Defining Your Resource

Borehole Wireline

GEOPHYSICAL LOGGING PROBES

Total Gamma

NGRS

MEASUREMENT PRINCIPLE

The total gamma probe measures naturally occurring radioactivity. The most common naturally occurring radioactivity is associated with K^{40}, TH^{232} and $U^{232-238}$ which are associated with certain rocks (eg clays/shales) making the gamma curves an excellent lithological identifier tool. A scintillation detector system consisting of a sodium iodide crystal and a photomultiplier tube to measure gamma radiation.

Ideally suited for:

Uranium exploration and mining.
Uranium grade determination.
Coal and iron ore exploration
Sedimentary studies.
Logging run depth matching.

Operations & Calibration:

Minimum borehole diameter of 50mm.
Air and/or fluid filled borehole.
Open borehole and/or cased borehole.

Typically recorded in an uphole logging direction at logging speeds of 3 – 5 m/min.

(Downhole logging can be recorded for QA purposes)

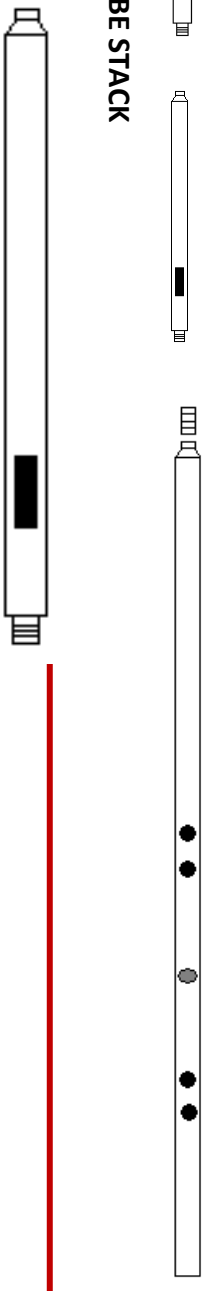
Calibration via Adelaide Models – AM1, AM2, AM3 for Uranium grade and AM6 for API calibration.

Probes can be stacked to the top and the bottom of the probe. Typical combinations are:

Gamma, filtered gamma, magnetic deviation, caliper, fluid temperature/conductivity dual laterolog, dual inducation, formation density, fullwave sonic, gyroscopic deviation.

SINGLE PROBE

COMBINABLE PROBE STACK



PHYSICAL SPECIFICATIONS	
Weight	5.0kg
Length	0.63m
Diameter	38mm
Crystal size	25mm x 50mm
Maximum Pressure	20 MPa
Maximum Temperature	80°C

ISO 9001 www.intlcert.com

AS/NZS 4801 www.intlcert.com

ISO 14001 www.intlcert.com

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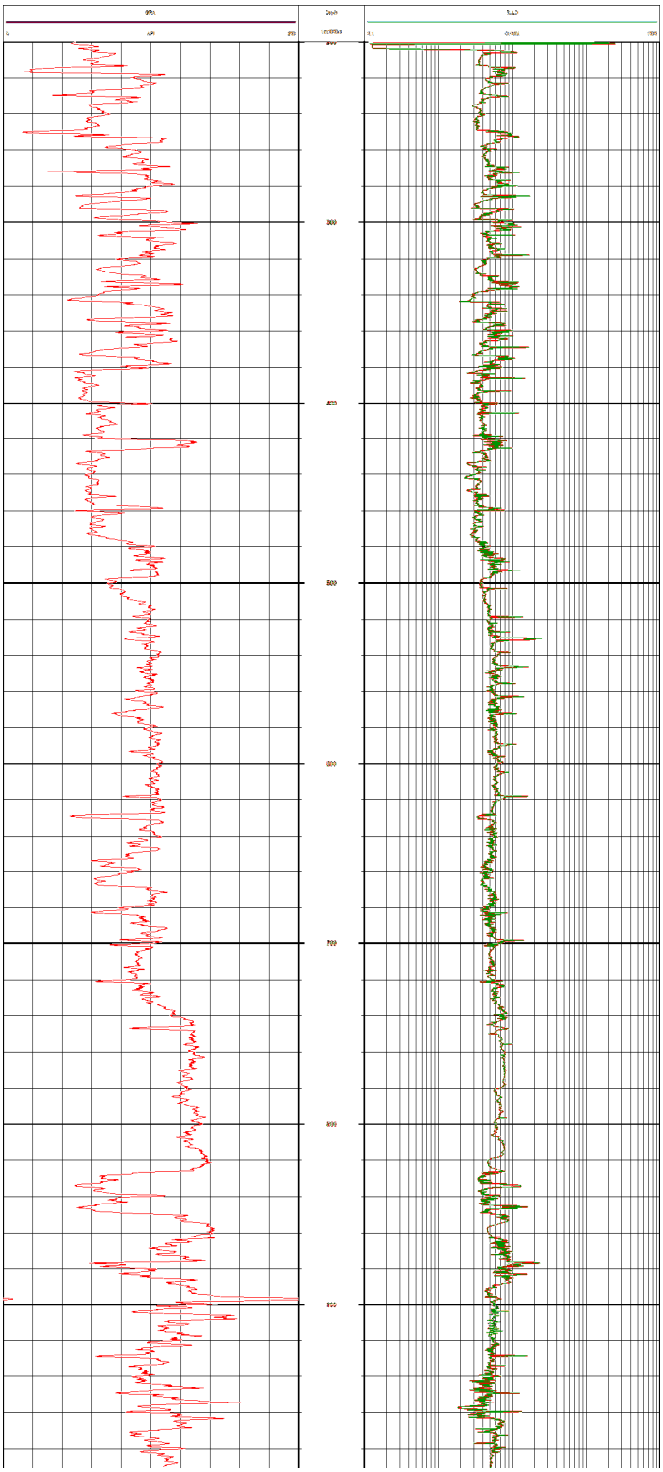
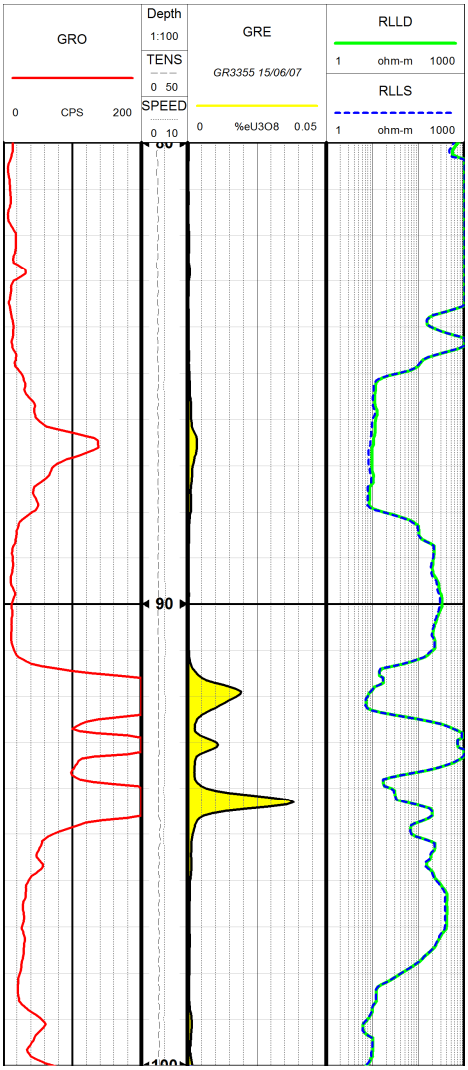
SEDIMENTARY



URANIUM



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