



Baker Oil Tools Installs World's First Remotely Controlled All-Electronic, Multizone Intelligent Well System for Petrobras

HOUSTON, Texas — September 7, 2001 — [Baker Oil Tools](#) has successfully installed the world's first all-electronic, multizone Intelligent Well System for Brazilian operator Petrobras. The [InCharge system](#) was deployed in an onshore well in preparation for a subsequent subsea installation, and is remotely monitored through a satellite link from Petrobras' operational base in the city of Natal, 200 miles from the well site.

[Intelligent Well Systems](#) are designed to optimize flow from critical wells without shutting in production or performing costly well intervention procedures. The InCharge system is ultimately intended for Campos Basin deepwater installations.

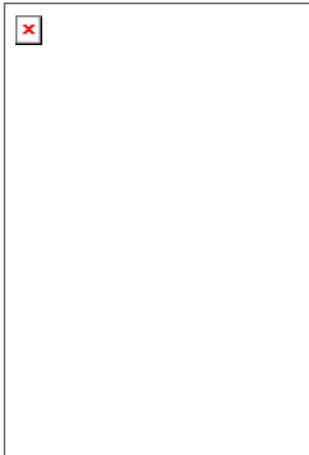
"The InCharge system will enable operators to achieve downhole monitoring and control while relying on proven completion designs and techniques," explained Ed Howell, President of Baker Oil Tools.

The InCharge system monitors pressure, temperature and flow conditions at the sandface in real time. This capability enables centrally located oil company staff to selectively control individual zonal flow rates, thereby continuously optimizing production operations in response to changing downhole conditions.



One aspect of the InCharge system that is particularly valuable to subsea operators is that a single control line penetrates packers and wellhead. From this control line, the operator can monitor and control up to 12 zones in a single well and up to 12 wells from a single surface control system.

The InCharge system incorporates the world's first electrical downhole wet disconnect anchor system. The system eases maintenance and repair in the upper portion of the completion string through an electric umbilical to the surface that can be repeatedly disconnected and re-connected.



Baker Oil Tools is a world leader in total completion, workover, and fishing solutions that help exploration and production companies optimize their hydrocarbon recovery investment. Baker Oil Tools solutions are based on advanced downhole and surface technology, practically applied, to help operators produce at the highest levels and the lowest cost throughout the life of the reservoir.

Baker Hughes is a leading supplier of reservoir-centered products, services, and systems to the worldwide oil and gas industry.