



Wellbore History

GENERAL

Well 24/9-12 S was drilled to test two prospects in the Vana Sub-basin in the North Sea. The primary objective was to test the hydrocarbon potential in Early Eocene injectite sands, the Frosk prospect. The secondary objective was to test the hydrocarbon potential in sandstones in the Paleocene Hermod Formation, the Marihøne B prospect.

OPERATIONS AND RESULTS

Wildcat well 24/9-12 S was spudded with the semi-submersible installation Transocean Arctic on 29 December 2017. The well consist of two wellbores. The first wellbore was drilled to 2285 m (2275 m TVD) and proved oil in the primary target m. A technical side-track, 24/9-12 S T2, was then kicked off at 1777 m for coring and wire line logging. This wellbore was drilled to final TD at 2336 m (2326 m TVD) m in the Paleocene Heimdal Formation. Operations proceeded without significant problems. The well was drilled with Glydrill water-based mud down to 1360 m, m and with EMS 4600 oil-based mud from 1360 m to TD in both wellbores.

Top of the Frosk injectite complex was encountered at 1861.1 m (1851.4 m TVD), with top of main sands at 1884.9 m (1875 m TVD). The sand was oil filled with a biodegraded oil down to the oil-water contact at 1896 m (1885.7 m TVD). The same contact was seen in both wellbores. Top Hermod Formation sandstone was encountered at 2094 m (20184 m TVD) in both well bores. The Hermod Formation was water-wet with no shows. In the oil-bearing injectite sands there were oil shows on the cores, otherwise there were no oil shows above OBM in the wellbores.

Three cores were cut with 100% recovery in the interval 1856 to 1931.5 m in the technical side-track. The cores captured the entire injectite sand complex. MDT fluid samples were taken at 1863.2 m (oil), 1864.9 m (oil), 1866.1 m (oil), 1888.1 m (oil), 1892.4 m (oil), 1894.8 m (oil with formation water), 1894.81 m (oil), 1907 m (water with traces of oil), 1915 m (water), 2105.02 m (water), 2120.99 m (water), and 2237.99 m (water).

The well was permanently abandoned on 8 February 2018 as an oil discovery well.

TESTING

No drill stem test was performed.

LITHOSTRATIGRAPHY & HISTORY FOR WELL: 24/9-12 S