Formation Tops Groups Wellbore History NORDLAND GP TOP **NAUST FM TOP GENERAL MOLO FM TOP** The main objective of well 6510/2-1 was to test the hydrocarbon HORDALAND GP TOP BRYGGE FM TOP potential of tidal to shoreface Lower Jurassic deposits in the "Vega" prospect, a large structure fault bounded to the East and South-East by the Ylvingen fault complex. Secondary objectives were Upper Permian ROGALAND GP TOP TARE FM TOP shallow marine sand units expected to be sealed by Upper Permian source TANG FM TOP shales and Mid-Triassic aeolian sands sealed by Triassic Evaporites. SHETLAND GP TOP **OPERATIONS AND RESULTS** The well 6510/2-1 was spudded on 16 August 1997 with the **CROMER KNOLL GP TOP** semi-submersible installation "Mærsk Jutlander" and reached a total 000000 depth of 4700 m in shales of Early Triassic age. It was drilled with 000000 seawater and bentonite with hi-vis pills from the surface to 1210 m and 000000 000000 with BARASILC sodium silicate mud from 1210 m to 2926 m. From 2926 m to NO FORMAL NAME TOP 1000 -000000 TD the Sodium silicate mud was gradually depleted to a glycol enhanced 000000 mud (GEM). At 3102 m the well was suspended and the rig taken to 000000 Kristiansund for repair due to riser tensioner difficulties. Further UNDEPINED &P TOP problems with the acoustic BOP control system caused a total 53 days delay before well 6510/2-1 R was re-entered. VIKING GP TOP SPEKK FM TOP MELKE FM TOP Formation tops were penetrated within the prognosed range, except for the Top Permian, which was not encountered. The well found the Lower lurassic to be developed in a more proximal facies than anticipated. possibly an intra tidal plain deposit. The sequence was predominantly shales, with interbedded coal layers and a few thin sandy intervals. Weak hydrocarbon shows were recorded intermittently in the Lower Jurassic sequence, but logs, core material and sidewall samples show the **FANGST GP TOP GARN FM TOP** reservoir intervals to be water bearing. Sand development in the Mid Triassic objective below the evaporites was also poor with no **NOT FM TOP** hydrocarbon indications. The Permian was not penetrated, and the ILE FM TOP Triassic sequence was found to be much thicker than expected. The well TD (m) **BÅT GP TOP ROR FM TOP** reached a total depth of 4707 m in shales of Early Triassic age. The well TD commitment was to drill to Early Permian or 5000 m, but as there TILJE FM TOP was no seismic evidence for any reflector in the remaining section, it was decided not to drill further. Two cores were cut at 1827 - 1837 m and 2126 - 2134 m in Early Jurassic, and one at 4083.5 - 4100.5 m in ÅRE FM TOP Middle Triassic. No fluid samples were taken. The well was plugged and abandoned as a dry well with weak shows on the 21 December 1997. 2000 **TESTING** No drill stem test was performed **GREY BEDS (INFORMAL) TOP**

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