

Litho-Density Logging (LDT)

RHOB – Bulk Density

Log Name	RHOB
Math notation	ρ_B
Units	g/cc
Sandstone scale	
Carbonate scale	

Density tool is measuring the intensity of gamma radiation at a fixed distance from gamma source which is proportional to electron concentration in the media.

Except few isotops the electron concentration is proportional to the deuteron concentration and hence the concentration of molecular mass which is density of the matter.

The tool readings GG_{log} are normalized on the freshwater tool readings GG_w and termed **bulk density** ρ_B :

(1)
$$\rho_B = \frac{GG_{log}}{GG_w}$$

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PeF – Photoelectric Factor

The photoelectric factor is measuring the gamma radiation in a certain energy spectrum which is characteristic for photo effect gamma scattering and very specific to some molecules in popular minerals.

This helps identify the rock lithology.