



DRILLING PERFORMANCE ANALYSIS AND OPTIMIZATION

Aligned to every operator's objectives for drilling the most fit for purpose well in the safest manner and at the lowest cost per foot

Drilling Performance Analysis and Optimization

Our Drilling Performance and Measurement Services (DPAMS) model is geared towards unlocking hidden value within the client's drilling teams. This is achieved via the strategic integration of technology, robust processes and engaged personnel in a coordinated, sustainable program.

Through the application and adaptation of advanced real-time operations systems, methods, techniques, and tools, Ofserv partners with customers to engineer, analyze and optimize drilling operations thus unlocking value through improved operational performance, safety, efficiency, and other key metrics.

In today's environment of depressed oil prices, increased well complexity and higher drilling costs, a key part of drilling is managing risks in ways that make it possible to consistently reduce variation and achieve high performance in well delivery.

Our Real-time monitoring combined with Drilling Performance Improvement services offer clients a unique capacity to improve their drilling operational performance while showing tangible, measurable results. We partner with clients to introduce and implement Drilling Performance Consulting activities within their operations which encompasses business process improvement; such as internal and external benchmarking studies, performance optimization, crew engagement & coaching, failure/trouble analysis, Lessons Learned Management etc. We help operators drive improvement in drilling performance through the reduction of non-productive time (NPT) and associated trouble cost, minimization of invisible lost time (ILT) and flat time optimization.

LOCAL CASE: Foremost Nigerian Independent E & P Company

WELL DELIVERY PERFORMANCE CONSULTING TO SUPPORT MULTI-RIG DRILLING OPERATIONS ON AN ONSHORE FIELD IN NIGERIA

Situation

Against the backdrop of falling Oil prices, the client wanted to streamline their operations aggressively while simultaneously ramping up their multi-rig operations (From 2 to 7 rigs) to boost daily production. This warranted them looking for solutions and ideas that will lower their cost per foot for achieving objectives of the planned drilling campaign. The goal was to achieve minimum 15% cost reduction from their existing well delivery spend.

Solution

As a first step, Ofserv and the client's personnel convened a challenge session where we brainstormed creative options available to achieve the aggressive cost reduction target while balancing stakeholder incentive. After the workshop, we agreed to approach cost take out on three distinctly disparate tracks as follows:

- (i) Technical (Spec simplification, Standardization, Optimized FE, Rig Sizing, etc)
- (ii) Performance based contractual models / Incentives
- (iii) Aggressive re-thinking of operational philosophy & practices

Identifying and fleshing out cost saving opportunities across the three tracks allowed Ofserv and the client to arrive at clear paths to achieve stated cost reduction target without compromising safety and quality, while maintaining contractor morale.

Results

Benefits realized on the first four wells by the client include the following:

MWD Cost reduction; **46%**

Rig Spread Cost reduction; **20%** (\$100k to \$80K)

Well delivery AFE reduction; **20%** (\$3MM to \$2.4MM)

Majority of the savings realized were from track (ii) i.e. contractual model innovation as well as track (iii) optimizing and challenging operational paradigm

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