

VectorZIEL 600 RSS completes first successful run in a coal seam application in Australia



LOCATION	APPLICATION
Bowen Basin, Queensland, Australia	Coal seam gas, horizontal

TECHNOLOGY

The VectorZIEL™ rotary steerable system (RSS) features near-bit inclination, azimuth and gamma ray within 5 ft (1.26 m) of the bit along with an integrated pulser.

CHALLENGE

The VectorZIEL RSS was used to drill the 8½-in horizontal section of a coal seam gas well in the Bowen Basin, northern Queensland. The challenge was to drill and geosteer within a heavily faulted coal seam while minimizing the number of sidetracks (branch cuts).

RESULTS

The VectorZIEL 600 RSS stayed within the coal seam for the entire 1,739-m interval, intercepted the vertical production well on the first attempt and achieved doglegs of up to 9°/30 m. It was the first standalone RSS run in a coal seam to perform open-hole sidetracks. Using its near-bit measurements, it needed 4 sidetracks, compared with an average of 18 in offset wells drilled conventionally.



HOLE SIZE	INTERVAL IN SEAM	MAX. DLS	SIDETRACKS	INTERCEPT
8½ in	1,739 m	9°/30 m	4 (offset avg. 18)	First attempt

