

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE August 18, 1959

Operator El Paso Natural Gas Company		Lease San Juan 28-7 No. 104 (M)	
Location 8008, 1150W; 3-27-7		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 7-5/8	Set At: Feet 3506	Tubing: Diameter 2"	Set At: Feet 5566
Pay Zone: From 5526	To 5670	Total Depth: c/o 5696	Shut in 8/6/59
Stimulation Method Sand Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .75		Choke Constant: C 12.365	
Shut-In Pressure, Casing, PSIG 968 (PC)	- 12 = PSIA 980	Days Shut-In 12	Shut-In Pressure, Tubing PSIG 999 (MV)
Flowing Pressure: P PSIG 170	- 12 = PSIA 182	Working Pressure: P _w PSIG Calc.	- 12 = PSIA 364
Temperature: T °F 59	n .75	Fpv (From Tables) 1.020	Gravity .677

CHOKE VOLUME = $Q = C \times P_c \times F_p \times F_g \times F_{pv}$

$$Q = 12.365 \times 182 \times 1.0010 \times .9427 \times 1.020 = 2166 \text{ MCF/D}$$

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

$$Aof \left(\frac{1022121}{889625} \right)^n = 1.1489^{.75} \times 2166 = 1.1096 \times 2166$$

$$Aof = 2403 \text{ MCF D}$$

TESTED BY S. V. RobertsWITNESSED BY Mr. Tom Smith, N.M.O.C.C.

L. D. Galloway
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By TBG