

New Insights on the Prospectivity of the Morondava Basin, Offshore Madagascar, based on New Seismic Data.

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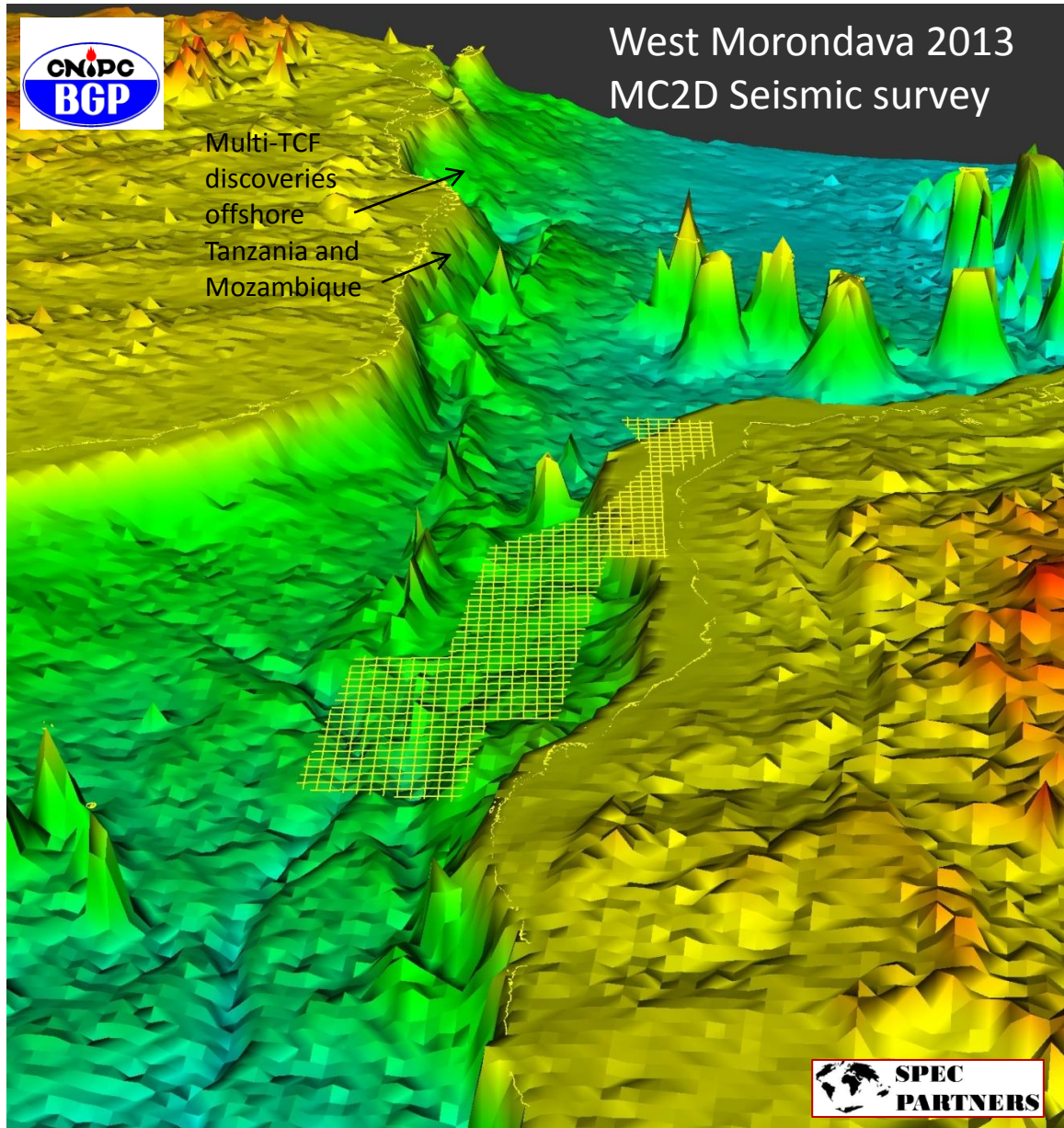


Figure 1: Survey area

The Morondava Basin is a large (220,000 sq km) basin situated on the southern half of Madagascar's west coast. It covers both the onshore and the offshore domain. Onshore, exploration started over a hundred years ago and has been dominated by heavy oil discoveries such as those at Tsimiroro and Bemolonga, and some oil and gas shows in other wells (Omnis 2006, 2010 and 2012) - but no commercial production.

Offshore the Basin is more lightly explored, with regional seismic data in the Mozambique Channel and a small number of wells (6) in the shallow offshore. The presence of an active hydrocarbon system is indicated by gas shows in some of the wells; by gas chimneys, seeps (ref: Wessex/Envoi Ltd) and brightening on seismic data (Tamannai et al 2008/2010 and our observations); and by

geochemical sampling of sea-bottom sediments – the latter reported as indicating oil with similarities to samples found in Anadarko's Windjammer well in the Rovuma Basin of Mozambique (Oil Review Africa, Issue 3, 2012).

This poster paper is based on information derived from a new 13,300 kms long offset 2D seismic, gravity and magnetic survey (figure 1) acquired in the first half of 2013 in the offshore part of the Morondava Basin by BGP. This was done as a multi-client survey under the jurisdiction of the government authority: OMNIS; and in preparation for a new International Bid Round. This poster paper updates information presented (as a poster) at the AAPG Annual Convention in Pittsburgh, Pennsylvania in May 2013 (Roberts et al 2013).

The paper looks at the nature and evolution of the Basin and draws comparisons with its conjugate margin off Tanzania and with the discoveries there and in the adjoining Rovuma Basin of Mozambique.

The poster will feature numerous seismic sections (example: figure 2) from the new survey and will cover the different play types and trap styles in the Basin before drawing conclusions about its prospectivity as regards both oil as well as gas.

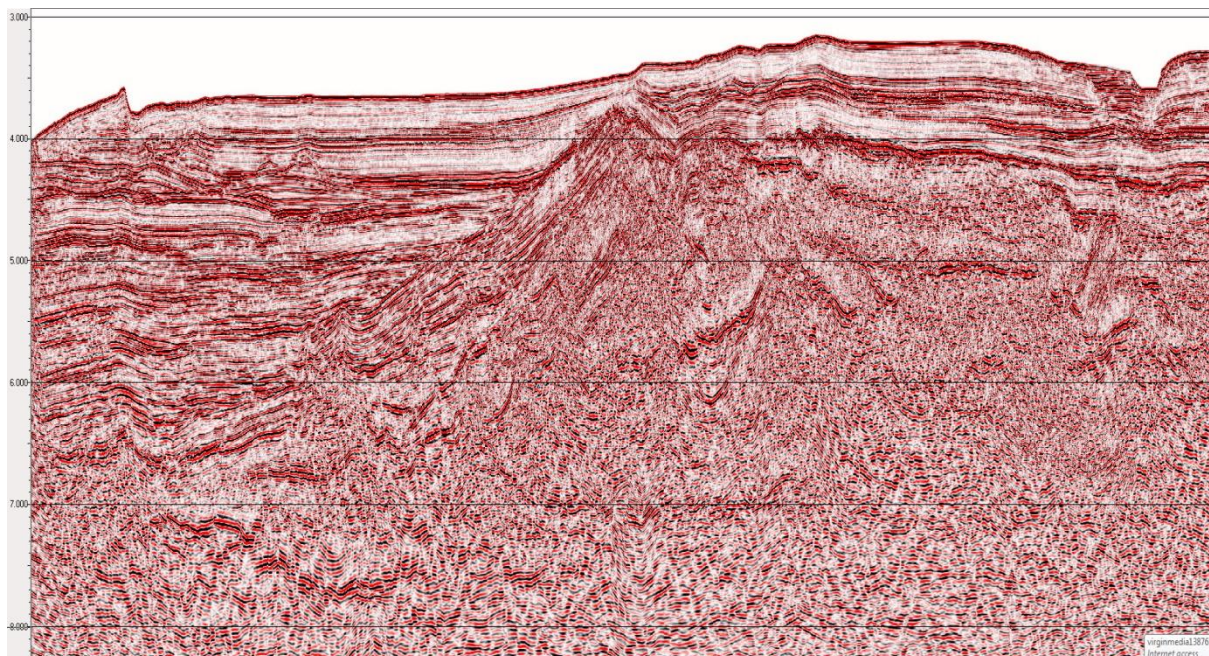


Figure 2: Example of Pre Stack Time Migration over the Davie Ridge in the southern part of the survey area. Section width: approx. 80 km.

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Acknowledgements

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BGP and TGS: JV partners, Morondava (MC-13) 2D Multi-Client seismic survey

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