Baker Hughes 3D bit drilling simulation software optimizes Kymera, offering higher ROPs and lower cost-per-foot

CHALLENGES

- Up to 3,000 ft section length
- Hard, abrasive and interbedded formations
- PDC bit damage from torque fluctuations
- Extra bit trips and low ROP with PDCs

SOLUTION

- Kymera[™] hybrid drill bit technology optimized with 3D Tetrahedron[™] bit drilling simulation software
- Optimize for:
- Increased bit aggressiveness to improve ROP
- Maintain torsional stability and durability
- Balanced TCI cutting structure to improve bearing and seal reliability







50% farther

39% faster

ROP than average

Better dull condition

vs. baseline Kymera

Effective

bearings and seals

15% decrease

in torque for smoother drilling

23% lower

cost-per-foot



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