

UPPER JURASSIC-NEOCOMIAN GENERATION-ACCUMULATION PETROLEUM SYSTEM OF WEST SIBERIA

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The Upper Jurassic and Neocomian deposits of the West Siberian megabasin form a single generation-accumulation system, in which the oil-generative formation is represented by the Bazhenov Formation (Tithonian-Lower Berriasian) uniquely enriched in organic matter. Oil migrated from the Bazhenov Formation to over- and underlying reservoirs. The reservoir of sandy horizon J1 occurs at the base of the system. The Bazhenov Formation acts as a seal. The Bazhenov Formation is overlain by the Neocomian oil and gas reservoirs composed of a series of clinoform geological bodies. In some clinoforms oil and gas reservoirs are represented by shelf and deep-water sandstones isolated from each other. The Alym Formation clays (Aptian) serve as regional seal for the Neocomian reservoirs. The deposits of the Bazhenov Formation entered the principal zone of oil formation at the close of the Upper Cretaceous and are still there to the present time. The map of organic matter maturity (catagenesis) has been constructed for the deposits of the formation. The comparative investigation of composition of bitumens from dispersed organic matter and oils has been performed and genetic relationships has been established in the chain hydrocarbons of dispersed organic matter- oil.