

DUAL COMPLETION

EL PASO NATURAL GAS COMPANY OPEN FLOW TEST DATA

DATE **May 28, 1957**

Operator EL PASO NATURAL GAS COMPANY		Lease Dryden #3	
Location 990 S and 990 West 21-28-8		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Undes	
Casing: Diameter 7 5/8	Set At: Feet 2389	Tubing: Diameter 1 1/4	Set At: Feet 2252
Pay Zone: From 2192		Total Depth: 4635 c/o 4610 Packer @ 2453	
Stimulation Method Sand Water Frac		Flow Through Casing X	Flow Through Tubing

Choke Size, inches 0.75	Choke Constant: C 12.365	5 1/2" Liner @ 4633	
Shut-In Pressure, Casing, PSIG 869	PSIG - 12 = PSIA 881	Days Shut-In 24	Shut-In Pressure, Tubing, PSIG 869
Flowing Pressure: P, PSIG 80	PSIG - 12 = PSIA 92		Working Pressure: Pw, PSIG 82
Temperature: T 66			Gravity .650
			Flow Through Tubing 1.009

CHOKE VOLUME $Q_c = C \times P_c \times F_c \times F_g \times F_{gv}$

$Q_c = 12.365 \times 92 \times .9943 \times .9608 \times 1.009 = 1097$ MCF D

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

$$A_{of} = \left(\frac{776161}{767325} \right)^n \times 1.0115^{.85} \times 1097 \times 1.00975 \times 1097$$

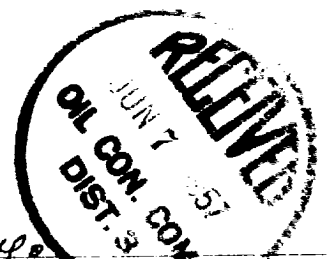
$A_{of} = 1108$ MCF D

TESTED BY **R. A. Ullrich**

WITNESSED BY

L. D. Galloway
L. D. Galloway

cc: E. J. Coel (6)



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