

Haynesville Operator Projects Annual Dilution Savings of \$1.48M per Rig with Derrick® Hyperpool® Technology

- Mud built and haul-off costs savings of \$11.27 per foot
- Reduced dilution and disposal cost by 36%
- Drilling time per production interval decreased 44%

Situation

A major operator in the Haynesville shale formation was increasing their drilling rig count to three rigs in early 2021. The operator was focused on increasing drilling efficiencies and reducing overall drilling fluids costs, as the drilling program requires a closed loop drilling fluid system for every well section. The customer identified a need to optimize primary solids control equipment to minimize dilution / haul-off costs.

Drilling Parameters

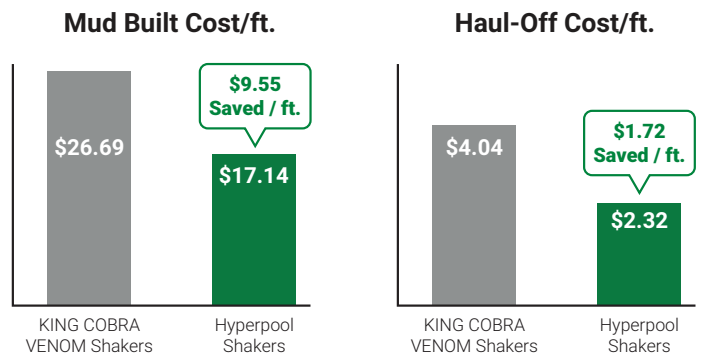
The production intervals averaged just over 11,000 feet with a 6-3/4" bit and 15.5 PPG oil-based (diesel) fluid.

Solution

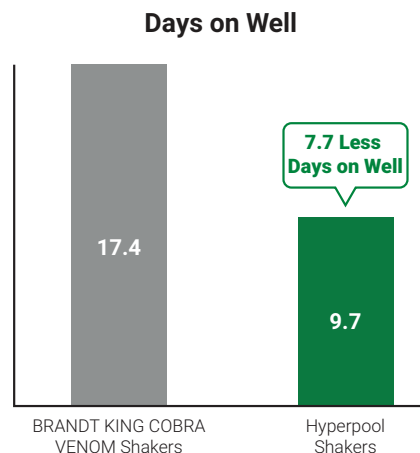
The operator chose the Derrick® Hyperpool® K-Series Conversion Kit to replace the rig-owned NOV® BRANDT™ KING COBRA™ VENOM™ shakers. Seven wells drilled with KING COBRA VENOM shakers were compared to three wells with Hyperpool shakers. Derrick utilized its well comparison tool to quantify the direct impacts of solids control performance such as percent solids removal, whole mud loss, total solids discarded, drilling fluid dilution rates, days on well, and quantity of panels consumed.

Results

1. Improved solids removal resulted in a reduction in cost for dilution (less new mud built while drilling) and haul-off (drier cuttings) per well:



2. Production intervals of comparable footage drilled with Derrick Hyperpool shakers took almost 8 less days on average to reach TD, reducing a significant amount of spread cost for the operator:



For more information, please contact your local Derrick sales representative.

15630 Export Plaza Drive • Houston, Texas 77032 • Toll Free: (866) DERRICK • Office: (281) 590-3003 • Fax: (281) 590-6187
info@derrick.com • www.Derrick.com