

DUALFLOW

# 100%

## CLEANOUT

CASE STUDY

# SOLIDS REMOVAL FROM OIL BASED MUD

NORTH SEA

DECEMBER 20164

### CHALLENGE

The well was drilled in 2012 and completed as a horizontal producer in 2013. Since completion the well has been shut and awaiting an intervention operation to perforate the cemented liner and acid stimulate the well.

The oil based mud in the 4" reservoir liner has been in the liner since it was first cemented in place in 2012.

Operational considerations:

- Settled out Oil Based Mud expected
- Deck load limitations
- No communication with reservoir
- Simultaneous operations
- Only one FourPhase operator per shift due to POB limitations

### SOLUTION

The solution was to perform a wellbore cleanout using Coiled Tubing, accompanied by a FourPhase 5Kpsi DualFlow unit allowing separation of particles such as drilled solids, calcium carbonate, commercial clay, Micromax and Barite from the oil based mud.

### RESULT

The wellbore cleanout and separation of solids from Oil Based Mud was a complete operational success. The Dual-Flow unit showed good capacity and separation abilities on oil based mud. A total of 1074 kg of solids was separated throughout the operation.

Key operational outcomes:

- No recorded HSE incidents.
- No recorded equipment downtime
- 100% Cleanout
- 1074 kg of solids removed from oil based mud



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