

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE **October 11, 1960**

Operator EL PASO NATURAL GAS COMPANY		Lease San Juan 28-7 No. 119	
Location 1159'N, 1650'W 22-27N-7W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool South Blanco P.C.	
Casing: Diameter 2-1/2"	Set At: Feet 3168	Tubing: Diameter No Tubing	Set At: Feet ----
Pay Zone: From 3058	To 3096	Total Depth: 3169 c/o 3143	Shut In 9-2-60
Stimulation Method Sand/Water Frac.		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches 0.75"		Choke Constant: C 12.365		"Slim Hole"	
Shut-In Pressure, Casing, PSIG 976	12 PSIA	Days Shut-In 39	Shut-In Pressure, Tubing, PSIG ---	12 PSIA	
Flowing Pressure: P, PSIG 297	12 PSIA	Working Pressure: P _w , PSIG Calc. 393	12 PSIA		
Temperature: T, F 64	F _t , .9962	F _p , 0.85	F _p (From Tables) 1.030	Gravit., F _g .650	.9608

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

$$Q = (12.365)(309)(.9962)(.9608)(1.030) = 3767 \text{ MCF/D}$$

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

$$Aof = \left(\frac{976,144}{821,695} \right)^n (1.1879)^{.88} (3767) = (1.1577)(3767)$$

Aof **4361** MCF/D



TESTED BY **Jesse B. Goodwin**
Calculated ~~by~~ **R. L. Nickell, Jr.**

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