Technical Specification Sheet

Noise Survey Tool - 1 3/8 in.

The Noise Survey Tool is an analog output instrument designed to “listen” to downhole noise ranging from 200Hz to 6kHz. The tool has a 2 stage gain; high gain mode at 50 volts and low gain mode at 70 volts. The NST is a valuable aid for detecting noise caused by small gas leaks caused as bubbles percolate through the wellbore liquid, as well as turbulent flow caused by fluids flowing through tight restrictions in the well, or behind casing through cement or formation channeling.

Ratings & Dimensions

Max Temperature	350°F (177°C)
Maximum Pressure	20,000 psi (138 MPa)
Outer Diameter	1.38 in (35.1 mm)
Length	3.8 ft (1158.24 mm)
Weight	8.0 lb (3.64 kg)
Min Csg/Tbg OD:	2.38 in (60.45 mm)
Max Csg/Tbg OD:	20.0 in (508.0 mm)
Measure Point	Acoustic Noise Signal: 8.76 in (222.5 mm)

Borehole Conditions

Borehole Fluids	Salt, Fresh and Oil
Tool Positioning	Centralized & Eccentralized
Logging Speed	Stationary

Hardware Characteristics

Sensor Type	Stacked Piezoelectric Crystals
Transmission Type	Analog Audio
Sample Rate	Continuous Analog
Audio Range	Full Spectrum Audio
Combinability	Temperature | Casing Collar Locator

Measurements

Principle	Acoustic Noise
Range	1 to 2000 mV
Primary Curves*	200 Hz, 600 Hz, 1kHz, 2kHz, 4kHz, 6kHz
Secondary Curves	None

*Curves are surface generated. Outputs based upon Warrior™ systems.

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