

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE December 28, 1957

Operator San Juan Gas Corporation		Lease Federal No. 19-G	
Location NW 19-25-1		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool Undesignated	
Casing Diameter 5-1/2	Set At: Feet 3873	Tubing Diameter 2	Set At: Feet 3834
Pay Zone: From 3790	To 3855	Total Depth c/o 3860	
Stimulation Method Sand Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches 3/4		Choke Constant: C 12.365	
Shut-In Pressure, Casing, PSIG 870	12 - PSIA	Days Shut-In 16	Shut-In Pressure, Tubing, PSIG 869
Flowing Pressure: P, PSIG 56	12 - PSIA		Working Pressure: Pw, PSIG 353
Temperature: T, F 50			Fpv (From Tables) 1.010
			Gravity 695

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

$$Q = 12.365 \times 68 \times 1.0098 \times .9292 \times 1.010 = 797 \text{ MCF/D}$$

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

$$A_{of} = \left(\frac{777,924}{644,699} \right)^n \cdot 1.2066^{.85} \times 797 = 1.1721 \times 797$$

$$A_{of} = 934 \text{ MCF/D}$$

TESTED BY Jess GoodwinWITNESSED BY Floyd Ray, San Juan Gas Corp.

L. D. Galloway
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OIL CONSERVATION COMMISSION

AZTEC DISTRICT OFFICE

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