

As the hydrocarbon generation and storage mechanisms of high quality shales of Upper Ordovician Wufeng Formation- Lower Silurian Longmaxi Formation remain unclear, based on geological conditions ...

Influence of tectonic preservation conditions on the nanopore structure of shale reservoir: A case study of Wufeng-Longmaxi Formation shale in western Hubei area, south China ... Pores and fractures are important shale storage spaces, which significantly influences the storage and enrichment of shale gas ... Energy, 240 (2022), Article 122781, ...

Introduction. Forests are important terrestrial ecosystems to store carbon and mitigate global climate change (IPCC 2013), given their great net ecosystem productivity (NEP) and huge carbon storage (both soil and plants; Beer et al. 2010, Pan et al. 2011) pared to Asian tropical and temperate forests, East Asian monsoon subtropical forests have a higher ...

Biostratigraphy and reservoir characteristics of the Ordovician Wufeng Formation--Silurian Longmaxi Formation shale in the Sichuan Basin and its surrounding areas, China ... Energy Geoscience ...

which could be assigned to the weak hydrogen bonds (HBs) between the water molecules. Meantime, the area ratio of weak and medium HBs (at 3357.9 cm⁻¹) increase from 4.8 % and 38.1 % to 11.5 % and ...

The marine shale within the Sichuan Basin constitutes China's significant shale gas production, featuring old formation age, high degree of thermal evolution, multiple tectonic movements, and complex structural conditions. However, there are significant differences in the shale gas preservation conditions and reservoir quality in different areas, limiting future large ...

6 · The bedding permeability of the shale reservoir in the Wufeng-Longmaxi Formation is significantly stronger than the vertical permeability. Shale gas is easy to migrate along bedding ...

The reservoir conditions of Wufeng and Longmaxi formation in Southeast Sichuan, such as large thickness of high-quality shale, high brittle minerals porosity, interact ...

DOI: 10.1002/anie.202215060 Corpus ID: 253397256; Proton-reservoir hydrogel electrolyte for long-term cycling Zn/PANI batteries in wide temperature range. @article{Feng2022ProtonreservoirHE, title={Proton-reservoir hydrogel electrolyte for long-term cycling Zn/PANI batteries in wide temperature range.}, author={Doudou Feng and Yucong Jiao ...

In this paper, through the comprehensive analysis on storage space characteristics, gas saturation properties, rock mineral compositions, and brittle mineral contents for high-quality ...

Wufeng energy storage reservoir

Geological conditions and exploration potential of shale gas reservoir in Wufeng and Longmaxi Formation of southeastern Sichuan Basin, China ... 2018a), which determines the unique gas adsorption and storage mechanism inside the shale. Shale gas is ... A spectrometer with a NaI detector converts the quantitative values in the energy windows of ...

Strong overpressure conditions are widely distributed in the deep Longmaxi Formation (Fm) shale reservoirs in the Southern Sichuan Basin, with pressure coefficients ranging from 1.75 to 2.45. Overpressure plays a positive role in the high yield of shale gas, but a detailed study of its generation mechanism, evolution history, and potential impact on pore ...

Semantic Scholar extracted view of "Ecological flow considered multi-objective storage energy operation chart optimization of large-scale mixed reservoirs" by Zhi-qiang Jiang et al. ... (ESOC) is one of the most popular methods for conventional cascade reservoir operation. However, the problem of distributing the total output obtained from the ESOC

Zinc-air batteries deliver great potential as emerging energy storage systems but suffer from sluggish kinetics of the cathode oxygen redox reactions that render unsatisfactory cycling lifespan. The exploration on bifunctional electrocatalysts for oxygen reduction and evolution constitutes a key solution, where rational design strategies to ...

For example, a typical CO₂ storage reservoir usually contains different geological groups (e.g. lower aquifer, caprock rock and upper aquifer), faults and cracks, etc. In numerical modeling, a convenient way to represent the interfaces between different material domains is still a challenge. ... Energy Conversion and Management, 51 (10) (2010 ...

Shale gas accumulates in reservoirs that have favorable characteristics and associated organic geochemistry. The Wufeng-Longmaxi formation of Well Yucan-6 in Southeast Chongqing, SW China was used as a representative example to analyze the organic geochemical and reservoir characteristics of various shale intervals. Total organic carbon (TOC), vitrinite ...

1 College of Energy, Chengdu University of Technology, Chengdu, ... For shale reservoirs with self-generation and self-storage ... H., Qin, Q. R., He, S., and Zhong, C. (2020). Geological conditions and exploration potential of shale gas reservoir in Wufeng and Longmaxi Formation of southeastern Sichuan Basin, China. Petrol. Sci. Eng. 191 ...

Petrophysical Characterization and Gas Accumulation of Wufeng-Longmaxi Shale Reservoir in Eastern Margin of Sichuan Basin, SW China. ... Developing and utilizing clean energy is currently the most practicable measure to combat climate change and to ... material basis, storage space, fracability, and reservoir evolution data, the reservoir ...

Wufeng energy storage reservoir

The Wufeng-Longmaxi formation of Well Yucan-6 in Southeast Chongqing, SW China was used as a representative example to analyze the organic geochemical and reservoir characteristics of various ...

Utilization of CO₂ as Cushion Gas for Depleted Gas Reservoir Transformed Gas Storage Reservoir. C Cao, J Liao, Z Hou, H Xu, F Mehmood, X Wu. *Energies* 13 (3), 576, 2020. 32: ... *Journal of Energy Resources Technology* 140 (5), 052902, 2018. 22: 2018: Anthropogenic Gd in urban river water: A case study in Guiyang, SW China.

The reservoir characteristics of three typical marine shales in Sichuan basin were compared, by which the advantage and disadvantage of Wufeng shale, Longmaxi shale, and lower Cambrian ...

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