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# Analysis of the Yaregskaya Oil with Underlying Deposit "Lower Placer with Genetic Unity, Migration Consequences and Transition of Metals in Oil

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**Abstract:** The paper aims to figure out Analysis of the Yaregskaya oil with underlying deposit "lower placer with genetic unity, migration consequences and transition of metals in oil.
By using descriptive method for primary model, synthesis methods and process analysis and analysis of difficulties and discussion, The study of this problem point that, In general, assessing the possibility of toxicological impact on the environment of oil Caspian region and the sale of products of their processing, it should be noted a relatively low PTE enrichment for subsalt productive deposits. Last but not least, it can be concluded that there is no genetic, migratory and structural connection of the Yaregskaya oil with underlying deposit "lower placer". Three options may be equal in rights: genetic unity; migration consequences; transition of metals in oil within the structure by contacts or violations. But in the latter case, one must take into account the extremely low solubility of titanium and only in highly acidic environments.

**Keywords:** Yaregskaya Oil, Underlying Deposit, Metals in Oil, Composition, Oil and Gas Fields.



## INTRODUCTION

Several field seasons spent in this region made it possible to collect quite a significant amount of material on the metal content of CCI oil, sharply expanding it representativeness compared to those previously available.

As part of the systematic study of the metal content of oil, which we started in 1987, province, it turned out that many newly discovered deposits or their deposits were not explored for metal content. Therefore, on a single methodological basis, tests were carried out many, especially new deposits, that turned out to be available for these purposes, and subsequently, analytical studies were carried out, mainly in VNIGRI. Their purpose, in those years, there was an assessment of the industrial significance of petroleum V and Ni as raw materials for metallurgy.

The paper presents related studies and Analysis of the Yaregskaya oil with underlying deposit "lower placer with genetic unity, migration consequences and transition of metals in oil

**Research Questions**

**Question 1:** What are related researches and Analysis of the Yaregskaya oil with underlying deposit "lower placer with genetic unity, migration consequences and transition of metals in oil?

## METHODOLOGY

Authors have used qualitative and analytical methods, descriptive method for primary model, synthesis and discussion methods in this paper.

We also used historical materialism method.

## MAIN FINDINGS

**Analysis of Problem**

In general, the CCI retains the general natural relationship of increased metal content of oil and bitumen with areas: tectonic-magmatic manifestations; inversion of productive strata, their exits to the surface in the zone of hypergenesis; with areas complicated by aulacogens, block dislocations, faults, especially deep ones; abnormal concentrations metals in rocks containing them, etc.

We studied in most detail two deposits in the province - Yaregskoye and Usinskoye (ÿ-ÿ), heavy oils of which are quite intensively developed and have significant reserves. Metal-containing oils of the Varandey-Adzva zone are not yet available for development due to lack of infrastructure. But the

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possibility of their ecological impact on the environment will be much more contrasting, especially for Ni of the Toboy and Myadsey deposits - 150 and 100 g/t, respectively Yarega deposit. Associated with a wide anticlinal fold in the northwest Ukhto-Izhma swell within the northeastern slope of Timan. Deposit in fractured-porous sandstones D2+3 is broken by numerous disjunctive disturbances on blocks.

This is one of the most interesting oil fields in terms of development methods in the world. Its main deposit with heavy oil is 0.945 g/cm3, located at depths of only 100-200 m, with it has geological reserves of 337 million tons. It is developed by a mine method, which allows you to study the deposit visually, and not only by cores. Figure 1 shows geological profile of the Yaregskoye field.

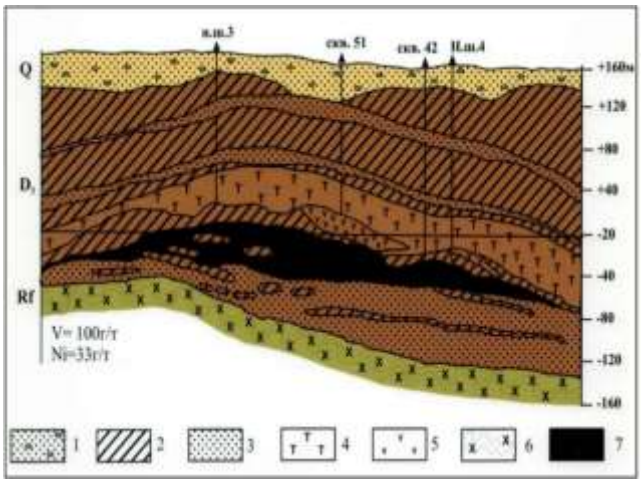


**Figure 1.** Geological profile for the Yaregskoye field, layer III
1 - Quaternary deposits, 2 - mudstones, 3 - sandstones, 4 - tuffites, 5 - Diabases, 6 - metamorphic shales, 7 - oil.

Yarega is the largest complex metal-oil field in the region: titanium leucoxene sandstones D2 and oil in the upper part of the structure - D3-D2. Leucoxene sandstones are considered as a buried placer. Their thickness is 30-100 m uncomfortably on Riphean metamorphic schists. The content of leucoxene in the upper part placers up to 30%, TiO2, it contains 58-72%. There are also tantalum and niobium. placer formation attributed to the weathering of the Riphean slates. This deposit is of interest from the point of view in terms of solving the genetic issues of oil and the presence or absence of a connection between metal-bearing rocks and oil within a single structure, although hypsometrically and stratigraphically separated.

The result of the study turned out to be rather peculiar - titanium was not detected in oil or not deciphered on the spectra. The only exception is one sample - extraction oil, containing 142 g/t of titanium. The conditions for her selection are not clear. It would be very interesting to carry out these research in more detail. In the case of a reliable exclusion of titanium content in oil - it can be concluded that there is no genetic, migratory and structural connection of the Yaregskaya oil with underlying deposit "lower placer". If the connection is confirmed, the output will become indefinite, because three options may be equal in rights: genetic unity; migration consequences; transition of metals in oil within the structure by contacts or violations. But in the latter case, one must take into account the extremely low solubility of titanium and only in highly acidic environments.

It is also important to evaluate the possibilities, mechanism, and kinetics of the transition not only for Ti, but also for Ta and Nb into a state soluble for oil (water) and the scale of such a process, especially tantalum, as toxic element.

## DISCUSSION AND CONCLUSION

In general, assessing the possibility of toxicological impact on the environment of oil Caspian region and the sale of products of their processing, it should be noted a relatively low PTE enrichment for subsalt productive deposits. Last bit not least, it can be concluded that there is no genetic, migratory and structural connection of the Yaregskaya oil with underlying deposit "lower placer".

Therefore, when it comes to the unfavorable environmental situation in these areas, then a significant contribution to its formation belongs to the extracted and utilized oil with PTE.

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**Conflicts of interest**
There is no conflict of interest

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