

CASE STUDY- 2020- GULF OF MEXICO

Tornar® 3 Stage BOP Cleaner successfully cleans BOP stack, collecting 49 lbs of milling swarf

Challenge

A GOM customer with a subsea well planned to mill a casing window for future sidetrack and expected to have large amounts of milling swarf. The Customer wanted to ensure that the BOP Stack and Riser was free of swarf and milling debris to maintain well integrity and safety. Even small objects can severely jeopardize well control and integrity, with potentially hazardous consequences to people, the environment and well components. A traditional jetting tool should not be used as it causes debris to be pushed further into the BOP cavities and may cause damage or failure in the BOP Stack, so a tool creating a highly effective vortex cleaning was preferred.

Solution

Archer's Tornar® Sub Sea BOP Cleaner ensures the maximum extraction of harmful debris from BOP cavities and marine risers without harming the BOP. The Tornar® Sub Sea BOP Cleaner can be configured to suit operational requirements, for example by adjusting the ratio of flow ports to magnets, in order to maximize debris retrieval. Integrated Operations support are available to remotely work with the rig to successfully clean the Riser BOP Stack and operate the 3 stage Tornar® Tool.

Result

The Tornar® Sub Sea BOP Cleaner and Riser Magnet package was successfully utilized to the subsea BOP Stack using our 3 stage Dart Activation technology to open and close the BOP Cleaning tool. Being able to close the BOP Cleaning tool is essential in a subsea well where well control may become an issue and the ability to shut in the drillpipe is needed. The Riser Magnets achieved the purpose of recovering 49 lbs of ferrous debris and ensuring that the BOP's were clean and ready for future operations. Failing to clean the BOP Stack could cause thousands of dollars of NPT and BOP Repairs.

Tornar® Cleaning tool efficiently cleaned out BOP Stack
Tornar® Riser Magnets collected the Milling Debris
Archer Tool Hand optimized Riser/BOP Cleanout

