

# DRILLING FLUID TEMPERATURE CONTROL SYSTEM (Mud Cooler)



The DRILLING FLUID TEMPERATURE CONTROL SYSTEM<sup>†</sup> was engineered specifically to reduce the risks and complications associated with drilling HTHP wells using oil-base drilling fluids.

The technology is specifically focused on efficient heat transfer in drilling fluids and has a proven track record, showing an impressive impact on drilling efficiency. This technology can reduce risk factors and drilling complications while simultaneously increasing safety and decreasing operating costs.

Even the most temperature-tolerant fluids have their limits before they begin to break down or behave erratically and cause problems such as fluid loss, reduced viscosity, stuck pipe and unstable filter cakes. In the case of oil- or synthetic-base fluids, additional problems can occur at the surface. The overheated fluids can release fumes that result in uncomfortable or hazardous breathing conditions for rig crews. In addition, any drilling fluids heated beyond their limits can produce inaccurate readings from Measurement While Drilling (MWD) and Logging While Drilling (LWD) tools as well as excessive wear on the elastomers found in these tools and in the BOP, riser, shakers, centrifuges and mud pumps.

## Features

- Skid-mounted, ready for immediate operation
- Effectively reduces drilling fluid temperature
- Engineered to ensure maximum serviceability
- Incorporates titanium plate heat exchangers
- Maintains oil-base fluids below their flash points
- Increases endurance and accuracy of downhole devices such as MWD and LWD
- Fewer additives required to maintain drilling-fluid rheological properties

## Benefits

- Better drilling-fluid performance
- Longer elastomer life in MWD/LWD tools, BOP, riser, shakers, centrifuges and pumps
- Reduces NPT on downhole tools
- Fewer conditioning additives required, lower drilling fluid costs
- Improves personnel safety and working environment
- MWD and logging tools can be used at greater depths
- Increased up-time strengthens your bottom line