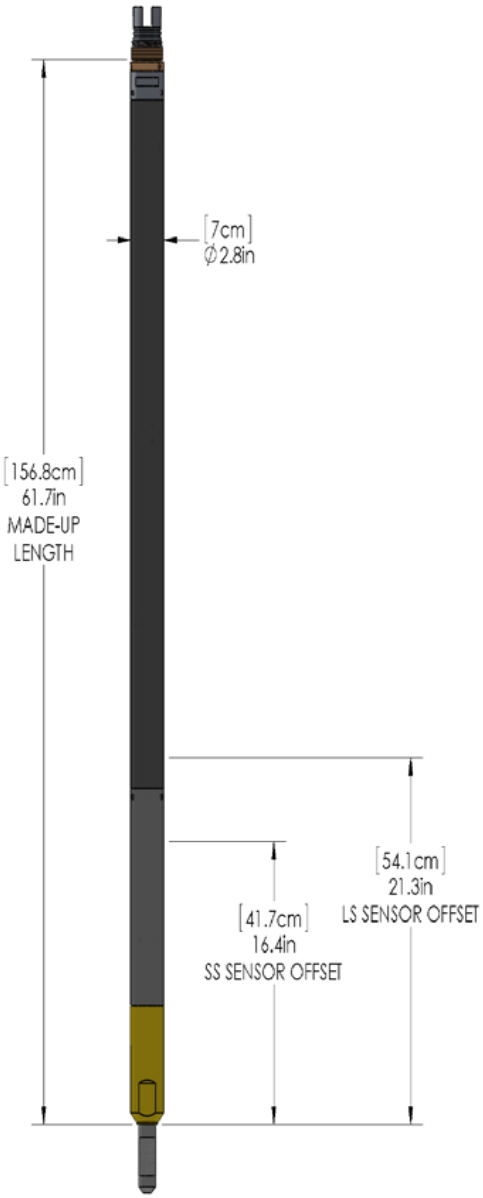
Technical Specification Sheet

Compensated Neutron Tool - 2 3/4 in.



Ratings & Dimensions

Max Temperature	350°F (177°C) for 4 hours
Maximum Pressure	20,000 psi (138 MPa)
Outer Diameter	2.75 in (69.9 mm)
Length	61.68 in (1566.67 mm)
Weight	60 lb. (27.2 kg)
Min Csg/Tbg OD	4.5 in (115.0 mm)
Max Csg/Tbg OD	9.63 in (244.60 mm)
Tensile Strength[1]	**Tension:** 15,000 lb **Compression:** 15,000 lb **Torque:**150 ft-lb
Measure Points	**Near Detector (SS):** 16.32 in (414.53 mm) **Far Detector (LS):** 21.36 in (542.54 mm)

Borehole Conditions

Borehole Fluids	Salt, Fresh and Oil
Logging Speed	**Recommended:** 35 ft/min (10.0 m/min) **Maximum:** 60 ft/min (18.2 m/min)
Tool Positioning	Centralized | Eccentralized

Hardware Characteristics

Source Type	15 Curie Am^{241} Be Neutron Emitter
Sensor Type	One He^3 Gas Detector Tube each
Sensor Spacing	**Near Detector (SS):** 17.5 in (444.5 cm) **Far Detector (LS):** 27.5 in (698.5 cm)
Transmission Rate	20 frames /sec
Waveform	Digital Telemetry Data
Combinability	GR, CCL (Required), RADii CBT, Digital CBT

Measurements

Type	Neutron Porosity
Principle	Ratiometric Thermal Neutron Detection
Range	-3 to 60 porosity units
Vertical Resolution	Approximately 10 in (254 mm)
Depth of Invest.	Porosity dependent, 12 in or less (304.8 mm or less)
Accuracy (1SD)	± 2%
Primary Curves	Neutron API Units | Near & Far Detector Count Rates
Secondary Curves	Detector Count Rate Ratio

Calibration

Primary	University of Houston API Neutron Pit
Secondary	Neutron Calibration Tank
Wellsite Verifier	350 µCi Active Verifier

[1]Strengths apply to new tools at 70°F (21°C) and 0 psi.
* This tool must be run in conjunction with a 2.75 in Digital Gamma Ray tool. It cannot be run alone.

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