əDrilling

ECD@Casing shoe: 1.267 SG

ECD@PWD: 1.264 SG

⚠ Poor hole cleaning, high cuttings concentration

Depth: 2008.66 m

Optimize performance, avoid hazards and downtime while drilling
wəllAhead™

Benefits of running software utilizing eDrilling's digital twin technologies (i.e. a digital representation of your actual well) is:

- Hazard prevention
- Avoidance of NPT
- Performance optimization

PROBLEMS ADDRESSED
- Stuck pipe
- Lost circulation
- Kick
- Hole cleaning
- Wellbore stability

MODULES
- Diagnostics
- Predictive Analytics
- Forecasting
- What-if
- Visualization
- Hydraulics
- Flow & Temperature
- Torque & Drag
- Operation detection
- Dynamic surge & swab

SUPPORTED OPERATIONS
- Drilling
- Tripping
- Stripping
- Well Control
- Cementing
- Liner running
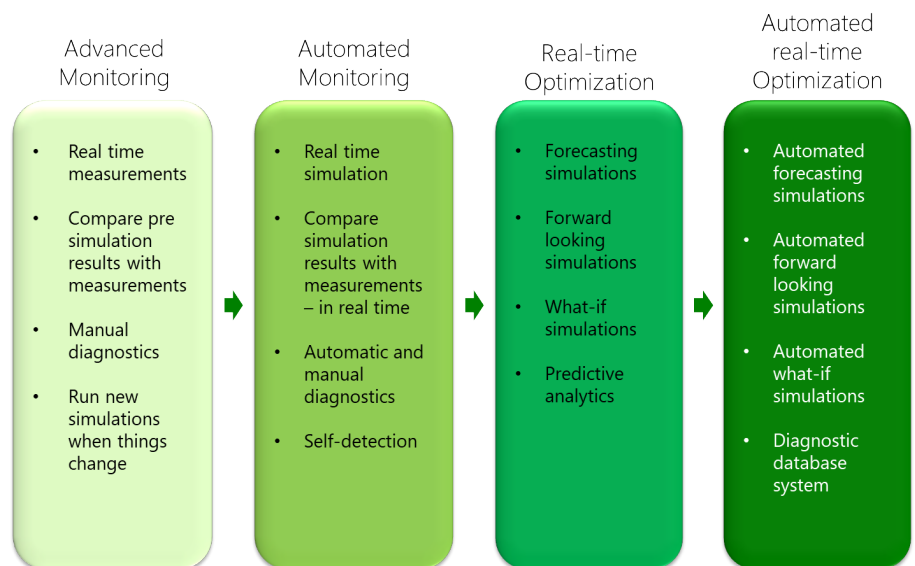- Screen running
- Milling

INCLUDING
- HPHT
- Extended Reach Drilling, ERD
- Managed Pressure Drilling, MPD
- Dual Gradient Drilling DGD
- Pressurized Mud Cap Drilling

wɘllAhead™ is eDrilling's software solution for automated monitoring, real-time optimization, and live well support. It is designed for use on rig, in Real Time Decision Support Centers, and for any other individual or teams supporting live drilling operations. It is also the foundation of any future rig-side automation.

As the software at a very early stage detects anomalies, crews are provided diagnostics and/or first action messages and notifications in good time to make the necessary adjustments.

Moreover, it enables you to do forward simulations and what-if simulations to detect mismatch and give input to change the drilling plan – to avoid problems, and change parameters for optimal drilling (drilling the perfect well).

TIME TO MOVE FROM LEGACY "ADVANCED" MONITORING SOLUTIONS

Advanced Monitoring	Automated Monitoring	Real-time Optimization	Automated real-time Optimization
• Real time measurements • Compare pre simulation results with measurements • Manual diagnostics • Run new simulations when things change	• Real time simulation • Compare simulation results with measurements – in real time • Automatic and manual diagnostics • Self-detection	• Forecasting simulations • Forward looking simulations • What-if simulations • Predictive analytics	• Automated forecasting simulations • Automated forward looking simulations • Automated what-if simulations • Diagnostic database system

An additional benefit of upgrading your legacy advanced monitioring software and/or service with eDrilling's digital twin technologies, is that you can use it throughout the well lifecycle.

WELL LIFECYCLE

PLAN	PREPARE	OPERATE	ANALYSE
Well planning & design	Trial-run of well, procedure/equipment testing, training	Real-time optimization, automated monitoring	Lessons learned/ competence transfer

eDrilling digital twin platform

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