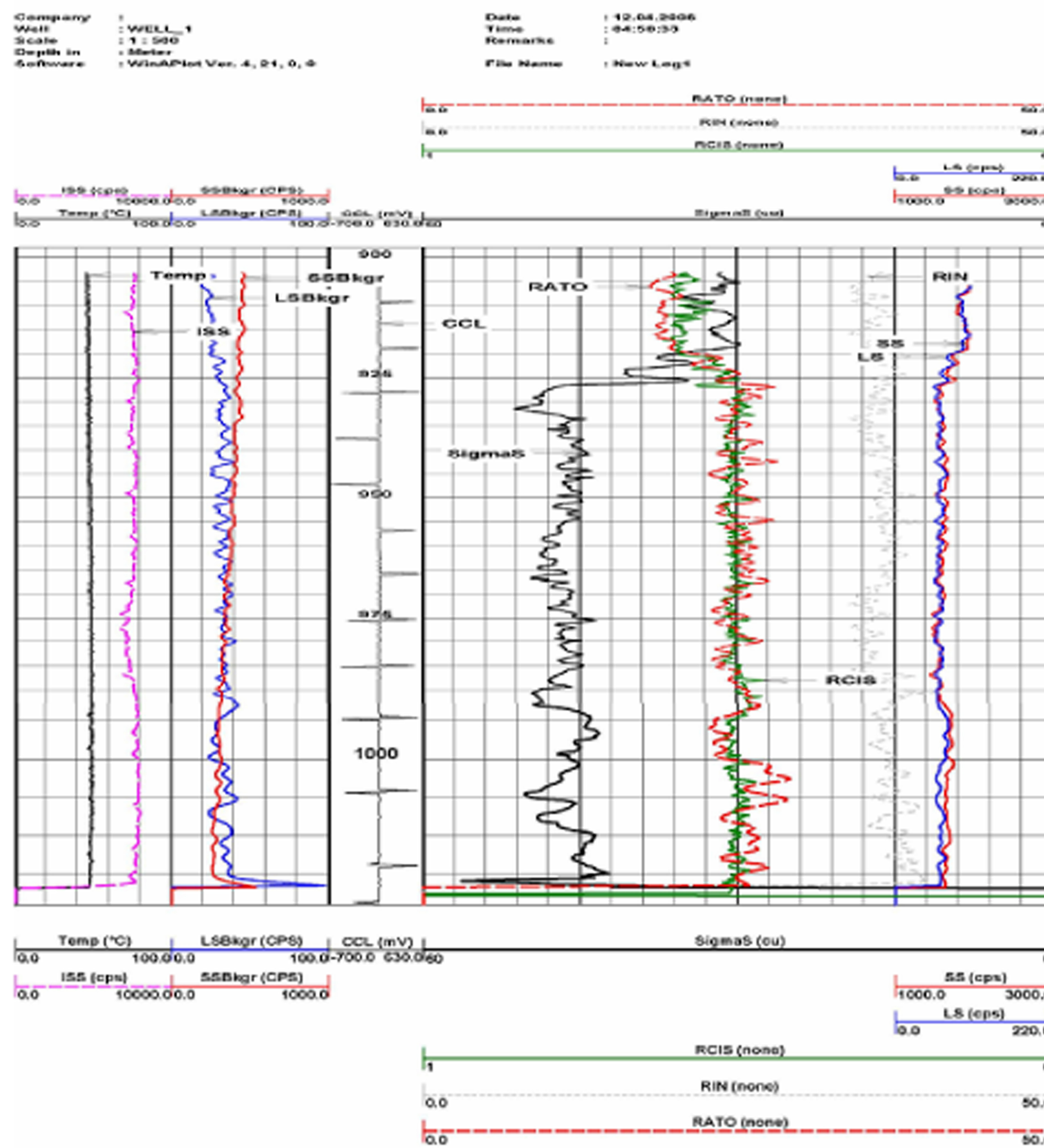
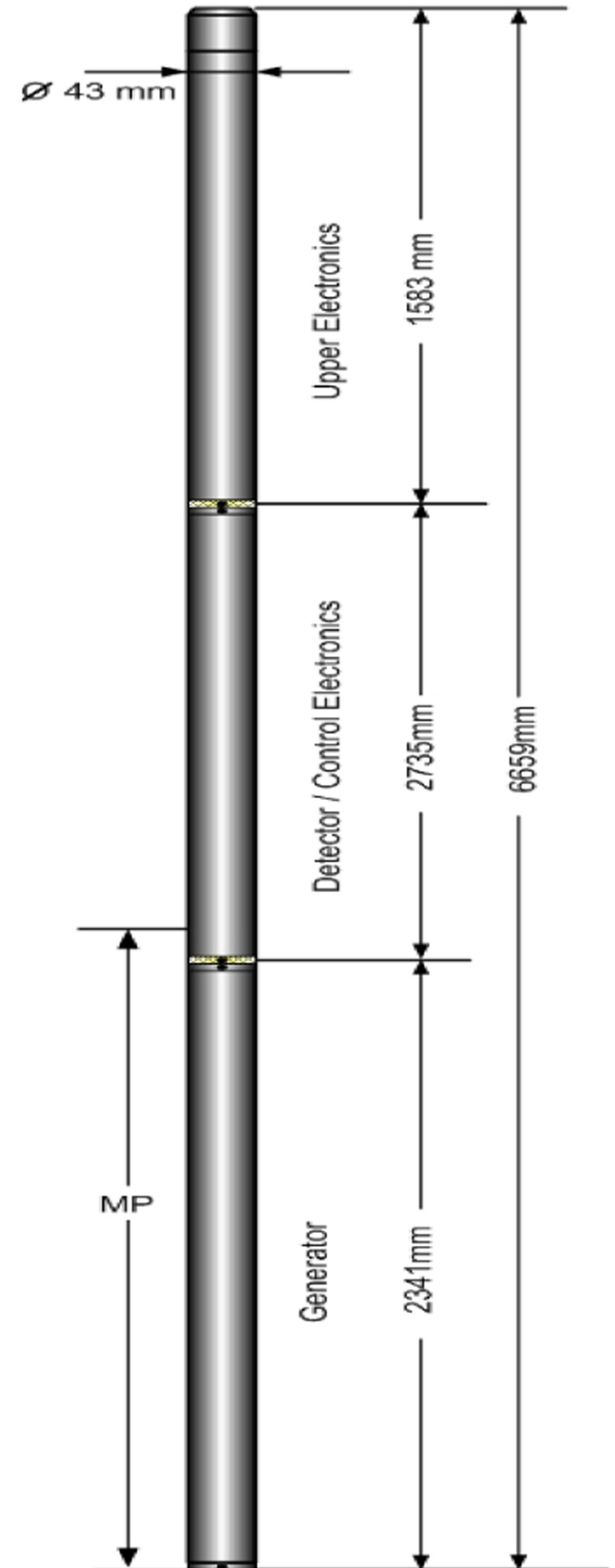


Pulsed Neutron Decay Tool

PND

The ANTARES Pulsed Neutron Decay Instrument contains an advanced neutron generator design and fast efficient gamma ray detectors which help to make this instrument a tool for reservoir saturation that is capable of detailed formation evaluation through casing and much more. Lithology determination, reservoir saturations and Sigma measurements are some of the comprehensive details provided by this multipurpose tool.

It provides borehole formation cross-section in addition to the ratio porosity, for both liquid-filled boreholes. The reservoir monitoring tool separates the borehole and the formation components of the decay in order to improve estimate of sigma formation.



Specification:

Diameter	1.69 inches (43 mm)
Rec. Minimum Hole Diameter	2.75 inches (70 mm)
Rec. Minimum Hole Diameter	118.11 inches (300 mm)
Maximum Temperature	302 °F
Maximum Pressure	14503.77 Psi
Rec. Logging Speed	26.24 ft./min @ 5 samples per m
	13.12 ft./min @ 10 samples per m
Measure Point	8.20 ft.
Source Type	Neutron / Deuterium with Tritium Target
Firing Frequency	1kHz
Neutron output	1x10 ⁸ n/s
Neutron energy	14 MeV
Detector Type:	Nal
Number of Detectors:	2



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