  
L. E. Mabe, Jr.