Wellbore Integrity SOLUTIONS

Well Abandonment Technologies Deliver Outstanding Results, Offshore, Western Australia

Successful deployment of Wellbore Integrity Solutions pipe cutter and ProLATCH-N* wellhead recovery systems highlight one-trip efficiencies and the resulting time savings.

CHALLENGE

In an offshore environment, a well abandonment operation was required to be executed efficiently in a single trip. Three casing strings required to be cut. The 20 in. and 36 in. casings were also believed to be uncentralized, that generally results in longer cutting times and increases the risk of an additional trip.

SOLUTION

Wellbore Integrity Solutions proposed the use of its innovative portfolio of well abandonment technologies, including the ProLATCH- N well abandonment system to cut and recover the 20 in. x 36 in. wellhead assembly in a single trip. The ProLATCH-N system included a through rotating spear with a wellhead recovery profile and a heavy-duty pipe cutter that provided the one trip solution.

RESULTS

- 9⅞ in. heavy wall casing was cut rapidly and recovered.
- An efficient one trip solution was provided to cut both 20 in. and 36 in. casings and recover the wellhead assembly.
- The cutting time of 2 hours 15 minutes to cut both 20 in. and 36 in. casings was recognized to be faster than offset data examples.

Use of the latest well abandonment technologies demonstrates advantages in a high cost, offshore operating environment.

In a Western Australia, offshore well abandonment project, the customer recognized several notable achievements.

- A heavy wall 9⅞ inch casing string was tension cut in 4 minutes and successfully recovered.
- A ProLATCH-N wellhead recovery system, with a heavy-duty pipe cutter, dressed with the latest milling technology, was deployed to cut 20 inches and 36 casings and retrieve the FMC UWD-15-RL wellhead assembly in a single trip. Both casings were cut in 2 hours, 15 minutes, and the wellhead assembly recovered as planned. The time to cut both casings was determined to be significantly faster than offset examples.

Top Left: Casing cutter and wellhead in moonpool.

Top Right: Series 18 spear and wellhead at rotary table.

Bottom Left: Cut and recovered 20 in. 213# X-80 x 36 in. 748# X-56 casing at surface.

Bottom Right: Cut 9⅞ in. casing at the surface.