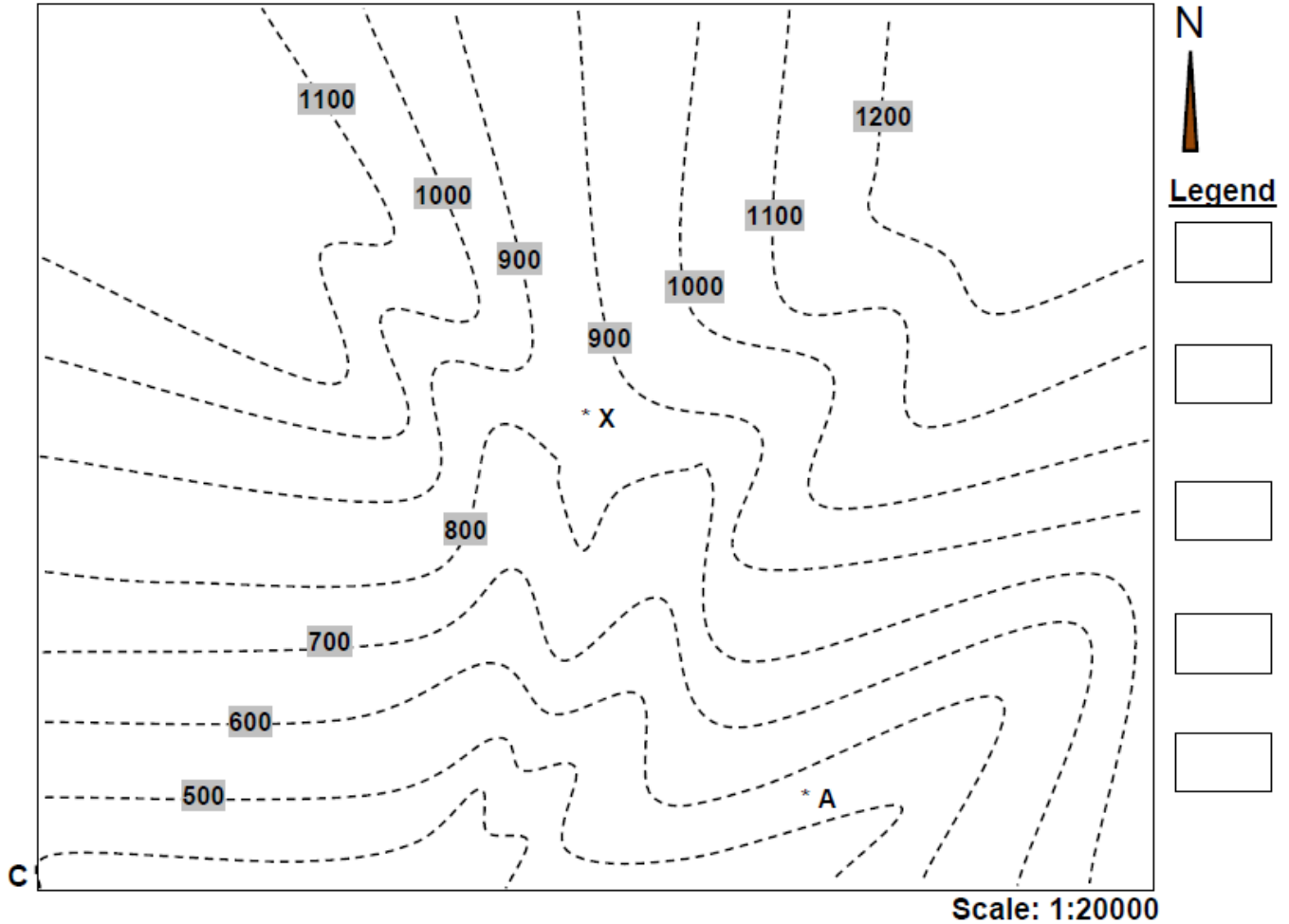


Geological Map

Horizontal Beds



In this map, the lower boundary of limestone bed is exposed out at the elevation of 1050 m. This limestone overlying the shale bed (thickness 150 m). The lower boundary of sandstone bed, which is deposited under this shale bed, is exposed out at the elevation of 700 m. Point A represents the contact between lower boundary of marl bed, which is covered by the sandstone bed, and upper boundary of dolostone bed, which is covered the remained area on the map. The beds are horizontal.

Requirements

1. Complete the map by drawing the outcrops of the beds.
2. Fill the legend by suitable lithologic symbols of the beds with writing the name of them.
3. On the grid, construct the geologic cross-section along line C-D, and then construct the geologic column of the beds.
4. What is the contour interval of the map, and what is the elevation of point X .
5. Draw the valleys and ridges on the map, and then determine the orientation of them.
6. Describe the main topographic feature on the map.