

Jakub Schinkman - abstract

The object of the thesis was a detailed processing of the available temperature logging data from the area of Ohře lineament. The Ohře lineament is known by its characteristic temperature manifestations. Based on a comprehensive selection of thermometric logs and using the results of other logging methods were selected a total of 281 wells suitable for the construction of temperature maps. The parts of the work are maps of geothermal gradient and temperature sections across the Ohře lineament. Based on these summary maps, 6 smaller areas with anomalous temperature signs were selected for detailed analysis. Anomalies and trends in geothermal gradient were then compared with some other geophysical features. The work provides not only detailed processing of the collected thermometric data, but also shows the different possibilities of visualization and try to understand the problems of heat transfer in the upper parts of the earth's crust.