

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE September 24, 1959

Operator El Paso Natural Gas Company		Lease San Juan 27-5 Unit No. 4 (P) OWWO	
Location 990N, 990E; 29-27-5		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool Undesignated	
Casing: Diameter 7	Set At: Feet 4825	Tubing: Diameter 1-1/4	Set At: Feet 3282
Pay Zone: From 3203	To 3304	Total Depth 5566 c/o 5525	Re-SI: 9/1/59
Stimulation Method Sand Water Frac.		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .75		Choke Constant 12.365	
Shut-In Pressure, Casing, PSIG 1015	PSIG - 12 - PSIA 1027	Days Shut-In 24	Shut-In Pressure, Tubing, PSIG 1016
Flowing Pressure, Casing, PSIG 94	PSIG - 12 - PSIA 106		Working Pressure, Pw, PSIG 99
Temperature, Casing, °F 57	°F - 32 - °F .85		Gravity 1.007
			.631

Initial SIPT (MV) = 1082 psig

Packer at 4798

Final SIPT (MV) = 1083 psig

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

$$Q_c = 12.365 \times 106 \times 1.0029 \times .9759 \times 1.007 = 1292 \text{ MCF/D}$$

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

$$A_{of} = \left(\frac{1056784}{1044463} \right)^n = 1.0117^{.85} \times 1292 = 1.0099 \times 1292$$

$$A_{of} = 1305 \text{ MCF/D}$$

TESTED BY Frank Clark

WITNESSED BY

Checked By H. L. Kendrick

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