

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE July 8, 1957

Operator El Paso Natural Gas Company		Lease Donnell No. 1	
Location 1650'N, 1010'W, Sec. 22-24-6		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool Undesignated	
Casing: Diameter 5 1/2	Set At: Feet 2356	Tubing: Diameter 1 1/4	Set At: Feet 2305
Pay Zone: From 2280	To 2324	Total Depth: 2365 - c/o 2334	
Stimulation Method Sand Water Frac.		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches 0.75	Choke Constant, C 12.365			
Shut-In Pressure, Casing, PSIG 447	12 - PSIA	Days Shut-In 13	Shut-In Pressure, Tubing, PSIG 447	12 - PSIA 459
Flowing Pressure, P, PSIG 32	12 - PSIA 44		Working Pressure, Pw, PSIG 58	12 - PSIA 70
Temperature, T, F 62	F _{in}		Fpv (From Tables) 1.004	Gravity .650

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

$$Q = 12.365 \times 44 \times .9981 \times .9608 \times 1.004 = 524 \text{ MCF D}$$

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

$$A_{of} = \left(\frac{210,681}{205,781} \right)^n \cdot 1.0238^{.85} \times 524 = 1.0202 \times 524$$

$$A_{of} = 535 \text{ MCF D}$$

TESTED BY R. A. Ullrich

WITNESSED BY _____



L. D. Galloway
L. D. Galloway

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