

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE August 17, 1961

Operator El Paso Natural Gas Company		Lease San Juan 28-7 No. 121	
Location 1550'N, 810'W, Sec. 15-27N-7W		County Rio Arriba	State New Mexico
Format as Pictured Cliffs		Pool South Blanco	
Casing Diameter 2-7/8" O.D.	Set At: Feet 3295	Tubing: Diameter No Tubing	Set At: Feet ----
Pay Zone: From 3187	To 3248	Total Depth: 3304 C/O 3289	Shut In 7-22-61
Simulation Method Sand/Water Frac.		Flow Through Casing X	Flow Through Tubing

Choke Size, inches .750		Choke Constant: C 12.365		"Tubingless Completion"	
Shut-In Pressure, Casing, 881	PSIG + 12 - PSIA 893	Days Shut-In 26	Shut-In Pressure, Tubing No Tubing	PSIG + 12 - PSIA ----	
Flowing Pressure: P 313	PSIG + 12 - PSIA 325		Working Pressure: P _w (Calc.)	PSIG + 12 - PSIA 416	
Temperature 69 F	Fr .9915 .85		F _{pv} (From Tables) 1.027	Gravity .624	F _g = .9837

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

$$Q = (12.365)(325)(.9915)(.9837)(1.027) \quad 4025 \quad \text{MCF/D}$$

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

$$\text{Aof} \left(\frac{797,449}{624,393} \right)^n \quad (1.2771)^{.85}(4025) = (1.2312)(4025)$$

Aof **4956** MCF/D



TESTED BY **Don Mortensen**

WITNESSED BY

Calculated by: W. D. Dawson

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