



HYDROPHYSICAL LOGGING (HpL)

The most accurate and versatile flow-logging technique available, Hydrophysical Logging (HpL) can evaluate the vertical distribution of flow, permeability and water-quality in any hydrogeologic environment.

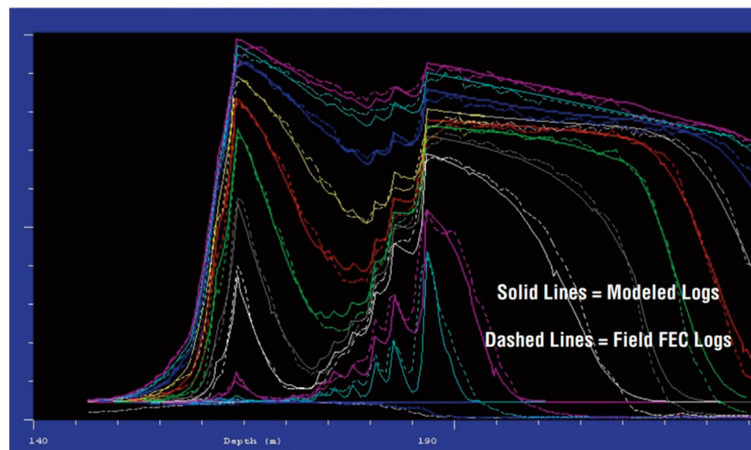
Hydrophysics uses environmentally safe de-ionized water (DI water) to contrast with and identify groundwater entering a borehole or well under ambient or pumping conditions. The technique is applicable for use in high and low-flow environments (from 0.001-3,000 gpm) alluvial wells and fractured open boreholes, shallow, deep and angled boreholes, fresh or brine aquifers.

Enhanced data processing can model upflow, downflow and horizontal flow using powerful, versatile code developed by Lawrence Berkeley Labs specifically for hydrophysical logging.

APPLICATIONS:

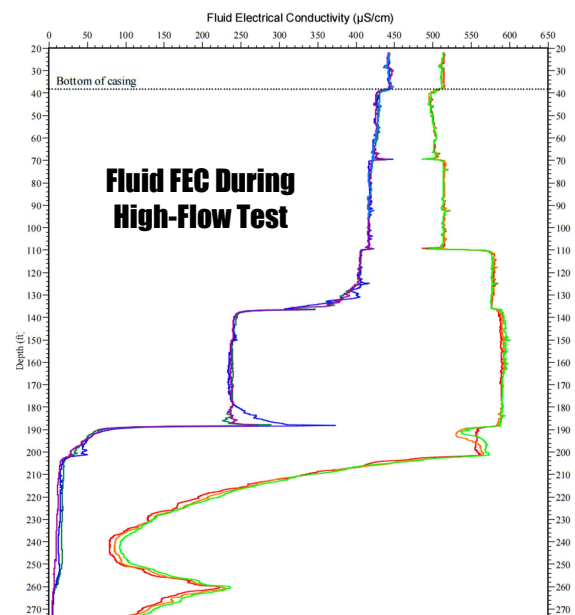
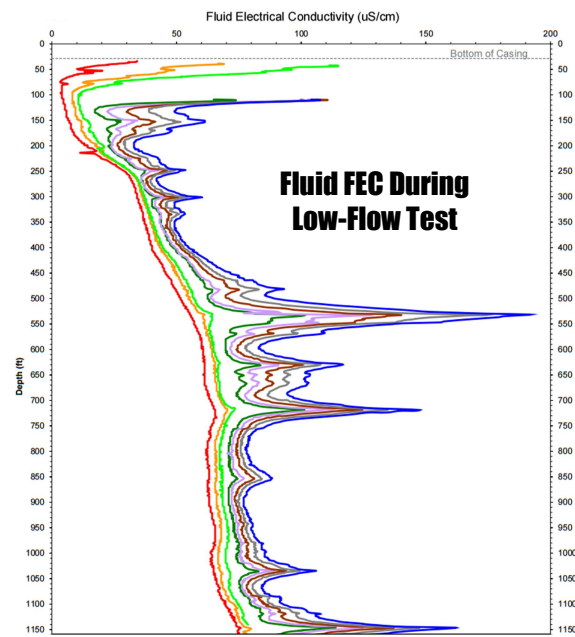
- + Aquifer Testing / Dewatering Studies
- + Fracture-Flow Characterization
- + Horizontal and/or Vertical Flow Evaluations
- + Environmental Monitoring / Plume Characterization
- + Water Supply Studies

Comparison of Modeled FEC Logs to Field FEC Logs



PROBE SPECIFICATIONS:

Diameter:	38 mm (1.5 in.)
Length:	1.00 m (3.3 ft.)
Max Temperature Rating:	70°C (158°F)
Max Pressure Rating:	138 bar (2000 psi)
Parameters Measured:	Fluid Conductivity (FEC), Fluid Temperature
Logging Speed:	10 – 60 ft./min.
Borehole Diameter Range:	51 – 610 mm (2.0 – 24 in.)



COLOG Regional Offices

corporate office
833 Hog Back Drive
Golden, Colorado 80403
303-279-0171

southeast region
Ocean Springs, MS
256-424-5780

western region
Elko, NV
775-777-3433

southwest region
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480-236-6815

northeast region
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www.colog.com