

## **A SPECIFICATION OF THE GEOLOGICAL STRUCTURE FOR THE AGRINSKOYE FIELD (WEST SIBERIA) ON THE BASE OF OILS COMPOSITIONS AND PROPERTIES**

SOBOLEVA ELENA. MSU, geological dpt, Moscow, Russia.

Agrinskoye field is situated in the North of West Siberia. The most part of its deposits has not got common horizontal oil-water surfaces; they are usually interpreted as inclined; the variations of oil-water surface positions are explained by changes of collectors. The study of oils properties and compositions has allowed to do new explanation of oil-water surface structure: its position is determined by presence of low-amplitude faults breaking the layers deposits on separate blocks. The variations of physico-chemical parameters of oils along the layer are not submit to a principle of gravitational differentiation for fluids: the oils are more heavy at the arc part of a deposits and they are more light at the wings of arc. The light oils are found in northern place of structure although it is the most low its part. There is marked migration of light HCs along some faults from the lower deposits being now under conditions of oil window. The processes of migration have the influence on the oils composition and distribution HCs from light fractions: increase isoalkanes and meanings of degree of oil katagenesis is observed upwards the vertical cross sections through the deposits. It is marked the increase of ratio pristan/phitan in zones conducting faults. A factor the analysis of the geochemical data has confirmed conclusions, the deposits Agrinskoye field are broken low-amplitude faults.