

Raider® Sets New Benchmark in Burgan Field, Kuwait

16" R916PDGHU – One Bit to TD

CHALLENGE: Improve ROP through the Zubair – Ratawi Shale and total footage drilled in the Carbonate section of the Burgan Field with a 16" PDC bit on a PDM directional system.

SOLUTION: To maximize downhole efficiency in this application, Varel designers through the use of proprietary SPOT-DN™ software have included PowerCutters in the bit design. This high density cutting structure arrangement provides enhanced bit life and extra diamond exposure plus cutter density on the critical shoulder without sacrificing ROP. Bits can achieve maximum ROP without concern for transitions or the cutting structure life.

RESULTS: This Raider bit drilled 3126 ft (952 m) to complete the entire 16" interval with one PDC bit. The 16" R916PDGHU bit achieved a 44% reduction in cost per foot compared to offsets in this section. The bit drilled the interval to TD with an outstanding 1-1-NO-A-X-NO-TD dull grade. The cutting structure durability of the Raider bit helped avoid a costly trip and contributed to the overall savings on this well.



16" PDC Shale - Carbonate Section Record in Burgan Field

