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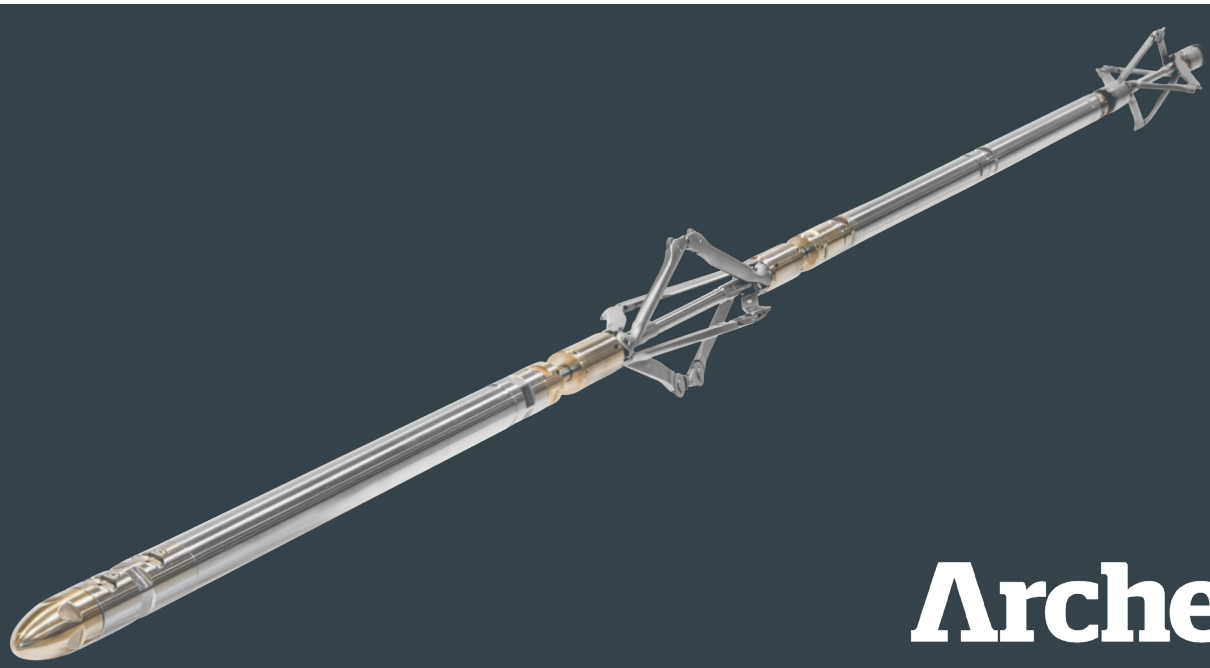
VIVID®

Progressive - Perceptive - Assured

VIVID® Sand

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

- Detect and discriminate between flow induced and sand impact noise
- Evaluate sand production in complex completions
- Evaluate relative sand production and inflow profiles
- Combinable with standard PLT for a genuine 4-Phase interpretation



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VIVID® Sand

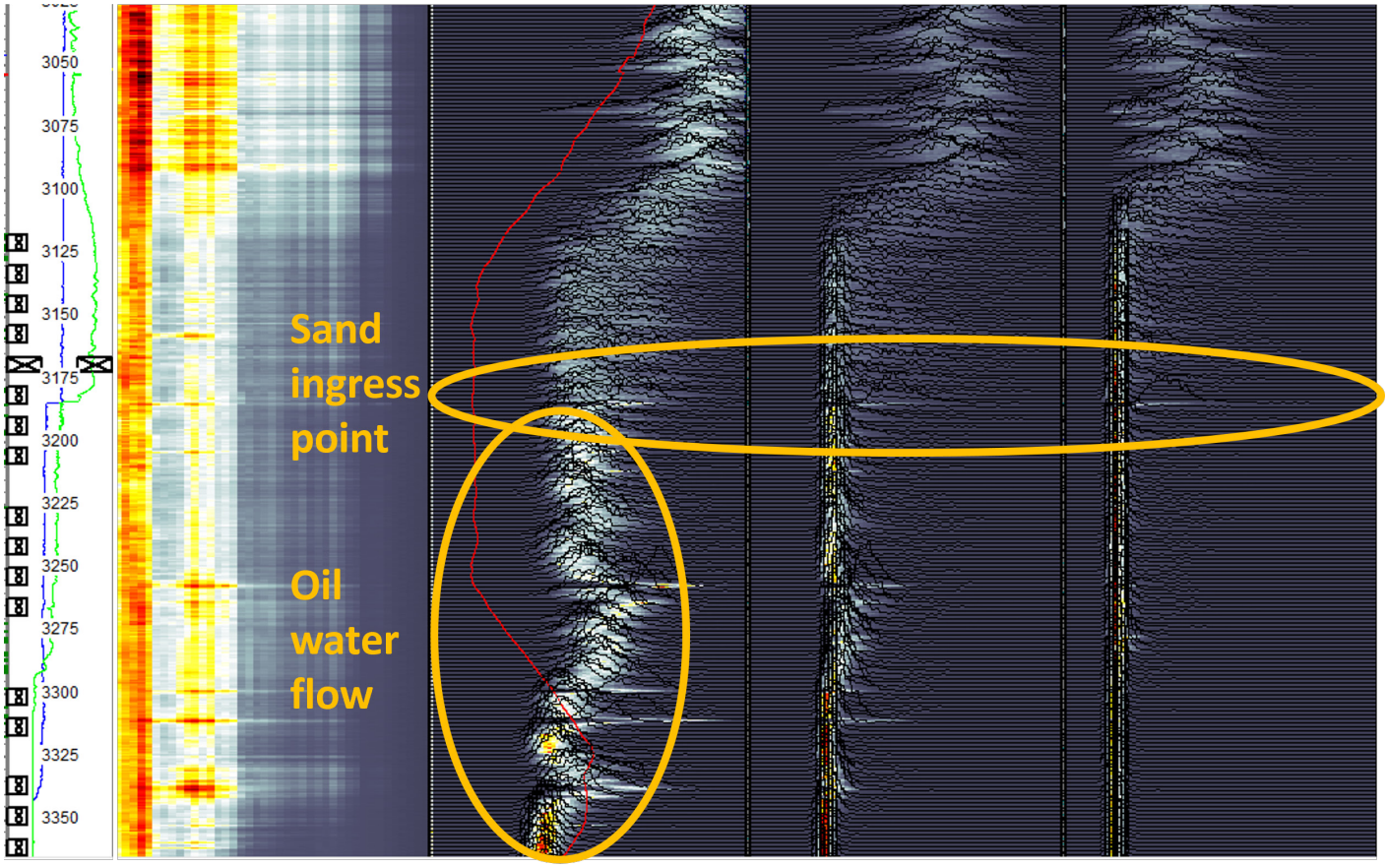
Add another phase to PLT

Traditional methods of acoustic sand detection involve high frequency thresholding to identify sand strikes. VIVID Sand uses high speed sampling to enhance this response, but in parallel uses time-domain analysis to add histogram analysis of total impact energy to give relative mass flow rates.

Applications

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

Specifications	
Sensors	
Type	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 Length Weight	1-11/16" (43mm) 29.3" (745mm) 10.8lb (2.9kg)
Environmental	
Temperature Pressure	350°F [177°C] 15,000 psi [1 034 bar]



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