

OptiDrill™ HP Proves Performance and Value on Exploratory Well

Midland County, Texas

Challenge

Drilling exploratory well adapting to hole conditions and higher mud weight

Solution

A custom OptiDrill HP Formulation designed for performance and adaptability

Results

Operator ran casing with no issues while saving on diesel and trucking, and successfully reached total depth with increased rate of penetration

An operator in the Permian Basin, drilling an exploratory well required a fluid to meet the challenges in Midland County. The hole cleaning capability of the fluid would be critical to the success of the well. The troublesome formations are prone to sloughing and mud weights need to be adjusted accordingly.

Newpark's OptiDrill HP provides a simplified product mix and lower oil/water ratios (OWR) saving the operator on diesel and trucking costs. The OWR for a conventional 13.0 lb/gal fluid are typically 80/20. OptiDrill HP can provide an OWR range of 60/40 – 70/30 and lower ECD values. The low-solids nature of the fluid enables higher rates of penetration to be achieved.

OptiDrill HP successfully reached total depth with higher rates of penetration and casing run to bottom with no issues. The fluid was able to reach 15.0 lb/gal with an OWR of 70/30 and save the operator significant costs on diesel and trucking.