



PACKER RETRIEVER SPEARS

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Overview

The Packer Retriever Spear is designed to remove drillable full-bore packers from the well casing. With appropriate dressing, the tool can mill through the packer if necessary. It will remain in the proper catching position at all times once it is through the packer to engage the lower end of the packer, thereby enabling a one-trip milling and recovery operation. The tool can be released and reengaged, and also may be run with a jarring assembly.

Construction

The Packer Retriever Spear consists of only three parts: a top coupling, mandrel, and a slip. An optional bull plug that can be dressed with tungsten carbide is available.

Operation

The Packer Retriever Spear is installed at the lower end of the milling assembly. Sufficient extension joints allow the Packer Retriever Spear to clear the lower end of the packer bore before the dressed shoe or mill makes contact with the outside of the packer. As the Packer Retriever Spear enters the packer bore, the retrieving slip is forced up into position to allow passage through the packer bore. The slip automatically drops into the catch position as it clears the lower end of the packer. The milling operation may now be performed and the packer retrieved.

The Packer Retriever Spear remains in catch position at all times. It will not prematurely release due to sudden movement of the packer and can withstand severe upward strain. If necessary, the tool can be released with right-hand rotation and lowering of the fishing string after the slip has been pulled into friction contact with the packer.

When ordering, please specify:

- (1) Complete assembly or part number
- (2) O.D. of assembly
- (3) Size and type of connection