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Multiscale and Multiphysics Processes in Unconventional Formations 2020

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Message from the Guest Editors

Dear Colleagues,

The emergence of production techniques for unconventional reservoirs has had a transformative effect on the oil and gas industry. Initial productivity decreases markedly after a few months. Research and development activities are required to increase long-term productivity by unveiling storage and production mechanisms that are poorly understood at present. Given the inherent multiscale nature of the rock fabric, spanning 10 orders of magnitude in spatial scales, advances in multiscale characterization and modeling techniques are needed. This Special Issue welcomes research studies on unconventional multiscale reservoir characterization, geochemical, geomechanical and geostatistical studies, model systems, phase behavior in tight rock, and modeling methods of the variety of physicochemical processes in unconventional formations.

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Guest Editors



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Special Issue



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Message from the Editor-in-Chief

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