Advancing drilling operations worldwide

The Performance Drilling and Reservoir Contact Tour is an exclusive look at a suite of Schlumberger products and services aimed at efficiently delivering smooth wellbores from shoe to total depth. With advanced well planning using 3D mechanical earth models and reliable time-saving technologies, we engineer and execute optimal well trajectories for maximum reservoir contact in dynamic drilling environments across the globe.
IDEAS integrated drillbit design platform
The IDEAS design platform meets the rising demand for application-specific drill bits, higher performance, and greater reliability. The platform takes into account every element of the BHA—drillpipe, MWD and LWD tools, reamers, stabilizers, and rotary steerable systems—resulting in optimized bits and less drilling risk for operators in a matter of hours or days, rather than weeks or months.

i-DRILL engineered drilling system design
i-DRILL system design combines a bit-rock cutting model with a finite element analysis of the bit and drillstring and quantifies the vibrations and ROP for a given drilling system as a function of time. The drilling system design identifies solutions that minimize vibrations and optimize BHA performance for a given environment.

VIRTUAL HYDRAULICS pacesetting software
VIRTUAL HYDRAULICS is a proprietary and comprehensive suite of programs to evaluate and design critical-well drilling hydraulics under simulated downhole conditions. The software analyzes hydraulics and rheological behavior of synthetic-, oil- and water-base drilling fluids in extreme temperatures and pressure environments.
Quality Wellbore

CLEAR
A wellbore stability surveillance service can help optimize operational economics.
- Hole-cleaning effectiveness
- Wellbore stability
- Continuous measurement

MD-2 Shale Shaker

A dual flat-deck shaker can provide superior solids control.
- Solids control
- Composite screen and shaker combination

Debris Management

- Drilling fluid maintenance
- Clean downhole environment

Efficient Drilling

Rhino XC

- On-demand hydraulically actuated reamer
- Complete wellbore activation control
- Increased operational flexibility

Hydra-Jar AP

- Double-acting hydraulic drilling jar
- Highest impact force, up to 1 million pounds
- Sidewall surveillance
- Drilling and surface equipment protection

DigiScope

- Slimhole measurements-while-drilling service
- Data transmission up to 24 bps
- Real-time geosteering at high ROP
- Formation integrity test interpretation

Accurate Well Placement

MicroScope HD

- High-definition imaging-while-drilling service
- Enhanced image resolution
- Detailed fracture characterization
- Completion design optimization

PeriScope HD

- Multilayer bed boundary detection service
- Advanced well placement
- Accurate reservoir layer delineation
- Quantitative formation evaluation

PowerDrive Archer vortexX

- Extended reach applications
- Automatic downhole control
- High-angle building in single run

Reduced Drilling Time

Stinger

- Conical diamond element
- Innovative, center-placed cutting structure
- High-point loading capabilities
- Efficient rock destruction

DigiScope

- Slimhole measurements-while-drilling service
- Data transmission up to 24 bps
- Real-time geosteering at high ROP
- Formation integrity test interpretation

Reservoir Contact

Fracture characterization for production optimization:
Types of fractures and their morphology, geometry, and density can be identified using high-definition images from the MicroScope HD service.

Real-time geosteering for maximum reservoir exposure:
Real-time identification of reservoir layers enables directional driller to adjust well trajectory to maximize reservoir exposure, even in thin, dipping, and fractured reservoirs. Our imaging services acquire the real-time measurements necessary to identify reservoir structural characteristics, adopt a fit-for-purpose geosteering strategy, and, in effect, keep wellbores within the most productive regions.

Hydra-Jar AP* double-acting hydraulic drilling jar
Rhino XC* on-demand hydraulically actuated reamer
DigiScope* slimhole measurements-while-drilling service
PeriScope HD* multilayer bed boundary detection service
MicroScope HD* high-definition imaging-while-drilling service
PowerDrive Archer vortexX* powered high build rate rotary steerable system
Stinger* conical diamond element
With an integrated set of field-proven products and services, Schlumberger helps maintain quality wellbores, accurate well placement, efficient drilling, and reduced drilling time for reliable drilling operations worldwide.