



## Wellbore History

### GENERAL

Well 10/4.-1 was drilled to test the Zeppelin prospect ca 35 km southeast of the Yme Field in the North Sea. The primary objective was to evaluate the presence of hydrocarbons in sandstones of the Jurassic Sandnes and Bryne formations. Secondary target were the Zechstein Group limestones of Late Permian age.

### OPERATIONS AND RESULTS

Wildcat well 10/4-1 was spudded with the semi-submersible installation Borgland Dolphin on 20 June 2015 and drilled to TD at 2415 m in the Permian Zechstein Group. No significant problem was encountered in the operations. The well was drilled with seawater and hi-vis pills down to 640 m and with Innovert oil based mud from 640 m to TD.

Top Sandnes Formation was encountered at 2274 m and top Bryne Formation at 2311 m.

Both formation had sandstones with very good reservoir quality. The Sandnes reservoir has an average porosity of 21.5 %, and the Bryne Formation 17.4 %, using a cut off value of 10%. The gross thickness for the Sandnes Formation is 21 m with a net thickness of 19.15 m. The well encountered the Bryne reservoir with a gross thickness of 53 m and net thickness of 38.75 m. The water saturation is 100 % in both encountered reservoirs. The expected Permian age limestone reservoir was not present at this well location. All reservoirs were water-wet. The well also encountered sandstone of undifferentiated Triassic age with good quality. The sandstone of 16 m gross and 15.95 m net thickness had an average porosity of 23.7 %. It is water-wet. No shows were observed in the well

No cores were cut. No fluid sample was taken.

The well was permanently abandoned on 12 July 2015 as a dry well.

### TESTING

No drill stem test was performed.

## LITHOSTRATIGRAPHY & HISTORY FOR WELL: 10/4-1