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ABSTRACT

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**Mass Transport Complexes of the Northwest Sabah
Deepwater: Characterisation from Seismic and Borehole Data**

Mass transport complexes (MTCs) make up a significant proportion of the sediments in the deepwater Sabah Trough off Northwest Borneo. Both modern and ancient MTCs have been recognised in seismic data and penetrated in numerous wells. This paper will discuss the characterisation of these MTCs and assess their relation to basin processes and reservoir deposition.

Preliminary seismic observations indicate that the MTCs vary in scale from units that are hundreds of metres wide and tens of metres thick to bodies that amalgamate to form areas in the hundreds of square kilometers with thicknesses of hundreds of metres. Penetration of these deposits in wellbores in which image log data and conventional cores were taken has further constrained the make up of the MTCs and their relationship to reservoir sandstones. Both debritic facies and coherent slump facies are recognised within the MTCs. Work is underway to further constrain the genetic link that the MTCs appear to have with the hydrocarbon bearing reservoirs in this prolific but relatively underexplored deepwater basin.