



Wellbore History

GENERAL

Well 30/7-6 R was originally named 30/7-6 Phase II by the operator group. It is a re-entry of well 30/7-6, which was suspended at a final depth of 3711 m after taking a massive gas kick at the base of the Heather Formation. The well is located on the East Shetland Basin in the North Sea close to the UK border. The main objective of the re-entry was Early and Middle Jurassic sandstones.

OPERATIONS AND RESULTS

Wildcat well 30/7-6 was re-entered with the semi-submersible installation Treasure Seeker on 18 April 1978. The 7" liner shoe at 3707 m was drilled out with a 6" bit using 1.92 sp.gr. mud. A small influx of gas was encountered while drilling into the high-pressured reservoir sand at 3810 m. The gas influx was circulated out and the mud weight increased to 1.98 sp.gr. After several circulations, the mud density was raised to 2.04 sp.gr. Two days elapsed in conditioning and stabilizing the well. Further drilling proceeded without significant problems to TD at 4115 m in the Early Jurassic Drake Formation. The well was drilled with a fresh water gel/chromium-lignosulphonate mud system from 3707 m to TD.

The 30/7-6 well encountered the gas condensate bearing sandstones of Middle Jurassic age (Tarbert Formation) at 3792 m. The reservoir continued with interbeds of shales and coals down to the deepest sandstone at 3892 m in the top of the Ness Formation. Net sandstone in the interval is 75 m based on wire line log evaluation. No hydrocarbon-water contact was penetrated in the well. Average porosity is calculated to 19.4% and average water saturation to 20%. No shows were described below the hydrocarbon bearing reservoir.

No conventional cores were cut in the well. RFT fluid samples were taken at 3793 m (mud filtrate and a small quantity of 54.6 ° API condensate), at 3855.5 m (mud filtrate and a small quantity of 54.6 ° API condensate), and 3891.5 m (only mud filtrate).

The well was permanently abandoned on 3 June 1978 as a gas/condensate discovery.

TESTING

No drill stem test was performed.

LITHOSTRATIGRAPHY & HISTORY FOR WELL: 30/7-6 R