Improve operational efficiency

- Reduces days on well
- Eliminates additional BHA trips
- Saves time by eliminating sliding intervals
- Tolerates high lost circulation materials (LCM) for improved reliability
- Delivers smooth wellbore quality
- Drills wells with high rate of penetration (ROP) using:
  - High performance motor providing more power at the bit
  - High efficiency Talon™ PDC drill bit for optimal drilling performance
  - StaySharp™ application-specific polished cutters to improve runlife and stay in the hole longer

Maximize reservoir exposure

- Increase production by exposing more of the reservoir quicker, kicking off deeper into the well with a buildup rate (BUR) of 15°/100 ft (30 m)
- Accurately and quickly identify the reservoir to make critical steering decisions to stay in the sweet spot
- Steer 3D wells precisely and smoothly with a unique steering design
- Drill smooth curves and straight tangents for more efficient fracturing operations

Safer rigsite environment

- Bottomhole assembly (BHA) arrives at the rigsite ready to drill
- Minimal handling required at the rigsite
- No programming needed on site
For more information about how the AutoTrak Curve RSS can help you drill faster and farther, contact your local Baker Hughes representative or visit us at www.bakerhughes.com
AutoTrak Curve High Buildup Rate Rotary Steerable System
Smooth, fast runs in development drilling operations
Ensure accurate well placement
The AutoTrak Curve™ RSS provides precise directional control from the surface, enabling you to stay exactly on plan or change targets on the fly for optimum wellbore placement, even in thin reservoirs. Real-time azimuthal gamma ray readings provide effective geosteering to stay in the sweet spot.

AutoTrak Curve RSS can be run with a Baker Hughes Ultra™ or Ultra X-treme™ series motor in the BHA for enhanced drilling performance.

The system integrates the latest fit-for-purpose PDC drill bits from Baker Hughes to improve the build rate capability of the drilling system while maintaining excellent borehole quality in the lateral interval. The improved weight-on-bit transfer to the bit delivers longer lateral sections for even greater reservoir exposure.

Simplify operations and work more safely
The AutoTrak Curve RSS achieves directional control with fast, on-bottom downlink commands. To limit the footprint on the rigsite, commands can be sent manually using rig pump controls.

Alternatively, for maximum flexibility and agility, you can control the system from the surface computer using an automated downlink system. Steering targets can be changed without interruption, and the optional battery allows directional surveys while making connections, eliminating flat time.

The compact, single-piece design of the AutoTrak Curve BHA minimizes rigsite handling and saves time. The ability to reach the reservoir in a single run reduces the risk of potential incidents. The bottomhole assembly arrives at the rigsite ready to drill and requires no onsite programming.

Experience improved economics in development drilling operations
Although the AutoTrak Curve RSS was initially designed to meet the specific demands of unconventional drilling, its capabilities and cost-effectiveness make it ideal for any development drilling operation. The economic benefits delivered in shale drilling now can be experienced in a variety of development projects in a range of environments – conventional and unconventional, land-based and offshore.
**Land in the reservoir sooner**
In large horizontal field developments such as unconventional plays, the demand for greater BURs to maximize the lateral lengths in the reservoir has typically forced operators to rely on steerable motor assemblies to drill the curve and lateral. The AutoTrak Curve RSS lets you drill the vertical, curve, and lateral—typically in a single run—eliminating slide intervals throughout the well and saving time. Its continuous string rotation reduces torque and drag for better, smoother wellbore, reducing cleanup time and making running casing easier and fracturing operations more effective.

**Start drilling faster and farther**
With the AutoTrak Curve RSS, you can safely and efficiently kick off from vertical and drill a high buildup rate curve and the lateral section in one smooth, fast run—saving time and money by reducing the days on well.

**AutoTrak Curve reduces drilling time**

**AutoTrak Curve RSS by the Numbers**
10,000 circulating hours on prototypes and field test tools before product launch

**Industry record since product launch:**
- 3 million ft (914,400 m) drilled in 22 months
- 473 wells drilled
- 25 months saved in rig time
- USD 58 million saved by customers
- 60% reduced rig time in some wells

**Deeper**
**Kick Off**
**Longer**
**Reservoir**
**Section**
What makes the AutoTrak RSS different?
Baker Hughes has optimized RSS technology since introducing it to the industry in 1997. The steering principle applied in the AutoTrak RSS series eliminates the need to control and adjust BHA angles. The steering unit continuously bends the BHA gently in the desired direction.

- The slow rotating steering sleeve decouples the torsional vibrations effect from directional performance. Even in a situation with stick slip, the well can be positioned accurately in the sweet spot.
- Steering ribs in the sleeve adjust direction to provide accurate steering without alternating BHA angle setting. Each of the ribs is driven and controlled by its own dedicated hydraulic control mechanism — operating independent of bit pressure differential. By means of downlink while drilling, the tools can be switched off and the steering ribs automatically retracted into the steering unit body for easier tripping out of hole.
- Natural building or dropping tendencies are continuously corrected to drill a quality straight wellbore. The forces applied by the steering rib can be accurately controlled manually or by means of smart algorithms, and can be adjusted while drilling.