

Seligi depletion management

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The Seligi field is located about 240 km offshore Peninsular Malaysia. It is a large multi-closure anticlinal complex with the major reservoirs having thin oil columns with large gas caps and varying aquifer strength. The field started production decline beginning in 1995. It has been developed by seven platforms and further development of the field is planned in the near future.

A comprehensive depletion management study was initiated in 1997 to mitigate production decline and maximize ultimate recovery of the developed and undeveloped reserves. This included recommending and acquisition of a new 3D seismic dataset. Key focus areas include updating the reservoir management strategies, identifying and maturing opportunities to enhance production capacity, optimizing additional development programs, and high grading resource assessments and long-term production forecasts.

Significant efforts were spent updating, verifying and integrating geo-science and engineering data. These include geophysical interpretation of the new 3D seismic data, building 3D geological models incorporating latest sequence stratigraphy concepts, and development of large reservoir simulation models. The geologic, geophysical and engineering models are currently being updated, and pending the results of these studies, reservoir management strategies will be refined to maximize hydrocarbon recovery.
