



Wellbore History

GENERAL

Well 34/10-48 A was drilled on the Gullfaks Field in the Northern North Sea, from the Gullfaks C platform. The main exploration objective of the well was to test the hydrocarbon potential of the Brent Group in the Topas prospect, same as for the primary well 34/1-48 S. The well should be completed as a producer. The preliminary results of the well 34/10-48 S indicated however that the well path had penetrated low on the Topas structure, which was not ideal for production. It was therefore decided to drill the sidetrack 34/10-48 A and aim as high on the re-interpreted structure as possible.

OPERATIONS AND RESULTS

Sidetrack well 34/10-48 A was spudded from a preset 32" conductor at slot 29 on the Gullfaks C platform on 17 March 2004. It was kicked off from 48 S at 5120 m and inclination was increased to 103 deg in order to avoid the OWC found in 48 S. The well path was lifted approximately 100 m TVD on the most compared to 48 S. The well was drilled with Versavert oil based mud from kick-off to TD

The well 34/10-48 A drilled through hydrocarbon filled sands of both Tarbert and Ness Formations before entering the Late Jurassic sequence. The well bore was abandoned at a TD of 6221 m /2870 m TVD in the Viking Group before re-entering the Topas structure in the north. This was due to severe hole problems after a bit trip to change a failed drilling assembly. An open hole sidetrack (34/10-48 AT2) was performed with kick-off in the Ness Formation at 5608 m. This track was drilled to final TD at 5878 m / 2846 m TVD RKB in the Late Jurassic sequence. The last 50 m of well 34/10-

48 AT2 drilled through intra Heather sandstones with apparently good reservoir quality and hydrocarbon saturation.

No cores were cut and no fluid samples were collected in 34/10-48 A.

The final sidetrack, 34/10-48 AT2 was completed with one manual sleeve in Lunde, three diacs sleeves in Brent and finally another manual sleeve in the Late Jurassic interval. The well is classified as an oil appraisal. Well operations were completed on 15 February 2005 and the well was handed over to production on 22 February 2005 and re-named 34/10-C-46.

TESTING

No drill stem test was performed.

LITHOSTRATIGRAPHY & HISTORY FOR WELL: 34/10-48 A