

## **Effective Search, Prospecting and Sustainable Development of the Oil Reef Fields Using the Example of the Low Volga Region (Russia).**

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The reef system of Frasnian age forming the edges of the Umyetovsk-Linyevsk Depression in the Low Volga Region has high oil and gas bearing capacity.

Highly promising areas are revealed by the method of complex geological analysis based on the search of large oil accumulations. Development and application of new geological and geophysical methods in the process of reef search ensure high prepared prospects verification in the promising zones. Usage of the advanced method of reef search and exploration increases much the efficiency of deep drilling, and the costs of reserves increment are essentially reduced. Innovative prospecting techniques assure high success of geological exploration. E.g. with realization of such geological methods a large oil accumulation of Pamyatno - Sasovsk field was discovered.

A great progress was achieved in reef development of the Low Volga Region. The new technology of drilling and tapping of producing formations ensure high well productive capacity. The specific system of reef fields development based on the combination of the exploration and production stages results in reduction of the number of producing wells required for field development. Effective search, prospecting and sound development of the reef fields provide a permanent increase and oil production stabilization in the old oil region with a high degree of development of the initial oil recourses.