

TD PILOT™ CASE STUDY

TD Pilot™ delivers high-speed reaming to land completion strings at Target Depth. Using a unique turbine design, it delivers power to the reamer without any rotation at the surface.

The TD Pilot can:

- Disturb cuttings beds
- Smooth out ledges
- Remove micro dog-legs
- Remove drill cuttings fill at TD
- Remove excessive mud filter cake
- Eliminate requirement for wiper and/or check trips

The TD Pilot enables:

- Reduced well construction costs
- Reliable connections
- Reduced wiper trips
- Success in reaching Target Depths
- Minimised Equivalent Circulating Density with low flow rate
- Maximisation of return on investment
- A cost-effective offering

THE TECHNOLOGY

The TD Pilot™ is a unique fluid-driven, turbine-powered casing or liner reamer shoe for final strings.

The TD Pilot™ allows reaming past any formation problems, to give the best possible guarantee for an efficient completion deployment and placement, while minimising the risk of damaging the completion string.

The innovative tool design ensures low torque, without compromising on speed, to protect completion equipment and ensure Target Depth is reached efficiently. Based on the technology behind the successful Turborunner™, the TD Pilot™ uses simple innovation to present a more cost-effective design.

THE CHALLENGE

Despite higher cost sensitivity, areas like North America suffer the same completion deployment challenges as seen around the world.

Perhaps even more prevalent in these cost sensitive markets, is the need to execute operations fast and first time.

Unstable formations, ledges and fill often cause issues, potentially resulting in the inability to get the completion to Target Depth so requiring additional runs and wiper trips.

CASE HISTORY AND TRACK RECORD

Since its first commercial run in 2017, the TD Pilot™ has now had several runs in North American land wells. Customers have included Gaedeke Energy, Timber Rock, Sherritt International Corporation, Chevron Canada and Point Loma.

Recently the TD Pilot™ was run for Timber Rock in the Caroline Field in Alberta as part of a series of six field trials. Coal channels are seen to be a particular challenge in this area impeding completion deployment.

The TD Pilot™ was used to successfully deploy casing to Target Depth, with reaming carried out for approximately 21 metres to enable access through tight spots in a coal channel.



IN NUMBERS

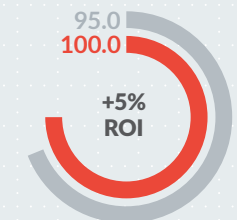
- Conventional Technology
- TD Pilot™



72 HOURS SAVED
On additional runs to achieve TD. Saved on additional rig time and wiper trip costs.



75% TIME SAVED
Removing the need for any further hole cleaning and wiper trips with conventional technology.



ADDITIONAL PRODUCTION
Ensured ROI by deploying the casing to Target Depth.