

GEOLOGICAL SKETCH OF THE DUNAJEC RIVER GORGE
AT NIEDZICA, PIENINY MOUNTAINS

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The geological investigations of the area of the Dunajec River Gorge at Niedzica became the starting point for modern geological interpretations of the Pieniny Klippen Belt of Poland. In connection with a project of big water dam, numerous bore holes and trenches were made which allowed to reconstruct in considerable details the geological structure of the area. In Figs. 2—4 we can see the rocks mostly of the Branisko Series and partly of the Czorsztyn Series. The rocks are strongly folded, often vertical or overturned „backwards” (i.e. to the south). The limestone (Cherty Limestone — Tithonian-Barremian) scales are most numerous on the right slope of the Dunajec River valley (altogether about 7 scales), while in the axial part of the valley only three main limestone scales were found.

The Quaternary cover is up to 10 m thick on the right slope of the valley. It consists of glacialfluvial gravel covered by solifluction clay.

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