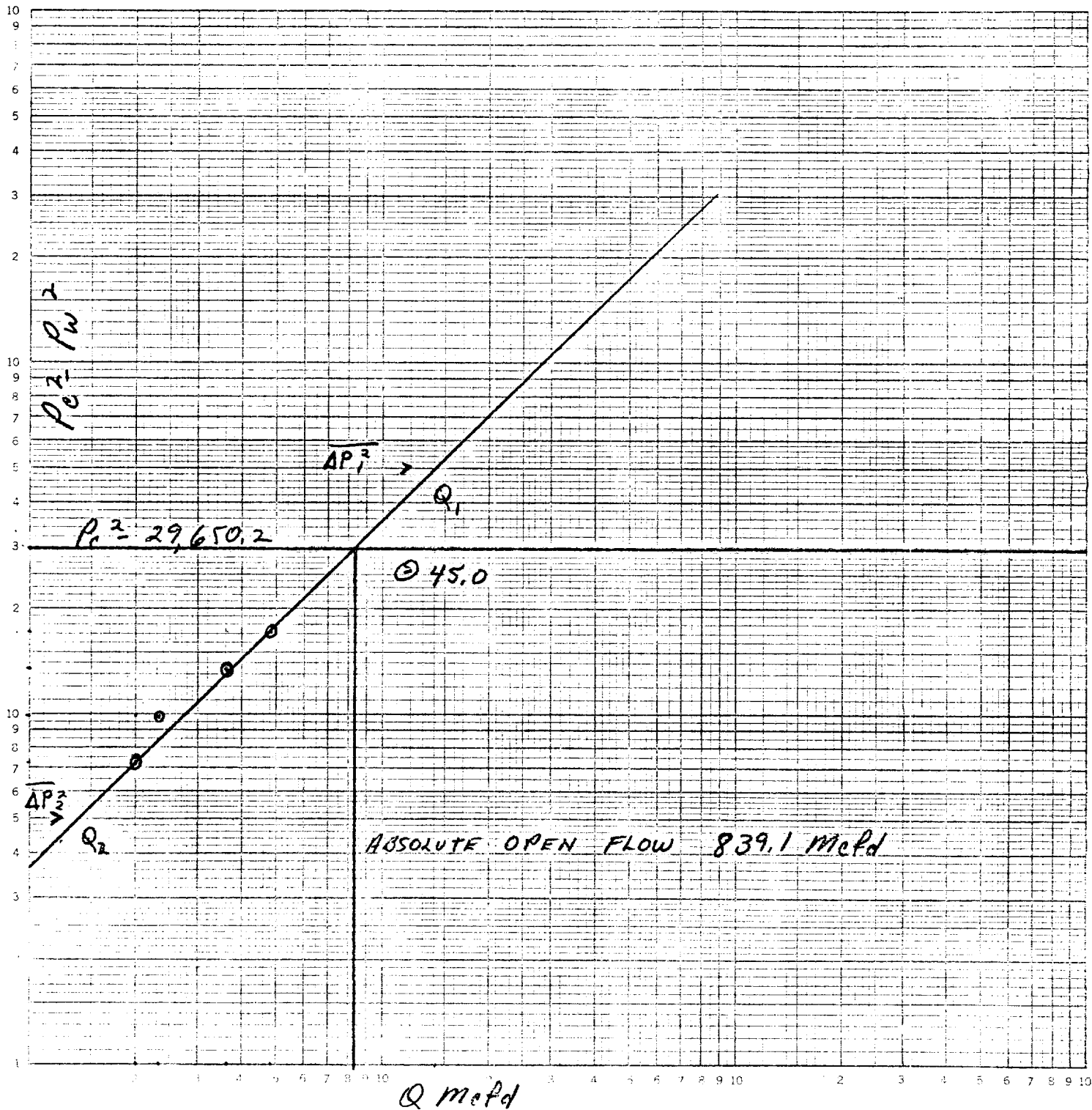


Santa Fe Energy
 STATE UTP Well No 1
 Unit J, Sec 21, Twp 15S, Rg 32E
 Lea County New Mexico
 9-15-81

46 7403

LOGARITHMIC 3 X 3 CYCLES
 KEUFFEL & ESSER CO. MADE IN U.S.A.



$$\frac{\Delta P_1^2}{\Delta P_2^2} = \frac{p_e^2 - p_w^2}{p_e^2 - p_w^2} = \frac{50,000}{5,000}$$

$$Q_1 = 1400. \text{ mcf/d}$$

$$Q_2 = 140. \text{ mcf/d}$$

$$\log Q_1 = 3.1461$$

$$\log Q_2 = 2.1461$$