

— CASE STUDY: ALBERTA, CANADA

CryoCut shaped-cutter technology improves distance drilled and ROP in hard, abrasive sandstone

CHALLENGES

- Excessive bit trips leading to high drilling costs
- Drill through hard, abrasive sandstone on rotary steerable system
- Short distance drilled due to cutting structure damage caused by abrasive wear

SOLUTION

- 6¼-in. PermaFORCE™ elite PDC drill bit
- New cutter technology to increase cutting life in applications limited by abrasive wear
- CryoCut™ shaped PDC cutters maintain cutting edge in hard, abrasive formations with stringers causing impact damage

RESULTS

30% increase
distance drilled

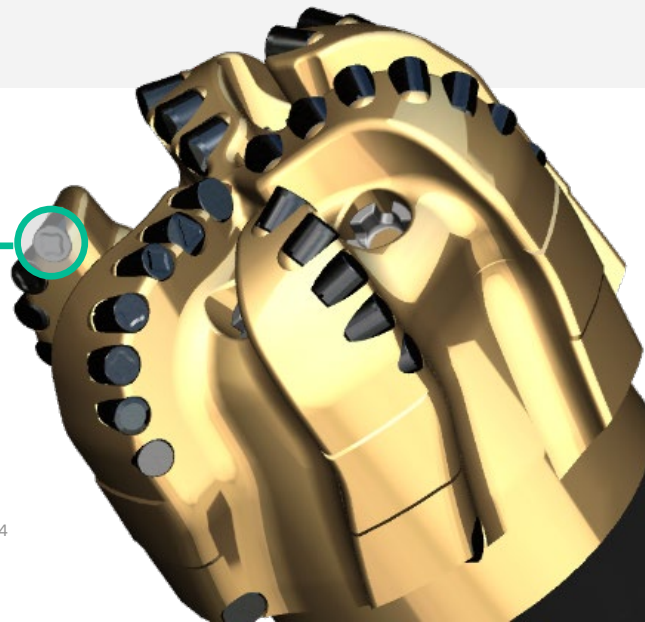
5% faster
vs. field average ROP

Improved dull condition
resist abrasive wear and thermal degradation of diamond



CryoCut™

Shaped-cutter technology



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