

AutoTrak eXact Pro high-performance rotary steerable system with LWD

Reduce directional drilling costs
and geosteer with certainty to
maximize production

The **AutoTrak™ eXact Pro high-performance rotary steerable system (RSS) with logging while drilling (LWD)** delivers smooth, precise, and fast drilling in your high-build rate directional drilling applications while gathering critical LWD data. Efficiently drilling a smooth wellbore and precisely placing it in the most productive zone helps to keep your costs down. The AutoTrak eXact Pro RSS is fully compatible with the Baker Hughes suite of advanced LWD services. This enables you to obtain accurate and comprehensive formation evaluation and reservoir data to geosteer wells to target, maximize production, and minimize the risk and cost of development.

The AutoTrak eXact Pro RSS incorporates an advanced wellpath trajectory control system as the next step in rotary closed-loop drilling automation. The wellpath trajectory control system combines azimuthal hold, inclination hold, multi-chip module (MCM) electronics, and firmware to automatically correct the wellbore trajectory for any formation trends. The automated system will reduce wellbore tortuosity along with a corresponding reduction in torque and drag to drill better curve sections and longer and

faster lateral sections. It also reduces the number of downlinks, resulting in more on-bottom time and increased overall rate of penetration (ROP).

Precise reservoir navigation and well placement are key to maximize reservoir contact. The AutoTrak eXact Pro RSS provides near-bit directional measurements to enable a quick response time, minimizing the need for high doglegs to navigate back to the planned wellpath or sweet spot in the reservoir. The optional ZoneTrak G near-bit gamma service with sixteen sector azimuthal gamma-ray imaging offers prompt formation identification and reservoir navigation or geostopping capability.

The AutoTrak eXact Pro RSS utilizes continuous proportional steering to deliver superior directional control and a quality wellbore. The system uses three precision-controlled pads that maintain a continuous proportional steering vector to drill a smooth, in-gauge hole. Azimuth and inclination are checked every millisecond and steer forces are automatically adjusted second-by-second for precise control, even at very high penetration rates. Steering control is not affected by drilling dynamics as the independent

Applications

- Simple or complex 3D wellbore profiles
- Higher temperature wells up to 330°F (165°C)
- Extended-reach wells
- Geosteering with advanced LWD services
- Onshore, shelf, or deepwater

Features and benefits

- Wellpath trajectory control system to reduce well tortuosity and provide precise well placement
- Near-bit directional measurements for precise reservoir navigation and well placement
- MCM electronics increase ruggedness and temperature resistance for increased reliability
- The 4¾-in. tool has WOB capability up to 35,000 lb (15 875 kg) to significantly increase ROP
- High-resolution vibration and stick slip (VSS) measurements to mitigate vibration and maximize ROP and run length
- Continuous proportional steering delivers superior hole quality, longer laterals, and faster ROP
- Compatible with Baker Hughes suite of advanced LWD services for real-time formation evaluation and advanced reservoir navigation

ribs are powered by internal hydraulic power on the decoupled slow rotating sleeve. As a result, the precision-controlled pads operate independently of bit pressure, flow rates, and drilling fluid properties—allowing you to optimize your bit and hydraulics program to formation challenges and drilling performance.

Continuous proportional steering, combined with the wellpath trajectory control system, provides enormous versatility and reliability in all formation types—from soft to hard—allowing you to do a precise kickoff from vertical and drill the vertical, curve, and lateral in a single run.

The AutoTrak eXact Pro RSS is also fully enabled for Baker Hughes **Remote Operations Services**. With experience from thousands of wells, our drilling and evaluation experts use proprietary systems and advanced technology to execute remote operations and deliver high-quality performance, superior efficiency, and consistent results everywhere.

Contact your Baker Hughes representative to learn more about how the AutoTrak eXact Pro RSS can deliver superior drilling performance and real-time formation evaluation for your well.



Baker Hughes 