

CASE STUDY- 2021- GERMANY

X-it® Whipstock System Delivered High-Quality Window Through Dual Casing in Complex Sidetrack

Challenge

An operator in continental Europe sought to sidetrack an existing well drilled in the Remlingen field, Germany. The well included two casing strings at the kickoff point - 9 5/8" - 40#/K-55 and 13 3/8"-66#/K-55 in a very shallow depth of just 263 m.

“Perfect window, smooth exit, right direction ”



Result

The challenging sidetrack operation was delivered with remote support from Archer in Norway during the milling operation. The window was milled efficiently in one run, and the Single Trip Mill was found to be perfectly in gauge and in excellent condition when back on surface. The subsequent 8 1/2" drilling assembly passed through the window without any issues, and drilled ahead the planned the next section. The success was a result of thorough planning, and good coordination between Archer and our local partner.



Value Creation

Using Archer X-it® System with a mechanical set retrievable anchor enabled the operator to mill casing window through two casing sizes in one trip, saving the operator at least one day in rig time and associated costs.

The X-it® System allowed the operator to lock the whipstock against the casing wall during milling and drilling operation ensuring that the whipstock orientation did not impact operations

Use X-it® modular whipstock sidetracking system to deliver high-quality full-gauge window for exiting two casings.

