



Wellbore History

GENERAL

Well 7220/6-3 was drilled to test the Børselv prospect on the western side of the Loppa High in the Barents Sea. The primary objective was to test the reservoir properties and hydrocarbon potential in the carbonates of the Ørn Formation. TD was planned at 1300 m, 50 m below the Ørn Formation or 50 m into Basement, whichever came first.

OPERATIONS AND RESULTS

Wildcat well 7220/6-3 was spudded with the semi-submersible installation Leiv Eiriksson on 1 September 2017 and drilled to TD at 1300 m in the Late Carboniferous Falk Formation. Operations proceeded without significant problems. The well was drilled with seawater and hi-vis sweeps down to 507 m, with KCl-GEM-polymer water-based mud from 504 to 586 m and with Performadril water-based mud from 586 m to TD.

The well encountered a 380 m thick sequence of Gipsdalen Group carbonates with medium to poor reservoir quality. The reservoir was water bearing with shows. Above the Ørn Formation the first oil show was in a single cuttings sample at 560 m. This had direct fluorescence, cut fluorescence and residue fluorescence. Weak shows were described on cuttings, sidewall cores and conventional cores from 733 to 757 m. Within the Ørn Formation the cored intervals 795 to 810 m, 817 to 839 m, and 858 to 864 m had good oil shows, generally described with “no to good HC odour, no stain to good trace dark brown oil, patchy bright yellow direct fluorescence to bright yellow direct fluorescence, slow streaming blue white fluorescent cut, blue white fluorescent residue”. Sidewall cores in the interval 912 to 972 m had shows described as “40-70 % patchy dull yellow direct fluorescence, slow diffuse to streaming dull blue white fluorescent cut, 20% dull bluish white to cream fluorescent residue. There were no shows below 972 m.

The interval from 755 to 864.62 m was cored in four cores, with 100% total recovery. Core depths are equal to logger depths. No fluid sample was taken.

The well was permanently abandoned on 5 October 2017 as a dry well with shows.

TESTING

No drill stem test was performed.

LITHOSTRATIGRAPHY & HISTORY FOR WELL: 7220/6-3