

Application	Directional drilling
Section	12¼ in
Interval length	4,706 ft [1,435 m]
Lithology	Hard interbedded carbonates

Background

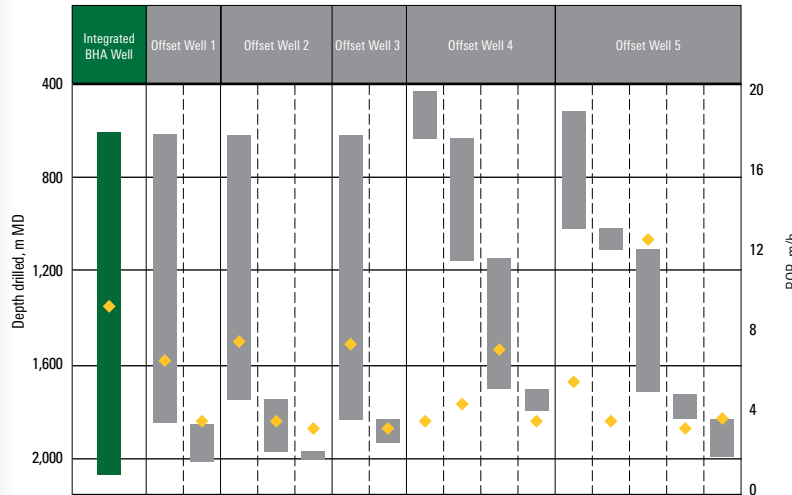
Rumaila Operating Organization (ROO) planned a directional well across the Rus and Hartha Formations in Iraq. These highly interbedded and hard carbonate formations historically induce severe vibrations, causing bit damage and requiring from two to five bits to drill the 12¼-in section.

Technologies

- StingBlade® conical diamond element bit
- IDEAS® integrated drillbit design platform
- PowerDrive vortex® powered RSS
- WELL COMMANDER® ball-activated drilling circulating valve
- Hydra-Jar AP® double-acting hydraulic drilling jar

StingBlade Bit Helps Drill 12¼-in Section Shoe to Shoe in One Run, a First in the Rumaila Field, Iraq

Integrated BHA delivers 64% faster ROP versus offset well average and saves 3.74 days of on-bottom drilling time



The StingBlade bit in the integrated BHA successfully drilled the 1,435-m 12¼-in interval shoe to shoe in a single run at an ROP of 9.3 m/h [30.5 ft/h], 64% faster compared with the offset wells' average in the field. After completing the interval, the StingBlade bit was pulled out of hole with a good dull condition. The system built angle from 0° to 12.5° inclination with 3°/30-m [3°/100-ft] dogleg severity, and ROO saved 3.74 days of on-bottom drilling time compared with offset wells.

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