

BHA Sag Management

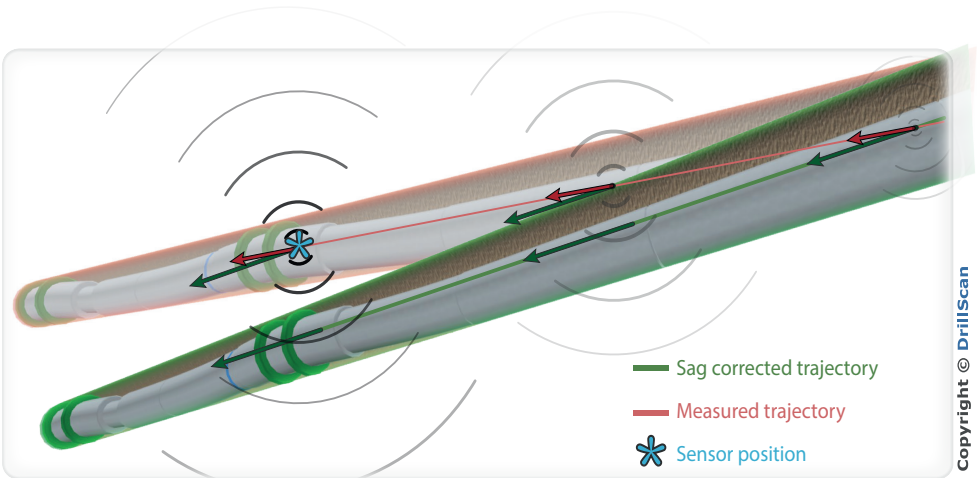
Ref: SM01

Objectives

- Comply with industry best practice in wellbore survey management
- Apply accurate BHA sag correction for each survey station as real-time support or post well analysis
- Improve wellbore placement accuracy with respect to collision avoidance and reservoir drainage
- Evaluate BHA proposal against BHA sag and optimise if applicable
- Correct the measured TVD throughout the trajectory and reduce TVD uncertainty

Benefits / Real Time Post-Well

- Enhance drilling operations safety by improving collision avoidance process
- Improve initial BPD and ultimate recovery by better TVD management in real-time or post-analysis
- Revisit mature field refining existing wellbore placement and identify new infill targets
- Reduce planned TVD uncertainty and make small reservoir targets economical
- Strengthen petrophysical data vs. TVD accuracy



Well trajectory positional error due to BHA sag

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Includes

- 3D BHA sag correction using unique BHA deflection model combined with ISCWSA error model framework
- Real-time BHA sag correction applied to actual wellbore surveys
- Real-time or post mortem survey legs concatenation to define a reference wellbore trajectory
- Applicable to any type of survey tool, drill string and BHA (Rotary, VGS, RSS, Motor, URWD)
- 3D BHA sag and co-sag calculations and residual wellbore position uncertainty (EOU)

Deliverables and Timing

- Earliest result delivery within 3 days after reception of full and usable set of data
- Delivery of final PowerPoint® or written report within 1 weeks, intermediate reports on demand
- Result support from our most experienced Drilling Champions, upon request
- Result presentation in client's office (optional)
- Real-time support available onsite or remotely (optional)