

Drilling Dysfunction Diagnosis

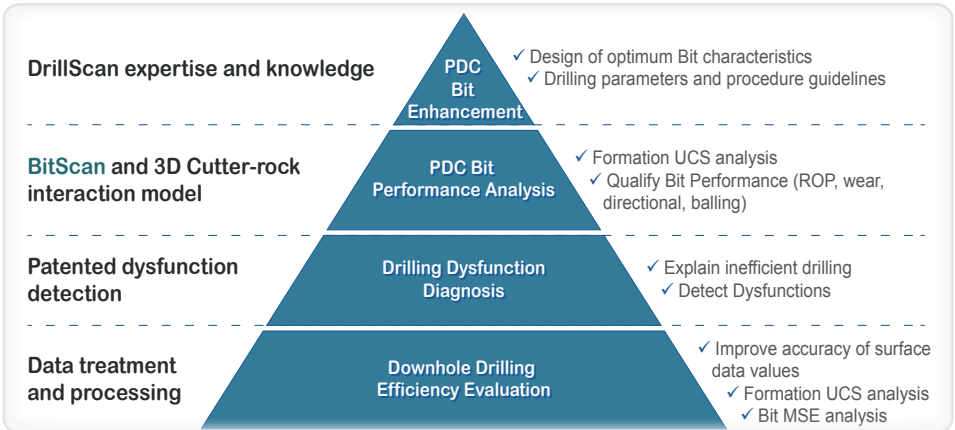
Ref: DP02

Objectives

- Estimate MSE and downhole parameters from surface data using proprietary approach [DP01]
- Estimate bit wear
- Detect vibrations and bit balling
- Detect lithology changes
- Estimate and explain drilling inefficiencies

Benefits / Real Time Post-Well

- Reduce NPT by early Drilling Dysfunction Diagnostic
- Determine when to pull out the bit
- Maximise bit drilling performance by identifying the sweet spot for drilling parameters
- Accelerate the learning curve



Drilling optimisation workflow

Includes

- Surface drilling data treatment using advanced stiff-string T&D modelling
- Proprietary Rock-PDC bit coupling modelling for bit performance evaluation
- Powerful post-analysis module with advanced data processing, analysis tools and graphical capabilities
- Patented Dysfunctions Detection process

Deliverables and Timing

- Earliest result delivery within agreed days after reception of full and usable set of data
- Delivery of final PowerPoint or written report within agreed 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)