



## Halliburton Rolls Out Stimulation Solutions for Unconventional Gas Reservoirs

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HOUSTON--(BUSINESS WIRE)--Oct. 5, 2009-- Today, at the Society of Petroleum Engineers' Annual Technical Convention and Exhibition in New Orleans, Halliburton (NYSE:HAL) introduced new solutions designed to help operators address the challenges they face with unconventional gas reservoirs due to significant variances across plays, increasing reservoir complexity and rapid production decline.

"Halliburton understands and is responding to these challenges," said David King, president, Completion and Production Division, Halliburton. "Experience shows that improving overall reservoir understanding, along with offering customized solutions, can help operators develop assets that could not be technically or economically produced before."

For example, Halliburton's Stimulation for the Digital Asset™ workflow now provides the capability to view real-time stimulation data in engineering, geological and geophysical interpretation environments. This enables operators to use all the information they have not only to monitor and adjust treatments on the fly, but also to design better stimulation treatments, improve perforation strategies, and improve field development plans. This workflow brings together leading solutions from Halliburton's fracturing, microseismic mapping, and software products and services.

The company's Cobra Frac® H coiled-tubing-based fracturing service helps operators achieve increased fracture intensity by enabling the placement of virtually an unlimited number of fractures in the horizontal section of a well. This solution, based on Halliburton's unique treatment process coupled with a new bottomhole assembly using advanced elastomer technology, has already provided significantly improved production from more than 30 horizontal wellbores in Canada's Spearfish tight-sand formation. The Cobra Frac H service utilizes a bottomhole assembly which enables post-frac analysis to determine treatment effectiveness and it can also be used to efficiently refracture existing wellbores.

Halliburton also has a new extreme-temperature synthetic fracturing fluid comprising the first system that performs confidently at temperatures above 450°F while providing the proppant transport capabilities critical for the successful fracturing of deeper, hotter formations. In addition, this fluid system does not require a formation cool-down process, as did previous systems, which often contributes to poor initial well performance. This new fluid system is helping operators turn high-temperature discovered resources into producing assets.

Halliburton also helps operators manage the health, safety and environmental aspects of chemistry used in stimulation treatments with the Chemistry Scoring Index, which assigns a numeric score to each chemical used in the stimulation treatment. This solution can provide a solid basis for choosing more environmentally focused chemistry while reconciling it with overall well-completion costs.

### ABOUT HALLIBURTON

Founded in 1919, Halliburton is one of the world's largest providers of products and services to the energy industry. With more than 50,000 employees in approximately 70 countries, the company serves the upstream oil and gas industry throughout the life cycle of the reservoir – from locating hydrocarbons and managing geological data, to drilling and formation evaluation, well construction and completion, and optimizing production through the life of the field. Visit the company's Web site at [www.halliburton.com](http://www.halliburton.com).

Source: Halliburton

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