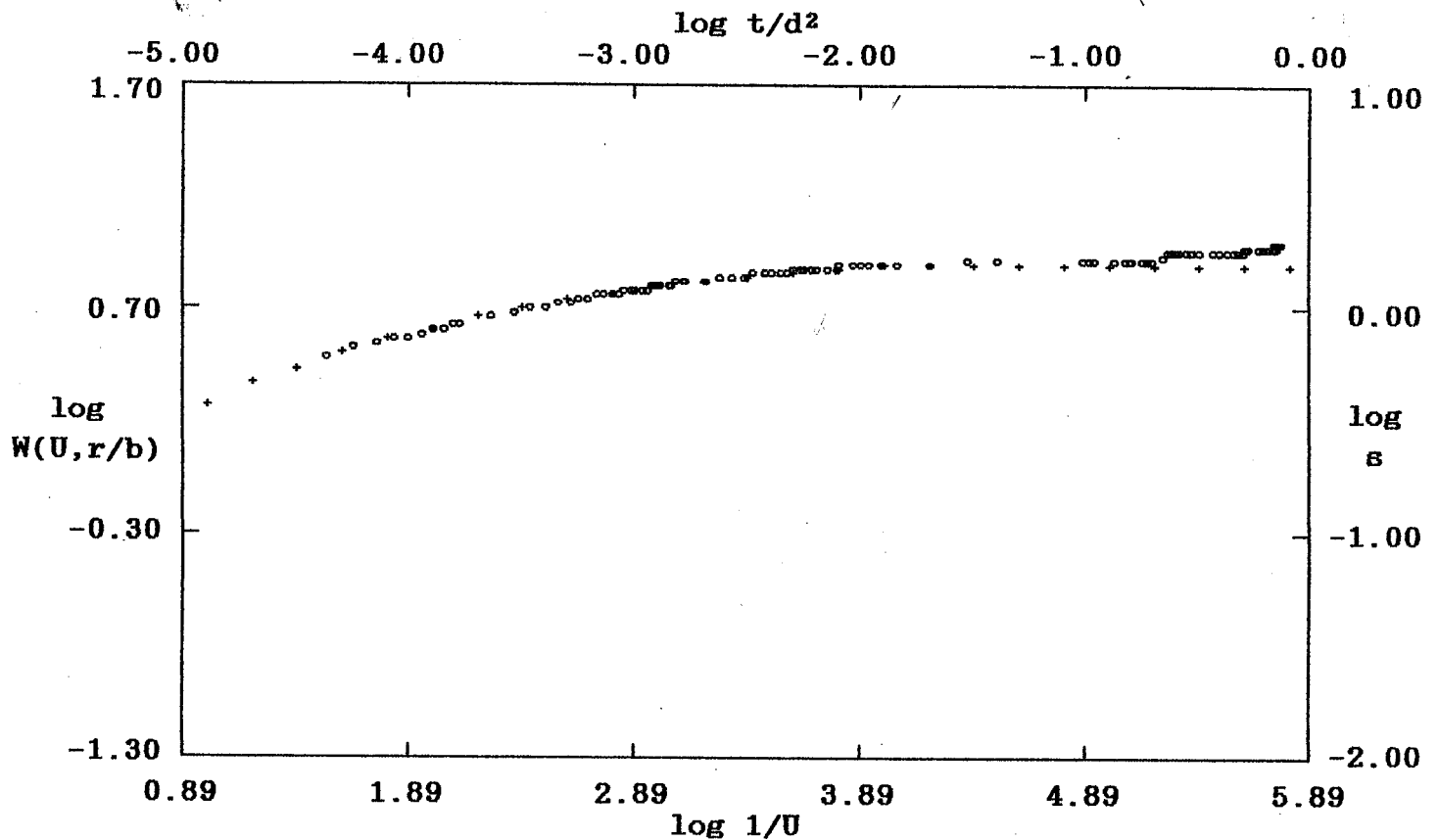


Barron Collier 10

PUMP TEST DATA



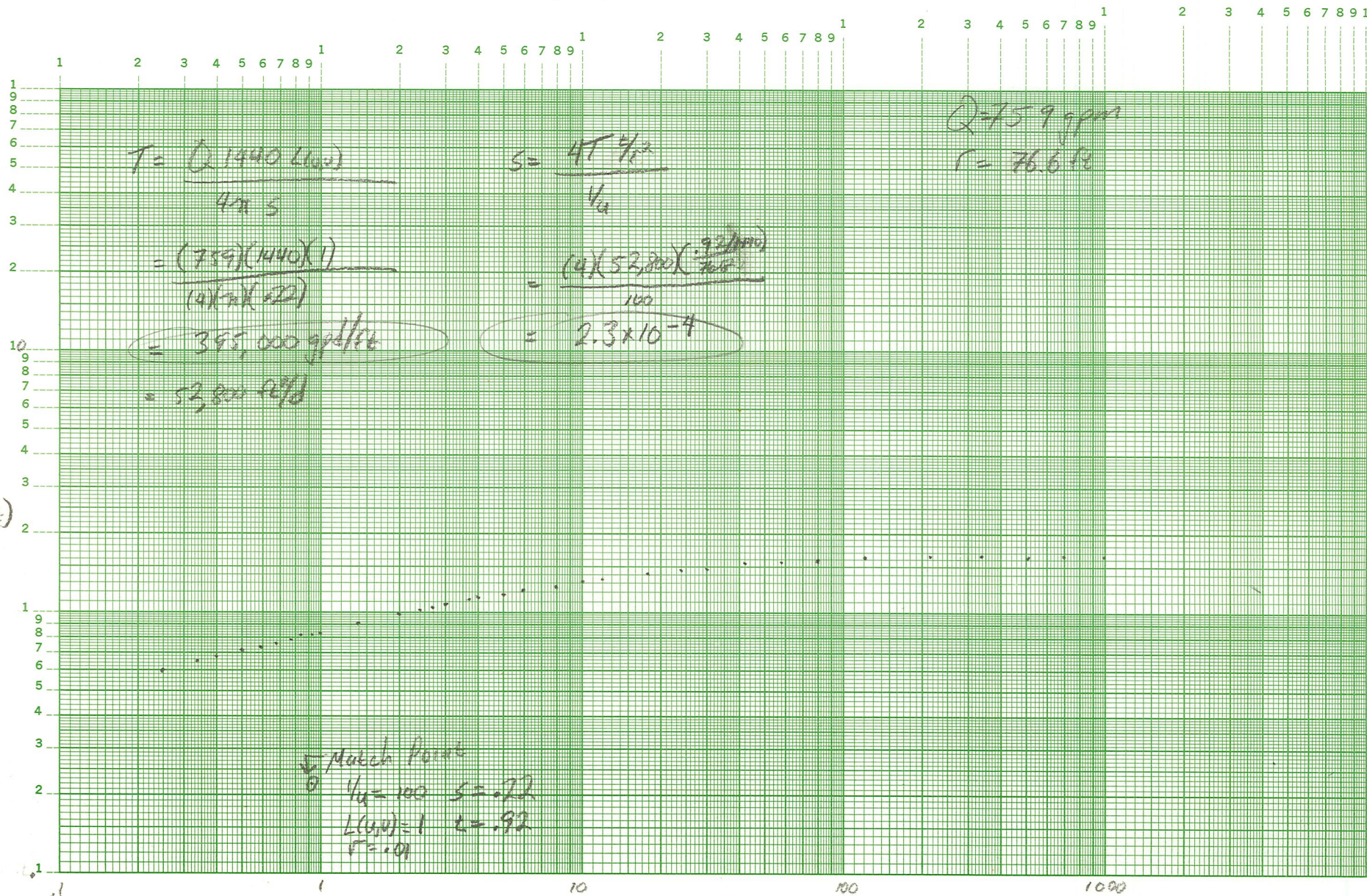
o - Data

+ - Type Curve

Confined Leaky: $r/B = 0.02$

SOLUTION

Transmissivity = $4.052E+01$ ft.²/min. 436,449 GPD/FT
Storativity = $2.088E-04$

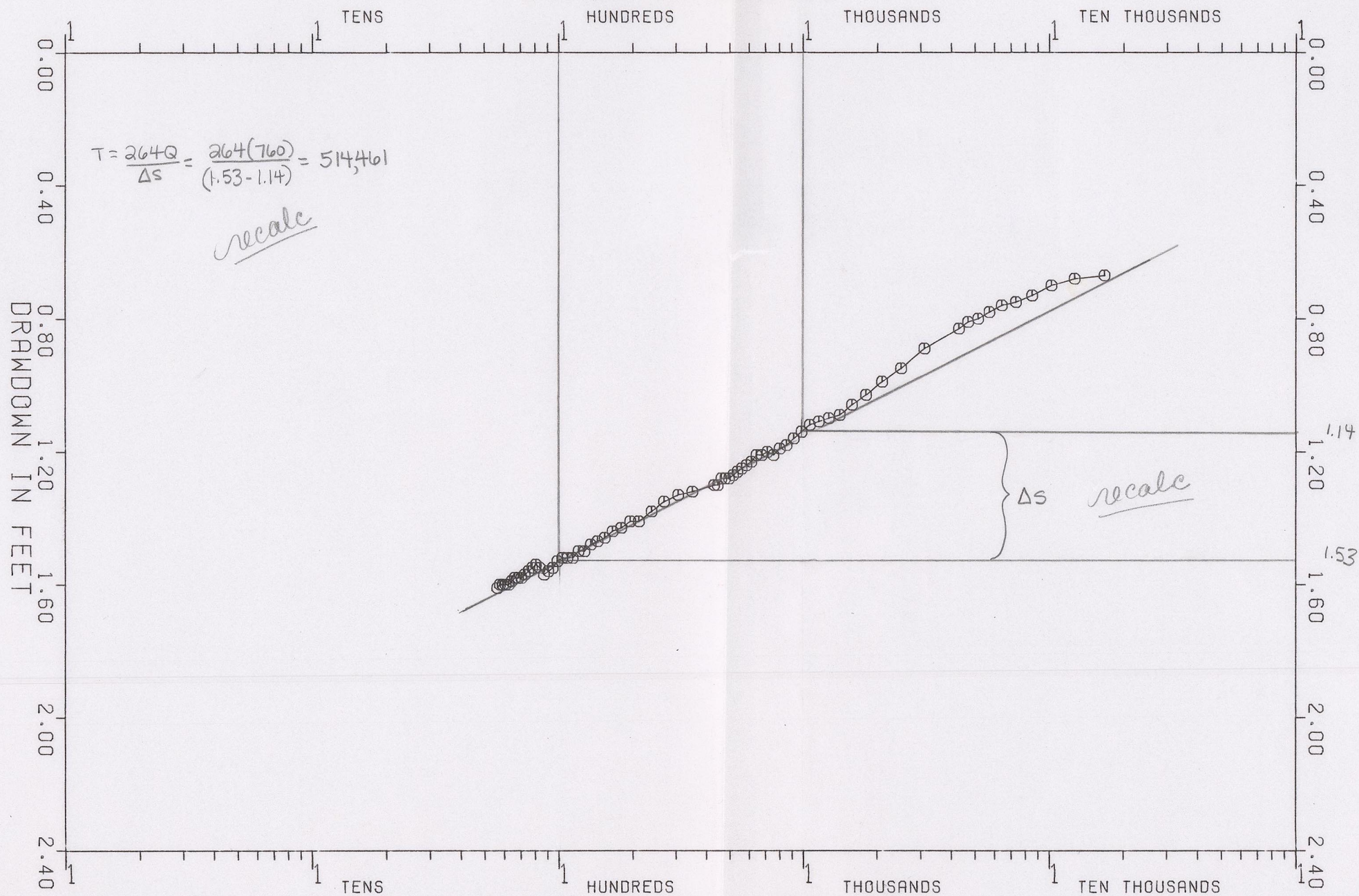


BARRON COLLIER RECOVERY

OBSERVATION WELL: 1D

R= 76.6 Q=760.0

TIME IN MINUTES



$$T = \frac{1440 Q L_{uv}}{4\pi 57.48}$$

$$= \frac{(1440)(760)(10)}{4\pi (1.91)(7.48)}$$

$$= 60,958 \text{ ft}^2/\text{d}$$

$$= 455,966 \text{ GPD/FT}$$

$$S = \frac{4T^{1/4}}{1/4}$$

$$= \frac{(4)(60958)(\frac{.0005}{76.6^2})}{100}$$

$$= 2.1 \times 10^{-4}$$

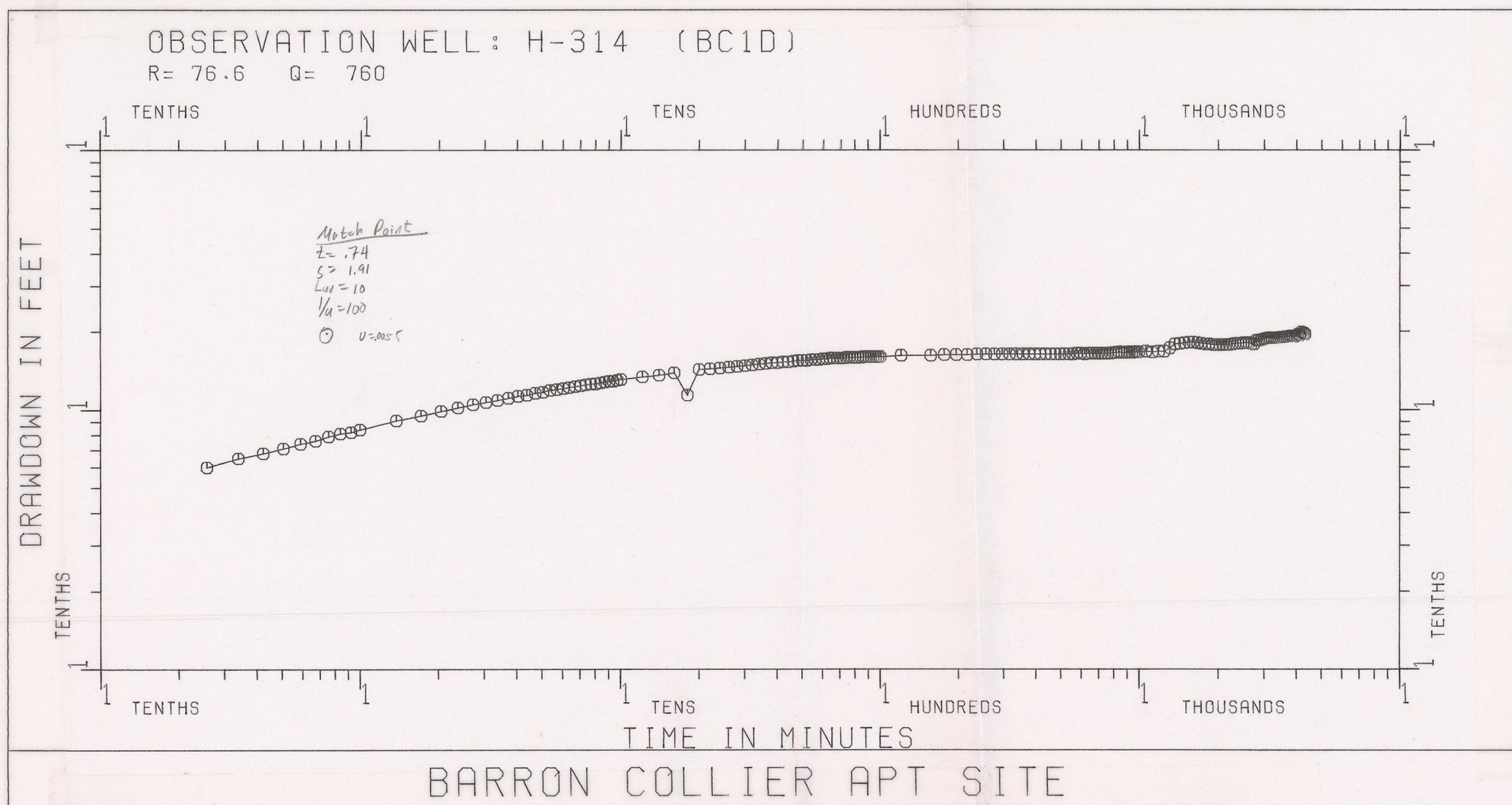
$$1/b' = 4T^{1/4}$$

$$= \frac{(4)(60958)(.0005^2)}{76.6^2}$$

$$= 1.3 \times 10^{-3}$$

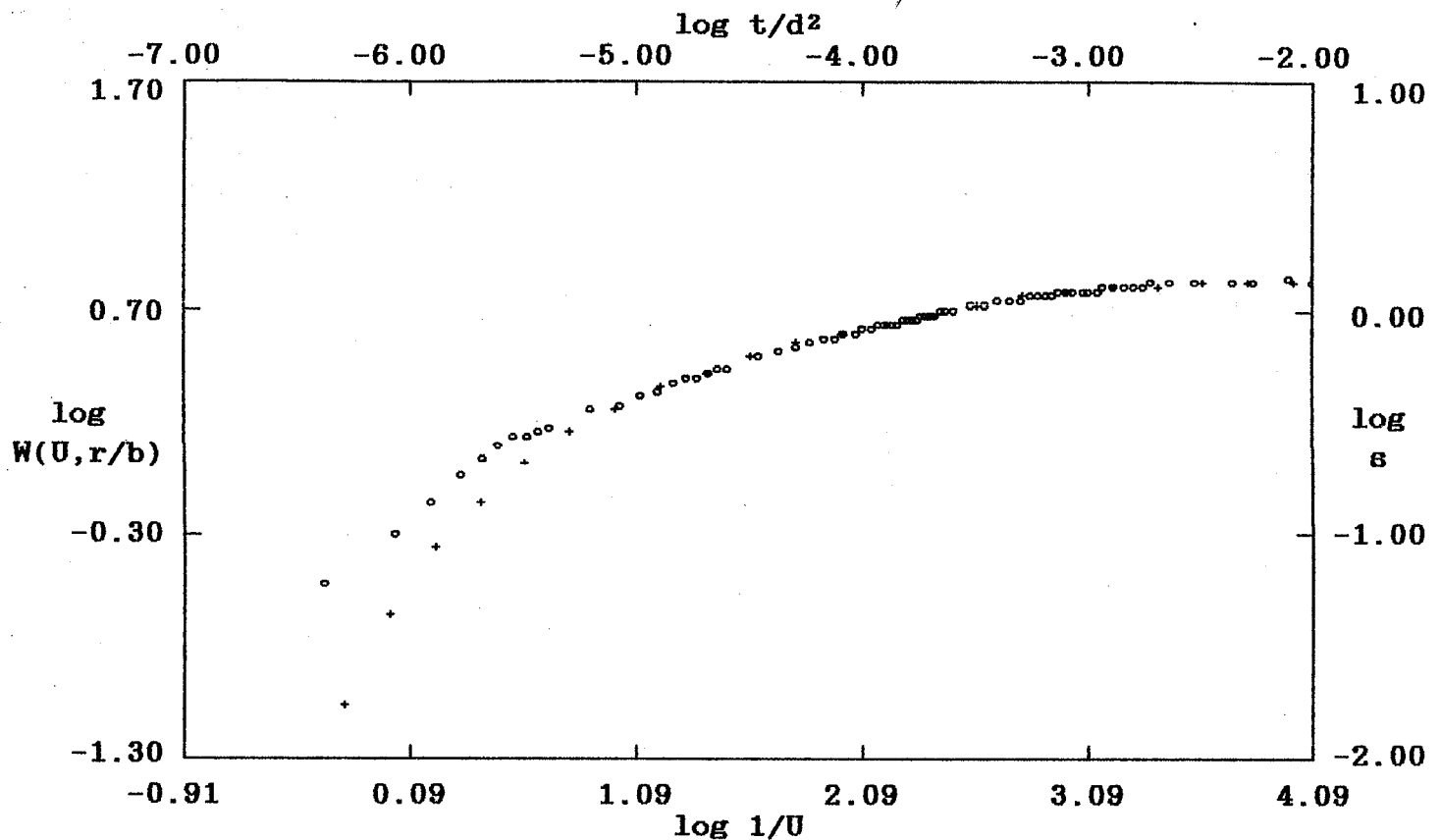
$$b' = 30'$$

$$K' = 3.8 \times 10^{-2}$$



Barron Collier 20.

PUMP TEST DATA



o - Data

+ - Type Curve

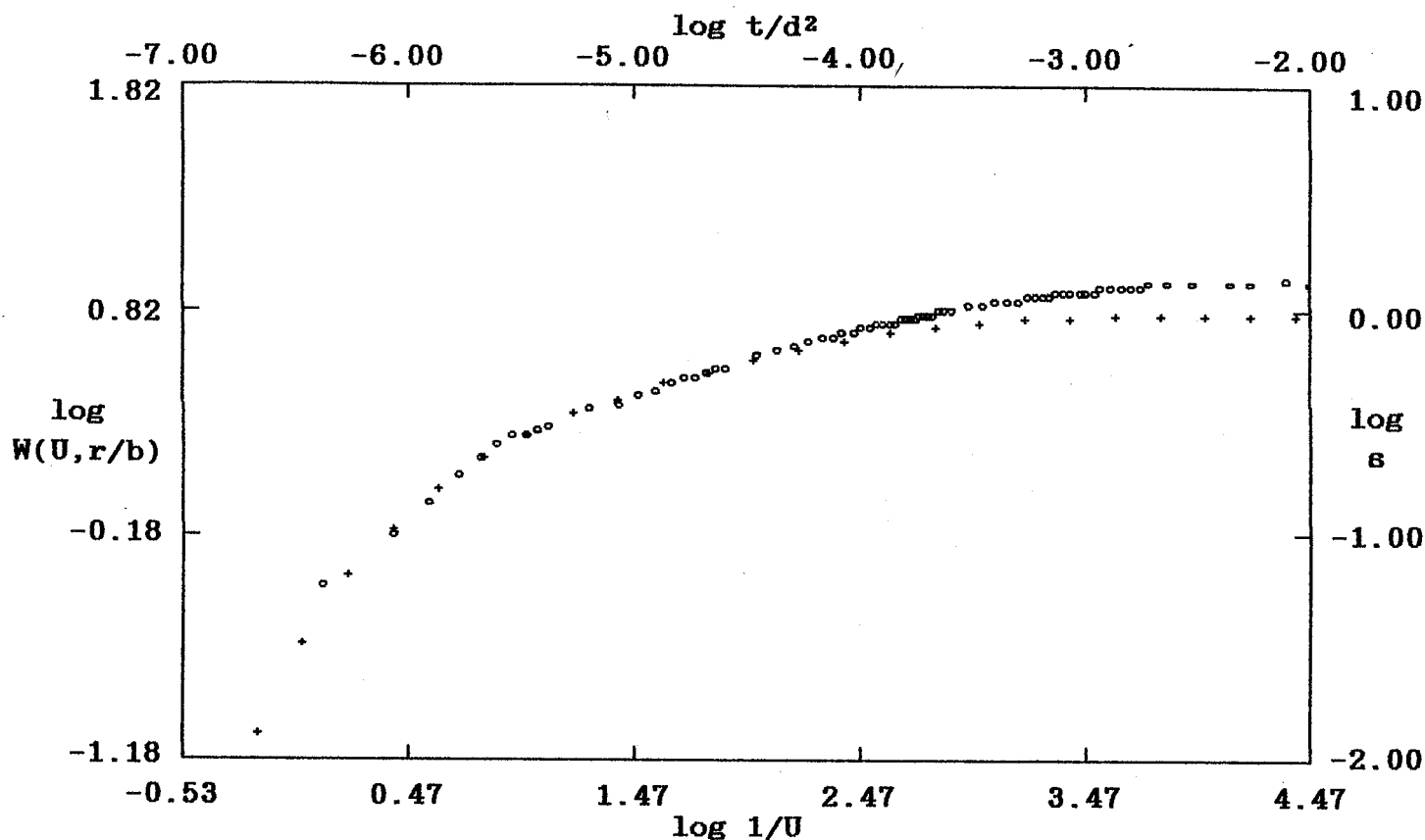
Confined Leaky: $r/B = 0.04$

SOLUTION

Transmissivity = $4.052E+01$ ft.²/min. 436,449 gpd/ft
Storativity = $1.317E-04$

Barron Collier 20

PUMP TEST DATA



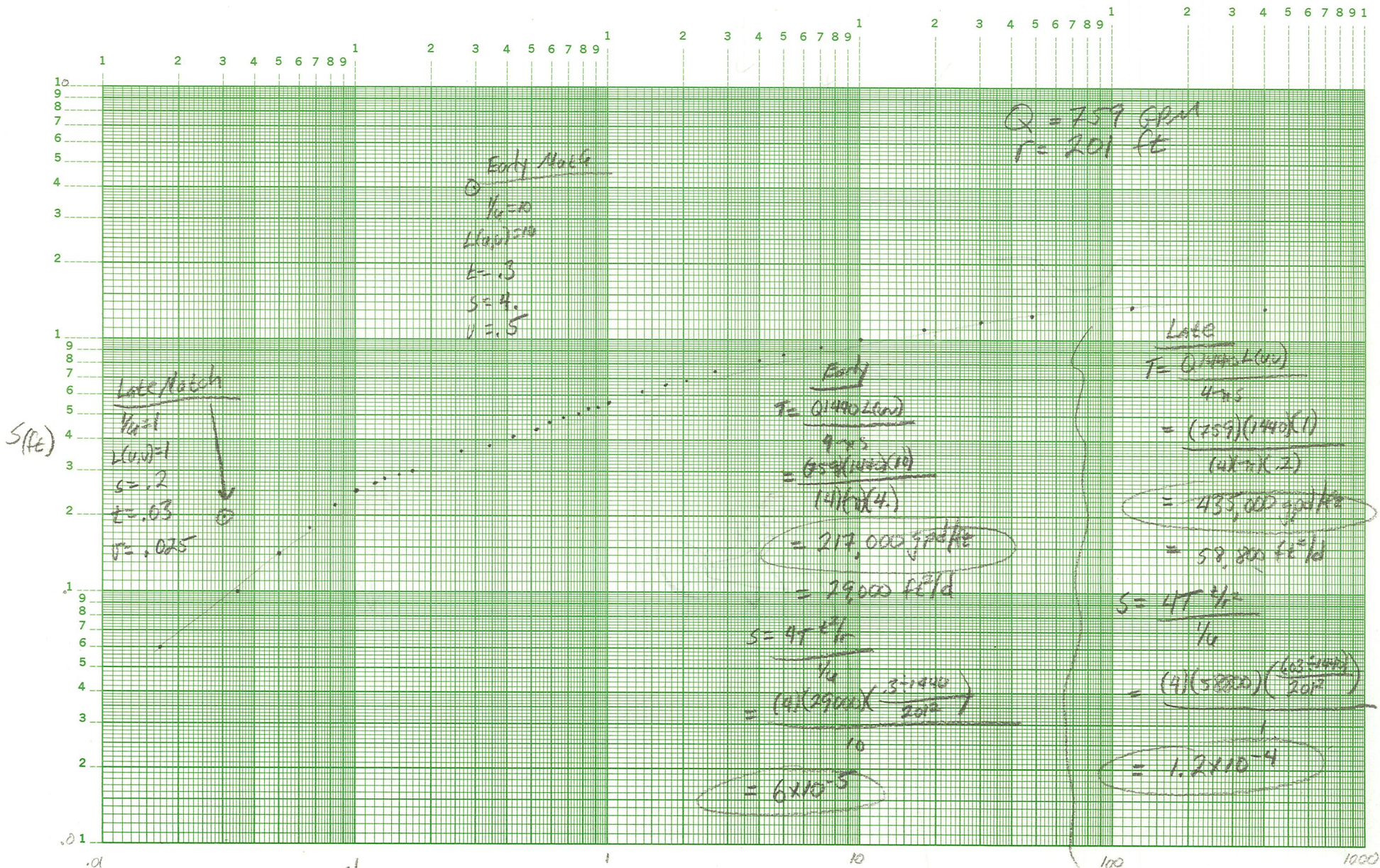
o - Data

+ - Type Curve

Confined Leaky: $r/B = 0.05$

SOLUTION

Transmissivity = $5.342E+01$ ft.²/min. 575,398 gpd/ft
Storativity = $7.240E-05$



Early

$$T = \frac{1440 Q L u v}{4 \pi S 7.48}$$

$$= \frac{(1440)(760)(1)}{4 \pi (.52)(7.48)}$$

$$= 22,390 \text{ ft}^2/\text{d}$$

$$= 167,480 \text{ gpd}/\text{ft}$$

$$S = \frac{4T \frac{t}{r^2}}{\frac{1}{u}}$$

$$= \frac{(4)(22390) \left(\frac{.00002}{200.8^2} \right)}{1}$$

$$= 5.4 \times 10^{-5}$$

$$\frac{K'}{b'} = 4T \frac{u^{3/2}}{r^2}$$

$$= \frac{(4)(22390)(.62)}{200.8^2}$$

$$= 8.0 \times 10^{-4}$$

$$b' = 30$$

$$K' = 23.99$$

Late

$$T = \frac{1440 Q L u v}{4 \pi S 7.48}$$

$$= \frac{(1440)(760)(1)}{(4 \pi)(.19)(7.48)}$$

$$= 61,279 \text{ ft}^2/\text{d}$$

$$= 458,366 \text{ gpd}/\text{ft}$$

$$S = \frac{4T \frac{t}{r^2}}{\frac{1}{u}}$$

$$= \frac{(4)(61279) \left(\frac{.00002}{200.8^2} \right)}{1}$$

$$= 1.2 \times 10^{-4}$$

$$\frac{K'}{b'} = 4T \frac{u^{3/2}}{r^2}$$

$$= \frac{(4)(61279)(.015^2)}{200.8^2}$$

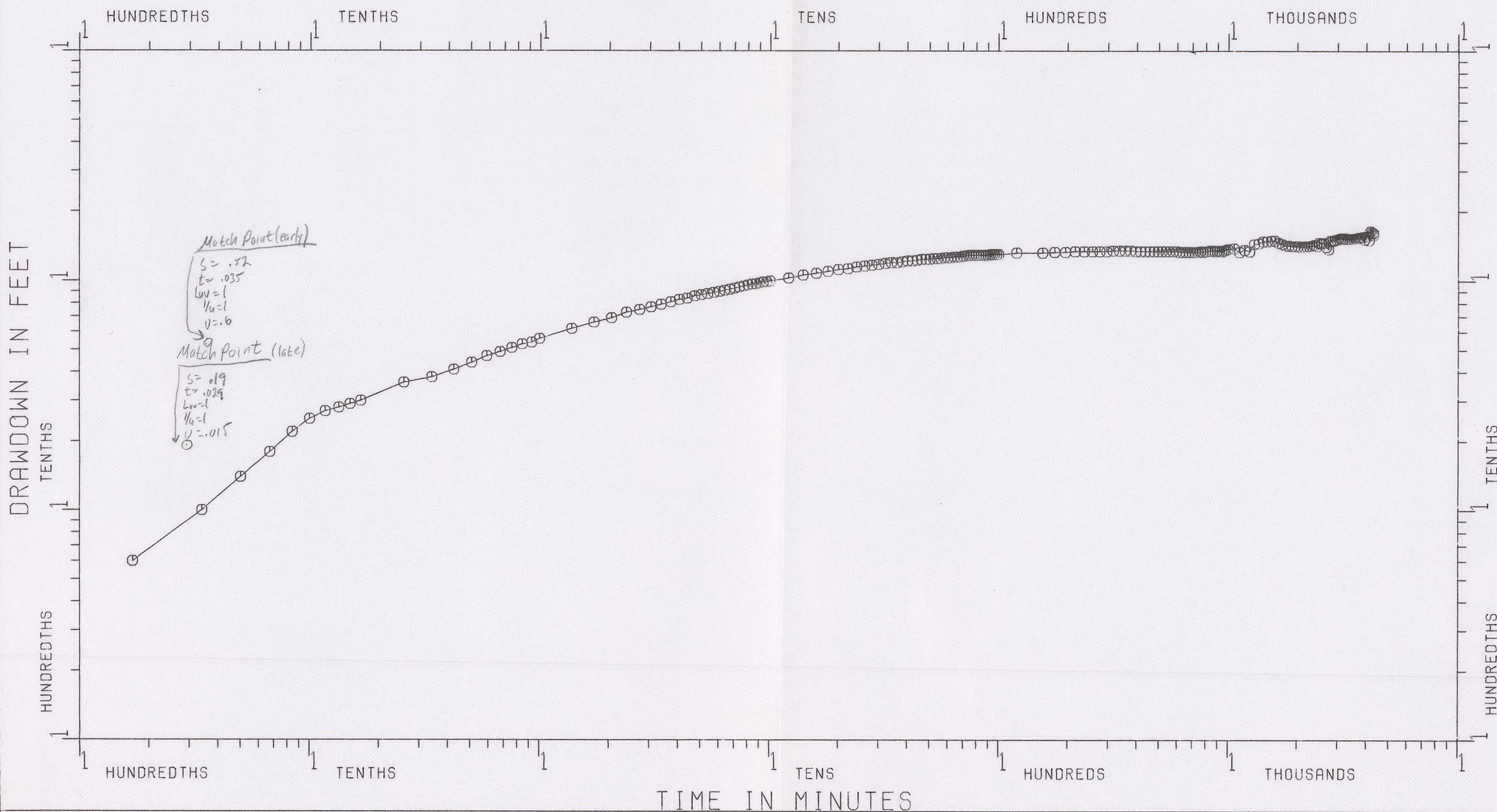
$$= 1.4 \times 10^{-3}$$

$$b' = 30$$

$$K' = 4.1 \times 10^{-2}$$

OBSERVATION WELL: H-314 (BC2D)

R=200.8 Q= 760



BARRON COLLIER APT SITE

BARRON COLLIER RECOVERY

OBSERVATION WELL: 2D

R=200.8 Q=760.0

TIME IN MINUTES

TENS

HUNDREDS

THOUSANDS

TEN THOUSANDS

HUNDRED THOUSANDS

DRAWDOWN IN FEET

$$T = \frac{2.64Q}{\Delta s} = \frac{2.64(760)}{(1.585 - 1.215)} = 542,270$$

Δs

1.215

1.585

