

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE **November 20, 1956**

Operator El Paso Natural Gas Company		Lease Ludwick #14	
Location 1650'N, 992'E, Sec. 6-29-10		County San Juan	State New Mexico
Formation Mesaverde		Pool Blanco	
Casing: Diameter 7"	Set At: Feet 4159	Tubing: Diameter 2"	Set At: Feet 4673
Pay Zone: Feet 4534	To 4672	Total Depth: 4810 c/o 4700	
Stimulation Material Sand Water Frac		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .750	Choke Constant: C 14.1605		5 1/2" Liner 4085-4808
Shut-In Pressure, Casing, PSIG 586 (PC)	+ 12 = PSIA 598	Days Shut-In 14	Shut-In Pressure, Tubing, PSIG 1025
Flowing Pressure: P, PSIG 210	+ 12 = PSIA 222		Working Pressure: Pw, PSIG Calculated
Temperature: T, °F 49	μ, cP .75		Ppv (From Tables) 1.023
			Gravity .642

CHOKE VOLUME $Q = C \times P_1 \times F_1 \times F_2 \times F_{pv}$

$$Q = 14.1605 \times 222 \times .9682 \times 1.0108 \times 1.023 = 3147$$

MCF/D

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

$$Q = \left(\frac{1,075,369}{855,408} \right)^n \quad (1.2571)^{.75} \times 3147 = 1.187$$

$$Q = 3735 \text{ MCF/D}$$

TESTED BY **K. C. McBride**

ANALYZED BY **E. C. Arnold (NMOCC)**

L. D. Galloway
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cc: E. J. Coel, Jr. (6)