

ROCKSTAR 10

CASE STUDY



RAISING THE BAR ON DRILLING RESULTS WITH

ROCKSTAR 10

As any driller knows, the choice of core bit can have a huge impact on drilling performance and its often a challenge to find the right matrix and configuration.

[Learn more about how to choose the right core bit.](#)

The Fordia **RockStar 10** core bit is a series 10 matrix that is very versatile, adapts well to variable grounds and offers good resistance to rock abrasiveness. It is a great self-sharpening matrix that works well with less powerful drill rigs.

The RockStar 10 is ideal for ground between 6 and 7.5 on Mohs scale and a good choice for smaller diameters making it well-suited for underground drilling, as well as surface helicopter-portable jobs and other projects with limited space.



Forage Rouillier is an Abitibi-based leader of the mineral exploration industry in diamond drilling. The company wanted to improve their productivity and called a **technical representative** from their local Fordia office. The challenge they had was to improve their penetration rate and extend bit life at the same time.

Forage Rouillier had been involved since Spring 2015 in a drilling project in Amos, Quebec. The team was using a crawler-mounted, lightweight drill rig with a 600m NWL depth capacity. The ground included hard syenite formations and was averaging 7 on the Mohs hardness scale. Syenite is a coarse-grained igneous rock with a composition similar to that of granite, but lacking in quartz.

This type of ground condition paired with the smaller, less-powerful drill rig made the RockStar 10 an excellent choice.

The team at Forage Rouillier had tried using a competitor's 9 series bit as well as Fordia's 9 -11 and Hero 11. They were having difficulty with the hard syenite formations. Fordia suggested using the Rockstar 10 in a 16 mm **Vulcan configuration**.

Once they started cutting with the RockStar 10, Forage Rouillier's team saw an immediate improvement.

MISSION ACCOMPLISHED

“The RockStar 10 is a really good bit, in many places”

*“We were really impressed when we drilled over 100 meters
in one 12 hour shift in such hard ground”*

Emmanuel Chainé, driller at Forage Rouillier.

The RockStar 10 provided a better rate of penetration than the competition, providing a speed that was 1 to 4 inches per minute faster. It also reduced the weight on bit by about 10%. Production (in terms of meters drilled per day) was increased by approximately 15%. Bit life for the RockStar 10 was from 175 to 250 meters, which was double that of the competitor's 9-series bit.

The RockStar 10 is a great choice for both surface drilling and [underground drilling](#). It is the first core bit in this series and other RockStar core bits are in development and expected to be offered soon.

For more information on the RockStar 10 and to learn how other Fordia products can make drilling easier, visit www.fordia.com, or to learn how you can improve your drilling performance and lower your operational costs, contact your local Fordia office or technical sales representative.

Penetration rate
1 to 4 inches per minute faster
than the competition

Reduced the weight on bit
by about 10%

Production
Increased by approximately 15%
(meters drilled per day)

RockStar 10 bit life = 175-250 meters
- double that of the competitor's
9-series bit

