

## **Oil and Gas Potential of Local Structures in the North of the Pre-Ural Foredeep.**

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The purpose of our researches consist in revealing on the basis of the statistical analysis of interrelations between various structural - morphological parameters of local structures of northern part Pre-Urals foredeep and probable their oil and gas potential and also paleotectonical of the analysis of a history of immersing in this territory with the subsequent forecast of perspectiv objects on detection of oil and gas. For reception of necessary result we used a principle of the range of parameters with a certain sample by of increasing of perspective of geological objects.

The main point of rank classification consists in following: the basis is undertaken by parameters, describing as local structure, and number of parameters, reflecting a geological structure of a larger structural element, in limits of which these structures are located. Each of parameters is broken into certain intervals, which get the ranks it depends on increasing of the perspective of parameters' meanings, about which will be marked below. Then these ranks are summarized and the diagram of their distribution is built on them. For a conclusion of critical meaning of ranks' sums, on which it will be possible to define a degree of perspective of this or that structure, the parameters' meanings of those structures are taken, where the deposits of gas and oil and empty structures are already revealed. In result, according to the character of distribution the perspective of this or that structures is defined with the help of critical meaning ranks' sums.

At realization of rank classification of local structures of Upper Pechora, Bolshesynya and Kosyu-Rogov depressions data on 44 structures were used, on 9 of which already deposits are revealed. The special interest is in structures with a sum of ranks exceeding or equal 14. These structures can be referred, on our data, to prime objects for statement of exploration in oil and gas. They include North Vuktylskaya in Upper Pechora depression, Uldor-Kyrtynskaya - in Bolshesynya depression and Amshorskaya, Voravozhskaya, Kochmeskaya, Povamitskaya and Ust-Lemvinskaya - in Kosyu-Rogov depression. To poorly perspectiv objects it is possible to attribute structures in Upper Pechora depression - East-Shor`elskaya, Patrakovskaya, in Kosyu-Rogov depression - Verhnelyagskaya and other with sums of ranks equal 8; 9 and 10.

Thus, during research works classification model of the forecast oil and gas potential of local structures is created, in a basis of which there must be the range of geological parameters on their oil and gas bearing complexes. Due to this model objects in northern depressions Pre-Urals foredeep, the most perspectiv for detection in their fields of petroleum and gas are planned.