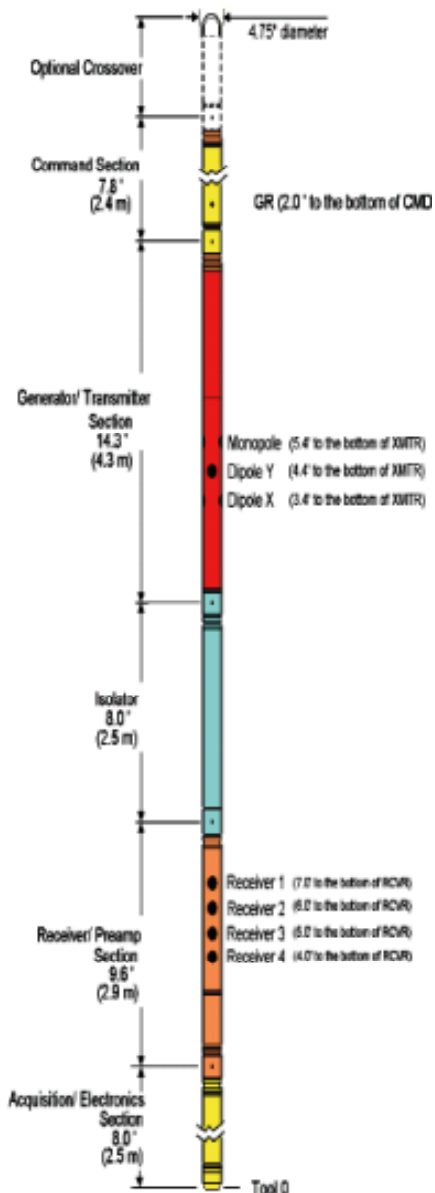


## XACT Full Waveform Acoustic



The XACT\* Dipole Sonic Tool brings a greatly increased level of performance and accuracy to full-waveform acoustic logging. A new acoustic source provides ample reserve for obtaining accurate, high resolution acoustic data in **soft formations** and **cased holes**. A new receiver system provides separate, calibrated measurements from four sides of the tool, and new processing algorithms deliver accurate **compressional** and **shear wave** even in very difficult borehole conditions.

### Applications

Open and cased hole full wave acoustic data measuring shear, compressional and Stoneley velocities

Seismic support (modelling time-depth conversion, AVO, synthetic seismograms)

Mechanical properties of the rocks

Formation evaluation

- Shear based porosity
- Water saturation (Sw)
- Gas identification

\*XACT is a trademark of Magnetic Pulse Incorporated

### SPECIFICATIONS

**Length:** 52.0 ft / 15,9 m

**Max. OD:** 4.75 in / 121 mm

**Min. hole size:** 5.25 in / 133 mm

**Max. Hole size:** 25.0 in / 635 mm

**Pressure:** 16,000 psi / 110,300 kPa

**Temperature:** 300°F / 149°C

**Logging speed:** 600-1800 ft/hr / 3.0-9.0m/min

**Transmitters :** Monopole/Dipole (Dx, Dy)

**Monopoly frequency:** 1 to kHz (center 1.5 kHz)

**Dipole Frequency:** 0.5 to kHz (center 1.0 kHz)

**Receivers:** 4 sets of matched piezo-hydrophones with 1 foot spacing

**Source strength:** 50 psi ..... 345 kPa