

# DownLink Commander® Bidirectional Communication Technology

Enables two-way communication with the BHA

## Applications

- Trajectory changes, building or dropping the angle, or holding a given course
- High-pressure, high-flow, and high-temperature operations
- Environmental monitoring

## Features and Benefits

- Delivers rapid, two-way communication to the drilling bottomhole assembly (BHA).
- Transmits control signals in as few as 11 seconds with minimal interference to the drilling process.
- Delivers and verifies a complete control instruction set in rapid, 32-second intervals.
- Can be used with or without Weatherford logging-while-drilling (LWD) systems.
- Reduces nonproductive time and rig time, which reduces costs.

## Tool Description

DownLink Commander bidirectional communication technology rapidly delivers downlink commands to the drilling BHA to change trajectories, build/drop angle, or hold a given course. The tool transmits control signals in as little as 11 seconds, and it delivers and verifies control instructions in 32-second intervals. By enabling rapid, two-way communication to the BHA, the technology reduces nonproductive time and results in rig-time savings.

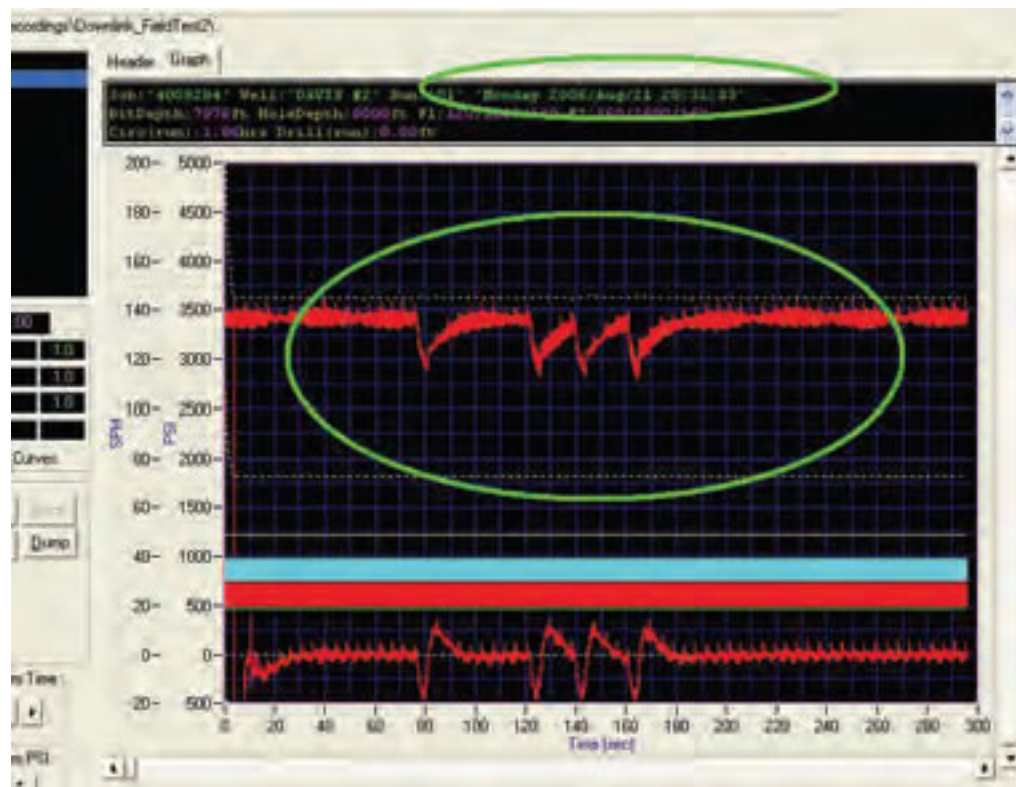


*DownLink Commander bidirectional communication technology rapidly delivers commands to control the trajectory of the drilling BHA.*

# DownLink Commander® Bidirectional Communication Technology

## Specifications

Nominal sensor	Rotating dogleg severity per 100 ft (30 m)	Sliding dogleg severity per 100 ft (30 m)	Maximum operating temperature	Maximum operating pressure	Flow rate
4-3/4	20°	36°	Standard: 356°F (180°C) Optional: 392°F (200°C)	30,000 psi (206.8 MPa)	400 gal/min (1,514 L/min)
6-3/4	11°	19°		25,000 psi (172.4 MPa)	1,800 gal/min (6,814 L/min)
8-1/4	10°	16°			
9-1/2	8°	14°			



A screenshot showing control signals sent using DownLink Commander technology

