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Features of epigenetic dolomite transformations in the Syukeyevskoye bitumen field

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Abstract

Syukeyevskoye bitumen field is one of perspective for development of open pit mining in western part of the Republic of Tatarstan. Basically two predominant stages in the process of epigenetic rock transformations were discriminated on the basis of field and laboratory data. The first stage associates with the fluids penetration in biomicritic dolomites and the hydrocarbon accumulation. The second stage associates with hydrocarbon oxidation. One can resume that leaching processes dominate at the stage of hydrocarbons penetration within dolomite rocks, and metasomatic processes dominate at hydrocarbon oxidation stage. These features can be used as key for understanding rock formation history in other similar cases.

Keywords

Authigenic minerals, Bituminous dolomites, Epigenetic transformation