Special Issue

Theory and Key Technologies of Drilling Engineering for Unconventional Oil and Gas

Message from the Guest Editor

Unconventional oil and gas resources are abundant worldwide and have great scope for further exploration and development. In recent years, drilling engineering technology has achieved breakthroughs in this field. However, the path to the efficient and green development of unconventional oil and gas resources still faces great challenges. Generally, these resources are found under complex geological conditions and harsh operating environments, engendering a series of technical challenges for drilling engineering. Thus, innovative research focusing on key issues in the drilling process could provide a scientific impetus for the realization of technology breakthroughs, which is of great significance to the safe and efficient development of unconventional oil and gas. This Special Issue aims to present the most recent advances in the theory, design, modelling, and control technology for the development of unconventional oil and gas. Topics of interest for this publication include, but are not limited to: All aspects of basic theory, technology, and field application in drilling engineering, cementing, and well completion for unconventional oil and gas.

Guest Editor

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Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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