



Wellbore History

GENERAL

Well 16/4-10 was drilled to test the Fosen prospect on the southwest part of the Utsira High in the North Sea. The primary objective was to test the hydrocarbon potential in Late and Middle Jurassic reservoirs. A secondary objective was to core the BCU top reservoir boundary for facies evaluation and dating.

OPERATIONS AND RESULTS

Wildcat well 16/4-10 was spudded with the semi-submersible installation Island Innovator on 24 January 2016 and drilled to TD at 2668 m in Early Triassic sediments in the Smith Bank Formation. A 9 7/8" pilot hole was drilled to 520 m after installing the 30"x36" conductor casing to check for shallow gas. No shallow gas or water flow was observed. No significant problem was encountered in the operations. The well was drilled with seawater and hi-vis pills down to 529 m and with Aquadril mud from 529 m to TD.

The well encountered about 160 m of water bearing sandstones in the Late Jurassic to Middle Triassic, of which about 90 m, mainly in the Middle Jurassic Sleipner Formation, are of good reservoir quality. The well also encountered 75 m of reservoir rocks with very good reservoir quality in the Paleocene Ty Formation. Trace fluorescence was recorded in the Sleipner Formation, but could not be confirmed as migrated petroleum in post-well organic geochemical analyses.

A total of 11.7 m core was cut in four cores from 2424.1 to 2440 m in the Åsgard Formation, thus missing the BCU boundary. Core depths are equal to log depths for all cores. After drilling through BCU there were no shows and no gas response and it was decided to drill ahead without taking any more cores. MDT pressure points were acquired in the reservoir section and water samples were taken at 2313.6 m and 2467.1 m.

The well was permanently abandoned on 7 March 2016 as a dry well.

TESTING

No drill stem test was performed.

LITHOSTRATIGRAPHY & HISTORY FOR WELL: 16/4-10