

Optimized PermaFORCE design with CryoCut shaped-cutter technology increases distance and ROP in extended reach lateral

CHALLENGES

- Drill with high ROP and depth-of-cut on a bent-motor assembly in shale formation
- Drill 2+ miles in lateral with one BHA
- Increase drilling time by correcting BHA walk with excessive slides
- Drill long laterals efficiently

SOLUTION

- 6-in. PermaFORCE™ elite PDC drill bit
- Versatile Cutting Structure to improve stability and ROP potential in high-ROP drilling environments
- CryoCut™ shaped PDC cutters resist thermal degradation and reduce premature cutting structure wear
- AntiWalk gauge
- 5-in. [DuraMax™ bent motor assembly](#)

RESULTS

42%
vs. field offsets

11% faster
vs. field average ROP

Improved
directional
reduce bit-walk in lateral

