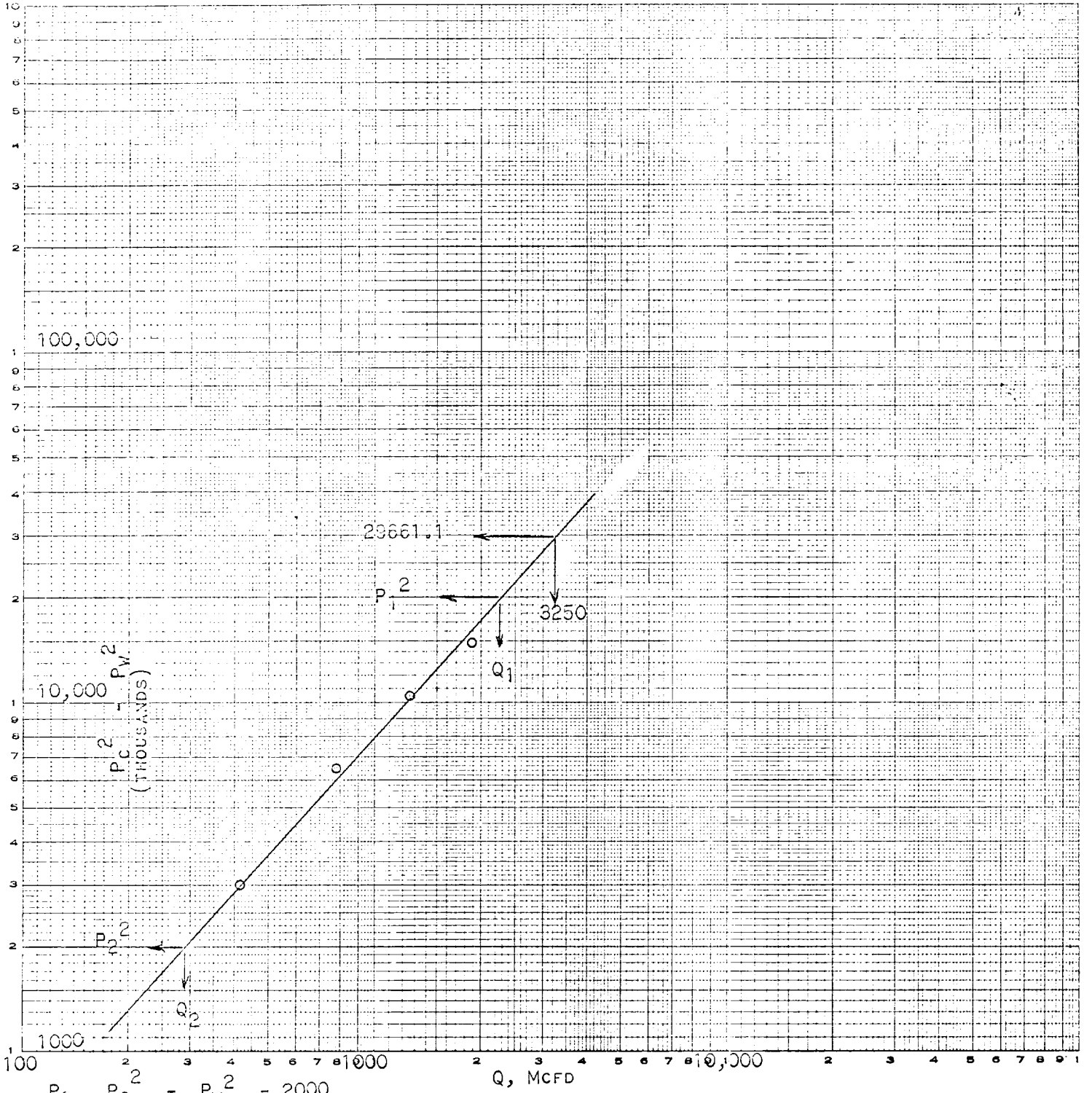


SOUTHWESTERN NATURAL GAS, INC.
 AZTEC FEDERAL 14-1
 LEA - PENN FIE
 LEA COUNTY, NEW MEXICO
 JUNE 9, 1969 C.C.

JUL 1 10 52 AM '69

EUBANK DILLIGAN CO.
MADE IN U. S. A.

LOGARITHMIC
3 CYCLE P.W. CYCLES



$$P_1 \quad P_c^2 - P_w^2 = 2000$$

$$P_2 \quad P_c^2 - P_w^2 = 200$$

$$Q_1 = 2280$$

$$Q_2 = 290$$

$$\text{Log } Q_1 = 3.35793$$

$$\text{Log } Q_2 = 2.46240$$

$$N = 0.89553 = 0.896$$