



Wellbore History

GENERAL

Well 15/6-2 R is a re-entry of well 15/6-2 in the Ve Sub-basin in the North Sea, ca 5 km north of the Sleipner Field. The initial well 16/6-2 was drilled to 3131 m in the Shetland Group with the drill vessel Glomar Grand Isle. The well found good shows in Paleocene sandstones and was suspended in October 1971. The primary objective of the re-entry was to deepen the well and test the Dogger (Middle Jurassic) deltaic sands. A secondary objective was to test the Lias section (Early Jurassic).

OPERATIONS AND RESULTS

Wildcat well 15/6-2 re-entered on 9 May 1974. It was drilled with the semi-submersible installation Drillmaster to TD at 4779 m in the Late Permian Zechstein Group. The pipe stuck temporarily three times in intervals below 4602 m. Due to hole problems and tight spots no logs were run below 4611 m. The well was drilled with a seawater /lignosulphonate mud from re-entry point to TD.

The only hydrocarbon reservoir penetrated was the Dogger gas-condensate sands from 3582 to 3641 m. The lower part of Dogger section and all of the Lias section were cut out of this test by an erosional unconformity and/or faulting. The missing interval has good potential for additional reservoir quality sands. In addition, the Late Triassic has good sand development that could be adequate for reservoiring hydrocarbons. During the drilling of the Triassic and Permian section (3688 to TD), the background gas in mud and cuttings was near zero, which probably is related to lack of source material for hydrocarbons.

No shows were recorded except in Dogger.

Five cores were cut with 100% recovery in the interval 3582.3 to 3641.1 m. A total of eight FIT fluid samples were taken: P8 (3600.6 m, mud filtrate and poor gas), P7 (3606.4 m, gas and 2 litres condensate), P6 (3610.4 m, gas), P1 (3615.5 m, mud and gas), P3 (3616.5 m, gas and water), P5 (3623.5 m, gas and mud filtrate), P4 (3634.4 m, gas and 2 litres condensate), and P2 (3675.3 m, water, mud and filtrate).

The well was permanently abandoned on 1 August 1974. It is classified as an appraisal well for the 15/5-1 Gina Krog Discovery

TESTING

No drill stem test was performed.

LITHOSTRATIGRAPHY & HISTORY FOR WELL: 15/6-2 R