

GULLFOSS FIELD
WELL 34/10-48 S - TOPAS

LICENCE: PL050 / PL120
 WELL TYPE: EXPLORATION WELL
 SLOT CENTER: 6 787 105,10 m² 461 016,37 mE
 RT-MSL: 84,1 m
 SPUD DATE: 17.03.2004
 COMPLETED: 22.12.2004

DRILLED RESERVOIRS: 4933 - 4644 m MD (2598 - 2710 m TVD RKB) U2
 4933 - 4644 m MD (2598 - 2710 m TVD RKB) N
 6324 - 6395 m MD (2915 - 2919 m TVD RKB) Nester
 6457 - 7305 m MD (2918 - 2933 m TVD RKB) Topas

CASING DEPTH (shallow): 20' 1283 m MD/1162 m TVD RKB
 20' 3" 2857 m MD/2857 m TVD RKB
 9' 5" 5108 m MD/2879 m TVD RKB

LOGGING MWD: 17 ½" section CDR Andra
 12 ½" section ACD / BNCIC / ADN 8 Andra
 8 ½" section ACR / ADCN Andra

LOGGING WIRELINE: 12 ½" section 3670/3650 m EMG9/EMT sample

12 ½" section 6003/2600 m EMG9/EMT sample

8 ½" section 6003/2600 m EMG9/EMT sample

8 ½" section 6435/3416 m MDT/EMT sample

CORING : Core # / Core Size: # 1 / 4
 Interval: 5174 - 5207 m MD
 Formation: Tasse Formation, Brent Group
 Cored / Recovery: 34 m / 33.15 cm = 95.5 %

RESULTS

The main objective of the well 34/10-48 S was to test the hydrocarbon potential of the Topas prospect. Secondary objectives were to test the hydrocarbon potential in 3 h leads, the Nester prospect, the U2 lead at the slope of the Gullfoss Host and the upper Jurassic facies.

The well 34/10-48 S was drilled from the Gullfoss II platform through the (1) U2 lead and before drilling through the Brent Group in the (2) Topas prospect, through the (4) Nester and up to the (5) Nester S as well as from the Gullfoss II platform through the (1) U2 lead and before drilling through the Brent Group in the (2) Topas prospect, through the (4) Nester and up to the (5) Nester S again.

1. The U2 lead from the Gullfoss II platform was found to consist of sand and shales with some intercalations of dolomite and 444 m MD.
2. The lead in the progradational Upper Jurassic dolomites at the base of the main bioherms encountered. The well entered the Middle Jurassic Dolomite I in the outer edge of the Fakta Bank, which is characterized by dolomites with a high dolomite content.
3. The Topas prospect was encountered at 1500 - 1540 m MD - 2887 m TVD RKB (45 m in shallow). Hydrocarbons were encountered in the Upper Brent Group, Middle Brent Group and Lower Brent Group.
4. The Nester I lead is interpreted to be of Upper Jurassic age, possibly Heather formation. 6145 - 6438 m MD (2915 - 2919 m TVD RKB).
5. The Nester S interval is characterized by dolomites with a high dolomite content.

The main objective of the well, the Topas prospect, was achieved, as well as 2 out of 3

The figure is a geological map of the Visund area, located in the North Sea. The map shows several oil fields: VISUND (purple), NOAK (red), and GULLFAKS (green). A legend indicates three geological zones: C (green), G (red), and C (purple). A scale bar at the top right shows distances up to 5 km. A north arrow is also present. The map includes labels for 'Topas' and 'Reservoir A'. A vertical column on the left lists locations: S, GULLFAKS, B, and S.

