Special Issue

Petrophysical Formation Evaluation and Well Logging in Energy Exploration Systems

Message from the Guest Editors

Unconventional oil and gas reservoirs—such as shale oil/gas, coalbed methane, and tight oil/gas—often exhibit response characteristics that differ significantly from those of conventional reservoirs. Traditional petrophysical methods and formation evaluation technologies lose their effectiveness in these settings. As a result, geologists have placed higher demands on well log evaluation, interpretation methods, models, and related technologies for unconventional oil and gas resources characterization, “sweet spot” prediction, effectiveness evaluation, and productivity research. To advance both conventional and unconventional reservoir characterization, it is necessary to develop new technologies related to petrophysical experiments, well logging data processing and interpretation, theoretical modeling, and digital rock analysis.

This Special Issue focuses on petrophysical characterization and well logging evaluation techniques for both conventional and unconventional reservoirs.

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

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