

Rock Physics Study and Its Application to Characterize Menggala Reservoir In Malacca Strait PSC

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Abstrak

A Rock physics study has been applied to guide interpretation and delineation of Menggala reservoir distribution in the DEFI field. Using rock physics, we can extrapolate the well data to geologically plausible conditions that might exist away from the well, exploring how the seismic signatures might change. The field to be investigated is located in the Malacca strait PSC, Central Sumatra Basin - Indonesia. In this research, the methodology consists of two phase: selecting the rock physics template that is consistent with the well log data and applying the user defined Rock Physics template to characterize reservoir distribution in the seismic data. An initial review of the data shows that it is reasonable quality and fits previously identified theoretical models, by using crossplot analysis. The result shows we can potentially distinguish rock physics of Menggala reservoir to delineate gas sand and potential porous sand distribution at the level of selected interval and finally generate a prospective undrilled area within DEFI field.