

Tectonic Basin Structure in Kansai Area on the point of subsurface structure using borehole database

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Kansai Geo-informatics Research committee started to study about subsurface structure around Kansai Area after the1995 Kobe Earthquake. This committee also carried out the standard borehole survey at the each area and tried to resolve the relation between geological properties and geotechnical properties. The results of this mission were published "Shin-Kansaijiban" series. We are considered each borehole data using geological information such as tephra, microfossils, sedimental environment and so on, and referred to the seismic reflection survey.

The results of this study make clear the tectonic movement of each area. In Osaka area marine clay layers show the tilting toward to the Ikoma Fault. Other area also find these sign of tectonic movement from the subsurface borehole data.

Keywords: borehole, database, tectonic movement, sedimentary environment