First 13 3/8” X-it™ Whipstock Successfully Installed Offshore for Major Customer in the North Sea

Challenge
An operator in the North Sea required a clean, full-gauge window and rathole for sidetracking with a 12 1/4” directional drilling assembly in a well. The exit would be through a 13 3/8”, 68-lbs/ft casing, at 1850 meters.

Solution
The 13 3/8” X-it™ cased hole whipstock mechanical system was run with a single trip tri-mill configuration. The X-it whipstock assembly was then run and oriented 43 degrees left of the high side, using an measurement while drilling (MWD) service, and anchored. Prior to setting, the anchor was trigged on top of Archer’s SPARTAN™ plug.

The single trip mill was released from the whipstock and window milling commenced. The window and rathole were successfully milled. Slide tests were performed to verify the window condition.

The single trip mill was found to be in gauge and in excellent condition when back on surface. The subsequent 12 1/4” OD RSS drilling assembly passed through the window and drilled ahead the planned 12 1/4” section. The 9 5/8” liner was successfully run through the window and landed successfully at total depth (TD).

Archer’s Integrated Operations (IO) center supported the entire milling operation.

Result
A 12 1/4” window was provided at 9.89 meters in just less than 4 hours. This success was a result of teamwork between the customer and Archer. The X-it whipstock operation was also first time Archer’s IO center was used to support a casing exit operation in the North Sea.

For more information, contact your local Archer representative.