

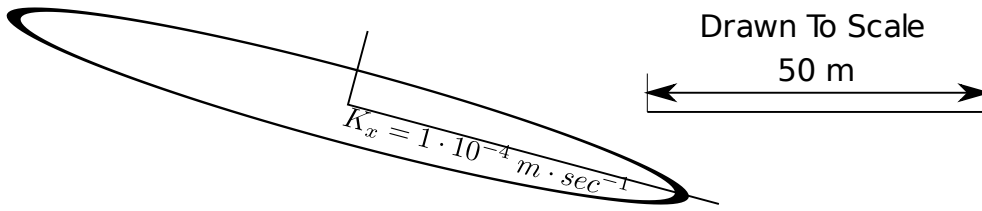
Name: \_\_\_\_\_

**Problem Set 3**



**Hydrogeology (ERS 580)**

Answer the following questions and clearly show how you arrived at your answer.


- Calculate the magnitude of the hydraulic gradient and indicate the direction of the hydraulic gradient *on the diagram*.
- Calculate the magnitude of the specific discharge and indicate the direction of the specific discharge *on the diagram*.
- If the effective porosity of the unit the wells are screened in is 0.05, how long will it take water to move 100 m?



ToC=97.30 m  
DtW=1.71 m



ToC=96.90 m  
DtW=1.58 m



ToC=96.41 m  
DtW=1.01 m