InSite® Rig Information System Helps Improve Decision-Making, Reduce Non-Productive Time and Deliver Better Wells
Location: Abu Dhabi, United Arab Emirates

**OPERATOR’S CHALLENGE** – Using existing infrastructure, an operator sought to improve real-time logging data transmission and monitoring to enhance decision-making, reduce non-productive time and deliver safe and successful wells.

**HALLIBURTON’S SOLUTION** – Sperry Drilling services collaborated with the operator to optimize the InSite® system used for real-time logging data transfer from the rig to their office. The InSite system configuration used by this operator included InSite® Data Management service as the data aggregation and data management application plus the InSite Anywhere® web service as the data viewing application.

**ECONOMIC VALUE CREATED** – With the use of the InSite system, the automation of transferring real-time data from multiple data providers into a single source freed the operator’s geoscientists and drilling engineers from a burdensome manual importing of data into their viewing applications. This resulted in quicker and improved decision making, non-productive time reduction and, thus, delivery of better wells.

**UNDERUTILIZED SYSTEM** – Beginning in late 2007, the operator did a study that revealed that the users were not maximizing the use of the InSite system for real-time log data transmission from the rig to the office. The InSite data management service is a key enabler of real-time operations, as it allows rigsite data to be collected, transmitted, replicated and managed in real time. Without fully utilizing the InSite data management system, the operator was experiencing noisy data (spikes), missing data, inaccurate true vertical depth (TVD) data and insufficient support. The operator’s management requested their IT and engineering departments, in collaboration with Halliburton, investigate and address these deficiencies to enable more effective use of the system.
IN INITIATIVES AND IMPROVEMENTS – Firstly, the operator replaced the problematic cable network with a wireless network, which improved data transmission speed and quality. Sperry introduced 24x7 support mechanisms to provide stable and continuous service availability to the end users.

Real-time well monitoring was always a dream of operational geologists, but was not possible in the past due to the incompatibility of Halliburton’s data transmission system and widely used third-party earth modeling software. The capabilities of the InSite system were expanded to allow publishing real-time data in WITSML (Wellsite Information Transfer Standard Markup Language) format. The operator tested this solution and proved that data can be directly transferred from rigs to any earth modeling software in real time via the InSite system. Users are no longer required to follow the burdensome manual procedure that leads to mistakes and compromises data quality.

SPERRY DATA TRANSFER FROM THIRD-PARTY APPLICATIONS – The InSite system is now an efficient and reliable solution for real-time log data transmission for this operator. The system has been established as a robust and dependable platform, meeting the requirements of geoscientists and drilling engineers. This led to a giant improvement in data quality and considerable time reduction for the decision-making.

What is the best way to prove the worth of any system? It is to cite the cost savings. The InSite system recently rendered significant cost savings, when mud logging data from an exploration well was delivered by Sperry to the operator’s personnel for close monitoring and follow-up. The Sperry team and IT security team accomplished this mission with deployment of a robust solution utilizing the InSite system setup and the operator’s existing network infrastructure at no extra cost.

THE RIGHT INFORMATION, WHERE YOU NEED IT, WHEN YOU NEED IT – InSite Data Management Service – The InSite service is a common platform for replicating wellsite data acquired by Sperry and/or third-party data providers. The wellsite instance of the InSite service communicates with a remote server, creating a duplicate database which can be used for offsite analysis without interrupting rig operations, transfer of data to third-party modeling software, as well as hosting real-time data via InSite Anywhere web service.

InSite Anywhere Service allows access to your well logging data from anywhere in the world. Using the InSite Anywhere service, your data moves from the rigsite sensors and logging tools through a secure web site operated by Halliburton directly to your asset team’s decision makers for evaluation. This enables real-time collaborative decision-making process much easier and faster.

Halliburton was the first service company to provide quick, easy and secure access to real-time well information via a web browser. You obtain easier access, simpler operation with more capabilities, ability to share information with every member of your team in real time and to integrate all of Halliburton’s solutions throughout the life of your well.