Vertical Scout Performance

Sidetrack off Cement Plug

Location: USA – Lea County, NM
Hole Size: 12 1/4”
Bit: 6 Blade 16mm PDC
Mud Motor: 7:8 Lobe 4.0 Stage
Survey Tool: MWD Inclination/Azimuth

Background:
In the 12 ¼” hole section the directional drillers had poor vertical control with excessive slide drilling. A bent mud motor was set at 1.83 degrees and slid 60% of the time to correct for deviation. The wellbore inclination started at 1.3 degrees and grew to 6 degrees using a bent mud motor. At that point it was decided to cement back and use a Vertical Scout to sidetrack and correct the deviation back to vertical.

Goals:
Sidetrack, drop inclination back to vertical and increase ROP to casing point.

Results:
The Vertical Scout vertical seeking rotary steerable was able to sidetrack off the cement plug on the low side of the hole, drop to vertical and increase the ROP without any operational problems.