



THREE DIMENSIONAL MAGNETOTELLURIC SURVEY IN HUNGARY

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Resolution along some seismic lines recorded for petroleum exploration in sub basin in Hungary is limited because of a thick volcanic formation. In order to retrieve the deeper structures, 81 MT stations covering a large region (7x7km) were collected. Models computed from 2D inversion of the transverse magnetic (TM) data along seven lines define some vertical slices of the survey area. A visual tool based on finite element meshing and interpolators is used to stitch together those sections. A 3D forward modeling applied on the 3D resistivity model shows that observed MT data are well represented by this model. Interpretation and a comparison of the 3D resistivity distribution with other geophysical data (seismic, well logging, ...) are in progress.

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