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Case Study

Major operator replaces centralizer subs and saves costs in close tolerance application with MCC stop collars

In March 2020 we designed, manufactured, and installed a challenging close tolerance stop collar application for a major international oil company in Norway.

Challenge

The operator needed to run a 17" liner through a 17.562" ID wellhead restriction and centralize the string sufficiently in the under reamed 20" open hole. Traditionally this type of application would require the use of an in-line centralizer sub which poses a new set of challenges and increases cost significantly.

Solution

Marwell AS worked together with the operator and our partners Maxwell Oil tools to design an ultra slim stop collar with exceptionally high holding force for the application. The stop collars were run together with a third-party bow spring type centralizer to give the required standoff in the under-reamed open hole to achieve the cementing objectives.

The stop collars were installed at the Marwell AS installation facility in Stavanger and the completed installation was then verified by an independent inspector checking the overall OD of the components. Each collar was passed through a 17.5" ID gauge ring after installation to ensure that they would pass the wellhead restriction without any issue.

The Result

An extremely robust bonded-to-pipe solution was created at a fraction of the cost of traditional in-line centralizer subs. The operator successfully ran the 17" liner through the wellhead restriction and cemented it as planned. This project has proven the value of the MCC technology as a means of retaining centralizers on the pipe in applications where annular clearances are minimal.

For more information on the MCC technology visit **www.marwell-tech.no** and follow us on **LinkedIn**

Marwell AS is a Norwegian oilfield technology company specialising in wellbore construction and completion. We provide performance-driven, integrated solutions to oil and gas operators on the Norwegian Continental Shelf.

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