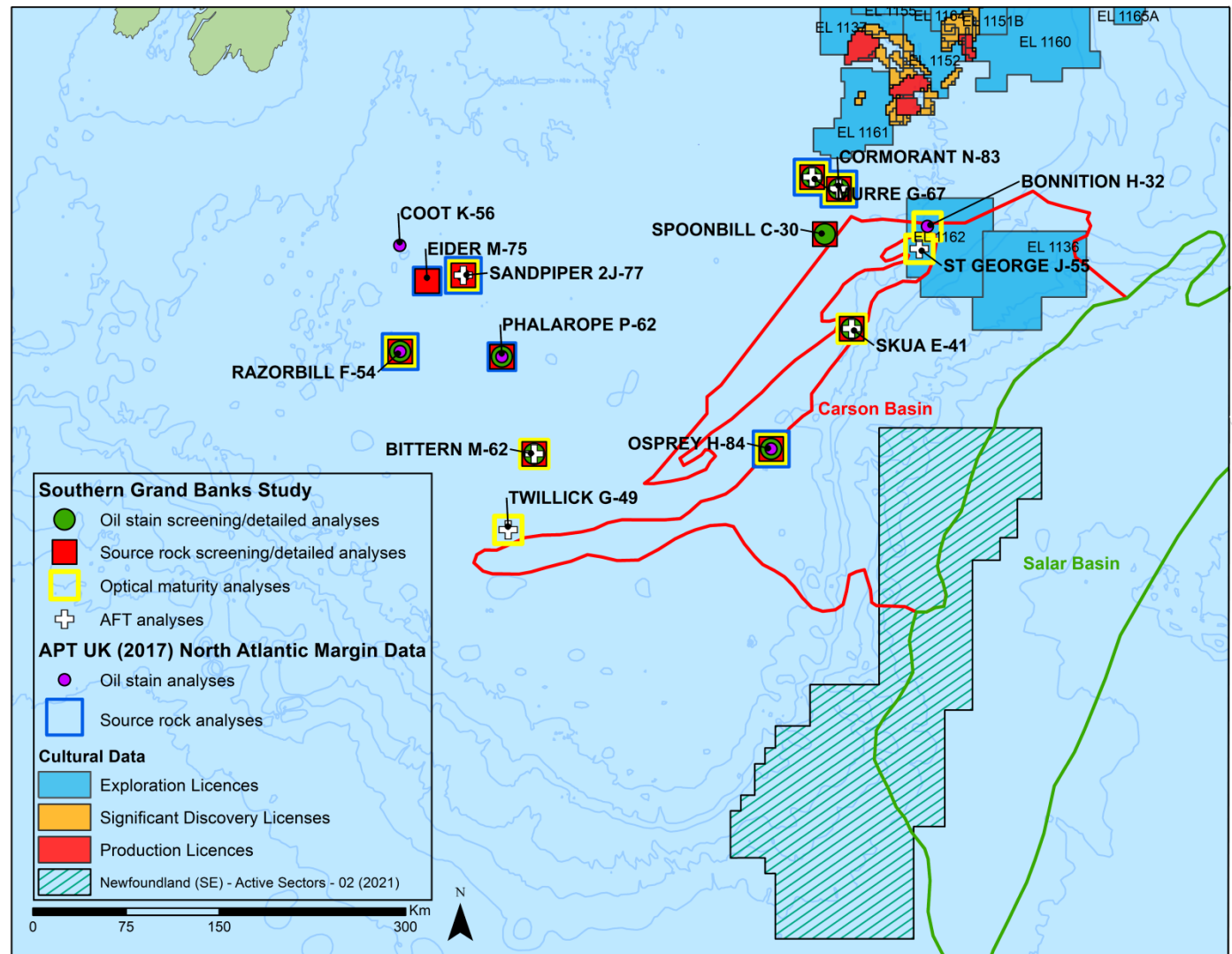


The Canadian Atlantic Updates: The Southern Grand Banks

A study of the oils, source rocks and maturity of the Southern Grand Banks providing better model inputs and calibration for petroleum systems analysis.



Highlights of the technical programme include;

- New Lower Jurassic source rock screening data and QA/QC of legacy BASIN data
- Additional Lower Jurassic oil stain screening and characterisation
 - ✓ Integrated with regional Lower Jurassic oil geochemistry characterisation (East Canada – SW Britain – Ireland – Portugal – Morocco).
 - ✓ Comparisons with Jeanne d'Arc oils and oil stain data to enhance our understanding of Upper and Lower Jurassic source presence.
- New fission track thermochronology data undertaken by Apatite.com
- New maturity analyses combining %Ro / SCI on selected wells.
- Source Rocks from logs analyses to validate source thickness and quality.

Full details of the analytical programme are shown overleaf..

The Southern Grand Banks: analytical programme

Thirteen key wells have been sampled and the results from analyses have been used to assess source potential, confirm the presence of oil staining and evaluate the thermal history using:

- Vitrinite reflectance and spore colouration
- Apatite fission track analyses
- Rock-Eval - TOC and HI
- Petrophysical interpretation of 'Source Rocks from Logs'
- Characterisation of oil stains

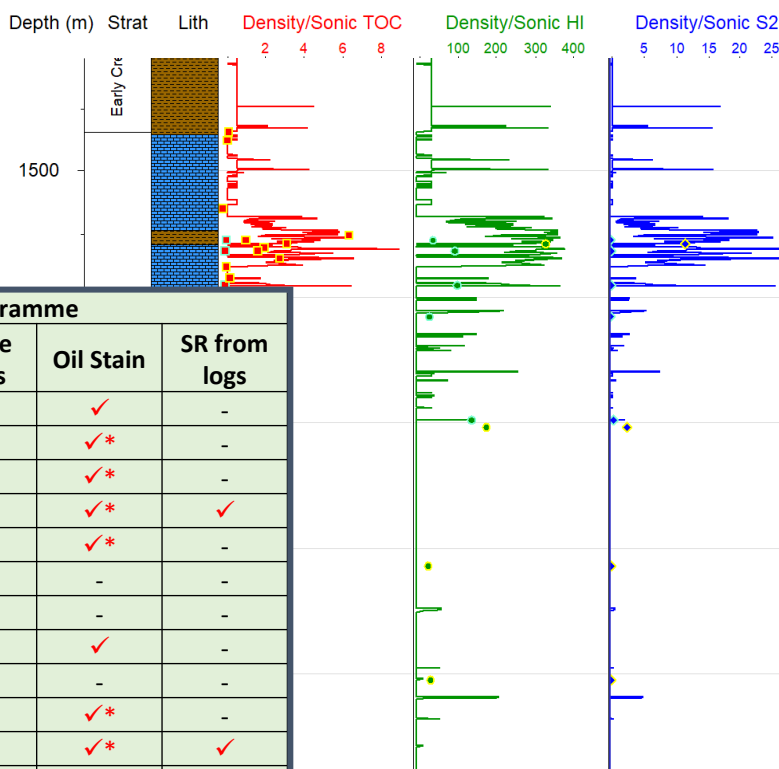
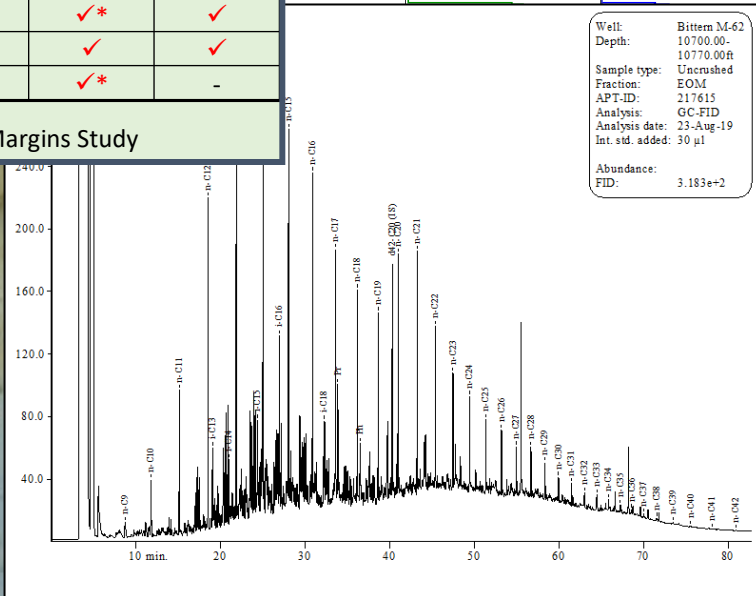
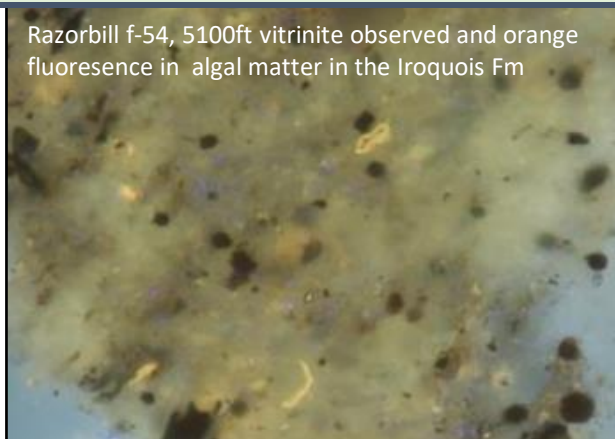


Table of study wells

Well	Analytical Programme				
	Maturity	Apatite Fission Track	Source Rocks	Oil Stain	SR from logs
Bittern M-62	✓	✓	✓	✓	-
Bonnetion H-32	✓	-	-	✓*	-
Cormorant N-83	✓	✓	✓*	✓*	-
Murre G-67	✓	✓	✓*	✓*	✓
Osprey H-84	✓	-	✓*	✓*	-
St George J-55	✓	✓	-	-	-
Twillick G-49	✓	✓	-	-	-
Skua E-41	✓	✓	✓	✓	-
Eider M-75	-	-	✓*	-	-
Phalarope P-62	-	-	✓*	✓*	-
Razorbill F-54	✓	-	✓*	✓*	✓
Sandpiper 2J-77	✓	✓	✓*	✓*	✓
Spoonbill C-30	-	-	✓	✓	✓
Coot K-56	-	-	-	✓*	-

* Indicates data from the APT regional North Atlantic Margins Study

Razorbill f-54, 5100ft vitrinite observed and orange fluorescence in algal matter in the Iroquois Fm



The Southern Grand Banks study supports and optimises exploration strategies through a better understanding of the potential hydrocarbon charge systems.

The project delivers new data and interpretations in the context of our existing North Atlantic Margins study (2017), with a focus on creating crucial, integrated datasets to parameterise and calibrate petroleum systems models for upcoming licence rounds.

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