

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



Region: North Sea
Customer: Major operator

Case benefits

- Single-trip reliable, effective and efficient sidetracks
- Confidence in system due to 300+ wells track record

Key capabilities

- Unique multiramp whipstock; carbide coated ramps
- Unique geometry combination mill; integrated pilot mill
- Tri-directional anchor slips provide positive anchoring

Typical Applications

- Sidetracks
- Multilaterals
- Controlled casing exit

For more information, contact your local Archer representative.

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 triggered 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 the 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.



Archer is a global oil services company with a heritage that stretches back over 40 years. With a strong focus on safety and delivering the highest quality products and services, Archer operates in 40 locations over 19 countries providing drilling services, well integrity & intervention, plug & abandonment and decommissioning to its upstream oil and gas clients. **We are Archer.**

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