

## **Geology of the Lower Cretaceous of the Black Sea-Crimean oil and gas bearing region**

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On the basis of the analysis and generalization of the newest geological-geophysical data and deep drilling results within the north-western Black Sea shelf and the adjacent onshore Plain Crimea, Northern and Western fore-Black Sea region the geological structure has been specified and the oil and gas perspectives of the Lower Cretaceous deposits of the Black Sea-Crimean oil and gas bearing region have been scientifically grounded as well as the priority directions of geological-exploration works for oil and gas in the region have been determined.

The lithological-facial, mineralogical-petrographic and lithogeochemical analyses have been made, the litho-facies of the four Lower Cretaceous sections have been typified, depositional environments for all stages of the Lower Cretaceous have been clarified and the main processes of the catagenetic mineralogenesis in Neocomian-Aptian and Albian deposits in the region have been described, the stages of oil generation and hydrocarbons accumulation as well as the formation of the optimum reservoirs zones have been determined. Based on the performed complex of investigations the main directions of geological-exploration works on Lower Cretaceous terrigenous complex of the Black Sea-Crimean oil and gas bearing region have been grounded.