

COREHOLE DYNAMIC FLOWMETER™ (CDFM™)

The Corehole Dynamic Flowmeter™ (CDFM™) is based on Faraday's Law of Induction to measure fluid flow rates, fluid conductivity and temperature in open boreholes or screened wells. The probe is easily deployed to depths up to 6,000 feet (4,000 feet of water pressure max) and can rapidly test a 2,000-foot saturated section of corehole for fracture-specific flow rates under both ambient and stressed conditions in less than 12 hours. The CDFM™ provides fracture-specific permeabilities and fracture-specific head (water level) replacing the need for packer testing for hydraulics, at a fraction of the cost and time.

The CDFM™ uses an electromagnet and two electrodes positioned 90 degrees with respect to the magnetic field. The electrodes are situated 180 degrees from each other surrounding a hollow 1-inch cylinder.

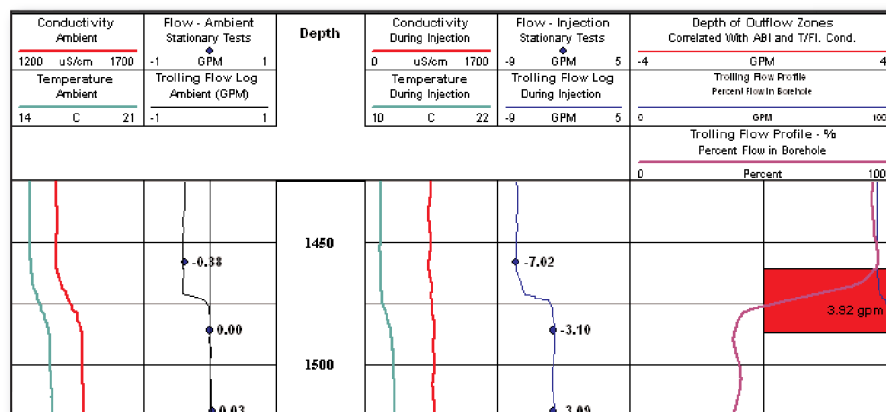
APPLICATIONS:

- + Mining/dewatering studies
- + Fracture flow and permeability
- + Water level in fractures
- + Environmental studies
- + Specific flow from aquifers for municipal water wells

PROBE SPECIFICATIONS:

Sensor	Range	Accuracy
Flow Sensor	With Diverter: 0.01 gpm - 10 gpm No Diverter: 0.2 fpm - 250 fpm	+/-0.004 gpm +/-0.08 fpm (low end only)
Fluid Conductivity	100 - 100,000 μ S/cm	+/-5%
Fluid Temperature	0°C to 60°C	+/-5%

Diameter: Body: 41.3 mm (1.63 in.) Sensor Housing: 50.8 mm (2.0 in.)
Length: 142 cm (56.0 in.)
Max Operating Temperature: 60°C (140°F)



Example section of CDFM logs acquired during constant-rate injection at 800 feet at 7.56 gpm in an HQ-diameter corehole approximately 2,000 feet deep.



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