

## **GEOCHEMICAL STUDY OF BITUMEN FROM BASEMENT ROCKS OF RUSSIAN PLATE.**

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Due to the ultra-deep exploratory drilling program the basement in the East part of Russian platform have been studied well enough. One of the unexpected results was the numerous disclosures of organic matter in basement rocks. The bitumen were relatively being enriched by alkanes toward basement surface. It can be explained by sorbing processes: resins and asphaltenes were sorbing by the surface of mineral grains during migration. Consequently, the bitumen from different intervals form migration path. Content of aromatic hydrocarbons is constant. It also prove that bitumen are allochthonous. If bitumen occurred in such wide range of depths (2 - 5,5 km) were syngenetic, content of aromatic HC would be different because the bitumen are in different stage of thermal maturity. According to some parameters (group and molecular composition C<sub>12</sub> - C<sub>30</sub> etc.) bitumen bear some resemblance with oils from the oil-fields of the region. Last time, investigations of this bitumen is being carried out by methods of GS-MS in geological faculty. Initial results allowed making an unequivocal conclusion about organic origin of discovered bitumen. The presence of organic - originated oils' migration path in the basement of ancient platform can be explained either by assumption that there was a subduction zone in Early - Proterozoic in this region or by the presence of sedimentary lens (underbasement basins) enriched by OM in basement body.