

EL PASO NATURAL GAS COMPANY OPEN FLOW TEST DATA

DUAL COMPLETION

DATE June 26, 1959

Operator El Paso Natural Gas		Lease Hancock No. 4 (P)	
Location 10908, 990W; 23-28-9		County San Juan	State New Mexico
Formation Pictured Cliffs		Age Aztec	
Casing Diameter 7-5/8	Set At: Feet 3387	Tubing Diameter 1-1/4	Set At: Feet 3232
Pay Zone: Feet 3244	3302	Total Depth 5736 c/o 5655	Shut In: 6/5/59
Stimulation Method Sand Water Frac.		Flow Through Tubing X	

Choke Size, Inches	Choke Constant, C		
.75	12.365	5-1/2 liner 3317 - 5716	
Shut-In Pressure, Choking, PSIG	PSIA	Days Shut-In	PSIG
761	773	10	773
Flowing Pressure, P PSIG	PSIA	Working Pressure, Pw PSIG	PSIA
248	260	266	278
Temperature, T		App. Frac. Temp. S	Gravity
60	.85	1.023	.638

Initial SIPT (MV) = 949 psig

Packer at 3401

Final SIPT (MV) = 947 psig

CHOKE VOLUME $Q = C \times P_c \times F_c \times F_g \times F_v$

$$Q = 12.365 \times 260 \times 1.000 \times .9721 \times 1.023 = 3197 \text{ MCF/D}$$

$$\text{OPEN FLOW } Q_{of} = C \left(\frac{P_c^2 - P_a^2}{P_c - P_a} \right)^n$$

$$\left(\frac{597529}{520245} \right)^n$$

$$1.1485^{.85} \times 3197 = 1.1249 \times 3197$$

$$Q_{of} = 3596 \text{ MCF/D}$$

TESTED BY **M. W. Rischard**

WITNESSED BY **Fred Cook, N.M.O.C.C.**

Lewis D. Galloway
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