Technical Specification Sheet

Reservoir Analysis Sonde Sigma (RAS003) - $1^{11}/_{16}$ In.

The RAS003 is a multi-detector pulsed neutron tool for measuring reservoir saturation using Sigma techniques. The sonde features an array of three Sodium Iodide (NaI) detectors. The Sigma measurement is based on the near and far spacings, the long spacing is sensitive to porosity and gas saturation.

The tool also operates in Oxygen Activation mode to determine water phase velocity (Water-Flow mode) and can be combined with up to four Gamma Ray-CCL (GCL) tools for this application.

The RAS003 is an HD platform tool, and as such can be run in combination with other HD tools such as Spectral Gamma, RADii, ProMAC and Production Logging tools.

Ratings & Dimensions

Diameter	1.69 in (43.0 mm)
Length	140.7 in (3573.0 mm)
Weight	51.0 lb (23.0 kg)
Max temperature	320°F (160°C)
Max pressure	15,000 psi (103.4 mPa)
Measure Points	Near: 80.0 in (2032.0 mm)
	Far: 87.0 in (2210.0 mm)
	Long: 95.0 in (2413.0 mm)
Materials	Corrosion resistant materials used throughout

Hardware Characteristics

Source Type	3 detector array	
Sensor Type	Sodium Iodide (NaI) detectors	
Acquisition Mode	Real-time with TCU	Memory with MLT

Measurements

Type	Sigma, Oxygen Activation, Inelastic Gas

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