EasyReach Lubricant
Reduce downhole mechanical friction like never before

Baker Hughes EasyReach™ extended-reach coiled tubing lubricant is a mechanical friction reducer that helps coiled tubing gain access to long wellbores that were previously unreachable, even with conventional coiled tubing lubricants.

EasyReach lubricant performance was extensively tested using a one-of-a-kind linear friction testing methodology that was first to effectively simulate real downhole coiled tubing conditions and environments. Testing was conducted with multiple fluid combinations, lubricant concentrations, and material types at varying temperatures. This first-in-industry testing yielded significantly more predictable field results than could previously be achieved with typical lab testing.

Data gathered during the extensive testing of the EasyReach lubricant is now used with the Baker Hughes CIRCA™ pre-job and CIRCA RT on-the-job modeling software to effectively predict results in a wide range of coiled tubing environments. When included in the well design phase, EasyReach lubricant frees well designers to plan longer laterals that offer greater access to the payzone, increasing job efficiency and production potential.

EasyReach lubricant represents a step change over other available lubricants. It has been shown to drop the coefficient of friction (CoF) by between 40% and 60% from the standard value of 0.24, increasing lateral reach by as much as 120%. It is ideal for use in extended reach applications, and has been widely used with Baker Hughes OptiPort™ hydraulic fracturing systems and the OptiPacker™ compression set packer to isolate and treat laterals extending beyond 10,000 ft (3,050 m).

Field data from extended reach coiled tubing operations has shown that EasyReach lubricant consistently offers between 40% and 60% friction reduction in actual downhole conditions, effectively validating the lab results and doubling the friction reduction provided by conventional coiled tubing lubricants. The lubricant can be used in conjunction with the EasyReach fluid hammer tool to extend the reach of coiled tubing even farther.

EasyReach lubricant helps extend the reach of coiled tubing in long wellbores, improve efficiency, and increase certainty in coiled tubing operations, while using lower concentrations compared with conventional lubricants.

Applications
- Cased hole operations requiring reduction in mechanical friction
- Coiled tubing operations
- Extended reach interventions including
  - Annular fracturing
  - Tubing-conveyed perforating
  - Milling
  - Logging
  - Acidizing
  - Sleeve manipulation

Features and Benefits
- Advanced formula
  - Provides 40-60% reduction in CoF
  - Extends reach in laterals by up to 120%
  - Functions across a wide range of pressures, temperatures, and actual downhole conditions
  - Outperforms conventional lubricants
- First in industry testing
  - Accurately simulates downhole coiled tubing conditions
  - Field results validate lab testing
- CIRCA modeling software
  - Uses empirical data for job modeling
  - Delivers predictable field results
other available lubricants. It offers a friction-reducing solution that is economical, efficient, and logistically easy to deploy, helping improve predictability and improve well economics.

EasyReach lubricant has been used extensively to enable Baker Hughes OptiPort™ multistage fracturing system installations in extended reach applications across the United States. Significant reductions in CoF have enabled annular fracturing treatments near the toe of extended lateral wells, helping avoid NPT due to coiled tubing friction lock.

The lubricant has also been used as part of the fracture treatment during the flush stage to reduce BHA drag while pulling up from stage to stage. This allows for smooth and quick pull-out-of-hole operations and reduces the operating time between stages.

To learn more about how EasyReach lubricant can help you extend the reach of coiled tubing in long wellbores, contact your Baker Hughes representative today, or visit bakerhughes.com/easyreach.

In a recent well in New Mexico, EasyReach lubricant was used to successfully reach the toe of a 10,000-ft well. Without lubricant, the BHA would have reached only 4,500 ft. A CoF comparative analysis on this well showed that the lubricant outperformed conventional competing products by 35%, providing access to an extra 3,500 ft of lateral and enabling the BHA to reach total depth.