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

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.