

Category

Energy and Environment

Technology & Applications

The present invention relates to a drilling fluid formulation for use in drilling fluid applications and operations. The drilling fluid formulation comprising a base mud selected from a water-based mud, and a combination of fluid loss control additives comprising graphene oxide and a compound of modified starch.

Solution

Performance enhancement in drilling fluids by adding graphene into fluid loss control additives.

Advantages

- Enhancing and stabilizing rheology properties of product.
- Decreasing the formation thickness of mud cake- decrease in amount of fluid loss
- Increase in thermal properties of CMC and CMSS with addition of graphene: 300 – 325 °C.

Intellectual Property

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