Groups Formation Tops NORDLAND GP TOP **NAUST FM TOP** 400 500 600 700 800 900 1000 1100 1200 1300 KAI FM TOP TD (m) 1400 RDALAND GP TOP **BRYGGE FM TOP** 1500 -1600 ALAND GP TOP TARE FM TOP 1700 TANG FM TOP SHETLAND GP TOP SPRINGAR FM TOP 1800 -**CROMER KNOLL GP TOP LYR FM TOP** 000000 000000 • • • • • • • • 1900 -000000 000000 000000 00000 2000 PAPER FIN TOP 2100 -INTRA MELKE FM SS TOP **FANGST GP TOP** NOT FM TOP 2200 -**BÅT GP TOP THEFMITOPP** 2300

2400

Wellbore History

GENERAL

Well 6608/10-9 is located northeast of the Norne Field on the Dønna Terrace. The main objective of the well was to prove hydrocarbons in the Early Jurassic sandstones of the Tilje and Åre Formations in the Lerke prospect. The secondary objective was to prove hydrocarbons in the Late Jurassic sandstones of the Melke Formation.

OPERATIONS AND RESULTS

Exploration well 6608/10-9 was spudded with the semi-submersible installation Deepsea Bergen and drilled to TD at 2400 m in the Early Jurassic Åre Formation. The well was drilled without significant problems, apart from some harsh weather, which caused 83.5 hours WOW down time. No shallow gas was observed by the ROV at the wellhead. The well was drilled with seawater and high-viscosity sweeps down to 1311 m and with Glydril (water based KCl/glycol/polymer) from 1311 m to TD.

Well 6608/10-9 penetrated rocks of Quaternary, Tertiary, Cretaceous and Jurassic age. Weak shows were recorded at 1815.5 and 1819 m in slightly sandy claystones in the Cretaceous Springar Formation. Three oil-bearing sandstones were penetrated from 2133 m to ca 2180 m in the Melke Formation. No oil- water contact was proven. Pressure gradients in the reservoir indicated an oil-down-to situation in the Melke Formation. This was verified both by shows in cores, logs, samples, and laboratory studies of the cores. The Not, Tilje and Åre Formations were water filled. This was verified by wire line logs and MDT pressure points, which proved a water gradient. Weak shows were recorded in the Not and Tilje Formations, decreasing to no shows at 2323 m in the Åre Formation.

Two conventional cores were cut in the interval 2140 m to 2174 m, the main part of the oil bearing reservoir zone in the Melke Formation. MDT oil samples were collected at 2152.5 m and at 2169.5 m in the Melke sandstones. The oil in the samples confirmed a composition very similar to the Norne oil.

The well was suspended as an oil discovery on 19 February 2003.

TESTING

No drill stem test was performed.