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## **INTEGRATED MODELING AND OIL-GAS ASSETS EVALUATION UNDER UNCERTAINTY. VISION, TECHNOLOGICAL CAPABILITIES, AND CHALLENGES**

Graduated from State Academy of Oil and Gas named after I.M. Gubkin as an Engineer-mathematician, Dmitry Bolotnik has more than 20 years of experience in oil-gas industry.

Dimitry Bolotnik has been working in ROXAR since 1995, currently he provides strategic guidance of the company and interaction with key Clients. D.N. Bolotnik is the author and co-author of the numerous scientific publications and presentations at conferences and seminars.

### **ABSTRACT**

Currently, in the field of geological and hydrodynamic modeling the leading companies present a number of software products that provides full circle of functional. Starting from log data and seismic data interpretation, goes through geological and filtration modeling to support and optimization of surface infrastructure.

Due to the wide range of functionality of purpose solution, users of such software systems can use not only hi-tech technologies for geological and hydrodynamic modeling, but also to create and to use integrated models of fields, taking into account economical situation and probable development scenarios.

The main subject of this report is integrated modeling of oil and gas assets with the purpose of maximizing the integral effect from their development. Herewith, special attention is paid to the technologies of uncertainty analysis and risk reduction.