

VectorZIEL replaces motor BHA and delivers the well plan at 100% higher ROP



LOCATION	OPERATOR
Mexico, onshore	E&P operator
MUD	
OBM, 1.3 g/cm ³	

TECHNOLOGY

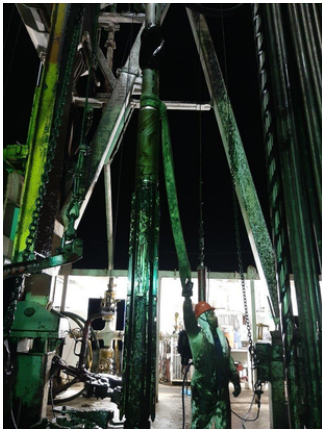
The VectorZIEL™ automated rotary steerable system (RSS) provides precise trajectory control using near-bit measurements combined with a unique steering control system. With an integrated pulser, VectorZIEL provides near-bit MWD surveys together with continuous directional and azimuthal gamma ray measurements.

CHALLENGE

After successfully deploying the VectorZIEL 800 RSS on an earlier well in the project, an E&P operator in Mexico decided to re-deploy it on another rig to replace a motor BHA that was delivering a slower-than-expected ROP of less than 20 m/hr.

RESULTS

The VectorZIEL 800 RSS drilled the remainder of the drop and vertical section to TD, delivering the well plan at the desired drop rate of 1.5–2.5°/30 m while enabling ROP above 40 m/hr, double the previous motor BHA ROP.



ROP above 40 m/hr, double the motor BHA

DEPTH IN / OUT	INC. IN / OUT	DRILLING HRS	ROP	FLOW RATE
1,517 / 1,885 m	10.1° / 0.0°	20.4	30–50 m/hr	520 gpm