

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE June 8, 1960

Operator El Paso Natural Gas Company		Lease Howell No. 2-L (OWWO)	
Location 990N, 990E; 25-30N-8W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 7"	Set At: Feet 4700	Tubing: Diameter 2"	Set At: Feet 5339
Flow Zones: From 4860	To 5380	Total Depth 5438 c/o 5398	Shut In 5/20/60
Stimulation Method Sand Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .75	Choke Constant: C 12.365	5-1/2" liner 4590 - 5430	
Shut-In Pressure, Casing, PSIG 959	PSIA 971	Days Shut-In 19	Shut-In Pressure, Tubing, PSIG 963
Flowing Pressure, Casing, PSIG 375	PSIA 387	Working Pressure, Casing, PSIG 882	PSIA 894
Permeability, mD 70	Formation Volume Factor .9905	Flow From Tubing, bbl/D 1.036	Gravity .650
			Flow From Tubing, bbl/D .9608

$$\text{CHOKE COEFFICIENT } C = C \times P_c \times F_v \times F_g \times F_{pv}$$

$$C = 12.365 \times 387 \times .9905 \times .9608 \times 1.036$$

4718

MCF/D

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

$$Q = \left(\frac{950625 - 151389}{950625 - 151389} \right)^n$$

$$6.2793^{.75} \times 4718 = 3.960 \times 4718$$

Asst

18683

MCF/D

Checked By **Frank Clark**

Checked By

Checked By **W. D. Dawson**

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