

Case Study

12.25" Delivering Record-Breaking ROP Performance in Congo

APPLICATION

Offshore Oil – 12.25" Section.
Tangent Section - 10°.
Rotary Steerable System BHA.
Mud Weight: 1.38sg – 1.42sg.
Medium Hard Formation - Salt and Shale.

CUSTOMER CHALLENGE

The customer's goal was to drill the entire 12.25" interval with a single PDC bit run, achieving best-in-class ROP while maintaining optimized performance and acceptable dull grading at TD.

BUILDING BASE TO SUCCESS

Driven by detailed technical evaluation VION-619 matrix body, 6-bladed, 19mm cutting structure was selected for the application.

VION™ technology is designed for drilling applications where durability and control are essential.

G1 Stepped Gage provides tiered undercut designed for matching bit tilt with specific drive types or assemblies.

Shock Studs limit drill bit vibration and increase stability. They contact with the formation to help maintain the bit's normal smooth cutting action.

CUSTOMER VALUE

This 12.25" VION-619 bit outperformed all other bits in the field and achieved remarkable drilling performance.

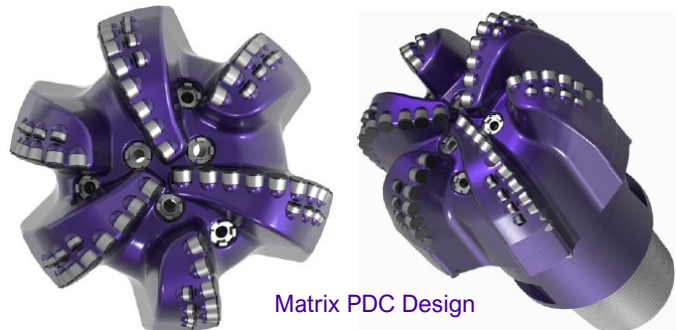
- ✓ **Achieved the fastest ROP in the field of 119m/h.**
- ✓ **Achieved 111.7% increase in ROP as compared to the Top 9 average in the field.**
- ✓ **Achieved 24% increase in ROP as compared to the previous best run in the field.**

TECHNOLOGY

VION™ 619

LOCATION

Congo
Offshore



Performance Comparisons

