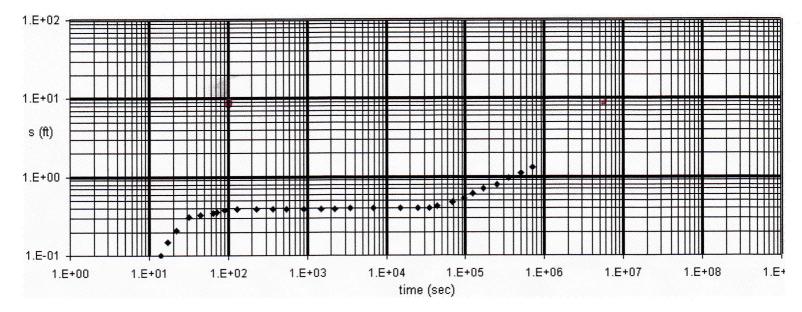
<b>NAME</b>	
TAT TIATE	

## PROBLEM #2 - 30 points USE UNITS of FEET SECONDS

## ANSWER THE QUESTION ON THE FOLLOWING PAGE, SHOW YOUR WORK

## **USE UNITS of FEET SECONDS**

An aquifer test was conducted and data are shown below. The fully penetrating observation well was 190 ft from the pumping well. Initial saturated thickness of the aquifer was = 88 ft. The pumping rate was 35 GPM which is 0.078 ft<sup>3</sup>/sec. Tell me everything you can about the aquifer using these data.



$$\Gamma = 4$$
 $w(u)=1$   $s=9$   $fL$ 
 $1/4ua=1$   $t=1005$   $u_a=0.75$ 
 $4ub=1$   $t=6\times10^6$   $u_b=0.75$ 

## M = 4 PROVIDE CALCULATIONS AND ANSWERS TO PROBLEM 2 HERE

W(1) = 1 49=0.75

USE UNITS of FEET SECONDS

**SHOW YOUR WORK!!!!** 

$$l = \overline{L} = \frac{7 \times 10}{10}$$

$$SY = U_b ATT = 6.75 A 7 \times 10^{-4} Pt^2 6 \times 10^6 s = 0.116 = 0.12$$

$$K_V = \frac{7 \, \text{K}_{N} b^2}{F^2} = \frac{4 \, \left(8 \times 10^{-6} \, \text{GH}\right)^2 \, \left(88 \, \text{GH}\right)^2}{\left(190 \, \text{GH}\right)^2} = \frac{6.9 \times 10^{-6} \, \text{GH}}{3}$$

1 alternate match

$$\Gamma = 2$$
  
 $W(ua) = | ua = 0.25$ 

$$V T = 2 \times 10^{-3} f_{3}^{2}$$

$$K_{+} = 2 \times 10^{-5} f_{3}^{2}$$

$$S = 2 \times 10^{-6}$$