



Liner Run Made Easy with WWT

NRPs

NRPs Improve Hook Load

- SS3 NRP model type used: The low friction polymer exterior diminishes friction along the wellbore wall reducing drag and therefore increasing tripping in hook load.
- 183 x SS3-500 NRPs were installed mid span: This mitigates buckling by centralizing the drill string and limits steel on steel contact points.
- The extended reach well shown below was able to successfully land the 4 1/2" liner without the need to rotate. Lockup would have occurred if a friction factor of 0.20 or higher was experienced and NRPs were not employed.

