



Wellbore History

GENERAL

The main objectives of the well 6506/11-5 S were to appraise hydrocarbons in the Smørbukk Field and collect data on reservoir quality and fluid distribution, to act as an observation well during the long-term test/ interference test of well 6506/12-11 S R, and to be an injector well on the Smørbukk Field.

OPERATIONS AND RESULTS

The deviated appraisal well 6506/11-5 S was spudded on 10 September 1996 with the semi-submersible installation "Transocean Searcher" and drilled to a TD of 4740 m in the Åre Formation. The well was drilled with seawater and high viscosity pills down to 622 m, Anco 2000 with glycol from 622 to 2140 m, and with oil based Anco vert from 2140 m to TD. Unexpected high formation pressure was encountered at TD and the mud weight was raised according to this. The Tilje reservoir zone and Åre 2 Formation proved to be hydrocarbon bearing as expected. Three cores (179 meter cored and recovered) were cut from the Tilje and Åre Formations. Two MDT fluid samples were taken at 4674 m in the Tilje Formation. The well was suspended on 10 November 1996 as an observation well for an extended test to be carried out in well 6506/12-11 S R. The well was then re-classified from oil and gas appraisal well to development well 6506/11-G-1 H.

TESTING

The well was perforated in the Tilje 1.1 Reservoir Zone (4671 - 4685 m) and permanent pressure gauges were installed. Only a short clean up flow was carried out before the pressure gauges were installed so no flow rates were recorded. Due to technical problems with the pressure test string the test was abandoned and no pressure data to confirm communication with well 6506/12-11 S R was obtained.

LITHOSTRATIGRAPHY & HISTORY FOR WELL: 6506/11-5 S