

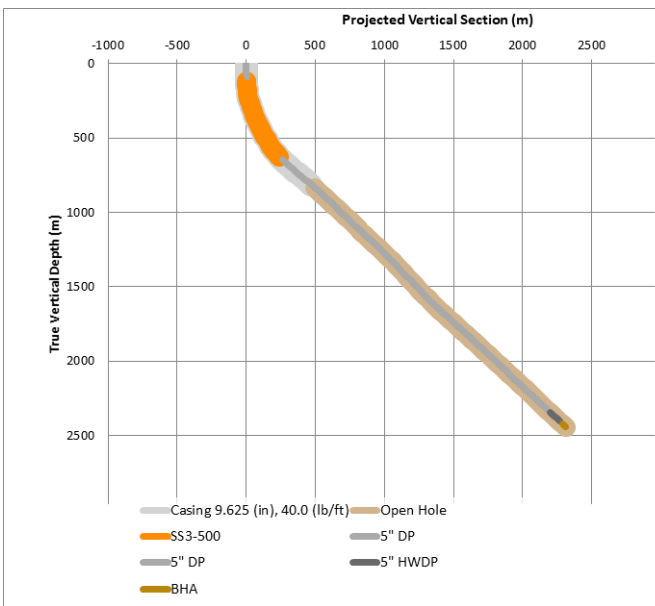
WWT NRPs Consistently Provide 25-35% Torque Benefit and Casing Protection on 25+ Wells in SE Asia

Offset Wells Drilled with WWT NRPs

A series of similar directional wells were drilled in South East Asia drilled using WWT Non-Rotating Protectors for torque reduction and casing protection. WWT's NRPs consistently provided torque reduction and casing protection on all the wells while only covering 600m.

25+ wells with 25-35% Torque Reduction with WWT NRPs

NRPs were installed to cover 600m of the highest side-force area. That area varied between surface and 900m depth with protectors covering 600m at 2/joint. In all wells torque was reduced by 25-35% from simulated results at TD.

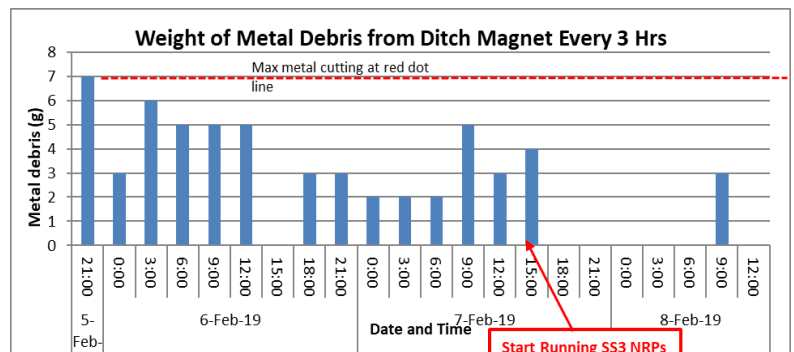
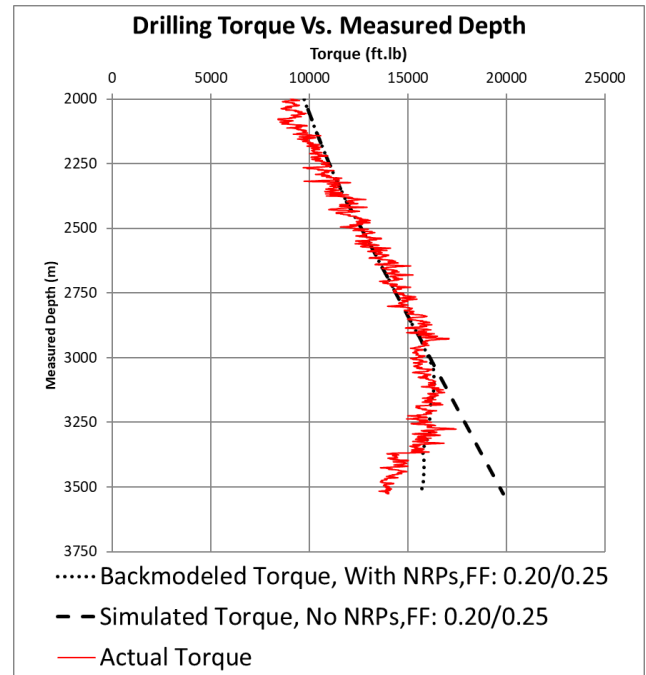


Reduced Casing Wear

These wells drilled using WWT NRPs decreased metal returns when NRPs started going in hole.



Location: Asia
Well Type: Directional
Objective: Torque Reduction and Casing Protection
Solution: WWT NRPs
Results: Lower Torque and Metal Debris using **WWT NRPs**



Metal returns on one well summed up to 51g after drilling without WWT. As the NRPs entered in hole, the average metal returns while drilling was less than 1g every three hours, giving only 7g of metal returns after around 650m of drilling. Similar results were seen on all wells.