

Case Study – Australia

Low Side Casing Exit Successfully Deployed Using The TrackMaster Select™ System

Advanced configuration enables successful 10³/₄ in. casing exit at 4,752 m depth and 110° RHS orientation—completing milling and drilling in just 11 hours

CHALLENGE

A customer required a low side casing exit from 10³/₄ in. 110HS casing at a depth of 4,752 m to achieve the desired well path to target. The plan also required that the milling assembly mill through a steel casing centralizer at 4,757 m. After sidetracking, 6 m of rathole was to be drilled to allow drilling ahead.

SOLUTION

WIS proposed and planned the use of a 10³/₄ TrackMaster Select system, specifically configured for a low side exit. A tri-mill was also selected to mill the window, the casing centralizer, and drill the rathole in a single trip. Experienced, local WIS personnel were also mobilized to ensure that the well site operations were executed in accordance with plans.

RESULT

- A successful, low side casing exit was delivered in a single trip
- The tri-mill configuration selected milled both the window and casing centralizer in addition to drilling 6 m of rathole
- At the surface, the mill was measured and found to be within allowable gauge limits
- The RSS directional assembly passed through window without issue, allowing drilling operations to continue to TD

The versatility and configuration options of the TrackMaster Select™ system was demonstrated in a successful low side casing exit application

A customer in Australia required the casing exit to be conducted from the low side of the wellbore, to accomplish the desired well path. The TrackMaster Select™ system was chosen for this advanced application because of its configuration options and track record in delivering low side exits.

After thorough planning, the system was set in 10³/₄ inch 66.7# 110HS casing at a depth of 4,752 m and an orientation of 110 degrees right of high side (RHS). The total milling and drilling time was 11 hours for 5.0 m of casing, steel casing centralizer and 6.0 m of formation. After reaching total depth (TD), the well was circulated clean, and the milling assembly pulled from the hole. At the surface, the mill was measured and found to be in gauge, and the subsequent rotary steerable system (RSS) drilling assembly was run in the hole and drilled the well to TD.

The first low side TrackMaster Select whipstock deployed by WIS in Australia was well recognized by the customer. This successful sidetrack enabled the recovery of the well path to its original TD.

