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.

Guest Editors

Dr. Dmitriy Aleksandrovich Martyushev

Department of Oil and Gas Technologies, Perm National Research Polytechnic University, 614000 Perm, Russia

Prof. Dr. Freddy Humberto Escobar

Department of Petroleum Engineering, Universidad Surcolombiana, Neiva 410001, Colombia

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Energies
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
energies@mdpi.com

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Editor-in-Chief

Prof. Dr. Enrico Sciubba
Department of Mechanical and Industrial Engineering, University Niccolò Cusano, 00166 Roma, Italy

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