

While analyzing of regular statistics of oil reserves for more than 30 oil reservoirs we discovered that they had always been corrected and reflected the increase of such reserves. This lead us to some idea that the oil reservoirs are replenishing and may be this process not only natural and could be controlled.

In previous years we have been researching the topic of managing the stressed state of the medium and come to conclusion that the Earth is a perfect self regulating energy system that can easily redistributes and produces stress in order to compensate the external energy. Such redistributions and transfers of energy are channeled through network of different sites and lengths fractures.

It seemed to us that such constant energy exchanges may influence to the carbohydrates reservoirs replenish. So we have designed and implemented the Technology based on Eurasian Patent No. 001474, which allows to control such processes using vibro-influences which we regularly applied from earth surface in order to improve oil production and recovery.

As for increasing oil production while implementing such technology for around 8 years at the oil fields of JSC “Tatneft” oil company, Tatarstan, it clearly shown in the figure 1. As for positive results of improving oil recovery it came from the recent analyses of oil reserves on the nine blocks.

During implementation the Technology we observed remarkable changes of various geophysical fields proving another effect of the Technology, which is to reduce negative stresses, appeared in the medium as a result of uncontrolled oil producing for many years.

In the text of description, the conclusion is made that in order to conduct ecologically correct tactics of oil production aiming at preserving oil banks in their natural state for the maximally long period of time, and increase oil recovery of layers, exploitation of each deposit, volumes and speed of oil production and pumping up of water into layers, should be co-ordinated with the registered changes of the geophysical fields levels.

Besides data on registration of microseismic, gravitational, and electromagnetic fields the Technology is also based on the materials of topographic measurements. The results of vertical movements of the earth surface measurements are of a great importance since they show accumulation of stress in the medium. Together with other geophysical information, this data allows us to calculate more precise model of the stressed state of the medium, and, correspondingly, model and parameters of influences.

Nevertheless, apart from vertical movements, data on studying horizontal components of earth surface movements is not of a lesser importance. Studying horizontal movements allowed us to make unexpected conclusions. On the figures 2 and 3 we present examples of disposition of topographical observation points on the territory of Pervomayskoe oil fields and the directions of horizontal movements vectors from each of these points for the different periods of time, year 1996-1997 and 1999-2000. The same results obtained at all another oil fields. Value of the vectors reflects the intensity of horizontal movements in one or another direction. On all graphs, taking into account the scale of the graphs, values of the vectors are presented 2000 times greater than real ones.

From the comparison of graphs follows that:

- in the first years directions of horizontal movements had a chaotic character, yet, gradually, for each deposit vectors lined up along certain direction;
- initially, values of horizontal movements on Pervomayskoe deposit were greater than the ones on Bondujskoye deposit;
- with a time values of vectors became smaller and smaller on both oil fields, and, by the year 2001, horizontal movements practically stopped.

Than the maps of vectors' disposition in 1996-1997 were compared to the aerospace materials. Most unexpectedly, it turned out that lineaments of the earth surface have the same, initially appearing to be chaotic, direction as the direction of horizontal movements vectors in these years. Later, as was already pointed out above, vectors gradually took the directions along certain lines for each of the oil fields.

It should be noted that yet in 1996, when we were gathering initial geological, geophysical and technological information, the map of aerospace observation amazed us. The lineaments were not reflected in tectonic maps of the region. Only five years after the beginning of works, when sufficient material was accumulated and mentioned above comparisons were made, the real nature of these lineaments started to become clear.

Therefore, conducted analysis has led us to unexpected results and conclusions, and showed once more ecological correctness of the developed by us Technology, which has no analogy in the world.

First of all, we can assert that aerospace lineaments map does not reflects the tectonics only, but caused by uncontrolled exploitation of oil fields artificial division of the territory into separate energy blocks.

Second of all, the fact that in the year 2001 vectors of horizontal movements took the same direction attests that as a result of our Technology application we succeeded in correcting significant disturbances in the medium caused by uncontrolled oil exploitation.

Thus, by conducting our works of correctly organised vibro influences on the territory of Pervomayskoye and Bondyujskoye oil fields, we managed to bring the medium to the energy and structurally homogeneous state.

But the most surprising result for us was the developed opinion that the Technology allows not only increase oil production and recovery, but may be leads to form new oil reservoirs. We cannot discuss the mechanism of such phenomena only we can say that possibly carbohydrates infiltrated through fractures from the depths.

Currently, we have found out three new oil basement at the depths beneath surface of crystal layer. The JSC Tatneft made at the points we have been shown their own geophysical-geological measurement and investigations, which already proved our results. And JSC Tatneft started to drill already.

In the light of the said above, we think that reserves of carbohydrates can be reproduced and therefore are unlimited, as long the Earth remains energetically active.

Oil production changes in tons in Pervomayskoye, Bondyujskoye and Komarovskoye oil fields (January, 1988 - February, 2002)

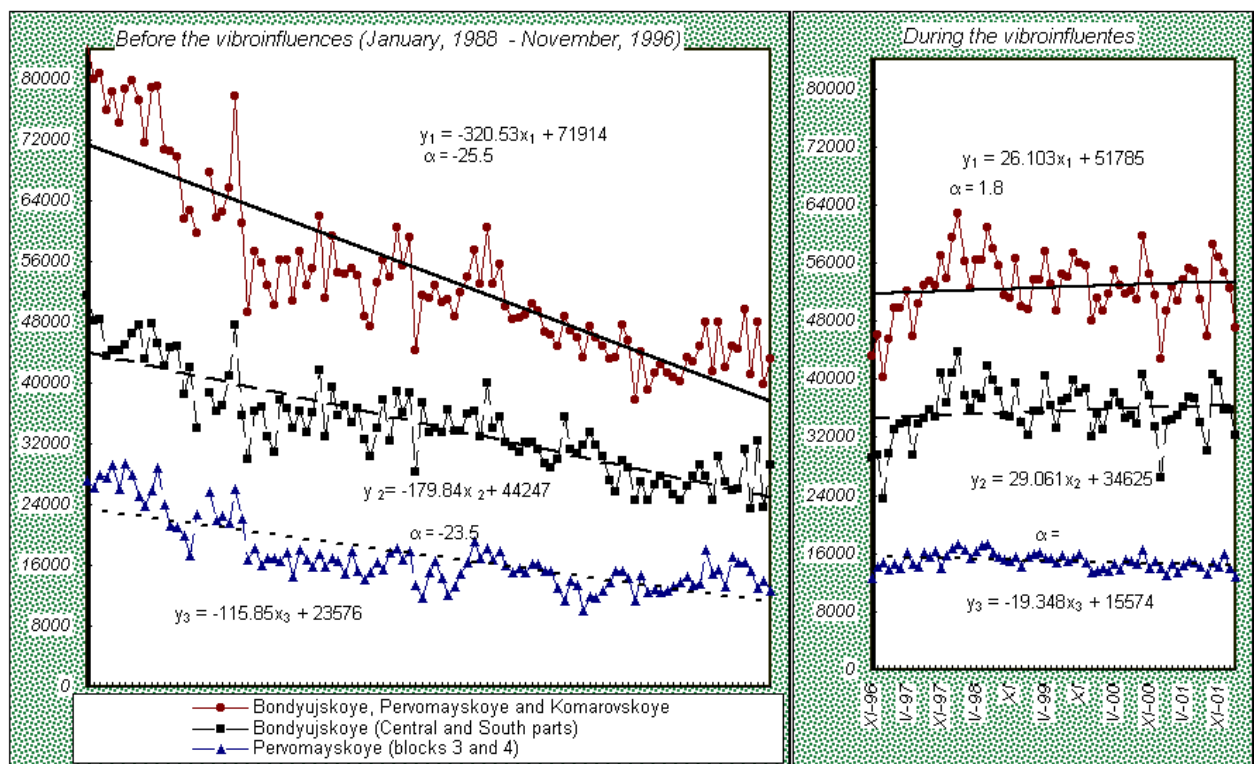


Figure1

Topography observation points with vectors of horizontal surface motion at Pervomayskoe oil field in 1996 -1997

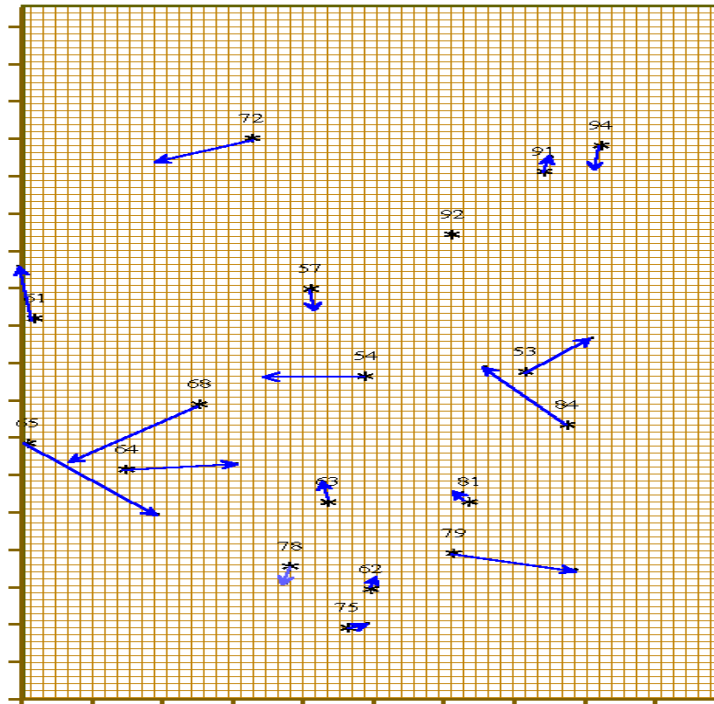


Figure 2

Topography observation points with vectors of horizontal surface motion at Pervomayskoe oil field in 1999 - 2000

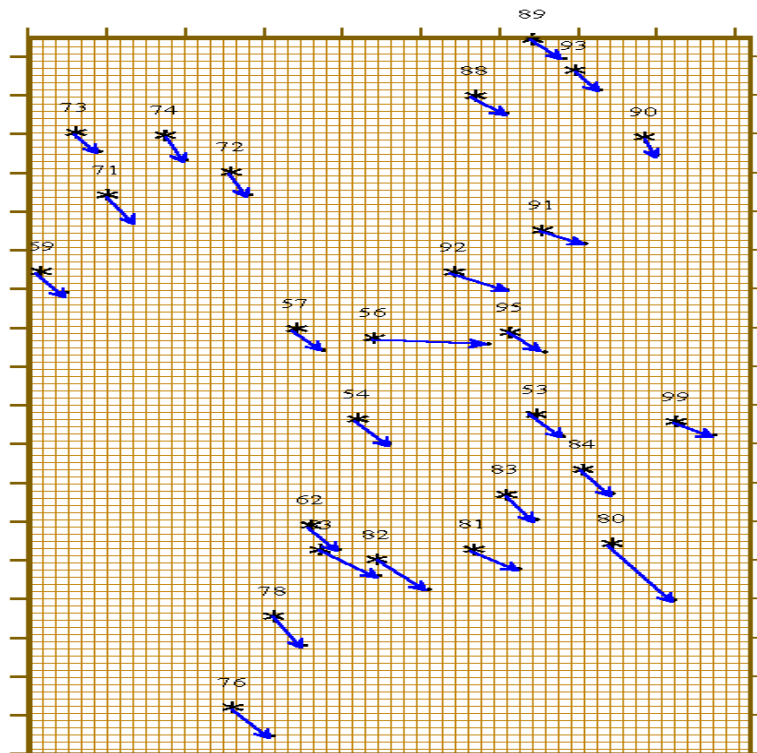


Figure 3