

# StrikeForce™ Roller Cone

## New StrikeForce™ Roller Cone Bits Debut in Canada, Drilled Record Depths



StrikeForce™ Roller Cone Bit

### OVERVIEW

After proving successful in the Permian and Gulf of Mexico, Halliburton’s new StrikeForce™ roller cone bits were recently introduced in British Columbia, Canada. These roller cone bits quickly established new performance standards in Sandy Field, and created value for customers by lowering its cost per foot.

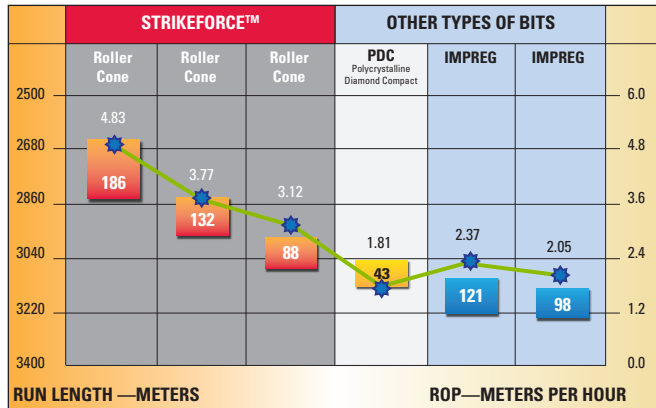
This latest generation of roller cone bits incorporates unique technologies for more robust, longer-lasting performance in hard-to-drill formations. The StrikeForce bit design begins with abrasion-resistant carbide-grade material to withstand wear and includes dual-optimized contact pressure seals, a dual-compensation system, and a new grease formula for lubrication.

In the Liard Basin, the Mattson formation is extremely hard, and abrasive and rock strengths can vary from 25 to 40 kpsi. Siltstone, sandstone, and dolomite stringers are widespread throughout the interval, and a 5-m section of 70% chert was identified at around 2900 m (9,515 ft) depth, presenting a challenging application for the debut of the new roller cone bit.

Nonetheless, the first run of the new bit—a 216-mm (8-1/2-in.) EQH69D3RD model—drilled record depths. Driven by a displacement motor, turning at 0.045 revolutions per liter, the bit drilled a total of 186 m (610 ft) in 38.5 hr, yielding a penetration rate of 4.83 m (16 ft) per hour, and accumulating a total of 277,200 revolutions before being pulled from the hole. This outstanding rate is almost 40% greater in meters drilled than the next-best offset performance in the area.

The record run was followed by a second EQH69D3RD bit, which drilled 132 m (433 ft) at 3.77 m (12.4 ft) per hour, and by a third bit, a EQH79D3RD bit, which drilled 88 m (298 ft) at 3.12 m (10.2 ft) per hour. In each case, the new roller cone bits delivered a rate of penetration that surpassed all other offsets, making the Canadian debut an unqualified success.

With the new StrikeForce bits, Halliburton delivers a technology solution to its customers’ that drills faster and further for longer periods of time at the lowest cost per measure of distance, resulting in a lower cost per BOE.



**StrikeForce™ Performance Chart:** Halliburton’s new roller cone bits were recently introduced in British Columbia, Canada. These roller cone bits quickly established new performance standards in Sandy Field, where a major operator ran the roller cone bit in a 216-mm (8-1/2-in.) hole.