



RSS tool successfully drills 233-m build section from 4.5° to 48.9°, reducing overall well costs

State: XINJIANG

Country: China

Date: Oct 2018

Lithology: Mudstone

Technology:

Our VectorZIEL™ 400 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 time and well costs in directional and horizontal wells.

Challenge:

Our client used the VectorZIEL 400 RSS to drill an 6½-in. hole from vertical to build a curve.

Results:

Total footage drilled was 233 m in 29 drilling hours at an average ROP of 8 m/h. The tool built from 4.5° to 48.9° inclination with an average DLS of 5.9°/30 m and a maximum DLS of 8.6. The RSS bottomhole assembly (BHA) completed the build section before it was pulled to be replaced with an LWD BHA.



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)
6½	3009/3242	4.5°/48.9°	112.7°/115.2°	233	5.9	5.9	8

