

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE **August 6, 1959**

Operator El Paso Natural Gas		Lease Russell No. 5	
Location 1550N, 1550E; 25-28-8		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 7-5/8	Set At: Feet 3024	Tubing: Diameter 2"	Set At: Feet 5151
Pay Zone: From 4578	To 5172	Total Depth: 5270 c/o 5227	Shut In: 7/27/59
Stimulation Method Sand Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .75	Choke Constant: C 12.365	5-1/2 liner 2963-5266
Shut-In Pressure, Casing, PSIG 1058	- 12 - PSIA 1070	Days Shut-In 10
Shut-In Pressure, Tubing, PSIG 1058	- 12 - PSIA 1070	Working Pressure: P _w , PSIG 774
Flowing Pressure: P, PSIG 309	- 12 - PSIA 321	Gravity .695
Temperature: T, F 68	n = .75	Fpv (From Tables) 1.035

CHOKE VOLUME = Q = C x P_i x F_i x F_g x F_{pv}

Q = 12.365 x 321 x .9924 x .9292 x 1.035 = 3788 MCF/D

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

Aof = $\left(\frac{1144900}{527104} \right)^{.75} = 2.1720 \times 3788 = 1.7890 \times 3788$

Aof = 6777 MCF/D



TESTED BY Don Mortensen

WITNESSED BY _____

Checked By H. L. Kendrick

H. L. Kendrick
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Gas Engineer

OIL CONSERVATION COMMISSION
AZTEC DISTRICT OFFICE

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