



VectorEXAKT™ RSS sets Raisebore Drilling World record with 1382m vertical hole and 150mm deviation

Technology

NOV's VectorEXAKT™ 900 rotary steerable system features an extremely accurate vertical hold capability and is especially suited for wells requiring tight vertical tolerance. The VectorEXAKT™ 900 uses an autonomous, closed-loop steering system with near-bit inclination to maintain verticality.

Challenge

A mine in South Africa used raise-boring techniques to excavate between the surface and an underground tunnel. Raise-boring requires a precisely vertical pilot hole to be drilled along the path of the desired raise then the wellbore is back-reamed to surface, expanding the hole to the desired width.

The previous world record for such a challenge was 1070 meters for a raisebore drilled in 2012.

Results

The VectorEXAKT™ 900 RSS successfully drilled the pilot hole within a 150 mm deviation tolerance over the entire 1382m vertical hole.

