

EL PASO NATURAL GAS COMPANY OPEN FLOW TEST DATA

DATE December 31, 1957

Operator El Paso Natural Gas Company		Howell No. 4-C	
Location 890'S, 890'W, Sec. 18-30-8		County San Juan	State New Mexico
Formation Mesa Verde		Blanco	
Casing Diameter 7-5/8	Set At Feet 3783	Tubing Diameter 2"	Set At Feet 5301
Pay Zone From 4788	To 5340	Total Depth 5364	
Stimulation Method Sand Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, inches .750	Choke Constant 12.365	5-1/2" liner. 3256 - 5360
Shut-In Pressure, Casing, PSIG 1023	12 PSIA 1035	Shut-In Pressure, Tubing, PSIG 1005
Flowing Pressure, P, PSIG 404	12 PSIA 416	Working Pressure, Pw, PSIG 896
Temperature, T 68	F .750	Flow From Tables, Gravity 1.040 .655

Medium fog to light fog entire test.

CHOKE VOLUME $Q = C \times P_1 \times F_1 \times F_2 \times F_3$

$$Q = 12.365 \times 416 \times .9924 \times .9571 \times 1.040$$

5081

MCF/D

OPEN FLOW $Aof = Q \left(\frac{P_1^2 - P_w^2}{P_1^2 - P_a^2} \right)^n$

$$Aof = \left(\frac{1,071,225}{246,761} \right)^n$$

$$4.3411^{.75} \times 5081 = 3.015 \times 5081$$

Aof 15,319 MCF/D



TESTED BY R. R. Davis

WITNESSED BY

L. D. Galloway
L. D. Galloway

AZTEC DISTRICT OFFICE

1. The first step is to identify the variables involved in the problem. In this case, the variables are the number of hours worked (H) and the number of hours of leisure (L). The total number of hours available is 24 hours per day.

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