

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE October 13, 1959

Operator El Paso Natural Gas		Lease San Juan 28-7 Unit No. 102 (M)	
Location 9908, 1790W; 2-27-7		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing Diameter 5-1/2	Set At: Feet 5607	Tubing Diameter 2"	Set At: Feet 5463
Pay Zone: From 4848	To 5480	Total Depth: 5605 c/o 5570	Shut In: 9/29/59
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 3301-5607	
Shut-In Pressure, Gas 940 (PC)	PSIG	12 - PSIA 992	Days Shut-In 14	Shut-In Pressure, Tubing 1025 (MV)	PSIG
Flowing Pressure: P 310 (MV)	PSIG	12 - PSIA 322		Working Pressure: P _w Calc.	PSIG
Temperature: T 65	F			Fpv (From Tables) 1.034	Gravity .677

Initial SIPT (PC) = 940 psig

Final SIPC (PC) = 945 psig

Packer at 4756

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

$$Q = 12.365 \times 322 \times .9952 \times .9427 \times 1.034 = 3862 \text{ MCF D}$$

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

$$A_{of} = \left(\frac{1075369}{661920} \right)^n \quad 1.6246^{.75} \times 3862 = 1.4390 \times 3862$$

$$A_{of} = 5557 \text{ MCF D}$$

TESTED BY S. V. Roberts

WITNESSED BY _____

Checked By W. D. Dawson

Lewis D. Galloway
L. D. Galloway

