



## Wellbore History

### GENERAL

Well 7122/7-6 was drilled as an appraisal well on the Goliat Field in the Barents Sea. The primary objective was to define the Kobbe M0 compartment prior to drilling of the M0 development wells. The well should also reduce the structural uncertainty and give information about the OWC and GOC of the Kobbe Main Compartment. The secondary objectives were to test the hydrocarbon potential of the Realgrunnen Subgroup and the Snadd Formation.

### OPERATIONS AND RESULTS

A 9 7/8" pilot hole was spudded 50 m away from the main well location and drilled to 680 m. No shallow gas or water flow was observed and the pilot was plugged back to seabed. Appraisal well 7122/7-6 was spudded with the semi-submersible installation Scarabeo 8 on 21 October 2012 and drilled to TD at 2026 m in the Early Triassic Klappmyss Formation. The well was drilled with seawater and hi-vis pills down to 562 m and with Glydril/KCl mud from 562 m to TD.

Top Fruholmen was penetrated at 1121 m and was oil bearing from top to the OWC at 1162 m. Analysis of the mud gas while drilling ("Gas While Drilling") show high iC4/n/C4 ratio in the Fruholmen oil due to biodegradation. The Snadd Formation was mainly claystone/siltstone with thin interbedded sandstones. It was water bearing without shows. The Kobbe Formation was encountered at 1754 m and had gas down to the GOC at 1792 m and oil down to the OWC at 1846 m. Diminishing oil shows on SWC's were described below the Kobbe OWC down to 1900 m.

Four cores were cut. Cores 1 and 2 were cut from 1126 to 1163 m in the Fruholmen reservoir. Cores 2 and 4 were cut from 1759 to 1766 m in the Kobbe reservoir. Core recovery was between 90 and 100%. MDT-XPT pressure points were acquired in the Fruholmen and Kobbe reservoirs to establish the fluid gradients and contacts. MDT fluid samples were taken in the Fruholmen Formation at 1152 m (oil), 1173 m (water), and in the Kobbe Formation at 1757 m (gas), 1842.5 m (oil), and 1866 m (water).

The well was permanently abandoned on 4 January 2013 as an oil and gas appraisal well.

### TESTING

No drill stem test was performed.

## LITHOSTRATIGRAPHY & HISTORY FOR WELL: 7122/7-6