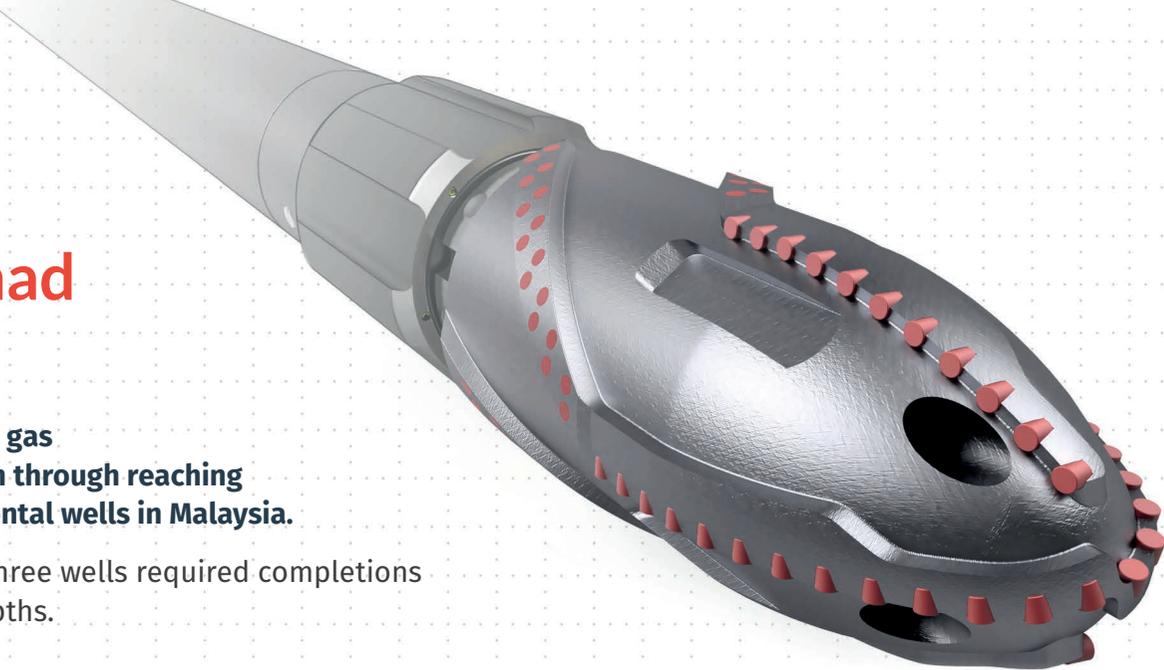


Sarawak Shell Berhad (Shell Malaysia)

Sarawak Shell Berhad, an oil and natural gas company, wanted to optimise production through reaching Target Depth on the three longest horizontal wells in Malaysia.

In order to maximise the pay zones, all three wells required completions to be deployed at exactly the correct depths.



THE CHALLENGE

To ensure the right completion placement, despite the length of the wells and formation problems.

In order to run completions on all three wells, drilling was necessary on 6,000ft of 8.5" open-hole sections, at a 90-degree angle.

While drilling the 8 1/2" hole, tight spots were encountered, to overcome this back-reaming was used to attempt to open the problematic hole section. To overcome this, back-reaming was used to attempt to open the problematic hole section.

The type of string design also meant reactive torque would need to be carefully controlled during the reaming process while running the completion, to avoid damaging any equipment.

THE SOLUTION

Sarawak Shell Berhad now required a fit for purpose, high powered reaming tool to get the completion to Target Depth, so selected the TurboRunner™ from Deep Casing Tools.

The TurboRunner™ 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.

THE RESULT

The TurboRunner™ successfully allowed all three well completions to reach Target Depth.

All well obstructions were easily overcome, and no additional wiper trips were required, due to the performance of the TurboRunner™.

Reactive torque was maintained below the ratings specified, ensuring no damage to any equipment.

The washing and reaming ensured reservoir productivity was optimised, maximising profit returns in the longer term.



IN NUMBERS

Conventional Technology
TurboRunner™



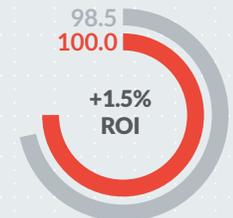
\$720,000 SAVING ON REMEDIAL ACTIVITY

The TurboRunner™ meant no further wiper trips were needed, allowing significant cost savings.



22% TIME SAVED

By reaching Target Depth on all three completions, with no reaming issues, the TurboRunner™ prevented potential rig downtime.



ADDITIONAL PRODUCTION

By running the TurboRunner™ to ensure TD was reached, the potential increase on ROI was around 1.5%.