High-temperature resistant folding containers for drilling sites

What are high-temperature resistant polymeric additives for water-based drilling fluids?
PetroChina Tarim Oilfield Company, Korla 841000, China Abstract: Three high-temperature resistant polymeric additives for water-based drilling fluids are designed and developed: weakly cross-linked zwitterionic polymer fluid loss reducer (WCZ), flexible polymer microsphere nano-plugging agent (FPM) and comb-structure polymeric lubricant (CSP).

Can a high-temperature-resistant foam drilling fluid system address challenges in geothermal well drilling?
This study successfully developed and optimized a high-temperature-resistant foam drilling fluid system to address challenges in ultra-high temperature geothermal well drilling. The core findings are as follows.

What is high-temperature resistant saturated brine based drilling fluid?
Currently, high-temperature resistant saturated brine-based drilling fluids are added with sul- phonated materials to control high-temperature and high-pressure (HTHP) fluid loss and plug formation mi- crofractures [4âEUR"5].

What are the best reusable foam drilling fluid systems?
Based on their outstanding performance in filtration control and a comprehensive evaluation of density, volume, and rheological properties, Formulations 12, 13, 14, 15, and 16 are identified as the most promising high-temperature, reusable foam drilling fluid system formulations. They warrant further in-depth research and optimization.

Abstract As the exploration and development of deep wells have emerged as a key option to extract more oil and gas resources trapped underneath, high-temperature formations impose ...

The polymer gel displayed excellent gel strength and viscoelasticity. The salinity has little influence on the viscoelasticity of the gel system, indicating that the gel system has ...

All results show that XG-AA/AM/AMPS-based CGA drilling fluids have the potential application in high-temperature and low-pressure formations, such as the depleted oil and gas ...

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Extreme-temperature process totes and lids withstand large fluctuations and differentials in temperature. They store and cover hot items during transport from a production line.

Developing ultra-high-temperature geothermal resources is challenging, as traditional drilling fluids, including foam systems, lack thermal stability above 160 °C. To ...

Abstract. High performance (HP) water-based drilling fluids are particularly advantageous compared to conventional water-based systems because they provide faster ...

During the drilling process, due to high geothermal gradients, long open hole sections, wellbore instability, and formation leakage, there are high requirements for the ...

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