

## **Using Karst Related Features to Identify Potential Fractured Reservoir in Thailand Permian Carbonate Plays**

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### **Abstract**

There are several oil and gas fields in Thailand that the reservoirs are fractured Permian carbonate. One of the key challenges is heterogeneity of the reservoir. As a result, locating sweet spots for fractures is still a big challenge. By applying a concept of karst reservoir model, we can understand seismic features of the reservoir and use them to locate highly fractured zones in reservoirs.

Karst reservoir is very heterogeneous in its nature. In order to explore and develop this kind of reservoir, geoscientists need to find the way to delineate fracture networks. As can be seen above, the strong correlation between seismic amplitude anomalies and the results from wells shows a potential of applying and seismic attributes based on the concept of collapsed cave reservoir to characterize the Permian carbonate reservoirs in Thailand in the future.