

Interpretasi diagenesis batupasir formasi cipacar berdasarkan data singkapan di Kecamatan Banjarsari, Kabupaten Lebak, Provinsi Banten = Sandstone diagenesis interpretation of cipacar formation based on outcrop data in Banjarsari District, Lebak Regency, Banten Province / Farhan Ghifari Mahesa

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Abstrak

ABSTRAK

Pada kebutuhan industri, terutama di bidang eksplorasi migas dan hidrogeologi, nilai porositas pada batuan dianggap sangat penting. Porositas pada umumnya terdapat di batuan sedimen, khususnya batupasir yang terdapat Formasi Cipacar. Penelitian ini bertujuan untuk mengetahui karakteristik batupasir, nilai porositas, proses diagenesis, dan hubungan antar porositas dan diagenesis. Data penelitian ini didapat dari singkapan permukaan dan dilakukan analisis petrografi. Hasil penelitian ini menunjukkan bahwa batupasir Formasi Cipacar memiliki nilai porositas antara 8-14% dan telah mengalami proses diagenesis berupa kompaksi, sementasi, dan pelarutan yang termasuk dalam rezim mesogenesis.

ABSTRACT

On industrial needs, especially in oil & gas and hydrogeology exploration porosity in rock is considered valuable. Porosity in rock basically available in sedimentary rock, particularly sandstone in Cipacar Formation. The aims of this research are to examine sandstone characteristic, porosity value, diagenesis process, and implication between porosity and diagenesis. The data of this study were obtained from surface outcrops and petrographic analysis. Results of this research show that sandstones in Cipacar Formation have porosity value between 8-14%, and have undergone diagenesis process such as compaction, cementation, and dissolution which classified in mesogenesis regime.