

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE September 29, 1958

Operator El Paso Natural Gas Company		Lease Allison 17 (M)	
Location 16508, 1650W; 24-32-7		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 9-5/8	Set At: Feet 3613	Tubing: Diameter 2"	Set At: Feet 8006
Pay Zone: From 5704	To 5780	Total Depth: 8121 c/o 8106	Shut in 9/5/58
Stimulation Method Sand Water Frac.		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .75	Choke Constant: C 12.365	5-1/2 casing at 8101	Circ. sleeve 6433
Shut-In Pressure, Casing, PSIG 1049 (MV)	12 PSIA 1061	Days Shut-In 24	Packer 6467
Flowing Pressure: P 345	12 PSIA 357	Shut-In Pressure, Tubing, PSIG 2746 (D)	2758
Temperature: T 67	.75	Working Pressure: Pw, PSIG Calc.	375
		Fpv (From Tables) 1.029	Gravity .618

Initial SIPT (D) = 2746 PSIG

Final SIPT (D) = 2772 PSIG

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

$$Q = 12.365 \times 357 \times .9933 \times .9877 \times 1.029 = 4456 \text{ MCF/D}$$

$$\text{OPEN FLOW } A_{of} = Q \left(\frac{P_r^2}{P_w^2 - P_w} \right)^n$$

$$A_{of} = \left(\frac{1125721}{985096} \right)^n \quad 1.1427^{.75} (4456) = 1.1052 (4456)$$

$$A_{of} = 4925 \text{ MCF/D}$$

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WITNESSED BY _____

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