

VectorZIEL 400 RSS drills 233-m build section from 4.5° to 48.9°, reducing overall well costs



LOCATION
Xinjiang, China

LITHOLOGY
Mudstone

DATE
October 2018

TECHNOLOGY

The 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 achieves higher ROP, smoother boreholes and precise directional control to reduce drilling time and well costs in directional and horizontal wells.

CHALLENGE

The client used the VectorZIEL 400 RSS to drill a 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/hr. 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°/30 m. The RSS BHA completed the build section before being pulled and replaced with an LWD BHA.



HOLE SIZE	DEPTH IN / OUT	INC. IN / OUT	INTERVAL	AVG. DLS	AVG. ROP
6½ in	3,009 / 3,242 m	4.5° / 48.9°	233 m	5.9°/30 m	8 m/hr

