

Latin American Operator Uses NRPs to Reduce Torque and Stick-Slip

Torque Limitation Using Undersized Rig

Small rigs used to drill in remote locations tend to be limited by torque capacity. Environmental and economic limitations do not allow for oil-based mud or lubricants.

Stick-Slip Slows Drilling

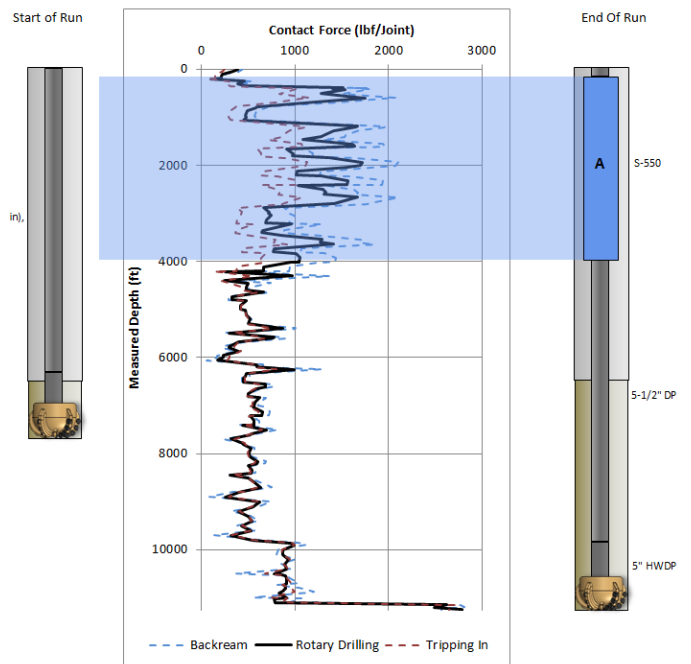
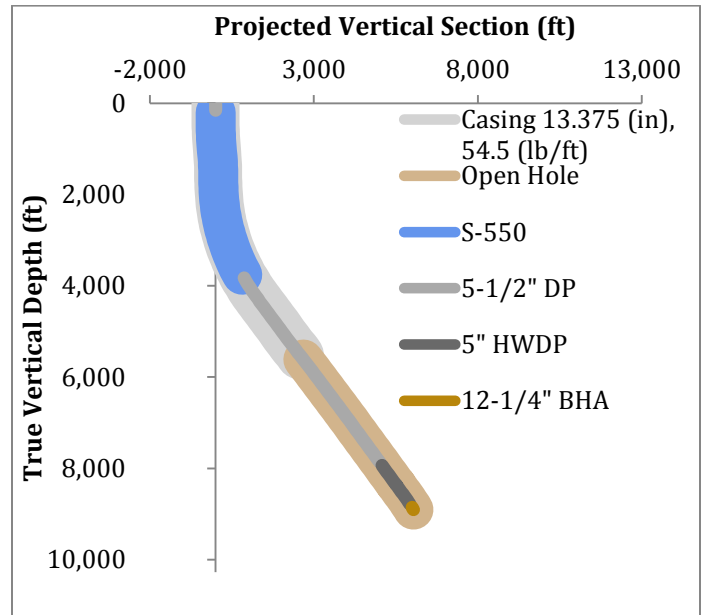
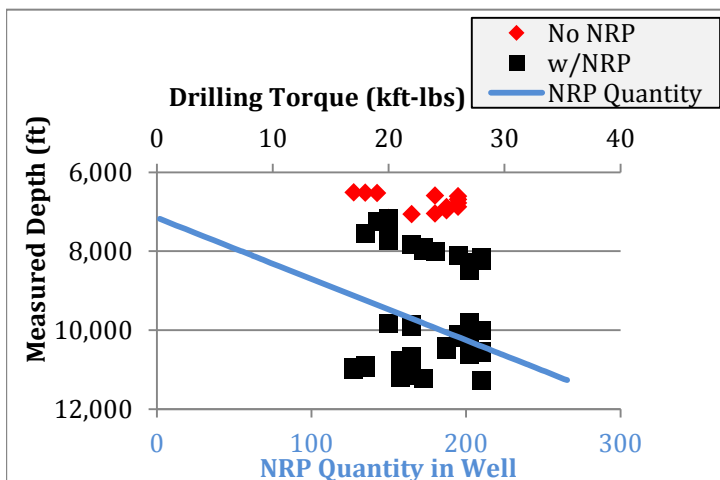
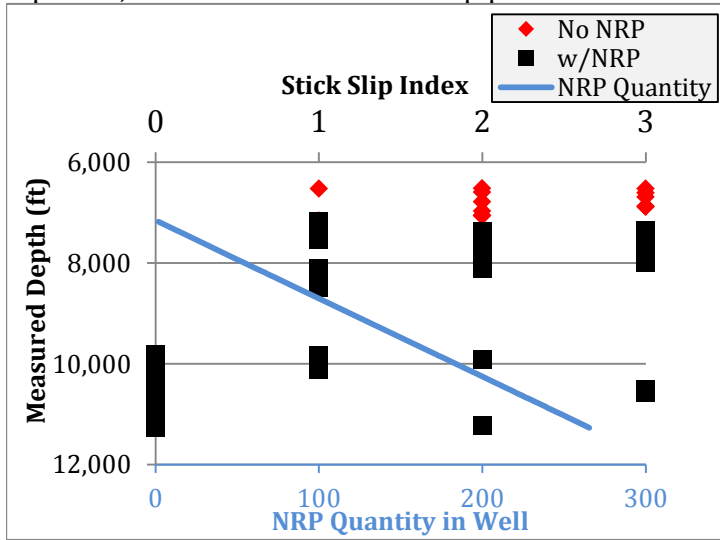
Stick-slip tended to require reduced WOB and thus ROP in the intermediate 12-1/4" section of the wells. While the intermediate section tended to be only 5,000ft in length, the stick-slip problem was persistent across most wells in the field.

Stick-Slip Reduced and Torque Held Steady

As more NRPs were run into the hole, the stick-slip index reduced and the torque held steady. This allows for optimizing WOB and thus ROP. WWT's Non-Rotating Protectors (NRPs) reduce rotational strain on the top drive, and allow for smaller drill pipe.



Location: Latin America
 Well Type: Build-and-Hold
 Objective: Torque and Stick-Slip Reduction
 Solution: WWT NRPs
 Results: Reduced Stick-Slip and Torque



WWT Non-Rotating Protectors
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