

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE **September 27, 1961**

Operator El Paso Natural Gas Company	Lease San Juan 28-7 No. 114
Location 990'S, 2250'W, Sec. 22-28N-7W	County Rio Arriba State New Mexico
Formation Pictured Cliffs	Pool So. Blanco PC
Casing Diameter 2-7/8" O.D. Set At Feet 3544	Tubing Diameter No tubing Set At Feet ----
Play Zone: From 3481 To 3518	Total Depth 3546 c/o 3538 Shut In 9-1-61
Stimulation Method Sand/Water Frac.	Flow Through Casing X Flow Through Tubing

Choke Size, Inches 0.750"	Choke Constant, C 12.365	"Tubingless Completion"
Shut-In Pressure, Casing, PSIG 965	PSIG 977 Days Shut In 26	Shut-In Pressure, Tubing, PSIG ----
Flowing Pressure, P, PSIG 90	PSIG 102	Working Pressure, Pw, PSIG 132
Temperature: T 61 °F	n .9990 0.85	Flow (From Tables) 1.009 Gravity est. 0.650 Fg = .9608

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

$$Q = (12.365)(102)(.9990)(.9608)(1.009)$$

1221

MCF/D

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

$$Aof = \left(\frac{954,529}{937,105} \right)^n$$

$$(1.0185)^{.85}(1221) = (1.0157)(1221)$$

Aof 1240

MCF/D

TESTED BY **R. L. Nickell, Jr.**

WITNESSED BY

Checked by: **T. B. Grant**

Lewis D. Galloway
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