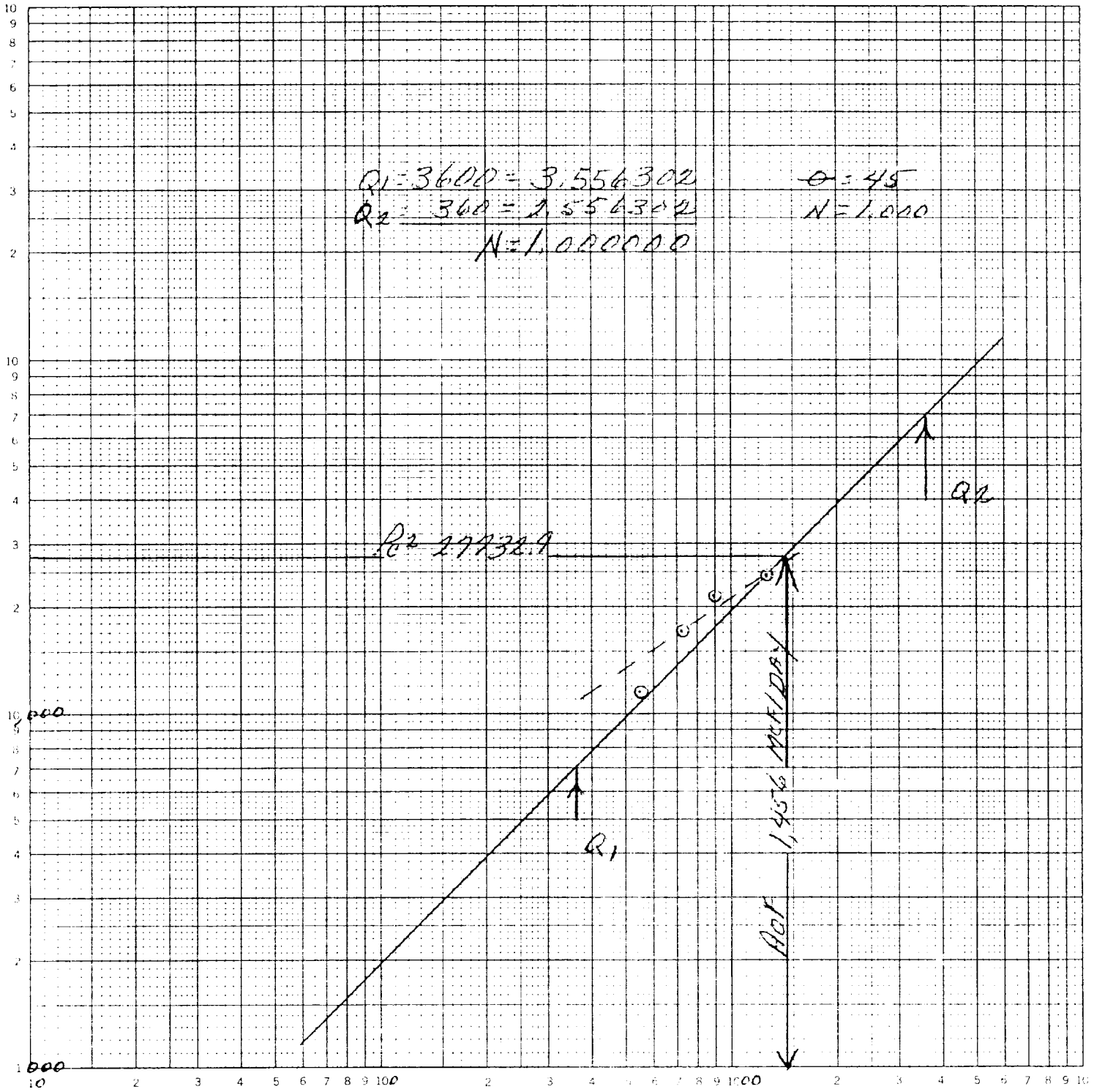


DINERO OPERATING COMPANY
 Big Chief No. 3
 J-21-22-28
 DECEMBER 9, 1980

46 7400

LOGARITHMIC 3 X 3 CYCLES
 KEUFFEL & ESSER CO. PAT. N. 2,411,111



$Q = \text{MCF/D}$