

## **OIL GEOCHEMISTRY AS RESULT OF FLUID-DYNAMIC PROCESS OF OIL GENERATION.**

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Formation of oil fields and oil composition in these fields are complex natural process caused by coincidence of many propitious factors in time and space. Oil as a natural solution reflect in its compound all history of field accumulation process, beginning from peculiarity of initial organic matter to peculiarities of reservoir filling. Oil geochemistry is result of basins fluid-dynamic regimes. Variety and completeness of fluid-dynamic regime of most giant oil - bearing basins (West-Siberia, Pre-Caspian etc.) determine the variety of oil composition - mixing, graduating maturity of different compounds, presence of inject and second generated oils. The most multilayer fields (Tengiz, Karachaganac) are characterized by successive mixing of oil composition and its fractionation due to thermodynamic situation. The fluid - dynamic concept of oil generation supposes the revolutionary vertical breaks of vast mass of fluids and energy. It lead to forming so named inject oils, composition of which is not conformed with environmental conditions. To this group belong also hydro - thermals oils and oils being formed in local kitchens of initiative generation. Geochemical investigations have shown that there are migration - contamination and initiation mechanisms of oil generation. It is suggests accumulation in the top horizons of total geochemical memory. Using a technique of petroleum component balance, the history of composition formation is restored.