

Geophysical Evaluation of the Kakapo Miocene Prospect, Taranaki Basin, Offshore New Zealand

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Abstract

This talk presents a geophysical evaluation of the offshore Kakapo Miocene Prospect in the Taranaki Basin, New Zealand. The relevant regional geology, stratigraphy and paleogeography are presented as a backdrop to the geophysical mapping of the prospect within the basin. The 2D seismic mapping is discussed and AVO analysis presented which specifically addresses issues of areal extent of the prospect, hydrocarbon presence and trapping mechanisms. This talk demonstrates the challenge to define these play elements, using multiple seismic techniques, in a high potential and reward stratigraphic trap type prospect.