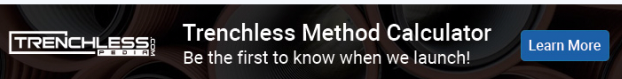


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Dictionary > Drilling Fluid

Pressure Head

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What Does Pressure Head Mean?

Pressure head can be defined as the pressure exerted by a column of fluid on the bottom of a well. It is the depth of fluid that will exert an equivalent pressure.

It is given as the height of the column of fluid and is also called static head. The pressure head can be determined by considering the pressure acting at any point in a static fluid.

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Trenchlesspedia Explains Pressure Head

The hydrostatic law states, that the rate of pressure increase in the vertically downward direction should be equal to the specific weight of the fluid at that point. Pressure head can be given by the formula:

$$Z = p / (\rho g)$$

where, Z – pressure head

p – fluid pressure

ρ – fluid density

g – acceleration due to gravity

Pressure head is a component of hydraulic head and is simply a measurement of the height of the fluid column which can be converted into force per unit area with careful attention to the density of the fluid (ρ) and acceleration due to gravity (g).

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SYNONYMS

Static Head

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