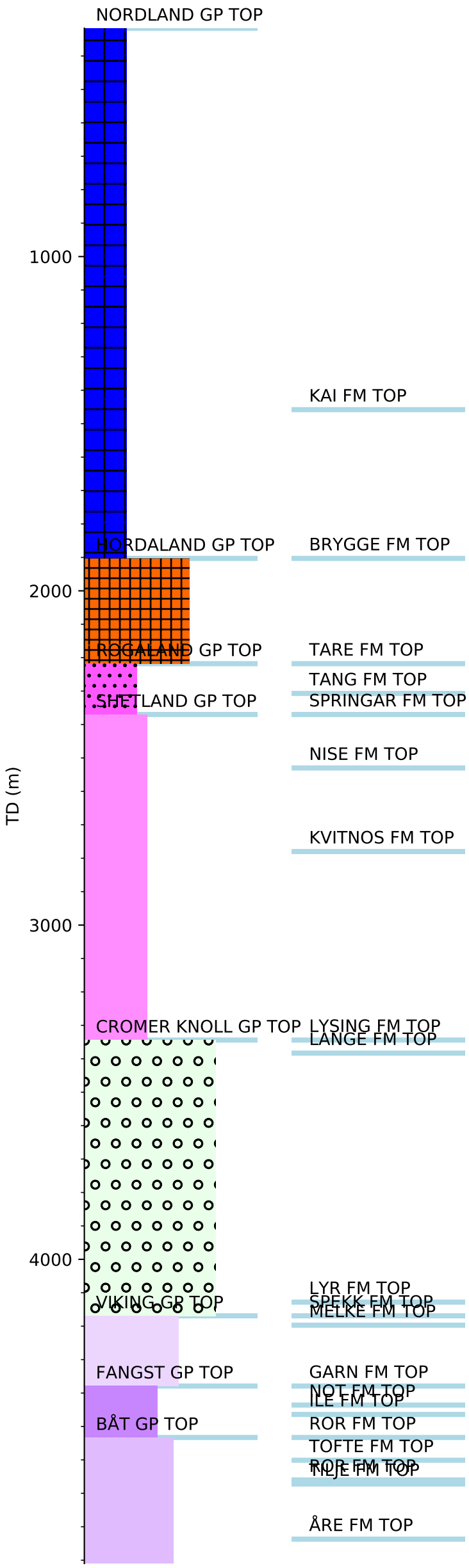
Groups

Formation Tops



Wellbore History

GENERAL

The main objective of well 6506/12-9 S was to appraise the oil and gas potential within the Ile and Tilje Formations.

OPERATIONS AND RESULTS

Appraisal well 6506/12-9 S was spudded 5 April 1993 with the semi-submersible installation "Ross Isle" and drilled to a total depth of 4910 m driller's depth (4903 m TVD), 4915.2 m loggers depth (4908.2 m TVD), into rocks of Early Jurassic age. Oil and gas was encountered in the Early to Middle Jurassic Båt and Fangst Groups. The well was drilled with seawater and hi-vis pills down to 802 m, Gyp/PAC mud from 802 m to 2242 m, Anco 2000 with glycols (Anco 208) from 2242 to 4378 m, and with Ancotherm mud from 4378 to TD. A total of 13 cores were cut in this well. Two were cut in the Paleocene Tang formation but these only 0,35m was recoverd(1%)The other 11 cores were cut in the interval 4415 m to 4846.9 m in the Båt and Fangst Groups. Recoveries for these were from 65 to 100%. Three FMT samples were taken in the Tilje Formation. The well was abandoned as an oil and gas appraisal on 11 September 1993.

TESTING

Five production tests were performed in the Jurassic sandstone section. Drill stem test no 1 in the Åre formation in the interval 4846.0 to 4876 m produced a near-critical gas condensate. The well production was 444 000 Sm3/day of gas and 840 Sm3/day of condensate through a 44/64" (17,46 mm) choke size. Density of the gas was 0.832 (air = 1) and condensate density was 0.814 g/cm3. Drill stem test no 2 tested the Tilje formation in the interval 4805.0 to 4834 m, and it produced a light oil. The well production was 249 000 Sm3/day of gas and 900 Sm3/day of oil through a 56/64" (22,23 mm) choke size. Density of the gas was 0.832 (air = 1) and condensate density was 0.855 g/cm3. Drill stem test no 3 tested the Tilje formation in the interval 4742.0 to 4751.0 m, and it produced a light oil. The well production was 138 000 Sm3/day of gas and 567 Sm3/day of oil through a 44/64" (17.46 mm) choke size. Density of the gas was 0.794 (air = 1) and oil density was 0.825 g/cm3. Drill stem test no 4 perforated two zones in Tilje Formation. First the interval 4712 to 4730 m was perforated. No production was observed from this interval. The zone 4695 to 4709 m was then perforated. Just a minor influx into the well was observed. The rate measured was approximately 60 liter/hrs. Drill stem test no 5 tested the Ile formation in the interval 4477.0 to 4510.0 m, and produced gas condensate. The well production was 33 000 Sm3/day of gas and 17 Sm3/day of condensate through a 110/64" (43.66 mm) choke size. Density of the gas was 0.781 (air = 1) and condensate density was 0.807 g/cm3.

LITHOSTRATIGRAPHY & HISTORY FOR WELL: 6506/12-9 S