

Geophysical Equipment

Borehole Resistivity System

The Keck Borehole Resistivity System is a rugged, portable, hand-operated downhole logger which measures both apparent resistivity and the natural spontaneous potential (SP). Applications include mineral exploration, subsurface mapping (isopachs), locating fresh and salt-water bearing information: Lithologic and structural correlation between wells, and well construction.

FEATURES

- Measures both resistivity and self-potential (SP)
- Resistivity is read in a range of 0-10,000 ohm-feet
- Self-potential is read in a range of 1-1,000 millivolts, positive or negative
- Battery powered readout instrument, and indicator for resistivity and SP in a rugged water tight case
- 500ft of four-conductor downhole logging cable mounted on a portable hand reel
- 1" diameter probe assembly
- Two-single conductor insulated surface lines on storage reels.



Keck Borehole Resistivity System

1 = Downhole type, 2 = Surface Type, 3 = Probe Assembly

SPECIFICATIONS

INSTRUMENT

Current: 9 milliamps
Resistivity: DC, null-reading meter; 0-10,000 ohm-feet readable within $\pm 0.10\%$ full scale.
Self potential: Range, 0-1,000 millivolts, positive or negative
Batteries: Six 9-volt transistor batteries; one C-cell battery
Dimensions: 7" x 16" x 12"
Weight: 13lbs.

CABLE

Surface Type: Two single conductor insulated wires with connectors on cable storage reel
Dimensions: 50ft long (ea.)
Net Weight: 2.5 lbs.

Downhole type: 4-conductor, 1/4" diameter, 500ft long
Reel: Powder coated steel
Dimensions: 13" x 12" x 15"
Weight: 30 lbs.

PROBE ASSEMBLY

Type: One 1" diameter current electrode and three potential electrodes mounted on 15ft of cable with waterproof in-line connector for attaching to logging cable
Weight: 1.5lbs
System weight: 47lbs

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