

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE November 22, 1971

Operator El Paso Natural Gas Company		Lease San Juan 29-6 Unit No. 8-Y	
Location 1460'/S, 800'/W, Sec 1, T29N, R6W		County Rio Arriba	State New Mexico
Formation Mesaverde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5968	Tubing: Diameter 2.375	Set At: Feet 5867
Pay Zone: From 5242	To 5886	Total Depth 5968	Shut In 11-5-71
Stimulation Method S W F		Flow Through Casing	Flow Through Tubing XX

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 870	+ 12 = PSIA 982	Days Shut-In 17	Shut-In Pressure, Tubing PSIG 935	+ 12 = PSIA 947	
Flowing Pressure: P 237	+ 12 = PSIA 249		Working Pressure: P _w PSIG 762	+ 12 = PSIA 774	
Temperature: T = 67°F	F _t = .9933	n = 0.75	F _{pv} (From Tables) 1.021	Gravity .635	F _g = .9721

$$\text{CHOKE VOLUME} = Q = C \times P_1 \times F_1 \times F_g \times F_{pv}$$

$$Q = (12.365)(249)(.9933)(.9721)(1.021) = 3035 \text{ MCF/D}$$

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

NOTE: Unloaded heavy fog of distillate and water in approximately 4 minutes.

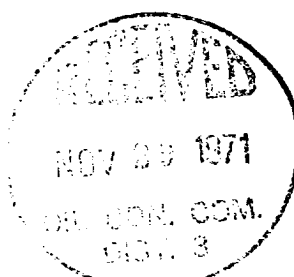
Light fog throughout test.

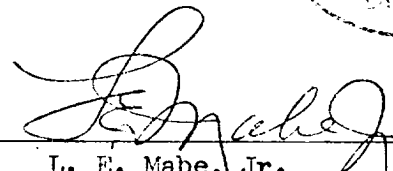
$$Aof = \left(\frac{896809}{297733} \right)^n = (3.0121)^{.75} (3035) = (2.2864)(3035) =$$

$$Aof = 6939 \text{ MCF/D}$$

TESTED BY Don Norton

WITNESSED BY





 L. E. Mabe, Jr.