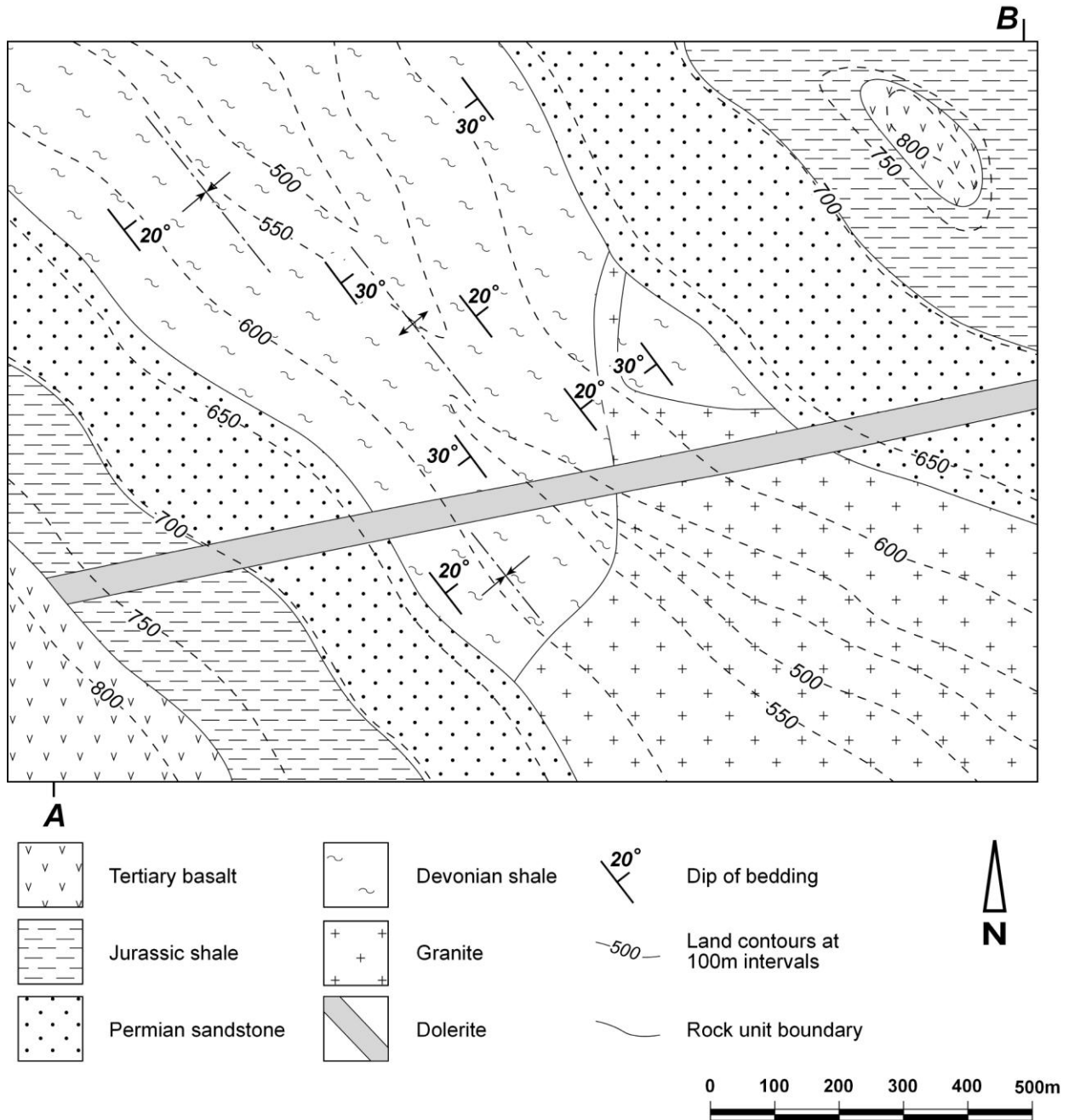


Geological Mapping Exercise 10

1. For the geological map below:

- Draw the topographical profile A-B using the contour lines
- Draw a geological cross section along the profile using a vertical scale of 1cm : 100m.
- Interpret the sub-surface geology by constructing appropriate geological boundaries.
- On your cross section show the possible sedimentary layering that may have existed above the present day ground surface.



Geological Mapping Exercise 10



A

B

2. Show the dips of the Devonian shale along the line of the cross section.

3. What is the dip of the Permian sandstone? Give a reason for your answer. _____

4. What is the relative age of the granite, the dolerite dyke and the Permian sandstone? _____

5. Identify on your cross section an unconformity. Give a reason for your answer. _____

6. Write a brief geological history of the area.
