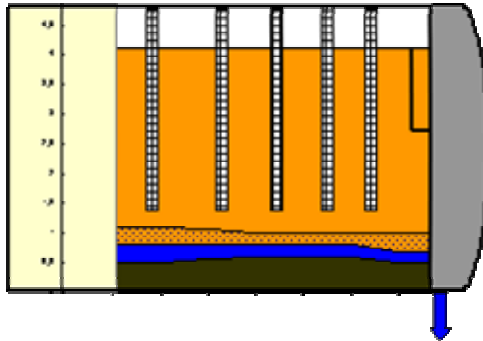


Mator News

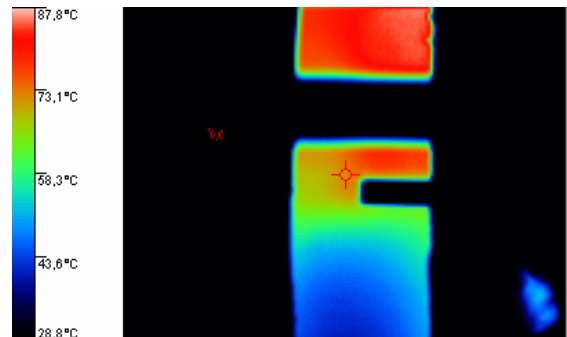
16/2005

Provider of innovative consultancy services in **gas/oil/water/solids separation technology**

Solids verification – and how solids may influence on separation



Scanning by neutron backscatter



Thermo Scanning (IR)

Solids origin from:

- reservoir sand
- water formed scale
- other precipitation products

and may in separators:

- occupy the oil/water sedimentation zone
- form particle stabilized emulsions
- clog internals
- follow the produced water as oil wetted particles thereby increase the discharge

Solids inside separators may be verified by:

- neutron backscatter scanning
- thermo scan (IR)

Scanning by neutron backscatter gives the total phase profile of a separator (foam/oil/emulsion/water/solids), whereas the thermo scanning in many cases verifies the solid phase with higher precision. Thermo scanning necessitate removal of insulation.

The figures above show an electrostatic coalescer containing a considerable solid layer thereby highly reduced water zone. Problems arised due to a too high water content at a too high level thereby short circuit of the electro grids and increased water in export oil. Reduced production was required in order to clean up the coalescers one train at a time before full production again within export specifications.

Season's Greetings and best wishes for a Prosperous New Year!

Recent Mator projects:

- ◆ **Statoil Heidrun:** Study the influence on prodwater from recirculated streams
- ◆ **Hydro Grane:** Troubleshooting heavy oil separation
- ◆ **Statoil Gullfaks C:** Testing of new de-foamers
- ◆ **ConocoPhillips Ekofisk:** Prodwater and jetting system optimisation



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