Directional Measurement & Steerable Technologies

VectorEXAKT Rotary Steerable System

VectorEXAKT RSS delivers precise vertical wellbore in Poland



Our VectorEXAKT[™] 800 rotary steerable system (RSS) delivers higher ROP and precise directional control in vertical or inclined boreholes. This integrated drilling and measurement tool incorporates an inclination survey package within 1.5 m of the bit together with a pulser for realtime data transmission.

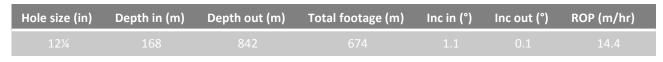
Challenge

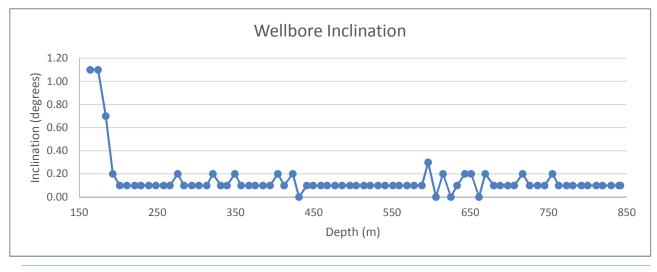
The client needed to maximize ROP while maintaining verticality across a 674-m 12¹/₄-in. vertical section in an onshore gas field in Poland. A third-party MWD survey system provided by the client was used to prove the accuracy of the VectorEXAKT RSS.

Results

The section was drilled at an average ROP of 14.4 m/hr and the start inclination of 1.1° was corrected to 0.2° within 20 m. The VectorEXAKT RSS kept verticality across the entire section, even though the cuttings return indicated the hole was partly washed out and overgauge. Inclination was measured to 0.1° throughout the run.







ReedHycalog New Wellbore Technologies

ReedHycalog@nov.com nov.com