

NEXT-DRILL invert emulsion system

Increase ROP while improving hole cleaning and reducing downtime

Applications

- Land operations using synthetic or mineral oil-based drilling fluid
- Operation where flow rate or circulating pressure is limiting drilling performance
- Challenging hole-cleaning situations
- Well paths that need maximum torque reduction

Features and benefits

- Uses circulating pressure more efficiently for maximized flow rate or reallocation to the motor and bit
 - Increased ROP
- Increased cuttings transport efficiency
 - Better hole-cleaning capacity
- Improved cuttings suspension
 - Cleaner wellbore for less torque and more weight-on-bit (WOB)

Boost your bottom line

With the Baker Hughes **NEXT-DRILL™ invert emulsion system**, you can boost your bottom line by improving your ability to manage circulating pressure. The NEXT-DRILL system is designed to reduce viscosity in the drillstring for less wasted pump pressure, while maximizing viscosity in the annulus for more efficient cuttings transport.

This ability to better manage circulating pressure will lead to improve rates of penetration (ROP) and less non productive time (NPT). These performance improvements will boost your well economics by helping you TD faster, get production online sooner, and move on to your next well quicker.

Benefit from unique flow characteristics

The NEXT-DRILL system has a highly shear-thinning rheological profile, resulting in improved pressure management. In addition, the NEXT-DRILL system has a unique “rapid-set/easy-break” gel structure that prevents cuttings in the vertical section from settling into the curve during connections and trips. It also has elevated ultralow-shear-rate viscosity (ULSRV), which prevents the cuttings in the lateral from agglomerating on the bottom

of the wellbore, or “gluing down,” during connections.

Both the rapid-set gels and elevated ULSRV work to keep the wellbore clean and minimize torque and drag associated with cuttings beds in the lateral section. Also, the gels break easily, which allows pumps to initiate circulation with minimum pressure spikes, preserving the integrity of your wellbore and preventing costly mud losses and NPT.

Save several ways with the NEXT-DRILL drilling fluid system

Compared to conventional oil-based mud, the unique properties of the NEXT-DRILL system enables you to lower your circulating pressure. This reduced pressure opens valuable pressure allocation options that significantly improve your well economics. One option is maximized flow rate for more horsepower to the motor and bit, and improved cuttings transport.

The result is increased ROP and improved hole cleaning. Another option is pressure reallocation to downhole tools, which will give you better drilling efficiency and improved operations.

For more information about boosting your bottom line with the NEXT-DRILL system, contact a Baker Hughes representative.

NEXT-DRILL components	Function
NEXT-LIFT™ rheology modifier	Lifts and transports cuttings efficiently in curves and laterals
NEXT-HOLD™ cuttings suspension agent	Prevents cuttings beds and associated torque and drag
NEXT-MUL™ emulsifier	Promotes improved emulsion stability
NEXT-COTE™ oil wetting agent	Improves solids dispersion and reduces viscosity
NEXT-FLC™ fluid loss control additive	Maintains borehole integrity by minimizing fluid invasion