

NEO - TECTONICS AND GEOMORPHOLOGICAL DEVELOPMENTS AROUND AYDIN -GERMENCİK-ORTAKLAR

Resul ÖZGÜR***

ABSTRACT.— The study area, islocated between the western part of the Büyük Menderes graben and the northern part of the Aydın-Germencik-Ortaklar highway. In this area the profound effects of the Neotectonic movements has left considerable traces on the morphological units. From the Miocene to the present day, the Menderes Massif has shown a morphological evolution which is in accord with that of the evolution of the Anatolia. As a result of this, Menderes massif has been gradually uplifted resulting in a dome-shaped form which led to the formation of the grabens. The graben's processing had started in Miocene age in the region. Neogen and Quaternary sediments had sedimentaed in these grabens. The correlans of these sediments are ocured if these formation's age which are appear on the horsts must be surface planeing. The exploration of the mention surface planeing and other morphological characteristics have been interpretedated for some geological problems. There fare, Büyük Menderes graben is the most important geothermal field in Turkey. These studies, have been carried and are being planed drilling are thinking as a first survey. The geomethric model of region has been formed by this way. All these studies have given a good results.