IntelliScan™ Equipment Monitoring System

ADVANCED, INTELLIGENT PUMP MAINTENANCE

OVERVIEW
As part of the continued efforts to move from a reactive-preventative maintenance model to a predictive model, the Halliburton IntelliScan™ equipment monitoring system enables early-time detection for maintenance needed of high-pressure pumping equipment. Current pumping equipment maintenance is typically performed based on a pre-determined number of hours of operation or stage count. The IntelliScan equipment monitoring system enables real-time monitoring of pumping equipment during the treatment. Electronic monitoring and tracking of pump performance enables for a technological, data-driven approach to pump maintenance, minimizing unnecessary repairs while optimizing performance and reducing overall maintenance cost.

MORE EFFICIENT, MORE RELIABLE
With the increase in service intensity from multi-stage fracturing operations, there has been an increase in the time allotted for scheduled pump maintenance. By optimizing maintenance intervals, non-pumping time on location is reduced. IntelliScan technology provides early detection of potential failures and selectively identifies only those pumps necessary for maintenance. This can eliminate hours of labor on location from unnecessary maintenance resulting in drastic improvements in cycle time. In addition, IntelliScan technology enables remote, real-time monitoring of pumping equipment, enabling the operator to make adjustments according to pump performance. Combined these benefits can allow for an optimized and more reliable fleet of pumping equipment.

Increased reliability enables the reduction of the pumping equipment footprint, thus contributing a reduction in capital requirement. Further, improved efficiencies and less maintenance on location enables a reduction in labor. This reduction equates to a leaner, more proficient fracturing operation.

A SAFER WELLSITE
Service intensity has increased pump maintenance and the exposure to HSE hazards and risks. Pump maintenance performed on location also increases the exposure to trapped pressure and the potential of environmental incidents. Remote monitoring of the pumps eliminates the need for employees to enter the Red Zone™ area (the high-pressure work area) to investigate potential pump issues. This reduction in exposure reduces safety hazards. The IntelliScan Equipment Monitoring System facilitates reduced HSE exposure and has reduced the safety risk exposure by over 50%.

For more information, contact your local Halliburton representative or visit us on the web at www.halliburton.com

FEATURES
- Early-time detection for maintenance of high-pressure pumping equipment
- Autonomous pump health monitoring system
- Real-time, remote monitoring of pump performance
- Pump diagnostics

BENEFITS
- Can improve pump reliability
- Can improve operational efficiency
- Can reduce HSE exposure