

# 4<sup>th</sup> International Conference on **Earth Science & Climate Change**

June 16-18, 2015 Alicante, Spain

## **Guney formation oil reservoir rock characterization, eregli-ulukisla basin, Turkey**

**Ayfer Ozdemir**

Middle East Technical University, Turkey

The aim of this study is to demonstrate petroleum reservoir rock properties of Guney formation in Eregli-Ulukisla Basin in Turkey. The Guney formation has typical outcrops of sandstone-shale formation around Guney village in the Eregli-Ulukisla Basin. The permeability-porosity analyses and petrographic examinations were done on the 58 sandstone samples which were compiled from the study area. The porosity values change from 6.44 % to 35.14%, and the permeability values change from 0.2 md to 32 md. The sandstones are medium-worse rounded and poorly sorted according to the petrographic examinations. The porosity-permeability values of samples taken from channel fillings on the study area are high. According to the petrographic examination and porosity-permeability analyses results, The Guney formation represents generally worse-medium grade petroleum reservoir rock properties.

### **Biography**

Ayfer Özdemir is PhD student at the Middle East Technical University, Geodesy and Geographic Information Technologies. She is a geological engineer at Republic of Turkey Ministry of Forestry and Water Affairs. She is interested in environment, geology, groundwater, GIS, remote sensing and hydrologic and hydrogeologic modelling.

[ozdemir.ayfer@gmail.com](mailto:ozdemir.ayfer@gmail.com)

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