

# Can mudstone be used as a reservoir

The results yield improved estimates of effective permeability in heterolithic, cross-bedded sandstones, which can be used to populate reservoir-scale model grid blocks using estimates of mudstone ...

Based on the autogenic and self-storage characteristics of biological gas reservoirs, a quantitative identification model of formation stratum lithology is established, a characterisation ...

The mudstone T 1 -T 2 map in Figure 11C shows a large amount of organic matter and a small amount of oil content in the region 1 and 3, the mudstone facies may be a source ...

The paper shows how mudstone porosity varies with depth and details the controls on mudstone porosity at various stages of burial. Finally, the paper addresses CCS top-seal leakage risks.

As renewable energy storage needs grow exponentially, mudstone's journey from overlooked sediment to engineered reservoir demonstrates how rethinking &quot;problem&quot; materials can yield sustainable ...

It can promote the stratification of mudstone particles and aggravate the deterioration of mudstone strength. This demonstrates that erosion and wedge actions in mudstone mutually ...

Milliken and Curtis (2016) describe 32 petrographic methods that can be used to examine sedimentary rocks. This entry presents the basics of the common petrographic methods that currently find ...

Hou et al. (2022) used numerical simulation technology to compare the self-sealing mechanisms of the Qingshankou Formation shale in the Songliao Basin, the calcareous mudstone of ...

Since the content of adsorbed gas in mudstone reservoirs is much larger than that in sand-stone reservoirs, only large scale hydraulic fracturing can achieve higher yields and longer...

Mudstone is the most abundant sedimentary rock and variously acts as sources, seals, and shale gas reservoirs in petroleum systems. Many important physicochemical properties of ...

The geological complexity of the Duvernay Formation in the subsurface identified in this study can be used as an analogue for other organic-rich mudstone plays which are still in their ...

The sand rich facies (HCSS, TCBS and MS) are classified as net-reservoir facies and BS, WFBS and mudstone are classified as non-net-reservoir facies. We also presented here a ...

At the same time, the crisscross mudstone can be used as both caprock and source rock, and the full contact

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between source rock and reservoir has a great influence on oil gas accumulation.

The reliable accuracy of MICP can reach to 3 nm (Katz and Thompson, 1986), and T<sub>2</sub> spectral data from NMR can be converted to PSDs (Li et al., 2015a). In this study, FE-SEM imaging, ...

This paper presents digestible discussions of changes in mudstone paradigms, the most effective practices consistent with modern understandings of mudstones, and considers areas that ...

Furthermore, a mathematical model of whole lithologic pressure diffusion considering the transition reservoir and mudstone formation is established. The model can reflect the effect of ...

The influence of carbonate cementation and mudstone-sandstone strata patterns on reservoir quality is more specifically illustrated by two typical wells shown in Fig. 18.

Together, these three elements constrain the unconventional reservoir quality of a target mudstone unit. Because mudstones are fine-grained (<math>< 2.5 \mu\text{m}</math>) and heterogeneous it is challenging to ...

In this study, the delta-front-facies, low-permeability sand-mudstone interbedded reservoir of the Ansai district, Ordos Basin, is used as a case study. The reservoir characteristics of ...

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