

DrillFact® Connection Time Monitoring Service

ENABLES EFFICIENT DRILLING TO REDUCE WELL TIME

OVERVIEW

Pipe connections account for a significant amount of well time, especially on deep wells, and, without the proper monitoring, the time spent can develop into invisible lost time (ILT). The Connection Time Monitoring service from Halliburton Sperry Drilling automatically measures and records the time taken for every step in a connection and the total connection time. By viewing and comparing the data, operators can enhance drilling performance and efficiency to reduce well time.

The Connection Time Monitoring service tracks the time to go from on bottom to the slips, the time spent in the slips, and the time to return from the slips back to bottom. Each of these steps are then added together to provide a total connection time for each event. The data is organized in a stacked bar chart for quick and effective visual review and in a spreadsheet for further analysis.

Using the service, our team can easily compare data by hour, crew assignment, run, hole size, and well, and also compare the current well to historical wells. Depth ranges can be defined to identify any anomalies or trends. The service enables monitoring of crew and equipment efficiency and for comparing multiple rigs. The information generated from the service can also be used with gas analysis to show how the connection times affect the volume of gas generated.

As part of the InSite® suite of software, the Connection Time Monitoring service can be run at the well site, in a client office, or in a Halliburton Real Time Center™ (RTC). The easy to use tracking system provides the data to our clients as an integral part of our data base.

The Connection Time Monitoring service provides the information to take control of time spent on connections so operators can reduce well time and maximize asset value.

Drill Connect Time & Date	Drill Connect Depth(ft)	Btm To InSlips(min : sec)	In Slips Time(min : sec)	Slips To Btm(min : sec)	Connection Time(min : sec)
04-Mar-20 15:48:43	2008	04:0	03:24	01:0	08:24
04-Mar-20 16:04:49	2107	00:55	05:0	00:33	06:29
04-Mar-20 16:20:56	2206	01:16	05:0	00:27	06:43
04-Mar-20 16:37:09	2306	01:23	05:0	00:27	06:50
04-Mar-20 16:53:24	2406	00:59	05:0	00:22	06:22
04-Mar-20 17:09:37	2507	01:11	05:0	00:16	06:28
04-Mar-20 17:25:52	2607	01:15	05:0	00:37	06:53
04-Mar-20 17:42:09	2709	01:3	05:0	00:26	06:30
04-Mar-20 17:58:18	2809	00:43	03:13	00:29	04:27
04-Mar-20 18:14:33	2910	00:24	05:0	00:48	06:12

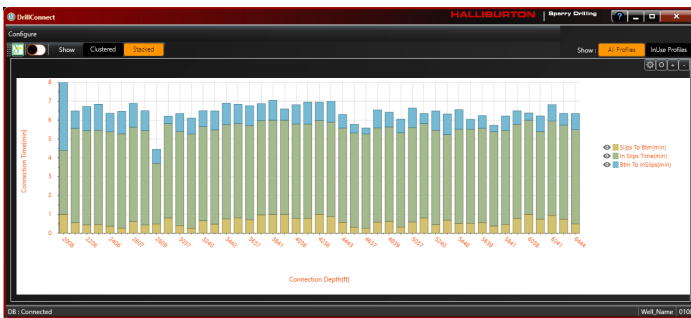
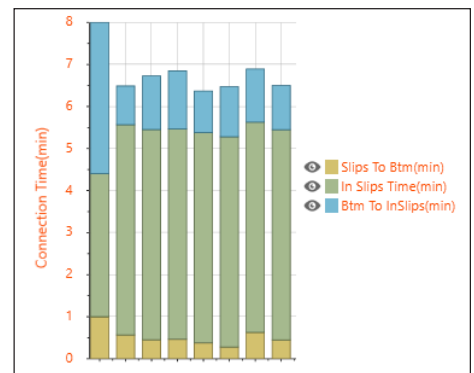
FEATURES

- » View connection times for the three key connection steps
- » Compare data by hour, crew assignment, run, hole size, well, and historical vs. current well
- » Analyze the development of connection gases

BENEFITS

Reduce Well Time

- » Identify and quantify ILT
- » Improve efficiency by knowing the time spent on connections
- » Reduce non-productive time by identifying unusual connection times



For more information, contact us at sperry@halliburton.com or visit us on the web at www.halliburton.com

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