



WWT Non-Rotating Protectors

WWT Non-Rotating Protector Provides

Torque Reduction

Case History – Latin America - 11646

WWT NRPs Significantly Reduced Torque in S-Shaped Well

Torque Concern

WWT Non-Rotating Protectors (NRPs) were installed targeting the areas of high side forces throughout drilling the 12 1/4" and 8 1/2" hole sections.

WWT model SS3-550 NRPs were installed at a frequency of one per joint to reduce torque and drag.

- 150 NRPs installed in the 12 1/4" section.
- 165 NRPs installed in the 8 1/2" section.

NRP Performance

Maximum analyzed side forces were 2,900 lbf/jt. Data indicates that torque was reduced by:

- **51%** for the 12 1/4" section.
- **70%** for the 8 1/2" section.

