## Poster 3

## On-board processing/interpretation, PPL 82 Papua New Guinea

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Mobil and partners used a team of geoscientists to process, interpret, and map marine seismic data as it was being acquired in order to make decisions saving over US\$200M and reducing the exploration cycle time by several months. During a survey offshore Papua New Guinea the team processed and mapped over 400 km of seismic data, 200 km of which were processed and mapped within a period of 1 week. The map created from those 200 km substantially changed the existing interpretation of the area and led to a reduction in program kilometers and the addition of several new lines. Through the use of onboard processing and interpretation a better quality survey was acquired for less cost than planned. In addition, the time between acquisition of seismic data and generation of a time structure map was drastically reduced.

Several leads, interpreted as Miocene reefs and potentially contained several TCF of gas, had been mapped on existing data. Two wells drilled on similar structures nearby had discovered nearly 2TCF. The new survey was designed to acquire the data needed to upgrade the leads to prospect status for possible drilling within 8 months after acquisition. The on-board interpretation objective was to demonstrate whether structural closure on the Miocene reefs was large enough to justify drilling. This objective was achieved.