

Regional PhaseFinder Package West Greenland

GEOS4'S EXCLUSIVE PHASEFINDER TECHNOLOGY

This science-based technology accurately predicts charge timing, fluid volume and composition rapidly and inexpensively, based on calibrations from major petroleum provinces worldwide using PhaseKinetics*.

West Greenland exploration acreage is a new Arctic frontier. Information on source rock presence and quality has up to now been lacking. In cooperation with GasConsult International, Inc. new outcrop samples have been obtained.

The GEOS4 West Greenland package provides

- representatives of eight key immature source rocks,
- kinetic parameters for timing predictions using slow heating rates,
- Petroleum Type Organofacies for predicting bulk petroleum types,
- 2- and 4-component gas/oil ratio prediction in time and space,
- 14-component physical property/PVT prediction in time and space,
- kinetic data provided as tables as well as digital files for direct import into PetroMod® (SLB).

Available upon request:

- PhaseKineticsPlus includes stable carbon isotopes on C₁-C₄ components in addition to the above.



* di Primio, R. and B. Horsfield, 2006, From petroleum type organofacies to hydrocarbon phase prediction: AAPG Bulletin, Vol. 90.

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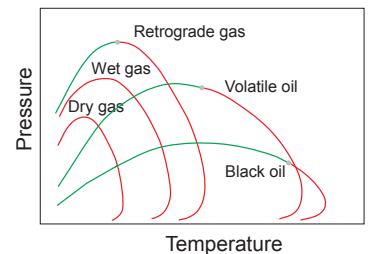
GREENLAND

PETROLEUM POTENTIAL

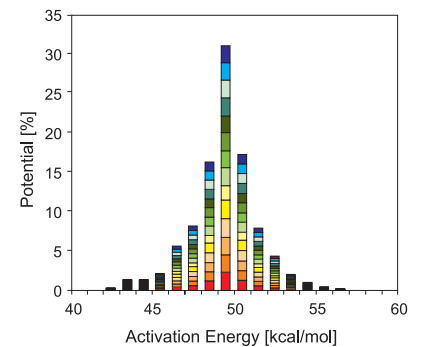
Using a geology-based assessment methodology, the U.S. Geological Survey estimated in 2008 a mean of 7.3 billion barrels of oil and a mean of 52 trillion cubic feet of undiscovered natural gas in the West Greenland–East Canada Province north of the Arctic Circle.

The main task in all areas off West Greenland is to demonstrate that prolific marine source rocks exist. Three immature source rock samples from West Greenland and Canada have been selected exclusively for this data package.

Potential sources from East Greenland may also be considered as analogues – see the GEOS4 East Greenland PhaseFinder for details.



Formation	Age	Origin	Depth (m)	OM Type
unknown	Paleocene	GRO#3	~700	Type II/III
Kanguk	Cenomanian/Campanian	Canada	outcrop	Type II
Hassel	Albian	Canada	outcrop	Type III



GEOS4's West Greenland PhaseFinder package allows the combination of source specific compositional predictions of petroleum with petroleum system modelling. The correct reproduction of petroleum phase behaviour represents a major step forward in modelling fluid generation, migration and accumulation in this complex setting.