# Can mudstone be used as a reservoir

How to evaluate mudstone reservoirs in different depth?
It is a fast and effective method to qualitatively evaluate the relative gas content of mudstone reservoir in different depth by using resistivity and neutron or uranium and neutron overlap. The method is to find a depth that makes its overlapping area relatively minimum.

What is the gas reservoir space in mudstone?
The gas reservoir space in mudstone is mainly composed of mineral matrix pore and micro-fracture. Figure 6 shows the SEM images of the intergranular pore,intragranular pore and micro-fracture in the core samples of the A2 well mudstone reservoir.

What is mudstone used for?
Abstract. Mudstone is the most abundant sedimentary rock and variously acts as sources,seals,and shale gas reservoirs in petroleum systems. Many

Are mudstone reservoirs fracturable?
The average proportion of these minerals is 47.8% of clay minerals,38.9% of quartzite,2.9% of feldspar,2.6% of calcite,2.7% of dolomite and 5.1% of pyrite,respectively (Fig. 4 (b)). Brittle minerals include quartz,calcite and dolomite,the sum of which is 44.2%. This indicates that mudstone reservoirs are fracturable.

What type of rock is mudstone?
Mudstone is a type of sedimentary rockthat consists of a variety of types,including siltstone,claystone,and mixtures of the two. It can form thick intervals in deepwater settings and is important as it forms boundaries,seals,and baffles for reservoirs. You might find these chapters and articles relevant to this topic. Jon R. Rotzien,...

Does mudstone reservoir have a high thermal evolution of organic matter?
The data from the 28 mudstone core samples of the Shanxi Formation show that the R o ranges from 3.0% to 3.8% and the average is 3.5% (Fig. 4 (c)),which proves that the mudstone reservoir has a high thermal evolution of organic matter. To the extent,the kerogen release is almost entirely gas.

Ichnological studies have typically played only a minor role in the sedimentological analysis of carbonate reservoirs (e.g. Goldring et al., 2005; Pemberton and Gingras, 2005), although the study of ichnofabrics has long been used in siliciclastic deposits (Taylor and Goldring, 1993; McIlroy, 2004), proving to be a valuable tool for the ...

Gas-bearing mudstones and shale have similar reservoir characteristics, and many shale gas production areas in China are often interbedded with mudstone and shale ...

The disintegration of red-bed mudstone is likely affected by the environment. Acid rain can significantly influence the disintegration process, but the corresponding mechanism remains to be ...

MUDSTONE RESERVOIR CHARACTERIZATION WORKFLOWS: CORE CALIBRATED ELECTROFACIES AND GEOCHEMICAL-GEOMECHANICAL CLUSTER ANALYSIS Patricio Desjardins 1, Chris Achong, Leifeng Zhou1 1: Shell Exploration ...

pressures can be generated within the reservoir by vigorous injection of waste or, over thousands of years, by natural processes. In either case, the precise role of intercalated mudstones in the ...

Research in Paleoclimatology: Mudstone deposits often contain isotopic and geochemical signals that can be used to reconstruct past climates. By studying mudstone formations, geologists can gain insights into ancient climate patterns, helping to refine our understanding of Earth"s climatic history. In summary, mudstone is a fundamental component ...

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The Upper Triassic Mercia Mudstone Group (MMG) forms a seal to the Lower Triassic Sherwood Sandstone petroleum reservoirs in the south of England, in the East Irish Sea Basin and in the Southern and Central North Sea (Fig. 1). Porosity, pore size distribution, mineralogy and petrology of the onshore Mercia Mudstone have recently

Claystone vs. Mudstone: Generalization: The terms "claystone" and "mudstone" are sometimes used interchangeably. However, mudstone is a broader term that includes rocks with a mix of clay, silt, and other fine-grained particles. Claystone is a specific type of mudstone dominated by clay-sized particles. Claystone vs. Schist:

mudstone classification system can be used as a tool for recognizing macrotidal depositional settings, for understanding reservoir flow-unit geometries and for predicting longer-distance ...

Gas-bearing mudstones and shale have similar reservoir characteristics, and many shale gas production areas in China are often interbedded with mudstone and shale rather than single lithology...

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

The efficacy of systemic reservoir characterization of autogenic organic-rich mudstone petroleum systems has not yet been rigorously established, but the underlying principle has its basis in a ...

Mudstone lithofacies have very low to no bitumen storage capacity and are considered nonprospective and would be treated as mining waste rock and excluded from reservoir or ...

To evaluate the reservoir characteristics and exploitation potential of gas-bearing mudstone, a total of 127 mudstone samples from the Shanxi formation were tested by X-ray diffraction (XRD ...

oA relatively defined sequence stratigraphic hierarchy can provide predictive value within a reservoir system oCharacterization of a (carbonate) mudrock is most accurately achieved with the integration of qualitative and quantitative analysis

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