

# Mator News

1/2008

Mator AS – the separation specialist

## Produced water system optimization - CTour

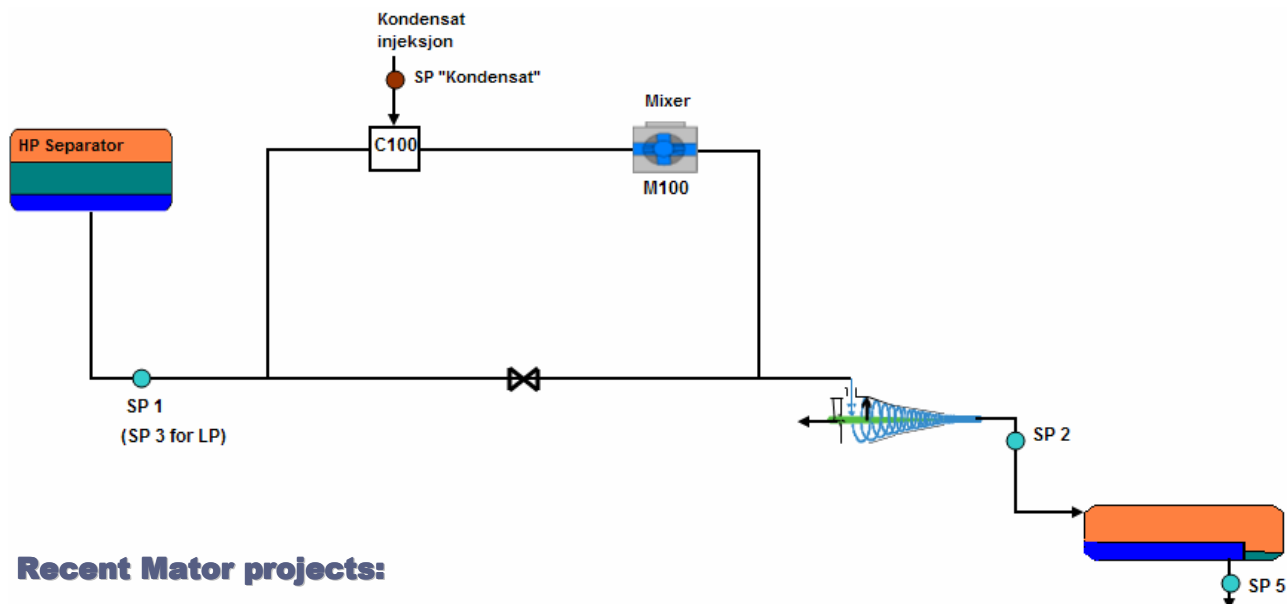
Mator was engaged to conduct a 3<sup>rd</sup> party optimization of a new process for oil removal from produced water - CTour:

- Verification of CTour on high and low pressure produced water separation train.
- Optimize condensate injection rate, mixer functionality, hydrocyclone PDR and skimming.
- Evaluate the operating procedures and process regulation possibilities.

The findings were:

- Overall positive effects from CTour on the produced water quality. Dispersed OiW discharge to sea was reduced by increased condensate injection rate, and optimum condensate injection rate was within functional requirements.
- Important to operate re-mixer M100 correctly.
- Hydrocyclone PDR and skimming rate need to be tuned according to the use of condensate and contributed to the positive effects.
- Important with training and motivation of the operational personnel in order to obtain full benefit of the CTour process.

Mator has gained valuable operating experience for the new CTour technology which will be put to use for other installations and as input to engineering projects.



### Recent Mator projects:

- ◆ StatoilHydro: Topside process study White Pearl gas/condensate.
- ◆ TeekayPetrojarl: Topside process study 16 API crude.
- ◆ StatoilHydro Kristin: Process mapping oil train and produced water treatment.
- ◆ ConocoPhillips Eldfisk B: Process mapping during gas-lift start-up.

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