

Study on Seismic Response Characteristics of Maokou Formation in Jiulongshan Area Forward Based on Wave Equation

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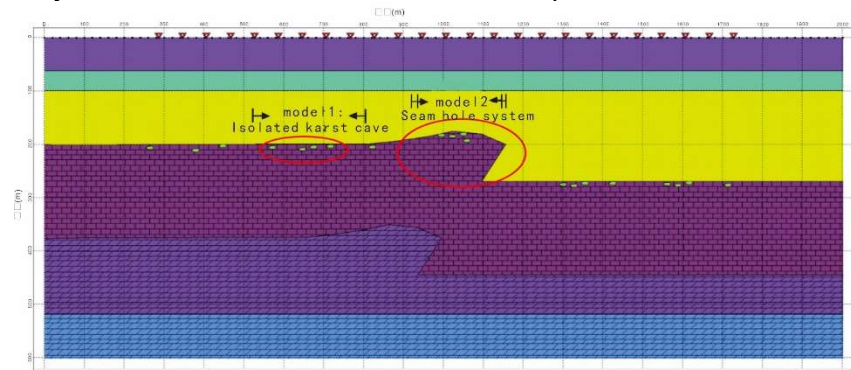
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Theory / Method / Workflow

This paper mainly focuses on the geological model and forward modeling results of the Lower Permian Maokou Formation reservoirs in the Jiulongshan structural area, clarifies the reservoir development location and finds the corresponding seismic facies characteristics, and grades the reservoirs. Through the comprehensive analysis of logging response characteristics, reservoir space, reservoir thickness and curvature, the wave equation is used to predict the seismic response characteristics of the Lower Permian Maokou Formation.

Results, Observations, Conclusions

The forward results show that the geophysical response characteristics of the isolated caverns in the Maokou Formation are ascending and beating in the same phase, and the amplitude is weakened. The geophysical response of the reservoirs in the Maokou Formation is the distortion of the top boundary of the Maokou Formation. Continue, pull down."



Geological model of the reservoir of Maokou Formation

Novel/Additive Information

On this basis, the two seismic response identification modes of isolated caverns and fracture-cavity systems are summarized, which provides a reference for reservoir prediction.

Acknowledgements

Thanks to Bureau of Geophysical Prospecting INC., China National Petroleum Corporation for the data and support and help.

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