

Special Issue

The Optimization of Well Testing Operations for Oil and Gas Field

Message from the Guest Editors

The main tool for obtaining information about the state of the field at all stages of the life of the field is well testing. Conducting hydrodynamic studies in horizontal wells encounters significant difficulties. This is due to the delivery of instrumentation to the horizontal part of the wellbore, the absence of specially designed instrumentation systems for these purposes, and imperfection of the methods for processing the results of hydrodynamic studies of horizontal wells, leading to significant errors in determining the filtration parameters of the reservoir. The problems associated with the interpretation of the results of hydrodynamic studies of horizontal wells belong to the class of inverse problems of underground hydromechanics. In this regard, the development and improvement of equipment, technology and methods of interpretation of hydrodynamic studies in horizontal wells are urgent tasks of underground hydromechanics and oilfield practice for solving problems of oil field development.

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