

Carbonate Microfacies and Diagenesis of Klapanunggal Formation in Cileungsi District, Bogor Regency, West Java Province, Indonesia

Authors : Reghina Karyadi, Abdurrokhim, Lili Fauzielly

Abstract : Administratively, the research area is located in Cileungsi District, Bogor Regency, West Java Province, Indonesia. Geographically, it located at 106° 56' 1,9392" - 107° 1' 27,8112" East Longitude and 6° 32' 29,3712" - 6° 27' 5,6124" South Latitude. This research is being held as a purpose to observe microfacies and limestone diagenesis that happened in the study area. Dominantly, the area fulfills of various hills that formed by carbonate and sediment stones which folded and faulted. The method that using in this research is analysis the outcrop data and petrography by using red alizarin for differentiating of minerals type. Microfacies type and diagenesis processes can be known from petrography analysis results like rock texture, rock structure, porosity, type of grain and fossils. The result of research shows that carbonate rocks in the study area can be divided into 3 types microfasies, which is Reef Microfacies (SMF 7), Shallow Water Microfacies (SMF 9), and Textural Inversion Microfacies (SMF 10). Whereas diagenesis process that happened is microbial micritization, compaction, neomorphism, cementation and dissolution process.

Keywords : carbonate, limestone, microfacies, diagenesis

Conference Title : ICGMP 2016 : International Conference on Geosciences, Mineralogy and Petrology

Conference Location : Madrid, Spain

Conference Dates : March 24-25, 2016