

Crush & Shear™ Hybrid Bit

INCREASING DRILLING EFFICIENCY BY TAKING A DIFFERENT APPROACH TO HYBRID BIT TECHNOLOGY

FEATURES

- » Durable carbide rolling elements that reduce torque fluctuations
- » Optimized PDC cutting structure that is designed for specific application challenges
- » Shallow center core that improves lateral stability and reduces whirl tendencies

BENEFITS

- » Ability to withstand high weight on bit (WOB) while reducing torque fluctuations, which results in improved tool face control and smoother drilling
- » Lateral stability that reduces overall vibrations, increases drilling efficiency, and extends the life of PDC elements

OVERVIEW

In certain formations or applications, a hybrid bit is required to reduce risk and ensure that targets are achieved, while also allowing the operator to maintain drilling efficiencies. Crush & Shear™ hybrid bit technology is engineered to take advantage of rock failure mechanics while providing lateral stability. It has

the ability to withstand high WOB while reducing torque fluctuations, thus improving tool face control and enabling smoother drilling.

The Crush & Shear drill bit reimagines hybrid bit technology by placing the PDC elements in parallel with the rolling elements, instead of in series. By optimizing PDC element placement and positioning rolling cones in the center to crush the rock (where PDC shearing action is inefficient), the Crush & Shear hybrid bit achieves higher rates of penetration (ROPs), improves lateral stability, and minimizes torque fluctuations – thus increasing drilling efficiency and extending the life of PDC elements.

The hybrid bit's durable carbide rolling elements provide extreme levels of strength and abrasion resistance. There are multiple carbide grades to suit various demanding applications. This technology's robust all-carbide cones and carbide-reinforced bearing components make the Crush & Shear hybrid bit ideally suited for the toughest of downhole drilling environments.

For more information, contact your local Halliburton representative or visit us on the web at www.halliburton.com

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