Natural Resources Canada | Ressources naturelles Canada

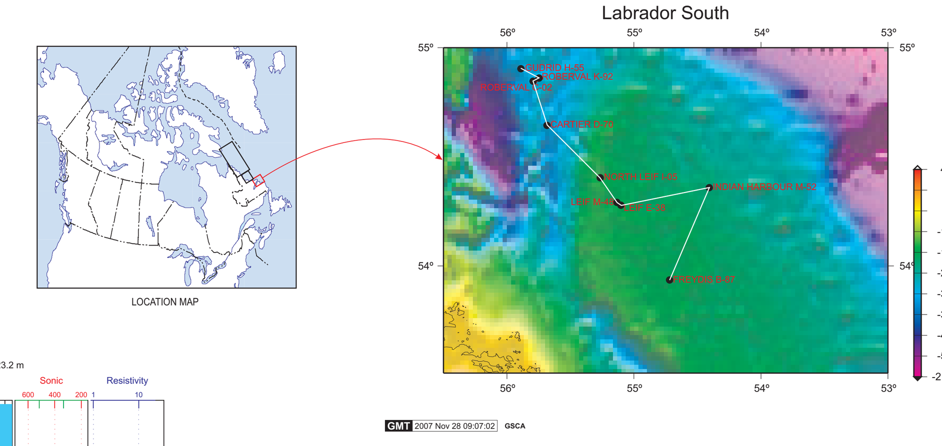
GEOLOGICAL SURVEY OF CANADA | COMMISSION GÉOLOGIQUE DU CANADA

This is section three 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 top that is available in all wells. The wells are shown with the Gamma Ray and SP on the left side, the Sonic and Density on the right as well as the Resistivity and Caliper log. The lithology stems from two different sources, Canstrat on the left column, and D'Eon Miller on the right. There are significant differences between them and it is not possible to say that one is better that the other. At right are the formation names in coloured section, to make comparison easy. These are based on the litho-stratigraphic picks by Moir in the 70s. Biostratigraphic tops are not yet available for the wells on this section. 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, thermal maturity as measured from vitrinite reflectance and Rock Eval, source rock potential as determined by Rock Eval and where cores have been cut and those porosities that have been measured on them.

Overpressures are present in several wells. They are based on the mud weights, and sleight overpressures are confirmed by DST or RFTs in Gudrid and North Leif; in Indian Harbour no test confirms the substantial overpressure, but the 'dogleg' signatures in the logs support the presence of overpressure. Several wells show 'dogleg' signatures on the logs that indicate actual overpressure or transient remnants.

Thermal maturity in the wells is in the immature zone or in the oil window.



- ARGILLACEOUS
- BENTONITE
- CHERT
- CLAYSTONE
- COAL
- CONGLOMERATE
- DOLOMITE
- GNEISS
- IGNEOUS - ACIDIC
- IGNEOUS - BASIC
- LIMESTONE
- LIMEY (CALCAREOUS)
- MARLSTONE
- METAMORPHIC
- SANDSTONE
- SANDY
- SHALE
- SIDERITE
- SILTSTONE
- TUFF
- VOLCANIC
- BASALT

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

OPEN FILE
DOSSIER PUBLIC
5905
GEOLOGICAL SURVEY OF CANADA
COMMISSION GÉOLOGIQUE DU CANADA
2009

Open files are products that have not gone through the GSC formal publication process.

Les dossiers publics sont des produits qui n'ont pas été soumis au processus officiel de publication de la CGC.

Recommended citation:

Wielens, H.J.B.W., and Williams, G.L.
2009: Stratigraphic cross section Gudrid-Freydis, Hopedale Basin South, in the Labrador Sea, on the east coast of Canada, from North to South, Geological Survey of Canada, Open File 5905

Canada