

RISER CLEANING TOOL (RCT)

SPECIALIZED TOOLS

FEATURES

- Two strong fabric-reinforced rubber wipers
- 32 individual double-crimped bristle brushes
- Integral Junk Bucket to catch loosened debris
- Non-rotating parts
- Rig end connections can be cut to fit customer specifications
- High-strength body

ADVANTAGES

- Stops accumulated debris from interfering with completion operations
- Full 360° cleaning coverage
- Can be short-tripped during a pre or post clean up job
- Fits into any string where the riser is to be cleaned
- Designed for safe handling on the rig floor
- Permits running liner/casing during displacement trip

The RISER CLEANING TOOL* (RCT) allows operators to clean debris from the riser successfully and safely even when a restricted ID above the riser, such as a surface BOP stack, prevents the entry of large-diameter tools.

The RCT is designed to pass through ID restrictions and still provide aggressive mechanical scratching and wiping to remove even the most stubborn fluid sheaths that may have accumulated. The debris is extracted from the riser with the associated integral Junk Bucket.

Applications

The RCT is used prior to any completion operation requiring a clean riser or when displacing drilling fluid from the riser. The RCT insures removal of the sheath of debris-laden fluids from the riser wall and prevents the remaining fluid sheath from depositing solids on sensitive completion string components, thus helping eliminate the chance of expensive non-productive time (NPT).

Operations

The RCT can be run in any string used to clean the riser. Typically, the tool is run above a circulating tool, such as the WELL COMMANDER (WCMD) SINGLE ACTION BY-PASS SUB (SABS), or DUAL ACTION BY-PASS SUB (DABS). Weight is applied at surface to push the tool either through the restrictive wellhead or BOP ID. The wipers and brushes collapse onto the body of the tool as they pass through the restriction. Upon exiting the restriction they expand to effectively clean the larger ID riser as the work-string is run-in and retrieved from the hole. Additional reciprocation may be required for a more thorough cleaning. Afterwards, any loosened debris is collected in the integral Junk Bucket and removed from the well as the tool is retrieved at surface. Further, the RCT has been used to eliminate extra trips while running subsea casing strings. After cementing operations are completed, the string is disengaged from the casing and the riser displaced and cleaned prior to tripping out with RCT.



How it works

The RCT is run in the hole (RIH), through the restriction and to the required depth. As the tool is RIH, the two wipers and 32 bristle brushes engage the surface and aggressively remove accumulated debris that circulating alone cannot remove. The 360° cleaning coverage insures the riser walls are completely wiped and scratched clean. The integral Junk Bucket traps the loosened debris so it can be removed from the riser when the RCT is tripped out after completion of the displacement run.



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