

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE 7-24-70

Operator El Paso Natural Gas Co.		Lease San Juan 29-7 U. No. 76 Y	
Location 1480 S, 925 W, S 18, T29N, R7W		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 6060	Tubing: Diameter 2.375	Set At: Feet 5963
Pay Zone: From 5260	To 5966	Total Depth: 6060	Shut In 7-16-70
Stimulation Method SWF		Flow Through Casing	Flow Through Tubing XX

Choke Size, Inches .75		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 944	+ 12 = PSIA 956	Days Shut-In 8	Shut-In Pressure, Tubing PSIG 511	+ 12 = PSIA 523	
Flowing Pressure: P PSIG 321	+ 12 = PSIA 333	Working Pressure: P _w PSIG 791	+ 12 = PSIA 803		
Temperature: T = 69 °F	n = Ft = .9915	F _{pv} (From Tables) 1.038	Gravity 700	F _g = .9258	

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

$$Q = 12.365 \times 333 \times .9915 \times 1.038 \times .9258 = \underline{3923} \text{ MCF/D}$$

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

Note: well produced light to heavy liquid at start of test, light fog of water and distillate thereafter.

$$Aof = \left(\frac{913936}{269127} \right)^n = 3923 \times 3.3959^{.75} = 3923 \times 2.5016$$

$$Aof = \underline{9814} \text{ MCF/D}$$

TESTED BY B. J. Broughton
Calc.

WITNESSED BY R. E. Stauffer & R. E. Fielder



H. L. Kendrick
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