

Operator	Torxen Energy Ltd.
Hole size	6¼ in
Formation thickness	1- to 2.5-m true stratigraphic thickness (TST)
Reservoir contact	97%

Background

While drilling in Western Canada, Torxen Energy needed to stay in a very thin undulating reservoir sand zone that was 1- to 2.5-m thick. Previous wells experienced several exits from the target zone. Schlumberger proposed using the PowerDrive Orbit RSS with the C-Link* system in combination with the PeriScope HD* service and the ShortPulse* platform to enable precise detection of formation boundaries for advanced well placement.

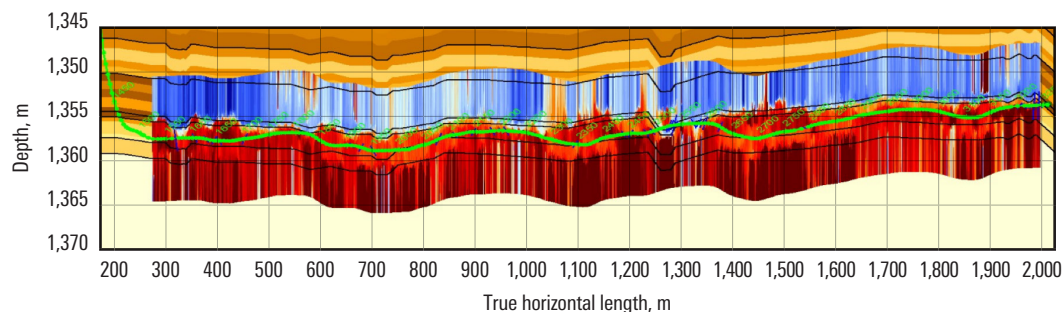
Technologies

- PowerDrive Orbit rotary steerable system
- C-Link IMAG communication system
- PeriScope HD multilayer bed boundary detection service
- ShortPulse integrated MWD platform

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PeriScope HD Service and PowerDrive Orbit RSS Drilled Thin Sand Reservoir in a Single Run with 97% in Zone

Integrated technologies drill a smooth wellbore while increasing reservoir contact and reducing sticking risk



These technologies enabled the operator to drill the 6¼-in hole in a single run with 97% in-zone footage in the thin ostracod sand, preventing the possibility of a sticking scenario or sidetracking the well. This exceeds the previous reservoir contact of 85% to 90% in offset wells suffering multiple exits. The high data transmission from the ShortPulse MWD platform enabled optimal drilling performance without compromising well placement, and the hole was drilled with minimal tortuosity, resulting in a smoother borehole.