



Wellbore history

GENERAL

Well 35/11-20 B is a geological sidetrack to well 35/11-20 S. Well 35/11-20 S and its' first sidetrack 35/11-20 A reached the Middle-Late Jurassic Heather Formation and proved oil in Oxfordian age Intra-Heather Formation sandstone (Orion prospect). The objective of sidetrack well 35/11-20 B was to further appraise and test the oil bearing Oxfordian aged Intra-Heather Formation sandstone as found in 35/11-20S & 20A. The exploration objective was to test HC potential of the Middle Jurassic Brent Group as well as the Early Jurassic Cook Formation.

OPERATIONS AND RESULTS

Wildcat well 35/11-20 B was kicked off from the main bore (35/11-20S) at 1812 m in the Shetland Group on 7 August 2016. It was drilled with the semi-submersible installation Borgland Dolphin to TD at 5114 m (4087 m TVD) m in the Early Jurassic Statfjord Group. No significant problem was encountered in the operations. The well was drilled with Innovert oil based mud from kick-off to TD.

Well 35/11-20B encountered the Oxfordian sandstones with top at 4131 m (3223 m TVD). These sandstones are 36 m TVD thick and with lower reservoir quality compared to the 35/11-20 A sidetrack. The top 8 m TVD is oil bearing. Top Tarbert Formation was penetrated at 4596 m (3616 m TVD). The upper 10 m were oil-bearing with oil in a Down-To situation. These sandstones had moderate reservoir quality with an average porosity of 14%. The Ness, Etive and Oseberg reservoirs are of low to medium quality with an average porosity of 13 -15% and water wet with some residual hydrocarbons. The Cook Formation was of low quality and is believed to be water bearing with some residual hydrocarbon. Only the top of the Statfjord Group was penetrated and it is water bearing with some residual HC.

No cores were cut. MDT fluid samples were taken at 4606.6 m in the Tarbert Formation (formation oil), 4803.5 m in the Oseberg Formation (formation water with traces of live hydrocarbon), and 5095.20 m in the Statfjord Group (formation water with traces of live hydrocarbon).

The well was permanently abandoned on 15 September as an oil discovery.

TESTING

No drill stem test was performed.

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LITHOSTRATIGRAPHY & HISTORY FOR WELL: 35/11-20 B