

SUMMARY

Seredžius geological basement /SEREDŽIUS

By Algirdas Gaigalas

Vilnius University

There are three major parts in Seredžius earth entrails structure: (1) the Precambrian basement, (2) the Proterozoic and Mesozoic strata and (3) the Quaternary cover. A characteristic feature of the Quaternary structure is the domination of glacial deposits. The moraines of four glaciations that reached Lithuania have been found: one of them is related to the stages of Dainava, Žemaitija, and Medininkai, the second is the Nemunas, and the rest two are the Grūda and the Baltic. In Middle Lithuania and the Nemunas lower reaches, glacier's wedge of two recessive phases of the Nemunas glacial period Baltic stage was found in a rock exposure at the Dubysa River. There are notable moraine strata formed of ground, internal and surface moraine facies. Intermoraine layers and groundwater accumulated in the Quaternary glacial sediment cover. The Prequaternary rock surface is influenced by erosion and exaration. Deeply cut-in and buried palaeovalleys having practical and theoretical importance are significant elements. In the absence of deeper bore-holes, only the Middle Devonian dolomite marls have been reached. The Permian system anhydrite and gypsum deposits, occurring comparatively not deeply and making up strata of several tens metres, are interesting from the practical point of view.