Multi-client basin screening report
Deepwater Taranaki - Northland/Reinga

Legend
- Full study area
- Seismic mapping region
- Wells used in study
- Seismic data used in study

June 2013
Petroleum prospectivity evaluation of the Deepwater Taranaki and Northland/Reinga basins

GNS Science offer petroleum prospectivity screening reports for several basins in New Zealand. This report presents the geological setting and exploration history of the Deepwater Taranaki and Northland/Reinga basins, including an integrated assessment of new regional-scale seismic mapping with results from wells and regional geology. This 85 page report reviews the active petroleum systems in these basins; common risk segment maps are presented and petroleum prospectivity is assessed using a combination of 1D and multi-1D generation, and raypath migration basin models.

A range of prospects were initially identified, and these were reduced to 9 ranked prospects (resource potential by gross rock volume) on further review. A 130 page set of Appendices presents seismic line listing, well post-mortems, depth and isopach maps, paleogeographic maps, basin modelling results, common risk segment maps and 9 prospect summary sheets.

The report is delivered as a hard copy report with pdf document (<100 Mb).

Deepwater Taranaki and Northland/Reinga basins GIS project

The GIS product compiles all the available map data from the petroleum prospectivity evaluation of the Deepwater Taranaki and Northland/Reinga basins. These data include interpreted depth grids for ten mapped regional seismic reflectors with associated isopach grids, eight regional paleogeographic maps, basin modelling results (including maturity in terms of temperature, vitrinite reflectance, transformation ratios for oil and gas; predicted volumes of oil and gas generated from each source rock interval), fifteen common risk segment maps (for reservoir and source rock presence, source rock maturity and migration risk), and mapped (and historical) leads and plays. The GIS coverage extends into the Reinga Basin, however due to the limited seismic data, the interpreted grids including structure, isopach and associated multi-1D basin modelling results only cover the Deepwater and Northland basins (paleogeography mapping does extend into the Reinga Basin).

The grids comprise 1 km² cells covering a region of 173,000 km². These grids can be exported from the GIS product in ASCII format suitable for reading into most interpretation and database packages. If necessary we can also provide the grids in zmap format, although this should not be necessary if ArcGIS ASCII is able to be read.

The GIS project will be delivered on CD/DVD (110 Mb).

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