

VectorZIEL Rotary Steerable System

RSS tool successfully drills 2,200-ft tangent through challenging formation



- Location: Dagang Tjanjin Area
- Operator: Chinese NOC

Technology

NOV's VectorZIEL™ 600 rotary steerable system (RSS) delivers higher ROP, smoother boreholes, and precise directional control to reduce drilling and well costs in directional and horizontal wells. Our technology has inclination, azimuth, and gamma ray within 5 ft of the bit along with an integrated pulser and is available to independent directional drillers and operators globally.

Challenge

The client needed to drill an 8½-in. hole through challenging hard anhydrite, conglomerates, and interbedded soft silt stone to be at 20° tangent with tight directional control.

Results

Successfully drilled the section using the VectorZIEL RSS with dogleg severity of 6 to 8°/100 ft at an average ROP of 30 ft/hr.



Hole size (in)	Depth in (ft)	Depth out (ft)	Total footage (ft)	DLS (deg / 100 ft)	ROP (ft / hr)
8½-in.	7,185	9,416	2,230	6-8	30

