Special Issue

Deep Oil and Gas Drilling and Production Technology

Message from the Guest Editors

With the development of the global oil and gas industry, the focus of oil and gas studies has rapidly extended from medium–shallow layers to deep and ultra-deep layers, and the types of resources used have drastically shifted from conventional to unconventional. Although some achievements have been made in deep oil and gas exploration in recent years, ultra-deep oil and gas resources in particular have become bottlenecks, restricting the large-scale development of the ultra-deep oil and gas industry due to the difficulty of drilling, complex development methods, large investments in technological research and development, and high production costs. The progress of drilling and production theory and engineering technology are integral to deep exploration and development; the development of deep oil and gas exploration especially depends on technological innovation. There is an urgent need to tackle key technical problems, such as excellent and fast drilling, under complex formation conditions and complex reservoir reconstructions, so as to provide a strong guarantee for the efficient exploration and development of the deep oil and gas industry.

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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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