



## How is the quality of Lishui rock drill

Do we know the source rocks in the Lishui SAG?

However, the knowledge of source rocks is limited to a few locations of previous drillings. Therefore, we proposed integrating borehole (sedimentary facies) and seismic data to determine the location and thickness of the source rocks in the Lishui Sag, China.

Is Lishui sag a promising oil & gas exploration area?

The Lishui Sag, located in the East China Sea shelf basin, is one of the most promising offshore oil and gas exploration areas in China. Drillings in recent years have yielded unsatisfactory results. Characterizing source rocks in oil and gas exploration in the whole study area can help to find targets that may contain oil.

What is the thickest layer in Lishui SAG?

For the target layer, the upper Lingfeng Formation (Fig. 6 A), the thickness of source rocks in the Lishui Sag near well W2 is the thickest of the area, reaching 500 m, and the source rocks are in the smaller range of East Subsag and South Subsag, where the thickness is less than 200 m (Fig. 6 A).

What is the area of 3D seismic data in Lishui SAG?

The area of the 3D seismic data is 2468 km<sup>2</sup>, accounting for 17.9% of the Lishui Sag. The bin spacing is 25 m \* 25 m, and the sampling interval is 2 ms. The years of 3D seismic exploration are 1998 (256 km<sup>2</sup>), 2006 (481 km<sup>2</sup>), 2008 (318 km<sup>2</sup>), 2014 (658 km<sup>2</sup>), and 2015 (1067 km<sup>2</sup>).

How many tectonic units are there in Lishui SAG?

Lishui Sag is divided into five tectonic units by the NE-SW fault system. They are West Subsag, East Subsag, Lingfeng Rise, South Subsag and South Subrise (Fig. 1 C). The area of East Subsag is approximately 4800 km<sup>2</sup>, and the maximum depositional thickness is over 7500 m.

What is the TOC distribution in Lishui SAG?

Using the upper Lingfeng Formation as an example (Fig. 6 B, C), it can be seen from the TOC distribution in Lishui Sag from other studies (Xu 2020) that although the source rocks in the Lishui Sag are distributed throughout the area, the distribution of effective source rocks that can expel hydrocarbons is relatively limited.

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Lishui Sag is currently in the early stages of exploration and research, so the history of drilling production is short. Compared with the other sags on the East China Sea shelf basin, the ...

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case study of the Lishui Sag, China | The Lishui Sag, located ...

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To choose the most suitable rock drilling equipment to reduce the cost of mining, you need to consider many aspects. Such as geological ...

Therefore, we proposed integrating borehole (sedimentary facies) and seismic data to determine the location and thickness of the source rocks in the Lishui Sag, China. The ...

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