



RSS tool successfully drills 463-m build section from 1.4° to 84.9° in one run

Block/Field: SHANXI/CBM

Country: China

Date: April 2018

Lithology: Mudstone

Technology:

Our VectorZIEL™ 600 rotary steerable system (RSS) features inclination, azimuth, and gamma ray capabilities within 1.5 m of the bit along with an integrated pulser. The system can achieve higher ROP, smoother boreholes, and precise directional control to reduce drilling and well costs in directional and horizontal wells.

Challenge:

The customer used the VectorZIEL 600 RSS to drill an 8½-in. hole from vertical and land the curve in a mudstone formation.

Results:

Total footage drilled was 463 m in 62 drilling hours at an overall average ROP of 5.8 m/h. The tool built from 1.5° to 84.9° inclination with an average build rate of 5.4°/30 m and average DLS was 8°/30 m. The tool successfully reached TD in one run, and no obvious wear was observed.



Hole Size (in)	Depth In/Out (m)	Inclination In/Out	Azimuth In/Out	Interval Drilled (m)	Build Rate (°/30m)	DLS (°/30 m)	ROP (m/h)
8½	1072/1535	1.5°/84.9°	324.7°/336.8°	463	5.4	8	5.8

