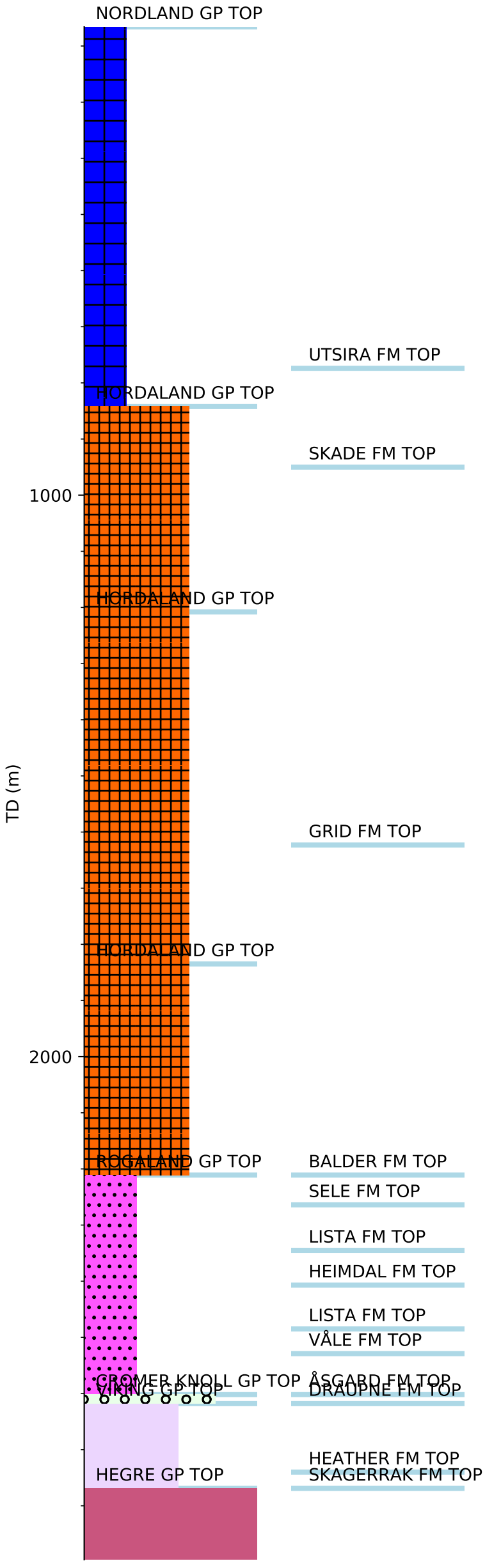
Groups

Formation Tops



Wellbore History

GENERAL

Well 16/1-22 A is a geological sidetrack to well 16/1-22 S on the Ivar Aasen Field on the Gudrun Terrace in the North Sea. The primary objective was to test the hydrocarbon potential in the Sleipner and Skagerrak Formations in the southwestern part of the Ivar Aasen Field, ca 950 m northeast of the main wellbore. 16/1-22 A also aimed to investigate a seismic anomaly at reservoir level.

OPERATIONS AND RESULTS

Appraisal well 16/1-22 A was kicked off at 1465 m in the main wellbore on 27 May 2015. It was drilled with the jack-up installation Mærsk Interceptor to TD at 2896 m (2522 m TVD) m in the Triassic Skagerrak Formation. Static and dynamic mud losses occurred from 2794 m. The losses were cured by using coarse lost circulation material. The well was drilled with oil-based mud from kick-off to TD.

Top of the reservoir in the 16/1-22 A well was penetrated at 2769 m (2432.4 m TVD), 17 m shallower than expected, and with a reservoir thickness approximately half of what was predicted. No Jurassic reservoir was present, only Triassic. A total oil column of about 55 metres was encountered in the Skagerrak formation, 30 metres of which was in sandstone of varying reservoir quality, from moderate to very good. The oil/water contact was not encountered. The seismic anomaly is linked to the top of a total oil column of about 25 metres in an alluvial sandstone unit within the Skagerrak Formation, 15 metres of which had moderate reservoir properties. Hydrocarbon shows were recorded from top at 2769 m and throughout the Skagerrak Formation, with a weakening downward trend towards TD. A gas peak of up to 20% total gas indicated a gas cap in the uppermost part down to ca 2785 m. Shows were visible throughout the reservoir to TD,

No coring or wireline operations were performed in this sidetrack. No pressure points or fluid samples were acquired du to mud losses.

The well was permanently abandoned on 4 June as an oil appraisal well.

TESTING

No drill stem test was performed.

LITHOSTRATIGRAPHY & HISTORY FOR WELL: 16/1-22 A