



WWT Non-Rotating Protectors

WWT Non-Rotating Protectors Provide
Casing Protection at Sidetrack
Case History – Deepwater GOM – 12673

Tackling a Tough Deepwater Well with Ease: NRPs in Open Hole & MPD

Executive Summary

A Gulf of Mexico well required 14" casing protection at an 8°/100ft sidetrack. WWT installed 378 HD-SS3-658-slim model NRPs at 2 per joint due to excessive side force. The slim version was necessary for RCD compatibility, stripping NRPs out of hole with 350 psi backpressure. Due to excessive tar, a bypass section was also drilled and TD of 29,850 ft was successfully reached. Approximately 50 NRPs went into the open hole salt formation to protect the sidetrack point throughout both bit runs.

NRP Performance:

- Max 7,400 lbf/NRP (stiff string model), ~21,000 lbf/joint (soft string model shown below).
- Cumulative 1,620 Krevs across the sidetrack and bypass hole sections.
- Minimal NRP OD wear and no signs of DP wear, indicating the casing was protected throughout drilling.

