

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE **January 15, 1963**

Operator El Paso Natural Gas Company	Lease San Juan Unit 28-5 No. 54
Location 1060'S, 800'W, Sec. 20-28-5	County Rio Arriba State New Mexico
Formation Dakota	Pool Basin
Casing Diameter 4.500 Set At Feet 7967	Tubing Diameter 2.375 Set At Feet 7865
Pay Zone: From 7718 To 7882	Total Depth: 7969 Shut In 12-30-62
Stimulation Method Sand/Water Frac.	Flow Through Casing X Flow Through Tubing

Choke Size, inches .75	Choke Constant: C 12.365
Shut-In Pressure, Casing, PSIG 2612	PSIG - 12 - PSIA 2624 Days Shut-In 16
Flowing Pressure, P 305	PSIG - 12 - PSIA 317
Temperature 72	Gravity .610 Fg .9918
	Flow From Tables: 1.024

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

$$Q = (12.365)(317)(.9887)(.9918)(1.024) = 3936 \text{ MCF D}$$

OPEN FLOW $A = \left(\frac{P_r^2 - P_w^2}{P_r^2} \right)^n$

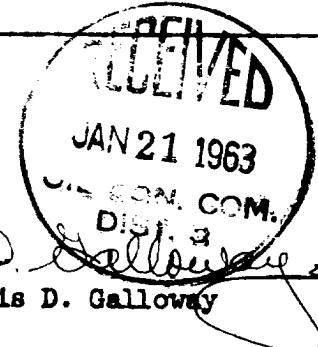
$$A = \left(\frac{6,974,881}{5,913,981} \right)^n (1.1793)^{.75} (3936) = (1.1318)(3936)$$

Aof **4455** MCF D

NOTE: Unloaded slug of muddy water after opening and then blew light spray of water and distillate for remainder of test.

R. F. Headrick

Checked by ~~W. D. Dawson~~ W. D. Dawson



Lewis D. Galloway