

MAGNOSWEEP II (MSWEEP II)

Specialized Tools: Debris Recovery Tools

The MAGNOSWEEP* II (MSWEEP II) magnet is designed to recover large volumes of ferrous debris to ensure the integrity of the wellbore cleanup. The magnet features a large magnetic surface area along with discrete flow channels to combine higher magnet strength with greater volume to optimize recovery. The tool can be run as a component of most drilling/milling/polishing assemblies or as an integral part of the drillstring during wellbore preparation operations.

Applications

The MAGNOSWEEP II magnet is run as an integral part of the work string during cleanup to collect and remove ferrous debris. It also can be run as a part of a cased hole drilling assembly, including milling or polishing assemblies. The MAGNOSWEEP II magnet should

be run in any operation with the potential of generating or encountering ferrous debris. This could include displacements, perforating, pre-fracturing, milling, burning, fishing, and multizone or smart completions. The tool can be rotated and reciprocated without fear of damaging the casing or other tools.

How it works

The MAGNOSWEEP II magnet is made up in the workstring as a conventional tool. It has no limiting trip-speed factor and can be rotated at common drilling speeds. The blades on the housing provide generous flow area for fluid bypass around the tool while at the same time the stabilizers provide stand-off for a secure area away from the casing wall to collect debris.

Features

- Compact design
- Single piece mandrel
- High strength rare earth magnets
- Fixed stabilizer sleeve to provide stand off when POOH
- Optional dedicated flow channel to prevent flow path restrictions when packed full of debris

Advantages

- Removable magnets for body inspection
- Recovered material is easily removed on location
- High temperature rating on magnets up to 350°F (177°C)
- Debris channels allow for larger volume of ferrous material to accumulate

