



Wellbore History

GENERAL

Well 16/3-U-1 B is a geological and geo-mechanical side-track to 16/3-U-1 on the south-eastern end of the Johan Sverdrup Field on the Utsira High in the North Sea. The reservoir in this part of the field is below seismic resolution. The primary objective of the primary well and side-tracks was to investigate sand presence, thickness and quality. Secondary, to investigate horizontal well drilling and high angle hole time-stability in the Draupne shales. As part of the secondary objective the first side-tracked bore hole 16/3-U-1 A should be left open for 48 hours and then re-entered. After an unsuccessful re-entry well bore 16/3-U-1 A was abandoned and side-track 16/3-U-1 B was initiated. Final TD in this side-track was set to a location between the primary wellbore and the first side-track in order to penetrate the field OWC.

OPERATIONS AND RESULTS

Well 16/3-U-1 B was kicked off from 16/3-U-1 A below the 13 3/8" shoe at 2115 m on 10 January 2017. It was drilled with the semi-submersible installation Deepsea Atlantic, down-dip towards the south-east of the primary well bore to TD at 2665 m (1963 m TVD) in Basement rock. Operations proceeded without significant problems. The well was drilled with Carbosea oil-based mud from kick-off to TD.

Top Draupne Formation was penetrated at 2515 m (1937 m TVD), while the Intra Draupne Formation sandstone was encountered at 2598 m (1952 m TVD), and Basement at 2646 m (1960 m TVD). The Intra-Draupne sandstone was oil-filled down to the OWC at 2605.5 (1953 TVD).

In order to check for mechanical issues, a check trip through Draupne shale was successfully made 8-9 hours after drilling. Then a second check trip was made after 18 hours. The BHA was unable to get down with liner running parameters, and therefore drilling parameters were used and proved to be successful.

There are no oil show recordings from this well bore.

No cores were cut. No fluid sample was taken.

The well was permanently abandoned on 15 January 2017.

TESTING

No drill stem test was performed.

LITHOSTRATIGRAPHY & HISTORY FOR WELL: 16/3-U-1 B