

ILS (In-line Spinner Logging Tool)

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Deployment	Borehole
Log Name	ILS
Math Symbol	f_{ILS}
Measured Property	Fluid flow velocity along the tool
Sensor Type	Mechanical Spinner
Units	
SI	Hz
Oil Metric	RPM = 60 Hz
Oil Field	RPM = 60 Hz

Applications

- Assesing donwhole flowrate

Sample Logs

Tool Schematic

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Mathematical Model

$$f_{ILS} = S_{\text{slope}} \cdot (v - v_{th})$$

where S_{slope} is some constant depending on tool construction and well completion , v_{th} a critical value of the flow speed which can initiate spinner rotation, v – flow velocity.