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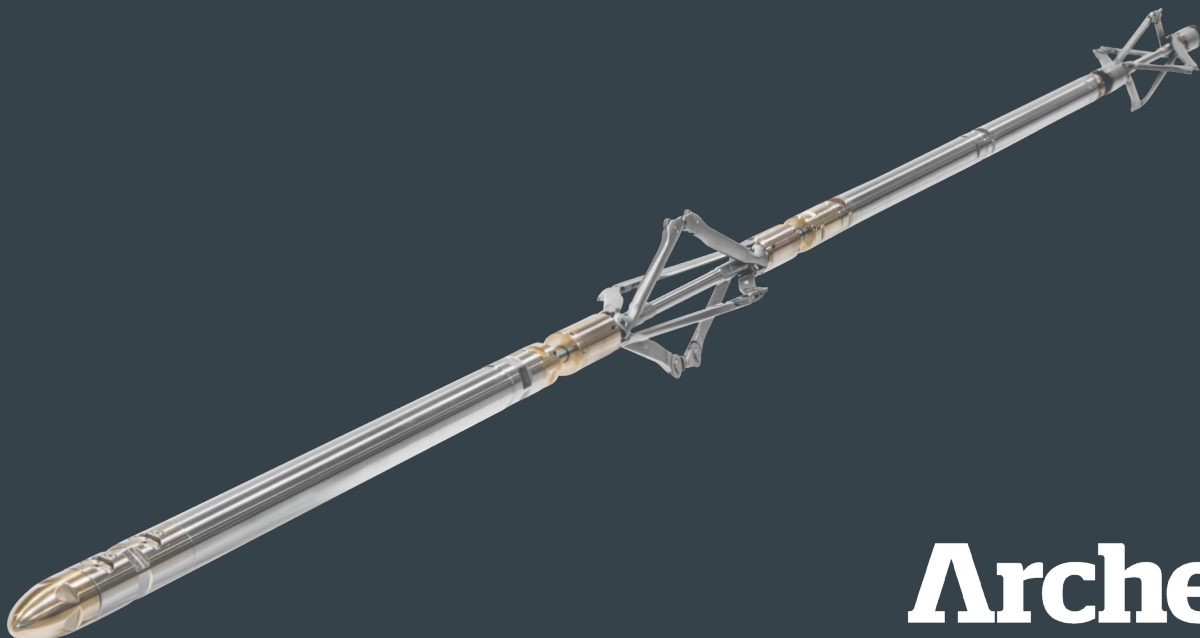
Archer
VIVID®

Progressive - Perceptive - Assured

VIVID® Seal

Designed to set new standards in acoustic sensitivity, VIVID Seal is optimised to detect the smallest of fluid movements downhole. High-speed sampling allows statistical parameter analysis over a broad frequency range, with greater resolution at low frequency.

- Measure cement sealing quality
- Gauge flows, even in the presence of cement micro-annuli
- Describe minimum flow levels through a cement barrier
- Verify cement barrier integrity for P&A
- Reduce emissions by rig-time and scope reduction during P&A



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Extreme low-flow evaluation

Intensive development of the industry leading VIVID Acoustic Listening Platform has resulted in a sensor of unmatched sensitivity in perfect balance with analogue and digital electronics to lower the detection threshold to previously impossible levels. Optimised for low-energy, low-frequency acoustic events, VIVID Seal maps both gas and liquid annular flows, even in very low quantities, from within production tubing.

Applications

- Cement barrier performance evaluation
- Micro-annulus flow detection
- P&A planning diagnostic
- Post P&A barrier verification
- Cross-flow detection behind multiple barriers
- Out-of zone water injection

Specifications	
Sensors	
Type	Passive acoustic
Number	1
Frequency range	<1 kHz - 223 kHz
Data structure	
Discrete frequency channels	82
Statistical parameters (Per channel)	Time-filtered noise Mean noise Transient
Total channels	246
Data acquisition	
Logging mode	Stationary readings 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]

