Formation Tops Wellbore History Groups NORDLAND GP TOP **GENERAL** Well 24/9-9 A was drilled to appraise the oil discovery on the Marihøne A prospect made by 24/9-9 S in the Vana Sub-basin ca 6 km east of the UK border in the North Sea. The objective was to test the A2 segment in Hermod sands 1.5 km south-east of 24/9-9 S. **UTSIRA FM TOP OPERATIONS AND RESULTS** Appraisal well 24/9-9 A was drilled with the semi-submersible installation Songa Dee. It was kicked off from near vertical at 1035 m in well 24/9-9 S on 7 October 2009. Angle was built in Hordaland claystones and the Grid sands, until the Balder and Sele claystones were drilled with 64deg inclination without any indication of hole stability problem or deviation from the prognosed pore pressure. TD was set at 2981 m in the Paleocene Sele Formation. The well was drilled with Versatec oil based mud from kick-off to TD. NO FORMAL NAME TOP The main reservoir sand of the Hermod Formation was encountered at 2872 m (2052 m TVD MSL). It was oil bearing with a 21.3 m TVD oil leg down to 1000 an OWC at 2916 m (2073.4 m TVD MSL). The OWC was picked from MWD logs and was confirmed by pressure gradients. Average porosity of the oil bearing zone was 30% with an average Sw of 23%. The gross thickness of <mark>HO</mark>RDALAND GP TOP **GRID FM TOP** the Hermod reservoir was 23.6 m TVD. The oil based mud used produced a background weak dull yellow direct fluorescence and faint cut fluorescence, which effectively masked any mineral oil show. Additionally the solvent properties of the mud, combined with the structure destroying effect of the PDC bits and the flushing effect due to the overbalanced mud weight may have removed virtually all trace of shows from disaggregated sand grains and minimised or removed shows from NO FORMAL NAME TOP sandstone aggregates. No cores were cut in 24/9-9 A. No wire line logs were run and no fluid samples taken. Formation pressure tests were made using the Schlumberger Stethoscope tool on MWD. The well was plugged back for a second sidetrack on 15 October 2009. It is classified as an oil appraisal well. **TESTING** No drill stem test was performed. 2000 **BALDER FM TOP** LAND GP TOP SELE FM TOP

LITHOSTRATIGRAPHY & HISTORY FOR WELL: 24/9-9 A

HERMOD FM TOP

SELE FM TOP