

# QuikDownlink

## Continuous circulation downlink service

### APPLICATIONS

- Increased-risk environments, including wellbore instability and narrow mud-weight windows
- Extended-reach drilling (ERD) operations
- Rigs with mechanical pumps or slow pump controls
- Onshore or offshore rigs operating under high fluid viscosity and high solids content conditions
- Dual-gradient, managed pressure, and underbalanced drilling

### BENEFITS

- Minimizes formation fatigue by limiting downhole pressure fluctuations
- Maximizes efficiency through redundant downlinking at any operating condition to eliminate any interference with the rig operations while drilling
- Provides a full rpm-based solution

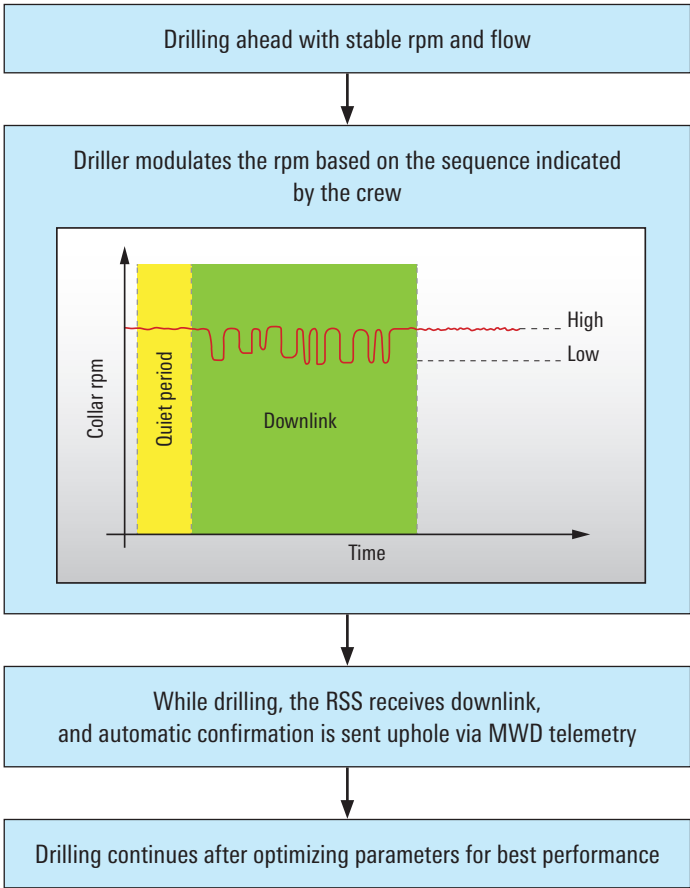
### FEATURES

- Protocols enable operator to send data to the PowerDrive\* rotary steerable system at any time

As an extension to current Schlumberger downlinking offerings, the QuikDownlink\* continuous circulation downlink service downlinks commands to the PowerDrive RSS. This capability is particularly advantageous when drilling through unstable intervals and when slow hydraulic pulses created by pumps might interfere with the conventional downlinking method. It is also effective in complex fluids used in challenging environments where fluid viscosity causes other hydraulic commands to not be the most efficient option. The QuikDownlink service also provides an effective alternative to downlink to the RSS when other downlinking services are either detrimental to rig operations efficiency or incompatible with drilling conditions.

### Communicate data independent of mud flow rate modulation

While drilling, commands are sent by modulating the collar rpm. The PowerDrive RSS downhole decodes the signals and adjusts accordingly. In combination with the QuikSurvey\* continuous-circulation directional survey service, the QuikDownlink service provides directional control and rpm-based data that is independent of flow rate modulation.



*The QuikDownlink service downlinks commands in environments where other downlink services are ineffective.*

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