

WELL SCAVENGER

SPECIALIZED TOOLS

FEATURES

- Modular design allows multiple Debris Chambers to be utilized greatly increasing recovery capacity
- Each tool module is supplied with dedicated lifting and handling subs for safe and efficient make up and lay down
- The lifting and handling subs for each Debris Chamber are sealed and equipped with valves to allow the emptying and disposal of well fluid and debris to be carried out in a controlled manner

ADVANTAGES

- Debris chambers can be efficiently replaced online if multiple runs are required, thereby reducing Non Productive Time (NPT)
- Recovers debris from targeted areas without high circulation rates/ pressures, avoiding potential losses or damage to sensitive formations
- Can be used effectively where the carrying properties of the fluid are limited
- Designed for debris recovery at or near sensitive equipment such as packer plugs and Formation Isolation Valves (FIVs)

The WELL SCAVENGER* (WS) is a modular tool, specifically designed to capture and remove debris from the wellbore.

The modular design comprises a single nozzle Engine, a Debris Screening Module and one or more Debris Chambers. The Engine Module generates a localized reverse circulation at the end of the workstring to capture and recover debris in-situ. The tool can be combined with string magnets or junk baskets to enhance removal of ferrous or larger debris, respectively.

Applications

The WELL SCAVENGER is used during intervention applications where in-situ debris recovery is required. It can be run to recover debris from the top of isolation valves, from above blanking plugs and for cleaning out after perforating. In addition, the tool can be run during milling operations to capture debris as it is generated, or during fishing operations. The tool can be used effectively in clear brine (Newtonian) fluids that have no carrying capacity or suspension capabilities. The WELL SCAVENGER also can be used where low circulation rates are desired, such as near sensitive downhole hardware or where the formation could be harmed by high circulating rates. Owing to the modular design of the Debris Chambers, the WELL SCAVENGER also can be utilized when large quantity debris recovery is required.

How it Works

Conventional circulation through the Engine Module creates a low-pressure area which, in turn, generates a localized reverse circulation flow path around the outside of the tool to the end of the workstring. This reverse circulation pulls debris into the inside of the tool where it is collected and retained in the Debris Chamber(s). Once the debris is collected, the fluid passes through the Debris Screening Module and joins the conventional circulation flow path.





Ferrous Debris Recovered in Debris Screening Module



Non Ferrous Debris Recovered in Debris Chambers



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