This is section one of a set of three stratigraphic cross sections through the Saglek and Hopedale Basins in the Labrador Sea, on the east coast of Canada, from North to South.

The datum in all sections is top Kenamu. This is an event that appears visible on seismic and a log that is available in all wells. The wireline logs displayed in the tracks are Gamma Ray, Velocity, Sonic and Density on the right as well as the Resistivity and Caliper log. The lithology stems from two different sources, Canstrat or the well reports. The latter was used in the case of significant differences between them and it is not possible to say that one is more correct than the other. Only one lithology was used in each section, to make comparison easy. These are based on the Miocene lithostratigraphy of Fensome et al. (2008) whereas the Cretaceous lithostratigraphic tops determined are included (Williams, 2007). They in many cases do not clearly line up with the lithostratigraphic tops. Seismic data was used to correlate the wells, but due to the poor to absence of good, basin-wide markers on the seismic and in the stratigraphic column. Added to the biostratigraphic tops is a column that shows the paleobathymetry as determined by Fensome et al. biostratigraphical assemblages. At the bottom of each well is a plot that shows pressures measured, temperatures where available, when corrected by Horner plot, log analysis of these pressured intervals and where cores have been cut and those porosities that have been measured on core.

The discrepancy between tops is demonstrated by considering where the top of the green Cartwright Formation lies in the wells. In Gjoa-Snorri, Saglek - Hopedale Basin, in the Labrador Sea, Snorri and Bjarni (140 jet section 2) or Snorri the two tops coincide, but in the other wells the Cartwright Formation is younger that formation and in Bjarni the whole formation is above the Kenamu.

Overpressures are present in several wells. They are based on the mud weights, but none on this section are confirmed by DST or RFT. Leak-off tests indicate the strength of the rock that indicate actual overpressure or transient overpressure.

Thermal maturity in most wells is either in the immature zone or in the oil window, but gas is present in one or three the gas window.

Cuttion DST here to date.

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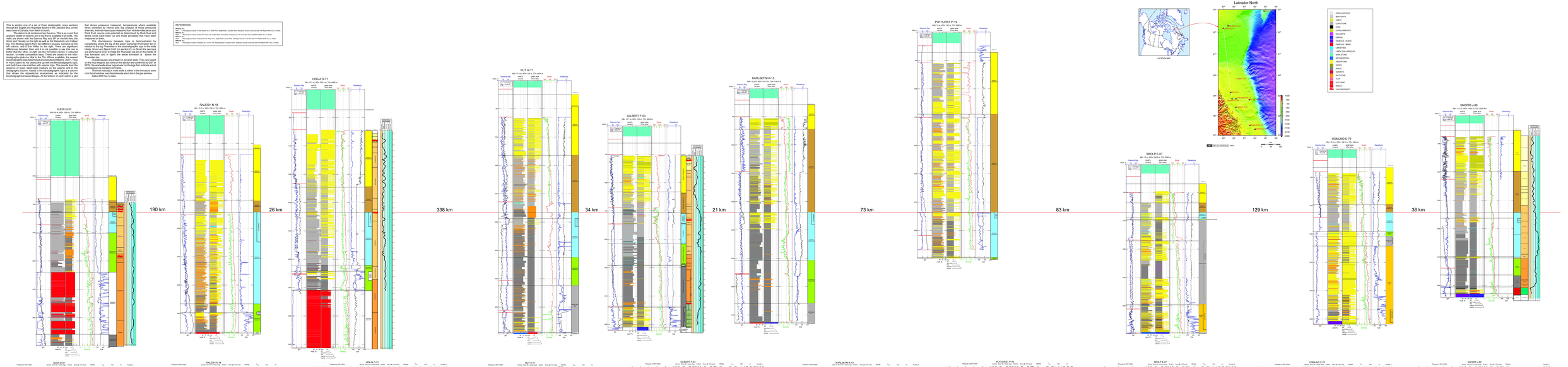

Stratigraphic cross section Gjoa-Snorri, Saglek - Hopedale Basin, in the Labrador Sea, on the east coast of Canada, from North to South.

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