

Disengageable Mill Assembly

DMA

The Disengageable Mill Assembly has been designed to allow liner-hanger-top Polished-Bore Receptacles (PBRs)/Tieback-Bore Receptacles (TBRs) to be cleaned and dressed off with no need for complicated space-out considerations, especially when drilling inside the liner below.

Features

- Allows two different PBR/TBR combinations to be dressed in one run
- Has a set of “trip buttons” which prevents premature release of the mills from the mandrel
- Enables liner-hanger PBRs/TBRs to be cleaned and dressed without the need for complicated space-out considerations
- Permits drilling in the liner below without “no-going” on PBR/TBR as a restriction

Benefits

- Saves valuable rig time by eliminating trips
- Drilling is enabled in the liner below without “no-going” on PBR/TBR as a restriction

Applications

The Disengageable Mill Assembly from M-I SWACO* WELLBORE PRODUCTIVITY* allows conventional liner-top PBRs/TBRs to be dressed off or cleaned in the normal manner. This unique tool allows two different PBR/TBR combinations to be dressed off on the same run, eliminating a separate trip for each receptacle.



How It Works

After dressing off and cleaning the PBRs/TBRs, additional weight is applied and the inner mandrel of the mill set shears through the mills, allowing the drill pipe above to be tripped in the hole further. The mill set remains in the PBR/TBR to protect the already cleaned receptacles while other drill pipe is tripped in the hole and/or rotated. The ability to disengage through the upper PBR/TBR means that a conventional set of mills can land on another PBR/TBR below the first, and allow it to be dressed in the conventional manner. The disengageability allows drilling-milling to take place in the liner below without “no-going” or landing on the existing liner top and preventing further progress in the hole.

The Disengageable Mill Assembly left behind in the PBR/TBR is then collected by the inner mandrel as the drill pipe is retrieved from the well. A unique feature of the unit is a set of “trip buttons” that prevents the separation of the mills from the mandrel until the mill set is correctly positioned inside the relevant PBR, thus preventing unwanted, unplanned premature release.

When the unit has been located and left inside the PBR, additional “no-go”/landing subs can be spaced out to land and stop. This allows activation of other weight-set tools such as the MFCT* (Multi-Function Circulating Tool).

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