VIVID[®] Sand Sand detection and quantification

Ultra-Sensitive Acoustic Listening Platform. A carefully chosen sensor is paired with specially designed electronics to separate fluid flow from solid particles in a flowing environment. Unrivalled sensitivity and selective energy filtering means that both axial flow and radial in-flow containing sand can be reliably detected.

Benefits

- Reliably separates flow-induced noise from sand particle impact
- Complex zonal evaluation of produced sandSand ingress quantification, supporting
- production efficiency

Features

- Detailed analysis of downhole fluid movement
- High-speed sampling rate with 220 FFT/sec per sensor
- Shorter stations durations
- Memory and real-time acquisition
- Interactive sprectrum and curve data
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 Integrated accelerometer sensor, effectively
- eliminating noise during stations

Typical Applications

- Sand ingress localisation
- Sand control analysis
- 4 phase PLT analysis
- Maximum sand-free rate determination
- Produced versus transported sand analysis

Specifications

Sensors

Sensors	
Туре	Passive acoustic
Number	1
Frequency range	<1 kHz - > 656 kHz
Data structure	
Energy histogram bins per threshold	82
Statistical parameters (Per frequency channel)	Time-filtered noise Mean noise Transient
Total channels	366
Data acquisition	
Logging modes	Dynamic/Stationary Realtime/Memory
Physical	
OD	1-11/16" (43mm)
Length	29.3" (745mm)
Weight	10.8lb (2.9kg)
Environmental	
Temperature	350°F [177°C]
Pressure	15,000 psi [1 034 bar

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