

OPEN FLOW TEST DATA

DATE **October 23, 1959**

Operator El Paso Natural Gas Products Co.		Lease Frontier 3-C	
Location 1800N, 890W; 5-27-11		County San Juan	State New Mexico
Formation Dakota		Pool Undesignated	
Casing Diameter 5-1/2	Set At Feet 6664	Tubing Diameter 2"	Set At Feet 6414
Pay Zone From 6368	To 6471	Total Depth 6664	Shut in: 10/11/59
Stimulation Method Sand Oil		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .75		Choke Constant, C 12.365	
Shut-In Pressure, Casing, PSIG 2041	12 - PSIA 2053	Days Shut-In 12	Shut-In Pressure, Tubing, PSIG 2053
Flowing Pressure, P, PSIG 341	12 - PSIA 353		Working Pressure, P _w , PSIG 896
Temperature, T, F 80	n .75		Gravity 1.040
			.720

CHOKE VOLUME $Q_c = C \times P_c \times F_v \times F_g \times F_{gv}$

$$Q_c = 12.365 \times 353 \times .9813 \times .9129 \times 1.040 = 4067 \text{ MCF/D}$$

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

$$Aof = \left(\frac{4264225}{3439761} \right)^n$$

$$1.2396^{.75} \times 4067 = 1.1748 \times 4067$$

$$Aof = 4778 \text{ MCF/D}$$

TESTED BY D. MortensenWITNESSED BY Kruger (EPNG Prod.)Checked By W. D. Davison

Lewis D. Galloway
L. D. Galloway

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