

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE January 5, 1960

Operator El Paso Natural Gas	Lease Storey No. 5-B
Location 800S, 1800E; 11-30-11	County San Juan State New Mexico
Formation Pictured Cliffs	Prod Artec
Casing Diameter 5-1/2 Set At: Feet 2431	Tubing: Diameter 2 Set At: Feet 2312
Flow Zones From 2336 To 2376	Total Depth: 2434 c/o 2390 Shut In 12/29/59
Stimulation Method Sand Water Frac.	Flow Through Casing X Flow Through Tubing X

Choke Size, Inches .75	Choke Constant, C 12.365	Days Shut-In 7
Shut-In Pressure, Casing, PSIG 580	PSIG - 12 - PSIA 592	Shut-In Pressure, Tubing, PSIG 580
Flowing Pressure: P, PSIG 208	PSIG - 12 - PSIA 220	Working Pressure: Pw, PSIG 360
Temperature 70	Gravity .9682	Fpv From Tables 1.019
.9905	.85	.642

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

$$Q = 12.365 \times 220 \times .9905 \times .9682 \times 1.019 = 2658 \text{ MCF/D}$$

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

$$Aof = \left(\frac{350464}{220864} \right)^n \times 1.5867^{.85} \times 2658 = 1.4810 \times 2658$$

$$Aof = 3936 \text{ MCF/D}$$



W. D. Dawson

Lewis D. Galloway
L. D. Galloway