

GEOLOGY AND PETROLEUM POTENTIAL OF THE PRE-MESOZOIC DEPOSITS ON THE LEFT BANK OF THE YENISEY RIVER (KRASNOYARSK KRAY)

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The Precambrian and Paleozoic carbonate strata overlying the Mesozoic and Cenozoic terrigenous deposits are widespread on the left bank of the Yenisey River. They contain rock salts, reef buildups and are reliably correlated with the coeval formations of the Siberian Platform, within which a number of oil and gas fields have been discovered. Well Lemok-1 drilled 80km west of Yenisey has penetrated the Lower Cambrian dolomites containing oil in pores and caverns. Presence of aqueous bitumens and residual-syngenetic hydrocarbons in the sections of adjacent wells allows us to consider the Pre-Mesozoic deposits of the region as a perspective oil- and gas-bearing target. Anticlinal uplifts, salt dome structures, reef buildups, zones of faults and breaks in sedimentation, desintegration and uncompaction zones detected from geologic-geophysical data can serve as potential hydrocarbon traps.