



Wellbore History

GENERAL

Well 16/2-19 A is a geological sidetrack to the 16/2-19 Geitungen well. The well is drilled on the northern part of the Johan Sverdrup Field on the Utsira High in the North Sea. The sidetrack 16/2-19 A targeted Intra Draupne Formation Sandstones in an assumed depocentre in a more distal position than the 16/2-12 but in a more proximal position than 16/2-19. The objectives were to investigate the reservoir distribution, facies and quality of the Draupne sandstone, and to find the oil-water contact.

OPERATIONS AND RESULTS

Appraisal well 16/2-19 A was kicked off through 13 3/8" casing at 625.5 m in the primary well on 3 April 2014. It was drilled with the semi-submersible installation Ocean Vanguard to TD at 2347 m (1979 m TVD) in granitic basement rock. No significant problem was encountered in the operations. The well was drilled with XP-07 oil based mud from kick-off to TD.

Draupne Formation claystone was penetrated at 2265 m, while Intra Draupne Formation Sandstone came in at 2271 m. A 13 m gross oil column was encountered in Intra Draupne Formation sandstone and Triassic Skagerrak Formation sandstone, the upper 3 m of which were in sandstone with very good reservoir quality. An oil-down-to situation was encountered. Oil shows described in in the reservoir section from 2270 m to 2289 m; otherwise, no shows are reported from the well.

Two cores were cut across the reservoir section. Core 1 was cut from 2256.5 m in the Åsgard Formation, through Draupne formation claystone and Intra Draupne Formation Sandstone to 2283.2 m in the uppermost Hegre Group with 100% recovery. Core 2 was cut from 2283.2 m to 2305.1 m in the Skagerrak Formation with 99% recovery. MDT fluid samples were taken at 2281.04 m (oil with trace OBM contamination) and 2291.74 m (oil with ca 30% OBM contamination).

The well was permanently abandoned on 3 May 2014 as an oil appraisal well. A CATS system was installed for long term monitoring of pressure and temperature.

TESTING

No drill stem test was performed.

LITHOSTRATIGRAPHY & HISTORY FOR WELL: 16/2-19 A