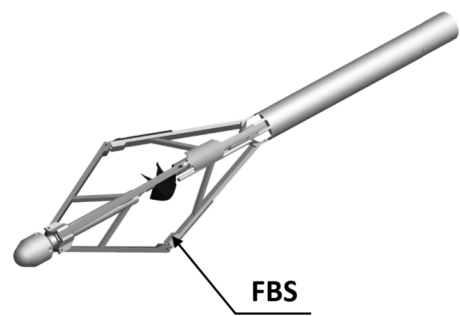


FBS (Fullbore Spinner Logging Tool)

Deployment	Borehole
Log Name	FBS
Math Symbol	f_{FBS}
Measured Property	Fluid flow velocity across spinner area
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

[blocked URL](#)

Mathematical Model

$$\begin{aligned} f_{FBS}^+(z) &= S_{\text{slope}}^+ \cdot (v_{\text{FLOW}}(z) - v_{LSPD}^+(z) - v_{th}^+) \\ f_{FBS}^-(z) &= S_{\text{slope}}^- \cdot (v_{\text{FLOW}}(z) - v_{LSPD}^-(z) - v_{th}^-) \end{aligned}$$

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.

