

CASE STUDY- 2020- BRAZIL

First P&A Operation in Brazil Utilizing the Samurai® Versatile Multi-Function Pipe Cutter

Challenge

A major international operator working in Brazil required to re-work some of their depleted platform wells as no additional well slots are available. The scope of work was to P&A the well in the 9 5/8" casing section and drill a new 12 1/4" lateral. The 12 1/4" lateral was kicked off from a conventional cement plug 80 m below the existing 13 3/8" casing shoe.

Solution

As Archer works closely with the Operator in Norway, the Operator requested Archer to extend one of its unique Multi-Function BHA solutions for this specific P&A application in Brazil. The single trip Multi-Function BHA comprised of a 9 5/8" bridge plug in conjunction with the hydraulic Samurai® pipe cutter.

Result

Archer's unique Multi-Function BHA was dispatched to the rig in pre-made assemblies and connected on the rig floor with a single connection. The BHA was run in hole to a bridge plug setting depth of 2 840 m. The 9 5/8" hydro mechanical bridge plug was set & the bridge plug running tool was released. The BHA was then picked up and Samurai® casing cutter knives were positioned at 2 467 m. The Samurai® was activated & the 9 5/8" casing was cut in three minutes. A positive casing cut verification was made prior to the BHA pulled out of hole.

Archer's unique Multi-Function BHA enabled the Operator to successfully suspend the lower part of the 9 5/8" casing section and pull the remaining 2 187 m of casing out of hole leaving 80 m of open hole below the 13 3/8" casing shoe.

The 80 m of open hole was required to set a conventional cement kick-off plug and drill the new 12 1/4" hole section.

“Archers unique Multi-Function BHA saves the Customer a complete round trip in & out of hole which equates to less rig operating time & costs”

