



WWT Non-Rotating Protectors

Directional Well – Offshore

18% Torque Reduction, Casing wear reduction

Case History – Europe - 11900

WWT NRPs Achieved 18% Torque Reduction in Directional Well

Background

An operator requested the use of WWT NRPs to reduce the torque while drilling the 12-1/4" section, running the 9-7/8" liner, and drilling the 8-1/2" section of an offshore directional well.

282 x SS3-578 NRPs were installed to cover the areas of highest side forces in the top build section from 300 to 1,620 m MD at a frequency of 2 per joint.

NRP Performance

All three sections were successfully completed with NRPs coming back in very good condition. Backmodels show that NRPs helped reduce torque by up to 18%.

Casing wear logs were performed in between sections to evaluate the condition of the 14" casing. Results show low wear in NRP coverage area. WWT simulations were able to closely predict casing wear especially at the deeper sidetrack point.

