



Wellbore History

Well 30/6-27 is located a few km west of the Oseberg Field in the Northern North Sea. The main objective of the well was to prove sufficient volumes of oil and/or gas in The Statfjord Formation on the Kappa Nord structure for a joint sub sea development with the Kappa Main and Gamma Vest structures, and to confirm the seismic interpretation.

OPERATIONS AND RESULTS

Wildcat well 30/7-26 was spudded with the semi-submersible installation Transocean Arctic on 8 October 2001 and drilled to TD at 3432 m (3378 m TVD RKB) in Late Triassic sediments of the Statfjord Formation. The well was vertical down to the 13 3/8" casing depth, but significant deviation from a vertical well path occurred below this depth. Maximum deviation, 26.6 deg, was recorded at 1946 m and at TD the displacement from the surface location was 287.5 m in an east-northeast direction. The well was drilled with seawater and hi-vis pills down to 1287 m and with Versavert oil based mud from 1287 m to TD.

Top reservoir was penetrated at 3101 m, 49 m shallower than prognosed. The uppermost ?25 m of the Statfjord Formation may be missing due to a fault. The well proved two gas columns (respectively 25 m and 4 m) and two oil columns in the Upper Statfjord Formation. Gas-oil-contacts were interpreted at 3145 m (3067 m TVD SS) and 3162 m (3084 m TVD SS). The shallowest oil column had an oil-down-to contact at 3169 m (3091 m TVD SS). The second of these two oil columns was difficult to interpret because no obvious oil and water gradients could be derived from the pressure data. An oil-down-to contact was assumed at 3187 m (3109 m TVD SS), giving an oil column thickness of 25 m. A third oil column (5m) without gas cap was proven in the Lower Statfjord Formation at 3350 - 3355 m (3272 - 3277 m TVD SS).

One 27 m core, with 100 % recovery, was cut in the upper Statfjord Formation (3162 - 3189 m). MDT fluid sampling was performed at 3352.5 m (oil), 3202.5 m (water), 3179.5 m (oil showing on OFA), 3162.5 m (oil), 3150.5 m (oil), and 3129 m RKB (gas).

The well was permanently abandoned on 30 October 2001 as an oil and gas discovery.

TESTING

No drill stem test was performed.

LITHOSTRATIGRAPHY & HISTORY FOR WELL: 30/6-27