

Voyager® Fully Optimized For DeepWater Drilling

16" V616BTDGHX, Ochiguvu Field, Offshore Angola

CHALLENGE: To drill to TD maintaining optimum ROP through the deepwater section of Ochiguvu Field while maintaining verticality on a point-the-bit-system. Offsets average 1,131 m (3,710 ft) drilled to TD with an ROP of 17.1 m/hr (56 ft/hr).

SOLUTION: To maximize downhole efficiency in this offshore application, Varel designers, through the use of proprietary SPOT-DN™ software, have included matrix shock studs to limit bit vibration, a premium TSP gauge for maximum protection, and an extended sleeve with box connection to aid in directional control on the point-the-bit system.

RESULTS: Varel's optimized 16" V616BTDGHX drilled 972 m (3,189 ft) to TD in this deep water application. At an average of 18.1 m/hr (59.4 ft/hr), it drilled above the average 17.1 m/hr for this field. The drilling manager commented on the excellent directional control provided by this bit and its extended gauge and box sleeve as this run maintained verticality throughout the interval. Consistent with other bits drilled in this field, this bit was POOH with a 1-1-CT-S-X-0-NO-TD dull grade.

