Challenging Horizontal Well with Expected Casing Wear

Casing Wear on Challenging Horizontal Wells
A series of similar horizontal wells in the Middle East were drilled and showed significant wear on the 7” liner from kick off point (KOP) to liner shoe after drilling 6-1/8” sections without NRPs installed.

NRPs Cover Areas of Concern for Casing Wear
NRP’s were installed on the pipe racks prior to picking up the drill pipe. When drilling started, the bottom NRP covered the KOP region. The section was drilled in one 4,000 ft bit run and at the end of section, NRPs covered from KOP to liner shoe with the bottom NRPs going into open hole. Wear logs indicated casing wear with NRPs was lower than the previous wells at the KOP and build.

Protectors Show Ability of Going into Open Hole
After POOH the NRPs used in open hole showed no signs of damage or abnormal wear. The section was drilled in one run while protecting the area of concern without the need to reposition NRPs due to the ability to go into open hole.