



A driller-operable natural gamma solution

Informed logging with automated lithology boundary picking

Description

NOVAxG™ is a driller-operable gamma logging solution that transforms downhole data into useful information, delivering auto-generated wavelet tessellation data to geologists at the time of logging.

The system combines technology, workflows and analytics to provide valuable geophysical information in a format that is easily interpreted by geologists of any experience level. Productivity and time to decision-making is ultimately improved with the fast identification of non-visible patterns in core not readily picked up in visual logging.

Data Acquisition

The NOVAxG gamma probe is an intelligent, driller-operable sub-surface instrument used to determine lithology and geological correlation through the measurement of natural gamma radiation (NGR) over the span of the borehole. Eliminating the need for traditional gamma logging by means of a logging service, the probe is robust, compact and designed to withstand harsh mining environments.

Gamma data is available immediately upon retrieving the probe and is then transferred into IMDEX's cloud-based HUB-IQ™ portal through a secure chain of custody for review and approval.

An auto-generated quick log is also available in HUB-IQ, delivering gamma wavelet tessellation data (automated boundary picking) to geologists at the time of logging. This data enables the rapid reveal of subtle patterns and detail in the rock that are otherwise undetectable visually.

Integration

Seamless integration into ioGAS™, offers further geological analysis through a wide range of visual analytics and advanced quantitative tools.

Securely share your data between HUB-IQ and leading software solutions through API integrations with top industry providers such as Seequent, acQuire and Micromine.

Advantages

- Auto-generated gamma wavelet tessellation data is easily interpreted by geologists of any experience level, enabling the fast identification of cryptic, non-visible patterns in core not picked up in visual logging.
- Delivery of meaningful information into HUB-IQ at the time of logging improves day-to-day workflows and productivity.
- NOVAxG gamma probe is robust and easily deployable by drilling crews. It can be run in-rod and continuously at various speeds based on the required data resolution.
- Further analysis can be completed with seamless integration into ioGAS through a wide range of visual analytics and advanced quantitative tools

Gamma probe specifications

Crystal size

Ø25 mm x 165 mm

Operational speed

10m/min recommended (10cm resolution)*

Dimensions

Probe & running gear outer diameter	36mm
Probe & running gear length	<3m
Probe & running gear weight	<15 kg

Operational environment

Probe: ambient air temperature	0°C to +70°C (32°F to + 158°F)
Pressure	40MPa (6000psi)

Battery

Type	Ni-MH Rechargeable batteries
Field chargeable	Yes, 2 batteries supplied per kit

Data

Export Format	USB and WIFI CSV
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*Speed can be increased, resulting in lower resolution (20m/min = 20cm).

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