

OptiWell

Well construction performance service

APPLICATIONS

- Offshore and onshore well construction
- Development and exploration

ADVANTAGES

- Multiwell performance KPI analysis and benchmarking
- NPT and ILT analysis for flat-time reduction and improved well performance
- Collaborative communication between wellsite and office
- Multisourced data integration through the Schlumberger software suite
- Data lifecycle management using RigHour* multiwell drilling operational efficiency analysis to maximize information understanding

FEATURES

- Web-based RigHour analysis access to KPI database
- Real-time KPI computation and visualization at rig site and office
- ROP predictor and optimizer with real-time bit wear estimator

The OptiWell* well construction performance service monitors and analyzes processes and downhole conditions in real time to facilitate improvement in the overall safety and efficiency of the well construction process. From 24/7 monitoring for downhole hazards to identifying inefficiencies, the OptiWell service mitigates HSE risks and both invisible lost time (ILT) and NPT.

Performance Management

The performance management component of the OptiWell service includes monitoring and analysis of the well construction processes to quickly pinpoint inefficiencies. From there, the operator can integrate a variety of monitoring and analysis services, such as the RigHour multiwell drilling operational efficiency analysis, to improve drilling efficiency and reduce ILT.

Set and track well operation KPIs versus KPOs

Schlumberger collaborates with the customer to target, define, and set key performance indicators (KPIs). While KPIs are monitored in real time and are compared to predefined KPOs, deviations can be detected and appropriate measures taken in a timely manner. Small incremental changes in operational practices can lead to significant time-saving benefits for customers.

Identify inefficiencies and areas of improvement

For an efficient well construction process, the OptiWell service analyzes and benchmarks all well construction operations including drilling, tripping, connections, casing and completion running, cementing, riser running and pulling, and BOP testing.

Using the web-based RigHour analysis, well operations analysts seamlessly integrate surface and downhole offset data and apply multiwell data analytics to examine the well construction cycle and highlight areas of improvement. The RigHour analysis data repository is updated after improvements are made, completing benchmark calibration and setting the KPI objectives for future wells.

From there, the operator can integrate a variety of services, such as the CLEAR* hole cleaning and wellbore risk reduction service, to greater improve drilling efficiency and reduce ILT without compromising hole cleaning.

Hazard Management

The OptiWell service monitors and analyzes the downhole environment to identify potential risks to drilling operations, such as severe mud gains or losses, stuck pipe events, or zones that may cause high vibration that will impact borehole and BHA integrity. Also reduces the likelihood and severity of risks, which pose a danger to personnel, rig operations, and equipment.

The operator can integrate a variety of services to greater reduce NPT and risk events. Using the Techlog* wellbore software platform, the OptiWell service integrates multidisciplinary data from multiple wells for in-depth analysis and real-time processing and visualization. The PRESSPRO RT* real-time downhole performance measurement software enables a more thorough analysis of downhole conditions, and the OptiDrill* real-time drilling intelligence service enables better monitoring of drillstring integrity and assessment of drilling efficiency.

	Performance Management			Hazard Management	
Level 1 Inform	Daily KPI reporting	24/7 Real-time remote monitoring		24/7 Real-time remote monitoring	
Level 2 Advise	12/7 Analysis and advice (in-house or remote)			12/7 Analysis and advice (in-house or remote)	
Additional services available	Bit wear and ROP predictor	Offset wells performance analysis	OptiDrill service real-time analysis	Post-well analysis	OptiDrill service post-run analysis
	CLEAR hole cleaning and wellbore risk reduction service analysis	DrillMAP drilling engineering and operations plan analysis	RigHour multiwell drilling operational efficiency analysis web access	PRESSPRO RT real-time downhole performance measurement software analysis	

Various services are offered with the performance management and hazard management components of the OptiWell service.