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## Diagenetic dolomite reservoirs in carboniferous rocks of Melekes depression and South-Tatar arch

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### Abstract

It was studied secondary dolomite reservoirs in Carboniferous oil saturated carbonate rocks from the Melekes depression and South-Tatar arch. It was revealed three morphological types of non-anticlinal dolomite traps: lenticular, one-layer, multilayer. It was found that the development of lenticular dolomite traps confined to zones of oilwater contacts, one-layer to flanks of anticlinal uplifts which connected with the migration ways of oil-water fluids (tectonic faults, erosion incisions). It was suggested the mechanism of formation dolomite reservoir due to the oxidation of hydrocarbons and upward migration of carbon dioxide deep fluids.

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### Keywords

Diagenesis, Dolomite, Hydrocarbons, Oil-water contact, Reservoir