

On Site Drilling Data Analysis

Ref: SS03

Objectives

- Onsite assurance of well collision avoidance through process control and verification
- Combine Survey Management [SM] and bit-BHA Directional Management [DD] services in real time support
- Identify actual tortuosity and LDL as a basis for superior stiff-string T&D&B analysis
- Run real time T&D&B [SI01] and Hydraulics [DP03] and address issues at early development stages
- Analyse onsite Drilling Dynamics [SI02] by systematic BHA modelling identifying critical RPMs

Benefits / Real Time

- Reduce the risk of well collision (and its potential HSE consequences) resulting from gross errors
- Avoid critical RPM detrimental to sensitive BHA components without compromising ROP
- Detect early development of abnormal FF while drilling, take appropriate actions to avoid stuck pipe
- Address adverse downhole conditions ahead of casing, liner and completion strings RIH operations
- Manage well construction progress curve as planned and meet optimisation targets



Drilling data analysis on-site

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Includes

- Industry ISCWSA best practices & standards in wellbore positioning accuracy and collision avoidance
- Advanced 3D BHA directional model using unique Rock, Bit and BHA coupling interactions.
- Borehole tortuosity using survey reconstruction based on BHA sliding/steering sheet data
- Stiff-string T&D&B model with unique contact point management and side force and stress calculation
- FF analysis, identifying friction due to tortuosity (additional contacts) and hole cleaning issues

Deliverables and Timing

- Onsite result delivery in near real time and upon access to rig site full and usable set of data
- Delivery of final PowerPoint® or written report within 2 weeks of end of job, intermediate reports on demand
- Including: capture of lessons learned and recommendations for next wells
- Result support from our most experienced Drilling Champions, upon request
- Optional: Presentation in client's office, real-time support onsite or remotely