

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE May 28, 1957

Operator El Paso Natural Gas Company		Lease Heaton # 13	
Location 1750'S, 1650'E, Sec. 32-31-11		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Aztec	
Casing Diameter 5 1/2	Set At: Feet 2370	Tubing Diameter 1 1/4	Set At: Feet 2305
Pay Zone: From 2270	To 2310	Total Depth: c/o - 2320	
Stimulation Method Sand Water Frac		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365	
Shut-in Pressure, Casing 676	PSIG - 12 = PSIA 688	Days Shut-in 16	Shut-in Pressure, Tubing 676
Flowing Pressure: P 211	PSIG - 12 = PSIA 223	Working Pressure: P _w 215	PSIG - 12 = PSIA 227
Temperature: T 72	F _g = 0.85	F _{pv} (From Tables) 1.022	G _g = 0.673

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

$$Q = 12.365 \times 223 \times .9887 \times .9463 \times 1.022 = 2637 \text{ MCF/D}$$

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

$$A_{of} = \left(\frac{473,344}{421,815} \right)^n \cdot 1.122^{.85} \times 2637 = 1.1027 \times 2637$$

$$A_{of} = 2908 \text{ MCF/D}$$

TESTED BY S. V. Roberts

WITNESSED BY _____

L. D. Galloway
L. D. Galloway



OIL CONSERVATION COMMISSION

AZTEC DISTRICT OFFICE

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