

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

CORRECTED COPY

DUAL COMPLETION

DATE November 17, 1959

Operator El Paso Natural Gas Company		Lease San Juan 27-5 Unit 47 (M) OWWO	
Location 15008, 1750W; 18-27-5		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 5-1/2	Set At: Feet 5586	Tubing: Diameter 2	Set At: Feet 5423
Pay Zone: From 5376	To 5502	Total Depth: c/o 5544	Shut In: 12/29/59
Stimulation Method Sand Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .75		Choke Constant: C 12.365	
Shut-In Pressure, Casing, PSIG 903 (PC)	- 12 = PSIA 915	Days Shut-In 19 (MV)	Shut-In Pressure, Tubing PSIG 801 (MV)
Flowing Pressure: P PSIG 196 (MV)	- 12 = PSIA 208	Working Pressure: P _w PSIG Calc.	- 12 = PSIA 413
Temperature: T °F 57	n = .75	F _{pv} (From Tables) 1.024	Gravity .702

Initial SIF_{PC} (PC) = 903 psigFinal SIF_{PC} (PC) = 907 psig

Packer at 3295

$$\text{CHOKE VOLUME} = Q = C \times P_i \times F_t \times F_g \times F_{pv}$$

$$Q = 12.365 \times 208 \times 1.0029 \times .9258 \times 1.024 = 2445 \text{ MCF/D}$$

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

$$A_{of} = \left(\frac{660969}{490400} \right)^n = 1.3478^{.75} \times 2445 = 1.2505 \times 2445$$

$$A_{of} = 3057 \text{ MCF/D}$$

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TESTED BY S. V. Roberts

WITNESSED BY _____



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