

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE July 17, 1957

Operator El Paso Natural Gas Company		Lease Bolack No. 1-D	
Location 1650'S, 990'E, Sec. 13-24-6		County Rio Arriba	State New Mexico
Format Pictured Cliffs		Pool Otero	
Casing: Diameter 5 1/2	Set At: Feet 2193	Tubing: Diameter 1 1/4	Set At: Feet 2176
Pay Zone: From 2110	To 2185	Total Depth: 2195 - c/o 2190	
Stimulation Method Sand Water Frac.		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches 0.75	Choke Constant: C 14.1605		
Shut-in Pressure, Casing: PSIG 711	PSIA 723	Days Shut-In 9	Shut-In Pressure, Tubing: PSIG 711
Flowing Pressure: P 19	PSIG 31		Working Pressure: Pw 21
Temperature: T 64	F .85		Grav .650
			Fpv (From Tables) 1.004

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

$$Q = 14.1605 \times 31 \times .9962 \times .9608 \times 1.004 = 422 \text{ MCF/D}$$

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

$$A_{of} = \left(\frac{522,729}{521,640} \right)^n \cdot 1.0020^{.85} \times 422 = 1.0017 \times 422$$

$$A_{of} = 423 \text{ MCF/D}$$

TESTED BY R. A. Ullrich

WITNESSED BY _____



L. D. Galloway
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OIL CONSERVATION COMMISSION

AZTEC DISTRICT OFFICE

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