

# FORMATION Density Sonde

## FDS TECHNICAL SPECIFICATIONS

System Requirement	ALT logger
Diameter	50 mm
Length	3.35 m (with source holder)
Weight	30 kg
Max. pressure	200 bars = 2900psi
Max. temp.	70° C
Power supply	80-140 V
Current	45mA
Detectors	NaI(Tl)
Source	Cs <sup>137</sup> 100mCi or 125mCi
Caliper range	60 - 300 mm (caliper extensions possible)
Arm tension	3 -10 kg (depending on caliper)
Logging speeds	5m/min @ 1cm sample rate
Logging Mode	Side-walled

## LOG PARAMETERS

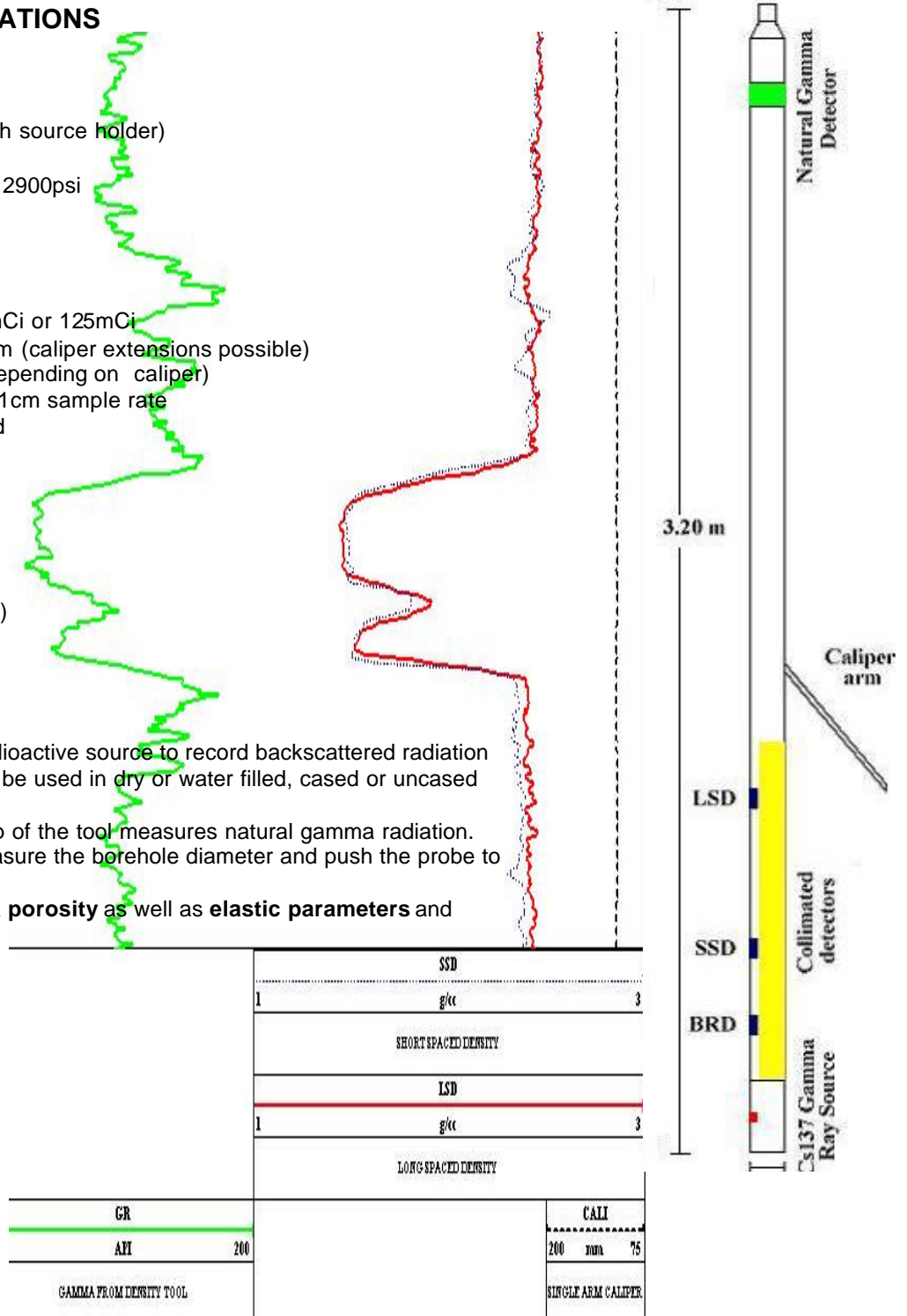
- Natural Gamma Ray (GR)
- Long Spaced Density 48cm (LSD)
- Short Spaced Density 24cm (SSD)
- Bed Resolution Density 14cm (BRD)
- Caliper (CALI)

## APPLICATIONS

The FDS probe employs a Cs<sup>137</sup> radioactive source to record backscattered radiation from the formation. This probe can be used in dry or water filled, cased or uncased wells

A natural gamma detector at the top of the tool measures natural gamma radiation. There is a single arm caliper to measure the borehole diameter and push the probe to the sidewall of the well.

From this probe **bulk density**, **rock porosity** as well as **elastic parameters** and **lithology** can be determined.



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