

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE August 20, 1957

Operator El Paso Natural Gas		Lease Hardie No. 1-E	
Location 800'N, 1600'E, Sec. 16-28-8		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 7-5/8	Set At: Feet 3040	Tubing: Diameter 2	Set At: Feet 5206
Pay Zone: From 4880	To 5230	Total Depth: 5324 - c/o 5245	
Stimulation Method Sand Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches 0.75	Choke Constant: C 12.365	5-1/2" liner - 3002 to 5320	
Shut-In Pressure, Casing, PSIG 1026	PSIG 12 PSIA 1038	Days Shut-In 16	Shut-In Pressure, Tubing, PSIG 12 PSIA 1029 1041
Flowing Pressure: P, PSIG 12 PSIA 371	383	Working Pressure: P _w , PSIG 12 PSIA 848	860
Temperature: T, F 70	.75	Fpv (From Tables) 1.039	Gravity .675

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

$$C \ 12.365 \times 383 \times .9905 \times .9427 \times 1.039$$

4594

MCF D

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

$$A_{of} \left(\frac{1,083,681}{344,081} \right)^n \quad 3.1494^{.75} \times 4594 = 2.367 \times 4594$$

$$A_{of} \ 10,874 \quad \text{MCF D}$$

TESTED BY R. A. Ullrich

WITNESSED BY _____



L. D. Galloway
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