

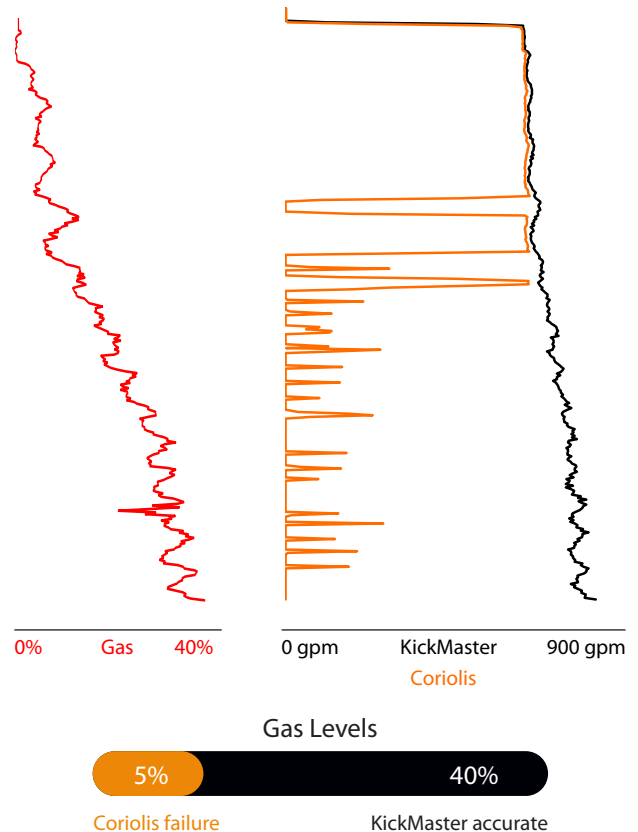
Changing the Game in Safety and Efficiency for Early Kick and Loss Detection

The Next Generation of Well Control

Engineered specifically for the upstream industry, KickMaster delivers reliable flow monitoring in extreme conditions. Based on a new proprietary flowmeter design, the system is designed to handle high solids, high pressure, and high gas content drilling fluids in complex drilling environments where conventional solutions fail to deliver. Our service allows you to keep drilling with confidence in the most difficult environments.

Feature KickMaster Coriolis

Handles high gas cut mud	✓	✗
Accurate in high solids	✓	✗
High flow rates	✓	✗
Suitable for MPD/HP Lines	✓	Limited
Simple Installation (IN/OUT)	✓	Complex



Key Benefits

- Improved fluid loss and gain monitoring
- Distinguish between normal and dangerous flow events
- Enables faster response for improved safety
- Avoids unnecessary shut-ins reducing NPT
- Optimizes kick management

Applications

- MPD - keep drilling with confidence
- Top-hole- reliable high solids, high ROP, high flow rates
- Deepwater - effective real-time ECD management
- Well Control - less guesswork, less downtime
- Fracture identification while drilling

Don't Just Measure Flow
Master It

Improved performance verified while running KickMaster in series with a coriolis flow meter during a multi-well drilling campaign in the Middle East.

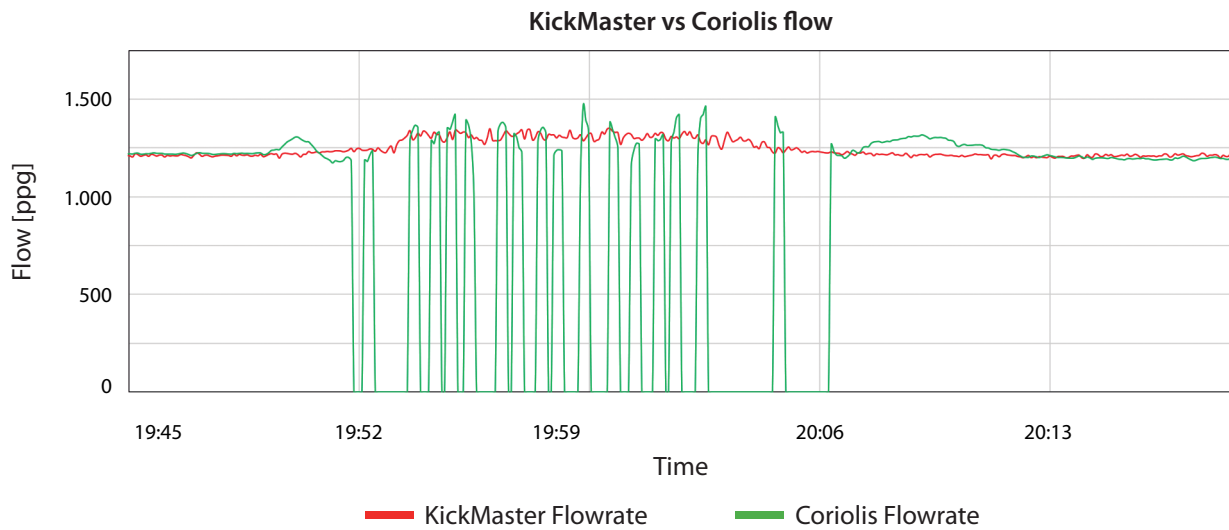


Figure 2. Circulation bottoms up with Hi-Vis pill. Results show the Coriolis sensor failed during surface returns. KickMaster accurately reads flow rates during the entire event.

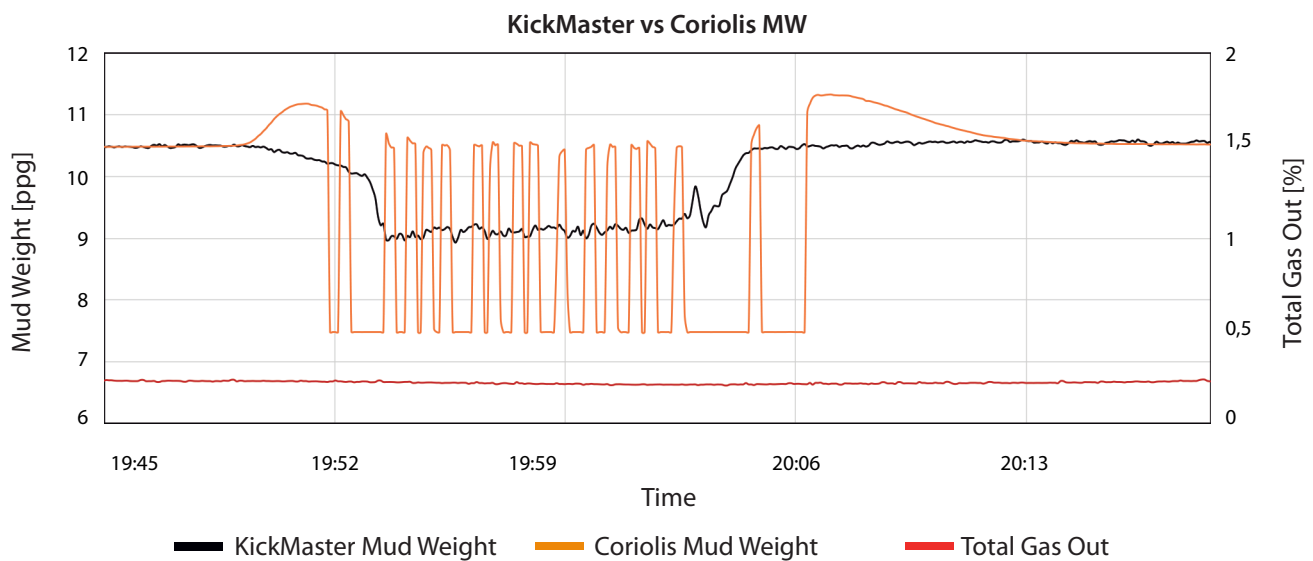


Figure 3. During the same bottoms up event, KickMaster was able to provide accurate mud weight through surface returns where the Coriolis sensor quickly exceeded its operational limitation. Client maintained full visibility during this event.

Client confirms a 77% flow rate improvement by using KickMaster in top hole section.

Why?

Less pressure losses means higher flow rates.

No more bypassed flow during top hole drilling.