

K-E SEMI-LOGARITHMIC 4 CYCLES X 70 DIVISIONS
KEUFEL & ESSLER CO.

46 6012

WELLHEAD PRESSURE RRGE-1 MAY 17, 1978 to

WELLHEAD PRESSURE (PSIA)

t → MIN



GLO7228-5

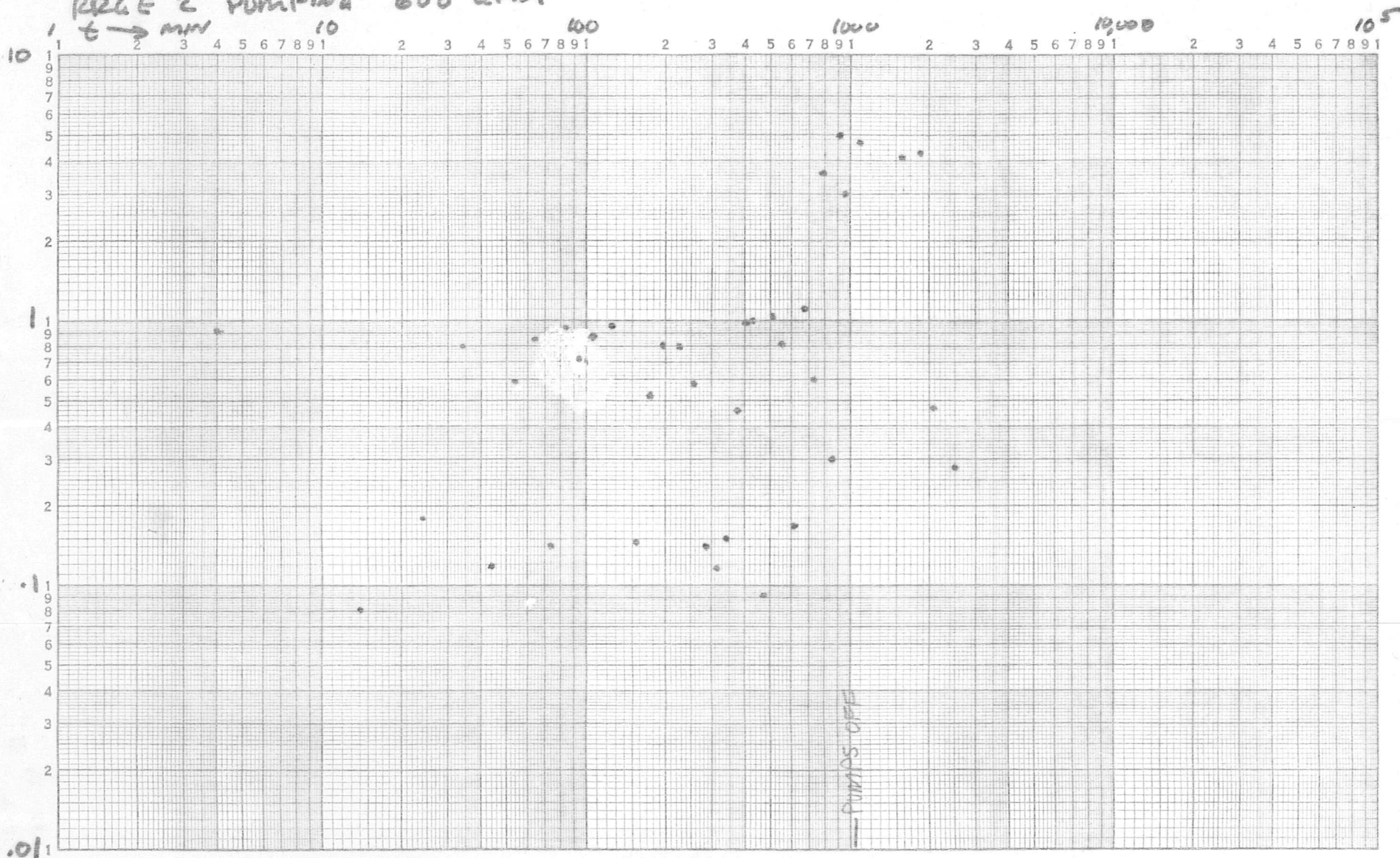
PUMPS OFF

RRGI-4 INJECTION 600 GPM, 268°F (ON 2246 MAY 17, OFF 1615 MAY 18, 1978)

PRESSURE CHANGES AT RGL-1 DURING MAY 17, 1978 TO

RGL 4 INJECTION 600 GPM, 268° F H₂O (ON 2246 MAY 17, OFF 1615 MAY 18, 1978)

RGL 2 PUMPING 600 GPM



WELLHEAD PRESSURE CHANGE (PSI)

POSITIVE PRESSURE CHANGE (BUILDUP)
 NEGATIVE PRESSURE CHANGE (DRAWDOWN)

WELLHEAD

PRESSURE

K-E SEMI-LOGARITHMIC 4 CYCLES X 70 DIVISIONS KEUFFEL & ESSER CO. MADE IN U.S.A.

RRLE-1

RRLE 1

RRLE 2

WELTFLUX 700 GPM

DISCHARGE 740 gpm

2158

30 MAY 78

DISCHARGE

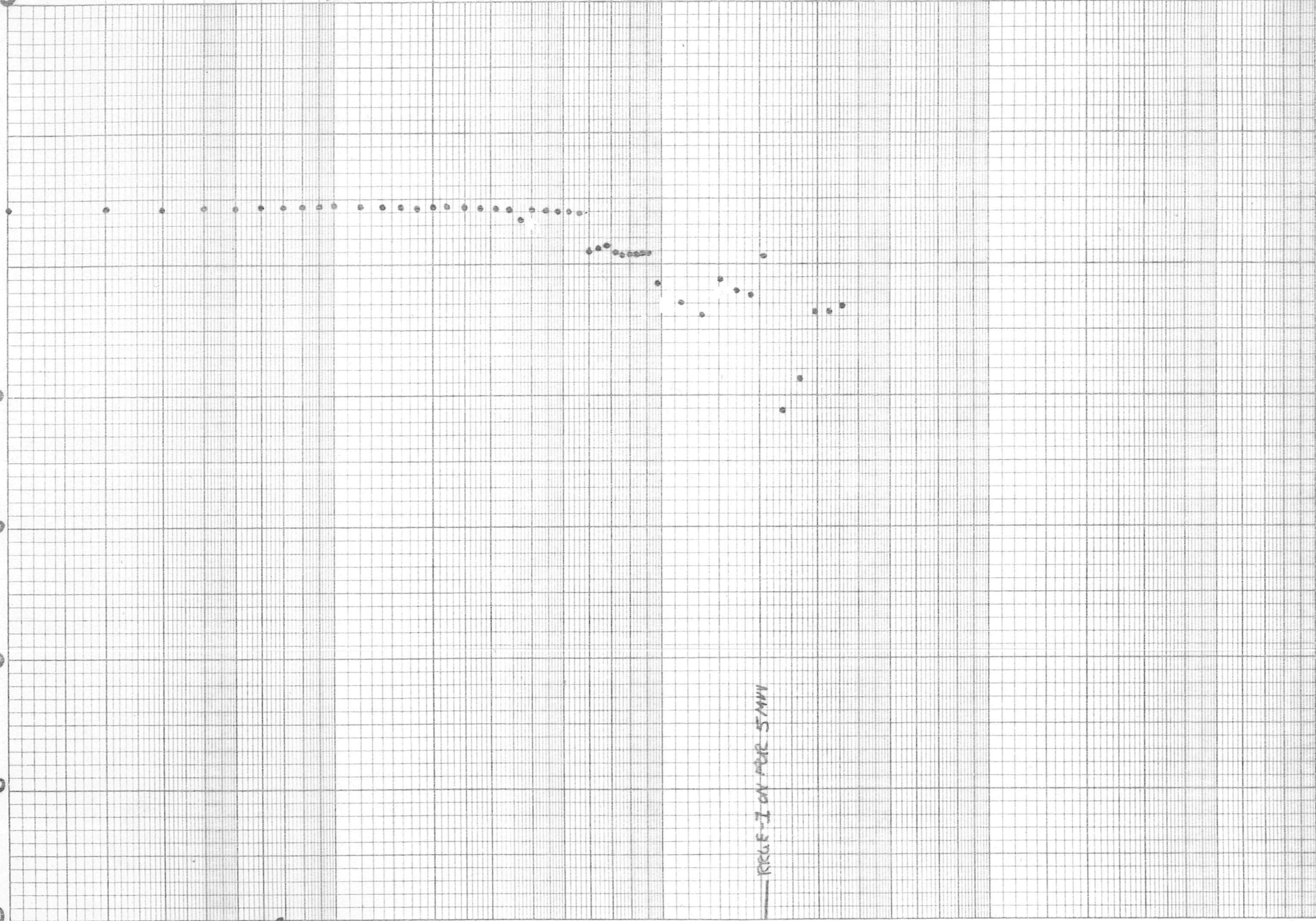
2150

30 MAY 78

100 → MIN

1 2 3 4 5 6 7 8 9 1000 10000 10⁵

150
140
130
120
110
100
90



RRLE-1 ON FOR 5 MIN

INITIAL PRESSURE 144.27

PRESSURE DRAWDOWN

RRLE-1

30 MAY TO

JUNE 1978

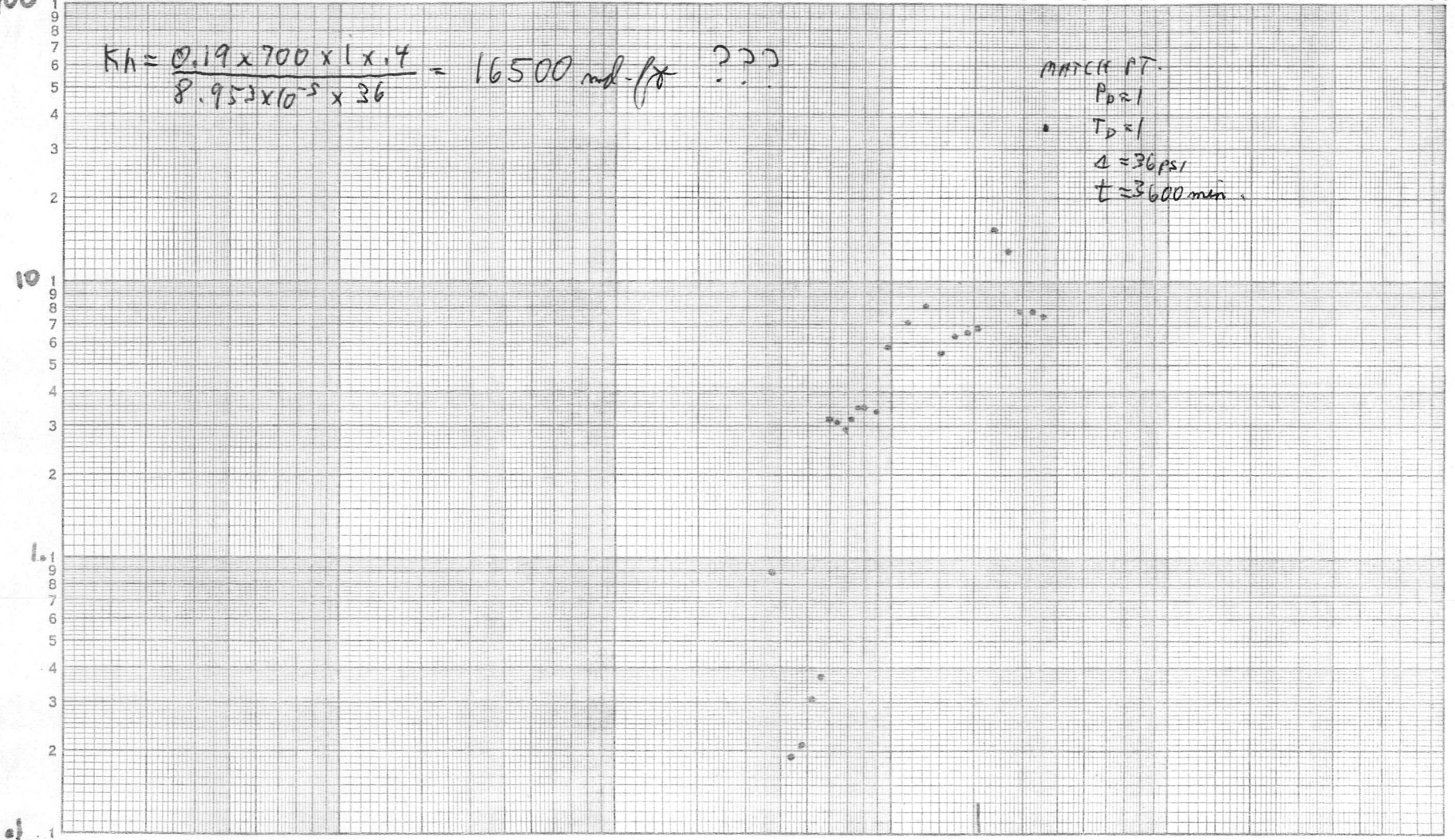
RRLE 2 DISCHARGING 740 GPM CON 2150 30 MAY
 RRLE 4 INJECTION 700 GPM CON 2158 30 MAY

100' t → MIN 1 2 3 4 5 6 7 8 9 10 100 1000 10000 100000

$$KH = \frac{0.19 \times 700 \times 1 \times 4}{8.953 \times 10^{-5} \times 36} = 16500 \text{ md-ft} \quad ???$$

MATCH PT.
 P₀ = 1
 T_D = 1
 Δ = 36 PSI
 t = 3600 min

DROP IN WHP (PSIA)



WHP
 INITIAL PRESSURE 144.272 PSIA

RRLE-1 OPEN
 (5 MIN)