Technical Specification Sheet

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

The Reservoir Analysis Sonde (RAS002), is a multi-detector pulsed-neutron system for measuring reservoir saturation using Sigma and Carbon-Oxygen techniques. The sonde features three gamma detectors, the near and the far are high resolution Lanthanum Chloride detectors for Sigma and C/O, the long spacing is a Sodium Iodide detector with a spacing that is sensitive to gas and porosity.

The tool can simultaneously measure Sigma and C/O using a mixed firing pattern for the neutron generator. Reservoir Geoscience support is available to map the measurements into reservoir properties such as oil saturation, porosity and rock type.

Operating on Probe's fast tool bus the RAS002 can be run in combination with any HD product.

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 that includes time and energy spectra	
Sensor Type	High-resolution Lanthanum Chloride	
Acquisition Mode	Real-time with TCU	Memory with MLT

Measurements

Type	Sigma, C/O, Oxygen Activation, Inelastic Gas

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