

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE September 15, 1959

Operator El Paso Natural Gas Company		Lease San Juan 27-5 Unit No. 47 (M) OWRD	
Location 15008, 1750N; 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: o/o 5544	Shut In: 8/1/59
Stimulation Method Sand Water Frec.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .75		Choke Constant: C 12.365		5-1/2 liner 3339-5586	
Shut-In Pressure, Casing, PSIG 992 (PC)	+ 12 = PSIA 1004	Days Shut-In 14	Shut-In Pressure, Tubing PSIG 934 (MV)	+ 12 = PSIA 946	
Flowing Pressure: P PSIG 236	+ 12 = PSIA 248		Working Pressure: P _w PSIG Calc.	+ 12 = PSIA 491	
Temperature: T °F 64	n = .75		F _{pv} (From Tables) 1.028	Gravity .700	

Initial SIPT (PC) = 998 psig

Packer at 3308

Final SIPT (PC) = 996 psig

CHOKE VOLUME = Q = C × P_i × F_i × F_g × F_{pv}

$$Q = 12.365 \times 248 \times .9962 \times .9258 \times 1.028 = 2907 \text{ MCF/D}$$

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

$$Aof = \left(\frac{894916}{899375} \right)^n = 1.3687^{.75} \times 2907 = 1.2656 \times 2907$$

$$Aof = 3679 \text{ MCF/D}$$

TESTED BY Don Mortenson

WITNESSED BY _____

Checked By S. V. Roberts

L. D. Galloway
L. D. Galloway
by TSG