



FORMATION DENSITY TOOL

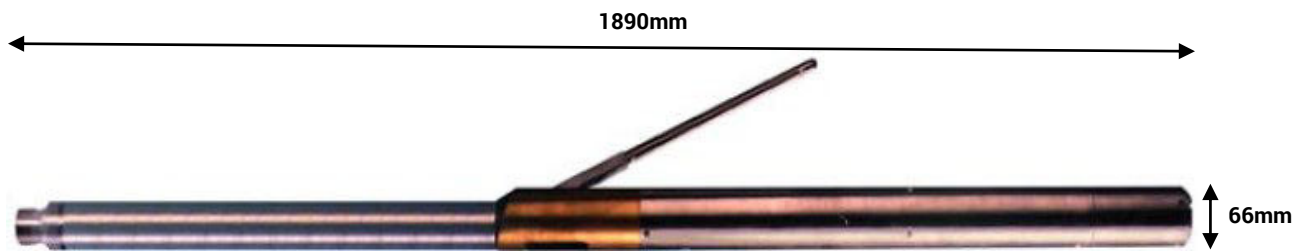
The Formation Density Tool has three collimated detectors at different spacings from a source of gamma radiation. The collimated tool and side-walled running minimise the effects of diameter variations and fluid type. The logs from each detector indicate the apparent density of the formation within a radius of investigation related to the spacings.

The Long Spaced Density has a spacing of 48cm, the High Resolution Density has a spacing of

24cm and the Bed Resolution Density has a spacing of 14cm.

The Bed Resolution Density (BRD) log has high resolution but very shallow penetration (2 - 3cms) and is very responsive to formation changes, diameter variations and borehole construction.

The High Resolution Density (HRD) has a greater penetration than the BRD, up to around 10cms in medium density formations.



Specifications

Size:	1890 x 66mm
Weight:	28kg
Max. temperature:	80°C
Max. pressure:	20MPa

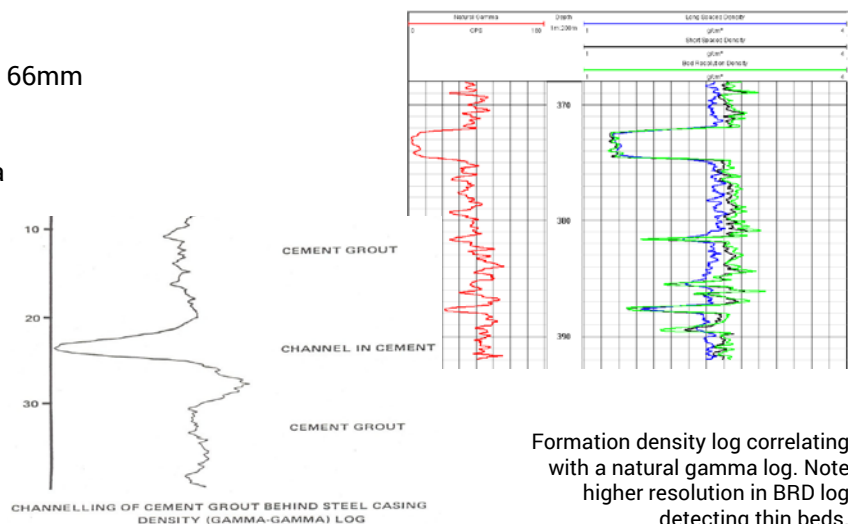
Borehole Conditions

80 - 300mm
Fluid filled or **dry***
Unlined or **lined***

Logging Conditions

2 - 5 m / min
Side-walled

***In dry or lined sections of boreholes, these logs give qualitative information on the density of the material surrounding the tool, the logs are expressed in terms of apparent density in g.cm³.**



Formation density log correlating with a natural gamma log. Note higher resolution in BRD log detecting thin beds.