

Modelling results for the Carson Basin, Grand Banks, Newfoundland

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ABSTRACT

The Carson Basin lies in the southern Grand Banks and deepens into the Salar slope basin to the southwest. This area is the subject of an ongoing GSC project concerning petroleum potential of basins exclusive to the productive Jeanne d'Arc basin. Four wells studied on the western edge of the Carson Basin were found to penetrate part of the Palaeozoic and younger section. Seismic and well data were used to construct cross sections and to map key horizons such as the Petrel and Cretaceous unconformity. New biostratigraphic and Rock Eval data, as shown on our new Seismic Atlas Sheets for each well, were used to delimit the inferred heatflow, environment of deposition and amounts of missing section. These factors were then utilised for 3-D basin modelling using Petromod 3-D software. The implications on the petroleum system here and the inferred effects on neighbouring basins will be presented.