

Archer's SPEARHEAD System Saves Statoil 54 hours' Rig Time During a 3-well P&A Campaign



Region: North Sea

Customer: Statoil

Field: Huldra

Case benefits

- Saves time
- Saves costs
- Reduced risk profile
- Reduced handling of the retrieved tubing on the surface
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Key capabilities

- Extensive hangoff capability
- Ability to pressure test above and below the plug

Typical Applications

- P&A prior to sidetrack
- Permanent P&A solution
- Barrier plug

Challenge

Statoil, a major international operator in the North Sea, planned a 6-well plug and abandonment (P&A) campaign on the Huldra field. The original plan was to cut, pull and lay down more than 4,000m of 7" tubing from each well. The customer intended to continue setting a bridge plug at 2,000m, then cut the 9 5/8" casing above the plug, and finally displace the well to water-based mud.

The process of retrieving and handling the tubing is time consuming and costly. The customer asked for a plug solution that could avoid pulling the entire tubing string and save rig time.

Solution

Archer Oiltools' integrated P&A solution was to retrieve approximately 2,000m of tubing and suspend permanently the remaining 2,000m of tubing below the SPEARHEAD plug. When the plug and the tubing were run in hole (RIH), a casing cutter was installed above the SPEARHEAD running tool.

The SPEARHEAD, with the tubing below, was set at approximately 2,000 m, and pressure tested. The 9 5/8" casing was then cut above the plug – all this was achieved in one run. The P&A operation continued with the retrieval of the 9 5/8" casing above the cut.

Result

Statoil saved approximately 18 hours' operation time for each well. The total saving for this operation was 54 hours for 3 wells, as well as economical cost-savings associated with rig time. The overall safety and risk profile of the operation was also reduced, along with the time and costs associated with logistics, transport, and handling.