Special Issue

Applied Geomechanics in Petroleum Engineering

Message from the Guest Editor

Dear colleagues, Petroleum engineering has been the discipline of vital importance in meeting the global demand for energy. Geomechanics has evolved to become a critical area in petroleum engineering. Although drilling a well, whether vertical, deviated or horizontal, is the main vehicle to produce oil and gas from deep reservoirs, it also serves reaching for coal, geothermal energy, gas hydrates, and CO2 sequestration. This Special Issue will focus on all geomechanics problems related to drilling a well into reservoirs at depths for all the objectives mentioned above and the processes occurring in the reservoir following well penetration. Therefore, technical papers are invited in all geomechanics-related areas such as wellbore stability, cementing, perforation, hydraulic fracturing, production, reservoir compaction, subsidence, sand production, geothermal reservoir engineering, gas hydrate production, waste disposal, and CO2 sequestration. Papers of multidisciplinary nature that present innovative solutions are highly encouraged. These geomechanics applications can be related to conventional and unconventional reservoirs.

Guest Editor

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Message from the Editor-in-Chief

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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