

## Voyager® Sets ROP Benchmark on RSS Tool

### 12-1/4" V716PG2X, Offshore Ghana, Deep Water

**CHALLENGE:** The directional tangent section in this field consists of claystone, sandstone, and limestone. The goal for this run was to be able to maintain the tangent section while also being able to drill above average ROP and achieve average meterage drilled by offsets.

**SOLUTION:** SPOT-DN™ software was used to design a durable yet aggressive cutting structure with PowerCutters™ to maximize shoulder life. This cutting structure arrangement produces above average ROP while also remaining directionally friendly. Bits can achieve maximum ROP without concern for damage to the cutting structure as a bit transitions through formations. Varel's Force<sup>3</sup>™ cutters were matched to the application and supplied in the bit.

**RESULTS:** This Voyager bit drilled a total of 929 m (3047 ft) while setting an ROP field benchmark in the tangent section. The 12 1/4" V71613PG2X bit achieved a 34% ROP improvement over the offset average of 7 wells. The Voyager bit held angle at 21° in the tangent section and delivered an excellent dull as can be seen in the photo to the right.



Photo of Dull Bit with Rig Grade of 1,3,WT,S,X,O,HC,PR

### 12-1/4" V716PG2X & Offset Data

