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# **A CASE STUDY OF VERKHNESIBIRSKOYE FIELD: THEORY AND PRACTICE OF EASTERN SIBERIA COMPLEX RESERVOIRS DEVELOPMENT**

Alexander graduated from Irkutsk State University in 2001 with a degree in Petroleum Geology. He started his professional career as an operator in the exploration of oil and gas wells, received further production experience as a field geologist, a petroleum production foreman, head of reservoir engineering department, head of development of a group of fields, head of geological exploration division.

A number of years Alexander worked in designing and supervision of field development at the Tyumen Petroleum Research Center. Currently he works as Chief Geologist in VCNG branch of Rosneft Oil Company, supervises the issues of geology and development of Verkhnechonskoye field and the license areas of Eastern Siberia.

### **ABSTRACT**

At present, a number of large greenfield deposits are being developed in Eastern Siberia, Russia, one of which is Verkhnechonskoye oil and gas condensate field.

The report describes the evolution of reservoir engineering solutions, starting with the first steps in defining a development system based on pilot well operation, till full-field development, addressing new challenges in operating the wells in low-temperature reservoirs and maintaining the production plateau through new development approaches for zones with poor reservoir properties and under-gas-cap zones.

For the first time in domestic oil and gas production on a regional scale, geologists have faced with a highly mineralized sequence where the pore space of productive horizons can be completely filled with salt. The paper pays special attention to the experience of modeling the displacement processes in a saline reservoir, as well as risk management in making decisions on saline reservoirs development.