



Wellbore History

GENERAL

Well 30/2-4 S was drilled from the Huldra Platform location in the Northern Viking Graben in the North Sea. The primary objective of the well was to prove commercial amounts of hydrocarbons in the Statfjord Formation and to acquire information of the reservoir properties. Secondary objectives were to determine the HC-water contact, the thickness of the Statfjord Formation and to explore for hydrocarbons in the Triassic Lunde Formation sandstones.

OPERATIONS AND RESULTS

Well was spudded with the jack-up installation West Epsilon on 1 May 2008 and drilled to final TD at 4325 m (3748 m TVD) in Early Jurassic sediments of the Statfjord Formation.No shallow gas was observed by the ROV or on the MWD while drilling the 36" hole or the 24" hole. At 2329 m a 900 litres gain was recorded, indicating a kick was taking place and the drilling was suspended due to a well control situation. The drill string got stuck and was cut at 1300 m, and the hole was cemented back to 1099 m and sidetracked. The sidetrack (30/2-4 S T2) was kicked off at 1128 m just below the 20" casing shoe, and drilled to final TD. The well was drilled with spud mud down to 1101 m and with XP-07 oil based mud from 1107 m to TD.

The well penetrated rocks of Quaternary, Tertiary, Cretaceous, and Jurassic age. The Statfjord reservoir was encountered at 4309 m, 42.5 m MD shallower than prognosed. The reservoir quality was satisfactory. The reservoir fluid was water and 3 pressure points taken with the LWD Stethoscope tool gave a reservoir formation pressure of 2.00 sg, 0.05 sg higher than the maximum prognosed pore pressure. A gain of 387 litres was recorded and the mud weight was increased from 1.97 to 2.01 sg. Mud losses were experienced when increasing the mud weight. The drilling operations were terminated because of too low margin between the fracture gradient and the pore pressure. The secondary target, the Lunde Formation, was thus not reached. No oil shows were recorded in any section of the well.

No cores were cut. MWD/LWD logs were the only formation logging in the well. Three LWD pressure measurements in the Statfjord Formation confirmed a water gradient in the Formation. Wire line logging was done only to resolve technical problems, not for formation evaluation. No wire line fluid samples were taken.

The well was permanently abandoned on 9 August 2008 as a dry well.

TESTING

No drill stem test was performed.

LITHOSTRATIGRAPHY & HISTORY FOR WELL: 30/2-4 S