

DrillRdillo – Dormant Casing Scraper (DRD)



With full 360° coverage, the DrillRdillo™ Dormant Casing Scraper (DRD) blades are retracted within the single-piece body during drilling or pre-completion operations. When the time comes to activate the DRD, drop the ball and pressure up to release the scraper blades; then, either using string rotation or reciprocation, scrape the casing wall whilst pulling out of the well.

FEATURES

- Available in 7", 9-5/8", 10-3/4" and 13-3/8" sizes
- Various mill type configurations available, depending on the application
- Steel ball drop application
- Vibration and shock tested blade retention system
- Jar tested the activation system to 300gn
- High torque connections available

Wellbore Clean-up Technology

PARTS

- Upper and lower Carbide mills

- Brick Carbide faced mills

- Reduces torque
- Provides centralisation
- Drift ID

Tungsten Carbide mills

- Robust mills for drilling/milling

- 12 robust scraping blocks arranged to provide 360°

coverage of the casing wall

Blades are retained within the body until activated

- High torque connections

APPLICATIONS

Drilling

- Run in the drilling BHA; the DRD scrapes/cleans the casing & packer setting depths before tripping out of the hole

Completion

- Run as an integral part of the lower completion assembly, the DRD scrapes/cleans the casing packer setting depth before tripping out

Remedial/Decommissioning

- Run in conjunction with the milling assembly. Multiple DRDs can be run in a single BHA to scrape/mill multiple casing sizes

VALUE CREATION / KEY BENEFITS

OPERATIONAL OPTIMIZATIONS / KEY BENEFITS

- Eliminates the need for a dedicated scraper run by allowing the client to combine the drilling & wellbore clean-up BHA

- Reduces rig time between the drilling and completion phase providing faster well delivery

- Mitigates premature lower completion failure

- Potential to create rig spread cost savings of USD

\$200k per well for shallow water and more than USD

\$500k for deep water

- Delivered client savings in excess of USD \$33M since launch in 2018

SPE / INDUSTRIAL TECHNICAL PAPERS /

CASE HISTORY

Covered in SPE paper ref; "SPE-193036-MS SPE – Advanced ERD Lower Completions: Delivering Accelerated Production and Enhanced Performance" (2018)

Presented case study at COMSTEC Malaysia 2020, demonstrating operational optimizations delivered to Repsol Malaysia

128 successful runs globally covering the Middle East, Asia, Africa and Europe