

PROJECT «THE TYUMEN SUPERDEEP WELL»: BASIC RESULTS PROJECT «THE TYUMEN SUPERDEEP WELL»: BASIC RESULTS

1GORBACHEV, V.I, 1BELOKON, T.I, 2PONOMAREV, V.A, 2KUCHEROV, G.G., 3KEKUKH, S.G., 4RYLKOV, S.A. 1Scientific Research Center Nedra, Yaroslavl, Russia; 2Gazprom, Moscow, Russia; 3Administration of Yamalo-Nenetsk Autonomous District, Salekhard, Russia; 4Committee on Natural Resources of Yamalo-Nenetsk Autonomous District, Salekhard, Russia

The Tyumen Superdeep Well, 7502 m in depth, is drilled into the central portion of the Koltogor-Urengoy paleorift system in the vicinity of the Urengoy gas-condensate field, largest one in Western Siberia. Within the depth interval of 3785-7502 m a most complete sequence of deep Jurassic, Triassic, and Permian deposits is penetrated. Drilling was carried out with considerable coring (almost 2000 m) and high core recovery (70%), which allowed to obtain unique data necessary both to develop theoretical aspects of studying deep oil- and gas-generation, and to evaluate oil- and gas content in deep-seated Lower Mesozoic - Upper Paleozoic deposits. Regularities of changeability of capacity-filtration properties of reservoir rocks and shielding ability of aquifuge were ascertained. Thermodynamic and hydrogeological conditions influencing phase behaviour of hydrocarbons were studied. The lower boundary of commercial oil presence was verified. The obtained information, principally new for the region, allows to essentially correct the notions about geological structure and oil- and gas content in the deep sequences of the northern West-Siberia.