

## Voyager Drills Farther and Faster in Mauddud lateral on Motorized RSS Tool

### 6 - 1/8" V613G2NX, Rawdatain Field, North Kuwait

**CHALLENGE:** To drill the fastest and longest lateral in the Mauddud section to TD knowing that the bit will be pulled off bottom several times to run sweeps and clean the hole. With Varel's Force<sup>3</sup> cutters chosen to match the required application results are seen below and to the right.

**SOLUTION:** In this application, the Varel team previously used a 6-1/8" V613G2NX Voyager directional bit for the same section of the well. Voyager bits drill faster and further thanks to the proprietary design programs used to design the bits. Varel's SPOT-DN and DIG-IT software help the designers design the cutting structure and torque signature of the bits to the formations that will be drilled resulting in directionally friendly and durable drilling bits.

**RESULTS:** Varel's 6-1/8" V613G2NX Voyager bit now holds the top three records for single run footage of a 6-1/8" PDC bit in this Northern Kuwait field. The latest run drilled 6094 ft (1857 m), an improvement on Voyager's next best footage record and a 47% increase from the competitive offset average. Drilling at 55.4 ft/hr (16.8 m/hr), this run saved the operator time and money compared to previous field runs.



The dull grade after drilling 6094 feet was reported as 1-1-NO-A-X-I-NO-TD.

**38% Improvement in ROP**  
**47% Improvement in Footage Drilled**  
**Compared to Competitive Offset Averages**

