

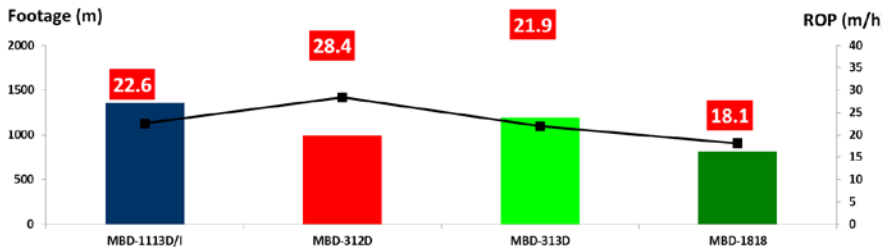
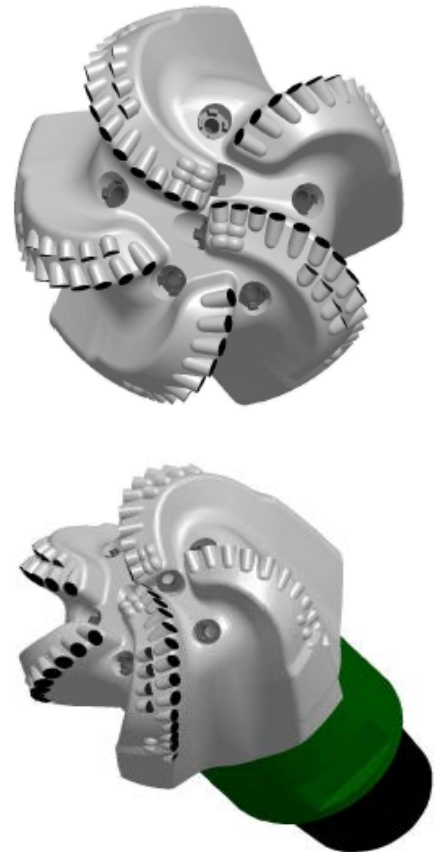
Varel VB519PDGX Drills 4358 Meters

12 1/4" VB519PDGX, Mboundi, Congo

CHALLENGE: To develop a fast and durable surface bit that does not ball up in the soft formations of Mboundi Field while improving ROP.

SOLUTION: Using advanced SPOT-DN™ design software with the aid of Geoscience technology, Varel has designed the “VB” Series of products utilizing Oval cutters and Lateral jets. The total design process allows our designers to balance bit stability and efficiency for specific lithology, drilling systems, and well objectives.

RESULTS: The VB Series bit drilled 4358m or (14,298ft) at an average of 22.4 m/hr (73.5 ft/hr). Comments from the On-Shore Drlg. Supt. include that the bit was capable of being re-run after the fourth well. Dull grade after the third well was 1, 2, BT, A, X, I, NO, TD. The bit drilled the following formations on each of the 4 wells; Siltstone, Clay, Shale, Anhydrite and Limestone. The lateral jets of the VB Series helped keep the bit face clean. Drilling parameters for all four wells were 160 – 210 RPM, 4 - 6 T WOB and 1900 – 2500 LPM.



For more information on this bit and proposed applications please speak to your local Varel representative.