

The Leading Automated Pressure Drilling Company

AT BALANCE AT A GLANCE

At Balance™ automated pressure control technology, like all useful drilling technologies, is a practical solution to real world problems.

Narrow pressure margins and depletion can impose physical limits on conventional drilling and reservoir production that range from simply insurmountable to potentially damaging. At Balance's patented drilling system empowers drilling personnel not only to break through the constraints imposed on them by conventional pressure limits but achieve new levels of drilling performance in the process.

In 2003 At Balance commercially introduced the Dynamic Annular Pressure Control™ (DAPC™) system as a solution for sticky drilling problems requiring safety critical pressure stability and control. Since its introduction the system has revitalized operators' ability to achieve well construction savings and extend the life of mature and depleted fields.

The DAPC system's unrivaled levels of speed and accuracy have empowered operators to reduce mud weights to static levels not achievable with other systems and cost effectively reach mature reservoirs previously too expensive and some impossible to drill. In pre-drill, deepwater trials the system proved its ability to simultaneously control simulated nitrogen gas kicks and hold the BHP safely within the specified narrow limits

At Balance automated pressure control is a proven way to boost drillability.

A Record of Firsts in Well Construction & Field Life Extension

- 2003 Field trial of the first automated bottomhole pressure (BHP) control system
- 2004 First use of automated BHP control system in The Netherlands to drill a fractured chalk oil reservoir - eliminated lost circulation and fracture damage
First use of automated BHP control system to drill geothermal well in fractured granite reservoir, in Australia - minimized fracture damage, allowed operator to prove commercial value of new energy resource
- 2005 First government approved use of automated BHP control system in deepwater Gulf of Mexico to drill depleted oil field - eliminated lost circulation, reduced cost, TD'd well in previously unattainable producing target, extended life of mature field
First use of automated BHP control system to drill horizontal reentry well in UK North Sea with slim coiled tubing from production platform - eliminated differential sticking, enabled operator to use CTD, reduced drilling cost, TD'd in stranded oil reserves
First commercial use of automated BHP control system with multiphase hydraulic model and flow meter to drill underbalanced, tight gas well on US land - eliminated lost circulation and reservoir damage
Received first Offshore Energy Achievement Award for Emerging Innovation/Technology
- 2006 First remote operation of automated BHP control system on UK North Sea platform to drill horizontal reentry well in mature oil field - reduced personnel on board, reduced drilling cost
First application of automated BHP control, kick detection, real-time PWD data, and wired drill pipe in deepwater Myanmar to drill hazardous shallow gas target - maintained BHP in narrow margin, prevented lost circulation, proved system's capability to simultaneously control the well and BHP in simulated nitrogen kicks on rig, TD'd well at planned depth
Received second Offshore Energy Achievement Award for Field Life Extension
- 2007 First use of automated BHP control and kick detection system to drill wildcat gas well in south Texas - eliminated lost circulation, TD'd well at planned depth in difficult-to-drill gas field
First government approved use of automated BHP control and kick detection system to drill depleted field with statically underbalanced drilling fluid in deepwater Gulf of Mexico - eliminated lost circulation in narrow margin, reduced cost, TD'd producing well in previously unattainable target, extended life of mature field
First use of automated BHP control and kick detection system in Louisiana state waters to drill depleted gas field - eliminated lost circulation and stuck pipe in narrow margin, TD'd producing well in planned target

AUTOMATED BOTTOMHOLE PRESSURE CONTROL

Automated Pressure Drilling™ Services

At Balance offers a better way to boost 'drillability' by instantly responding to changing pressure conditions and taking rapid, accurate corrective actions before potentially critical well control events develop.

Automated Pressure Drilling™ Services actively reduce risk, costs, and improve safety through:

- Control.** Safety critical, continuous pressure control actively reduces drilling risk and cost while confidently increasing safety.
- Stability.** New levels of pressure stability and control enable new levels of drilling performance in hostile environments.
- Speed.** Measure, manage and control BHP at a speed manual and semi-automated methods can not achieve.
- Accuracy.** Accurate real-time hydraulic modeling of and system response to fluctuations maintains BHP safely within the narrowest of margins.

Differentiation

Safety critical pressure control

Safety is of paramount importance in pressure drilling control which is why At Balance designed the DAPC system around safety critical, process control technology. It measures and controls pressure at an unrivaled level of reliability, speed, and accuracy.

Patented, active backpressure system

At Balance's patented drilling system includes a dedicated triplex pump and an Integrated Pressure Manager to actively stabilize backpressure when rig supplied mud circulation is insufficient. It maintains BHP control at a level passive systems can not achieve.

Remote operation

The DAPC system is the only system with field proven remote operations capability that gives operators a cost effective way to manage personnel on board.

Closed-Loop Kick / Pressure Control

In an industry first the DAPC system proved in deepwater field trials its ability to control BHP by using, high speed, real-time PWD data transmitted to the surface via wired pipe.

At Balance Guiding Principles

We seek to improve the drilling process with safety critical pressure control technology, high standards for operational expertise, and reliable pressure drilling service delivery to reduce well construction costs, extend the life of mature fields, and raise the level of drilling safety.

We strive for service excellence, to learn from our experience and improve performance by:

- Promoting open, collaborative work relationships between employees and customers
- Conducting ourselves and our business ethically and accepting accountability for our actions and words
- Communicating clearly and listening to ideas that help us and our customers perform better
- Working as a team, giving credit where credit is due, trusting other's ability and integrity, and treating others fairly
- Being open, honest, and at all times respectful of each other, our customers, our competitors, and the communities in which we work

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At Balance

A better way to drill



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