

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE **September 5, 1959**

Operator El Paso Natural Gas		Lease San Juan 28-6 No. 91	
Location 1460N, 1750W; 14-27-6		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool South Blanco	
Casing Diameter 5-1/2	Set At: Feet 3292	Tubing Diameter 1-1/4	Set At: Feet 3165
Pay Zone: From 3202	To 3260	Total Depth 3292 c/o 3270	Shut In: 8/13/59
Stimulation Method Sand Water Frac.		Flow Through Casing X	

Choke Size, inches .75		Choke Constant: C 12.365	
Shut-In Pressure, Casing, PSIG 1074	PSIG - 12 = PSIA 1086	Days Shut-In 21	Shut-In Pressure, Tubing, PSIG 1071
Flowing Pressure, P, PSIG 94	PSIG - 12 = PSIA 106		Working Pressure, Pw, PSIG 102
Temperature, T 61			Gravity 1.011
			Spv. From Tables .85

CHOKE VOLUME $Q = C \times P_r \times F \times F_o \times F_{pv}$

$$Q = 12.365 \times 106 \times .9990 \times .9258 \times 1.011 = 1226 \text{ MCF D}$$

OPEN FLOW $A_{of} = Q \left(\frac{P_r^2}{P_c^2 - P_w^2} \right)^n$

$$A_{of} = \left(\frac{1179396}{1166400} \right)^n \quad 1.0111^{.85} \times 1226 = 1.0094 \times 1226$$

$$A_{of} = 1238 \text{ MCF D}$$

TESTED BY **Frank M. Clark**

WITNESSED BY

Checked By **T. B. Grant**



Lewis D. Galloway
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