



GENERAL

Well 30/9-21 S was drilled in the Oseberg Field area in the northern Viking Graben. The objective was to prove commercial amount of hydrocarbons in the Delta S2 prospect in Middle Jurassic, middle Tarbert Formation sandstone, and to collect all data needed for development of the prospect.

OPERATIONS AND RESULTS

Wildcat well 30/9-21 S was spudded with the semi-submersible installation Transocean Winner on 13 March 2008 and drilled to TD at 4090 m (3463 m TVD) in the Middle Jurassic Ness Formation. No shallow gas was observed by the ROV at the wellhead or by the MWD while drilling the 36" hole and the 20" hole. The well was drilled vertical down to 1150 m, and then deviated with inclination up to 50 deg at 3300 m. While drilling the 12 1/4" section at 1320 m operations were suspended for a day because a trawler's fishing net had become snagged around anchor chain #7. The well was drilled with sea water and bentonite sweeps down to 850 m, with sea water/bentonite sweeps and Glydril mud from 850 m to m to 2130 m, and with Paratech oil based mud from 2130 m to TD. Chromatographic analyses of mud filtrate from the well (PVT report) indicated that the base oil consist of mainly n-alkanes in the range C13 to C20.

The well penetrated rocks of Quaternary, Tertiary, and Cretaceous and Jurassic age. The well encountered top Tarbert Formation at 3774 m (3204.9 m TVD) and penetrated the target Middle Tarbert reservoir section at 3808 m (3231.2 m TVD RKB), 29 m deeper than prognosed. Wire line logs and pressure data proved an oil bearing interval from 3808 m (3231.2 m TVD) down to an OWC at 3856 m (3268 m TVD).

No cores were cut in this wellbore. MDT wire line fluid samples were taken at 3822.5 m (oil), 3852.0 m (oil), and at 3860.5 m (water). Contamination of base oil from the mud was analysed to be from 7% to 20%, with the least contamination in the samples from 3852.0 m.

The well was plugged back permanently abandoned on 30 April 2008 as an oil and gas discovery.

TESTING

No drill stem test was performed.

RECLASSIFICATION

On 9 September 2016 the well was reclassified as an appraisal well for the discovery "30/9-19" from 1998.

LITHOSTRATIGRAPHY & HISTORY FOR WELL: 30/9-21 S