



## Baker Hughes Introduces High-Performance Wellbore Cleaning System

### The X-Treme Clean XP system reduces operational risks in high-cost environments

HOUSTON, TX - June 29, 2011 - Baker Hughes (NYSE: BHI) has introduced a wellbore clean-up and displacement system designed to improve efficiency and reduce operational risks in high-cost environments such as deepwater applications; horizontal, extended-reach, and deviated wells; deep wells; and wells with high dogleg severity. The [X-Treme Clean™ XP system](#) is the latest generation cyclone-based system, which removes debris more efficiently as a result of the industry's highest allowable mandrel rotation speed, a non-rotating tool string, a large circulation area, advanced debris carrying capabilities, and higher-than-drillpipe tensile and torque ratings.

The X-Treme Clean XP system mandrel has an allowable rotation speed rated to 150 rpm versus 60-100 rpm for typical cleaning systems, and is designed to achieve the highest cleaning efficiency for every application. Studies indicate that cleaning efficiency increases significantly at 90-120 rpm. Only the mandrel rotates; other system components such as scraper blades, the brush, and stabilizers do not rotate, which is critical to minimizing damage to the casing, liner, or riser.

Additional features of the X-Treme Clean XP system include:

- The helical-shaped scraper and brush tools double the cleaning area and increase the annular circulation area, allowing fluid to circulate at high rates to reduce circulation and displacement time
- The downhole magnet strength surpasses the industry's standard metal debris collecting capabilities
- The one-piece mandrel design allows higher-than-drillpipe tensile and torque rating, which dramatically mitigates operational risks

"The X-Treme Clean XP system offers a higher level of performance for the challenges our customers face in the most demanding applications," says Neil Harrop, president, Completions and Production, Baker Hughes. "The system is designed to mitigate the risks inherent to these costly environments."

Baker Hughes provides reservoir consulting, drilling, formation evaluation, completion, pressure pumping, and production products and services to the worldwide oil and gas industry.

Please visit our [image gallery](#) for illustrations of the X-Treme Clean XP system.

#### CONTACTS:

Media Relations: Kathy Shirley, +1.713.439.8135, [kathy.shirley@bakerhughes.com](mailto:kathy.shirley@bakerhughes.com)

Investor Relations: Gary R. Flaharty, +1.713.439.8039, [gflaharty@bakerhughes.com](mailto:gflaharty@bakerhughes.com)