SmartDRILL process automation reduces connection times by more than 20% in Saudi Arabia
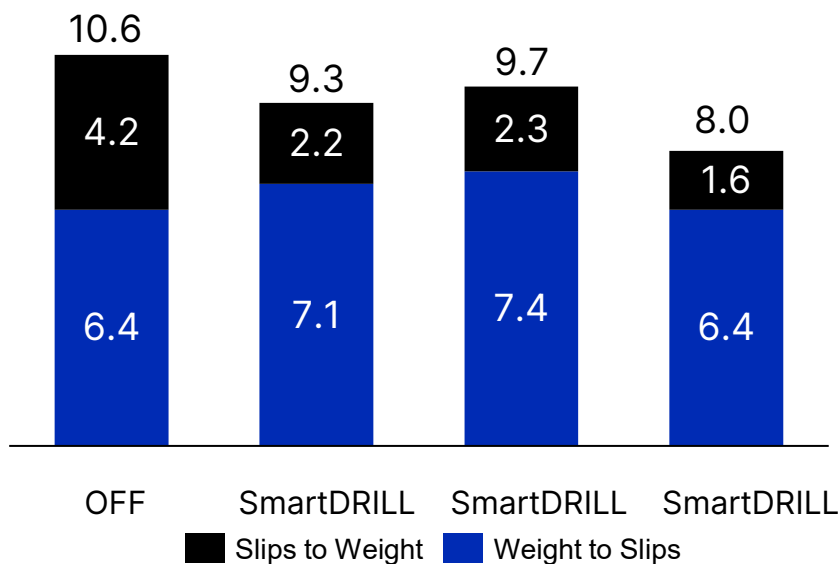
Challenge

Operator sought to deploy process automation to improve connection times, connection consistency and reduce days on well.

Solution

Install Nabors' rig operating system, SmartROS™, to enable SmartDRILL process automation. Configure the automation sequences to reflect best-in-basin and operator best practices, beginning with a single rig. Long-term objective of the operator is to scale lessons learned and best practices across their fleet.

Results

Improvement in automation aggregate* (mins.)

OFF	SmartDRILL	SmartDRILL	SmartDRILL
10.6	9.3	9.7	8.0
4.2	2.2	2.3	1.6
6.4	7.1	7.4	6.4

■ Slips to Weight   ■ Weight to Slips

Case Study Facts

LOCATION: Saudi Arabia

TIMEFRAME: April-August 2022

Results cont.

The successful use of SmartDRILL process automation has saved 9.5 hours per well on average. Savings continue to increase as the automation continually adjusts to reflect best practices.

FOOTNOTES:

*Automation Aggregate is defined as Slips to Weight and Weight to Slips times. This is measured to monitor the performance of the automated segments of the connection.

NABORS