

MAGNOSHOE (MSHOE)

Specialized Tools: Debris Recovery Tools

The MAGNOSHOE* (MSHOE) magnet is designed to retrieve irregular shaped debris that has fallen to the bottom of the wellbore and cannot be circulated back into the annular path of a traditional drillstring magnet. Designed with the best technology available in magnets, the tool simplifies and enhances any wellbore preparation operation.

Applications

The MAGNOSHOE tool can be used in any situation where large metallic debris is sitting on the bottom of the wellbore or on top of another element in the wellbore. Since large debris can be difficult to mill and circulate back into the fluid stream, the debris must be retrieved mechanically. The tool is used in any wellbore preparation activity such as displacement or dedicated fishing or cleanout trip. It is deployed quickly on the end of the workstring.

Features

- Fully encased rare earth magnet
- Magnet components rated to 480°F (250°C)
- Forward facing circulation ports
- Simple three piece construction
- Modular protective shroud

How it works

The MAGNOSHOE tool is run in the well on the end of the workstring. The tool employs a protective coating of gel to prevent the accumulation of debris on the way into the hole. The target debris will yield the gel on contact so that the target comes into direct contact with the magnetic forces. The target debris is then held connected to the magnet until it is physically removed on surface. When the tool and the debris are brought out of the hole, the MAGNOSHOE tool can be quickly removed from the string and set aside to prepare for the next operation.

Advantages

- High strength magnet array can carry and retain oddly shaped debris
- Magnet components rated to 480°F (250°C)
- Captured debris is not disturbed by fluid draining from drill string
- Protective shroud can be changed out on the rig to increase capture space for the varying amount, size and shape of debris
- Easily cleaned on rig for subsequent runs

