

Figure 3. Wireline logging tool strings used in Expedition 319. **A.** Environmental Measurement Sonde (EMS)–High-Resolution Laterolog Array (HRLA)–Platform Express (PEX)–gamma ray (GR). HGNS = Highly Integrated Gamma Ray Neutron Sonde, PEF = photoelectric effect, HRMS = High-Resolution Mechanical Sonde. **B.** Formation Microlmager (FMI)-Hostile Natural Gamma Ray Spectrometry Cartridge (HNGC)-Sonic Scanner-EMS-Power Positioning Device and Caliper Tool (PPC). **C.** Modular Formation Dynamics Tester (MDT)-GR. **D.** Junk basket. CCL = casing-collar log. **E.** Walkaway and zero-offset vertical seismic profile (VSP). Each shuttle connected by wireline. VSI = Versatile Seismic Imager.

