APAGEO

SONIC DRILLING

MINERAL EXPLORATION

FEEL THE SONIC VIBES !

Male your difficult works successful

SonicSampDrill
a Royal Eijkelkamp Company

Main applications :

Sampling alluvial deposits and mixed layers

Do you need to take samples in alluvial grounds or in a profil with mixed layers ? *
Aqualock is THE solution. It is the fastest and most reliable sampling tools for this type of formations, either for continuous sampling or discreet sampling.

Sampling hard formations and rocks

The single or double core barrels, combining vibration with rotation and using a Tungtene carbide buttoned bits, are more adapted for sampling rocks and hard layers.
Always the same goal: to obtain 100% recovery rate in short time.
For large diameters samplings, several core barrels are available as well as casing systems (for telescopic purposes) until 7" (178mm).
In case of need, conventional drilling and coring equipments can be used.

Extremely straight boreholes

The sonic method of drilling also ensure perfectly straight boreholes (less than 2% deviation) thus enables to guarantee the depth and to locate precisely the mineral deposits. Then it's also optimal for installing instrumentation and monitoring equipments.

Main benefits of Sonic method :

- High productivity thanks to high sampling rate per day
- Recovery rate up to 100%
- Deviation less than 2%
- High quality and undisturbed samples in all type of geology
- Strict respect of drilling depth
- Coring up to 200m depth

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MINERAL EXPLORATION

Our equipments

- Sonic rigs perfectly adapted for mining exploration
- The innovative soil sampler AquaLock for high speed undisturbed sample production, especially alluvial deposits
- Single or double core barrels suitable for any geology, including gravels, boulders, rocks, etc…
- Casing systems for telescopic purposes
- Toolings for destructive drilling
- Hydraulic shifting head system to use conventional equipments if needed (tricone/drag bits, conventional coring equipments, etc…)
- Highly skilled staff to train your people to work with this equipment at your jobsite, wherever on the globe

Your challenge

Mineral exploration requires complete, accurate and reliable samples. Conventional methods cannot fully meet those requirements, especially in heterogeneous and/or alluvial grounds (often encountered up to 60m and more). Moreover bad results influence negatively the works (unnecessary oversized or overdrived soundings) and difficult geology leads to low productivity rate. Finally high costs occur and profit is reduced.

Our answer

A large range of sonic rigs with specific soil samplers and rock coring equipments enable to meet precisely all those requirements. Samples are complete and guarantee accurate certified geological data. Those benefits and the stunning drilling speed ensure high productivity rate as well as high quality results for higher profits.

REFERENCE PROJECT

John Rae, Minatura Colombia SAS

« After statistical analysis of data, which we acquired from sonic samples, we have found that the data had a recovery percentage above 95%. While with previously used equipment, only 40% recovery of the samples was achieved. Therefore, it was identified that the samples of the Sonic drills are much more reliable at the evaluation process of reserves that currently belong to Minatura Colombia SAS.
Another important fact when choosing the Sonic Drilling program to continue the exploration process, is the rate of penetration, taking into account that we have an average of 35 m per day against the 6 m per day of wireline drills. »

PILOT PROJECT

In order to prove the efficiency of this method, a team can come on site to carry out a difficult and/or target work.
For more information or personal advice, please contact us.

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