

PRODUCT SPEC SHEET

VULCAN™ FLS 1.44

Scientific Drilling's Vulcan™ FLS (Flow Logging System) 1.44 is the slimmest, flasked, full function production logging tool in the industry.

This high temperature system offers the following sensors:

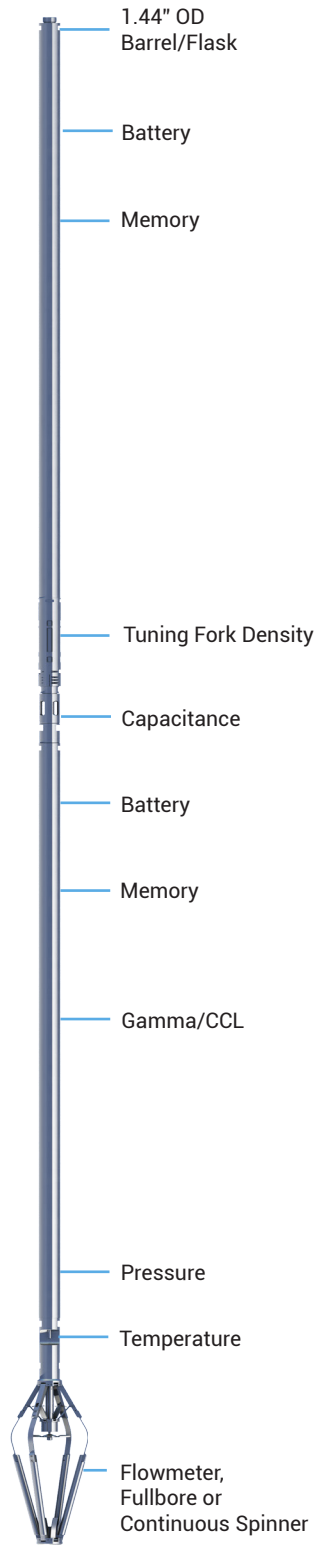
- Casing Collar Locator (CCL)
- Gamma Ray
- Pressure
- Temperature
- Spinner Flowmeter
- Fluid Capacitance
- Nuclear Fluid Density
- Tuning Fork Density

DELIVERING THE ULTIMATE VALUE

- Pressure control is simplified and safer in slickline operations
- Compact tool-strings allow deployment in height-restricted areas
- Slim tools maneuver down difficult wells easier
- Only high temperature density tool available

TARGET APPLICATIONS

- Flow profiling with single or up to 3 phase fluids
- Measures density for steam quality and gas fluid holdups
- Leak detection



TECHNICAL SPECIFICATIONS		
Pressure Rating	16,000 psi (110, 316 kPa)	
Temperature Rating*	600°F (315°C)	
Fullbore Spinner Resolution Type Casing sizes	Minimum 0.1 rps with direction 4-Arm / 6-Arm 5", 7" and 9 5/8"	
Continuous Spinner Resolution Outer Diameter Range	Minimum 0.1 rps with direction 1.5 - 3.5 in	
Accuracy Resolution	±1.8°F (1°C) 0.02°F (0.01°C)	
Pressure Accuracy Resolution	±3.0 psi (20.7 kPa) 0.01 psi (0.07 kPa)	
Memory	Non-volatile, 48 MB	
Spinner Resolution	Minimum 0.1 rps with direction	
Gamma Ray	Scint – Na I 5/8 in (1.6 cm) diameter x 3 in (7.6 cm) long crystal	
Casing Collar Locator (CCL)	50 samples per second	
Nuclear Fluid Density Accuracy / Resolution	0.03 g/cc ± 0.01 g/cc	
Tuning Fork Density Accuracy / Resolution	0.001 g/cc ± 0.003 g/cc	
Capacitance - Typical Frequency Range	Hydrocarbon 45-75 kHz	Water 25-35 kHz
Outer Diameter	1.44 in (3.6 cm)	

*Maximum temperature rating dependent on run duration.

**Specifications are subject to change without notice.