



ENERLUBE III⁺ lowers torque by 35% using 30% less product in challenging North Dakota horizontal well

ENERLUBE III replaced existing product to address logistical challenges and increase rate of penetration at lower overall concentration.

CHALLENGES

- Maintain rate of penetration in high torque conditions
- Control cost of treatment
- Apply below 20°F where many liquid additives become solid

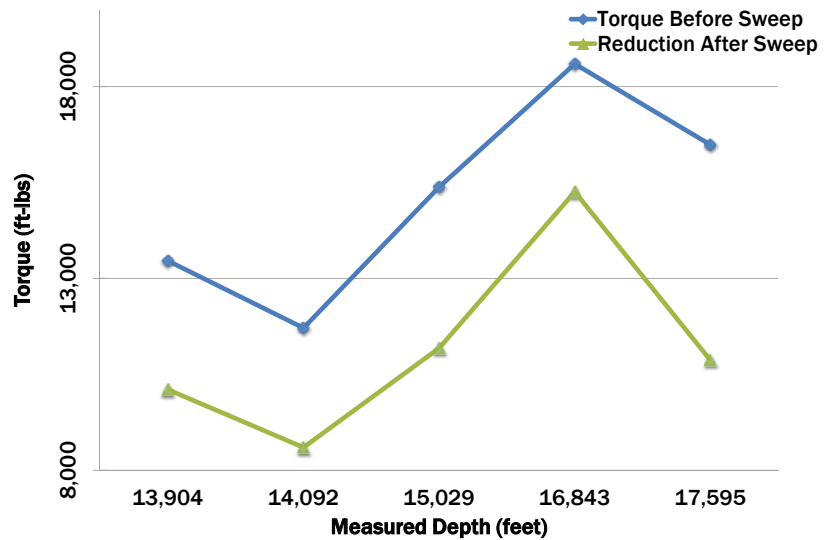
SOLUTION

- ENERLUBE III lubricant additive designed to perform at low concentration
- Apply at 2% v/v in 40 bbl sweeps
- Rated for use at -25°F

RESULTS

- Torque reduction of 35% - much lower than competing products
- Product additions cut by 30%, resulting in significant cost savings
- Improved sliding maintained drilling efficiency

Torque and Drag Before and After ENERLUBE III



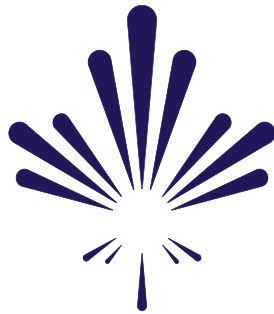
ENERLUBE III added at 2% v/v in sweeps results in a significant reduction in torque after treatment.

Overview

An operator in North Dakota was experiencing reduced rate of penetration associated with excess torque and drag. Lubricant additives provided a torque reduction, but limited performance required concentrations as high as 5% v/v to achieve the desired results. Handling and storage of large lubricant volume was complicated by cold weather conditions below 20°F as the lubricant thickened and did not pour.

AES Drilling Fluids recommended ENERLUBE III to provide the necessary torque reduction at a lower concentration. ENERLUBE III is blended for use in cold weather as low as -25°F.

ENERLUBE III was added in 40 bbl sweeps at 2% v/v. The directional driller immediately noted improved sliding. Overall rate of penetration improved to avoid lost drilling time associated with insufficient weight on bit.



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