

DUAL COMPLETION
EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE **August 2, 1956**

Operator El Paso Natural Gas Company		Lease Ludwick #9	
Location 10908, 939W, 29-30-10		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco Mesa Verde	
Casing Diameter 5 1/2" liner	Set At: Feet 4337-5109	Tubing Diameter 2"	Set At: Feet 4892
Pay Zone: Feet 4813	To 4930	Total Depth: 5107; c/o 4970	
Simulation Method Sand water frac		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .750		Choke Constant: C 14.1605	
Shut-In Pressure, Casing, PSIG 539 (PC)	PSIG - 12 - PSIA 551	Days Shut-In 13	Shut-In Pressure, Tubing, PSIG 973 (MV)
Flowing Pressure, Casing, PSIG 256	PSIG - 12 - PSIA 268		Working Pressure, Pw, PSIG Calculated
Temperature, F 80	F .75		Gravity .654
			Flow Through Tubing 1.022

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

$$= 14.1605 \times 268 \times .9813 \times .9608 \times 1.022 = 3657 \text{ MCF/D}$$

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

$$Aof = 1.4826 \times 3657 = 1.3435 \times 3657$$

Aof **4913** MCF/DTESTED BY **K. C. Mc Bride**WITNESSED BY **Fred Cook (NMOC)**

L. D. Galloway
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