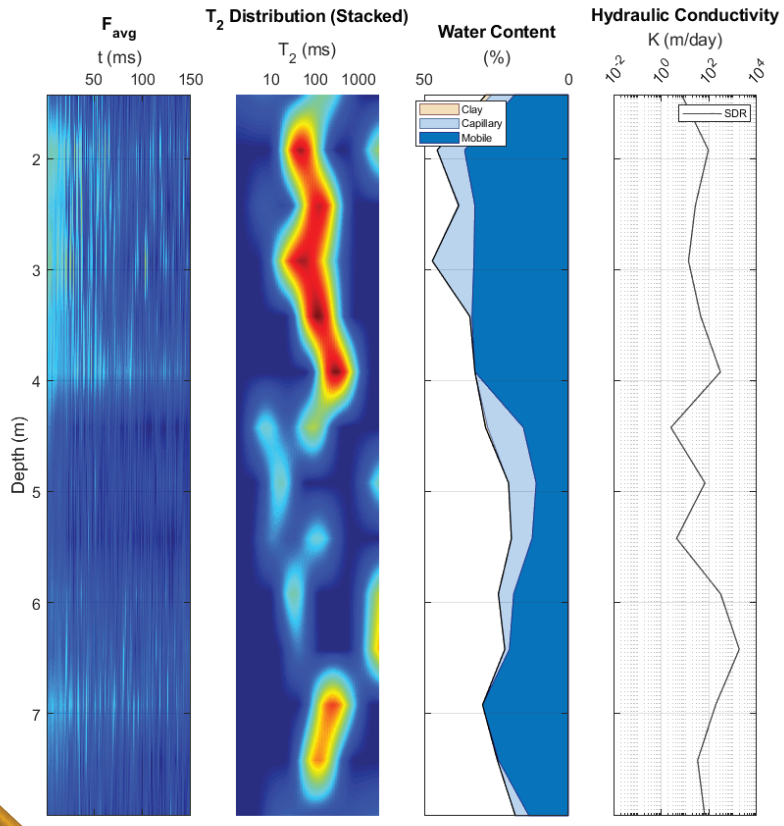
Javelin Micro

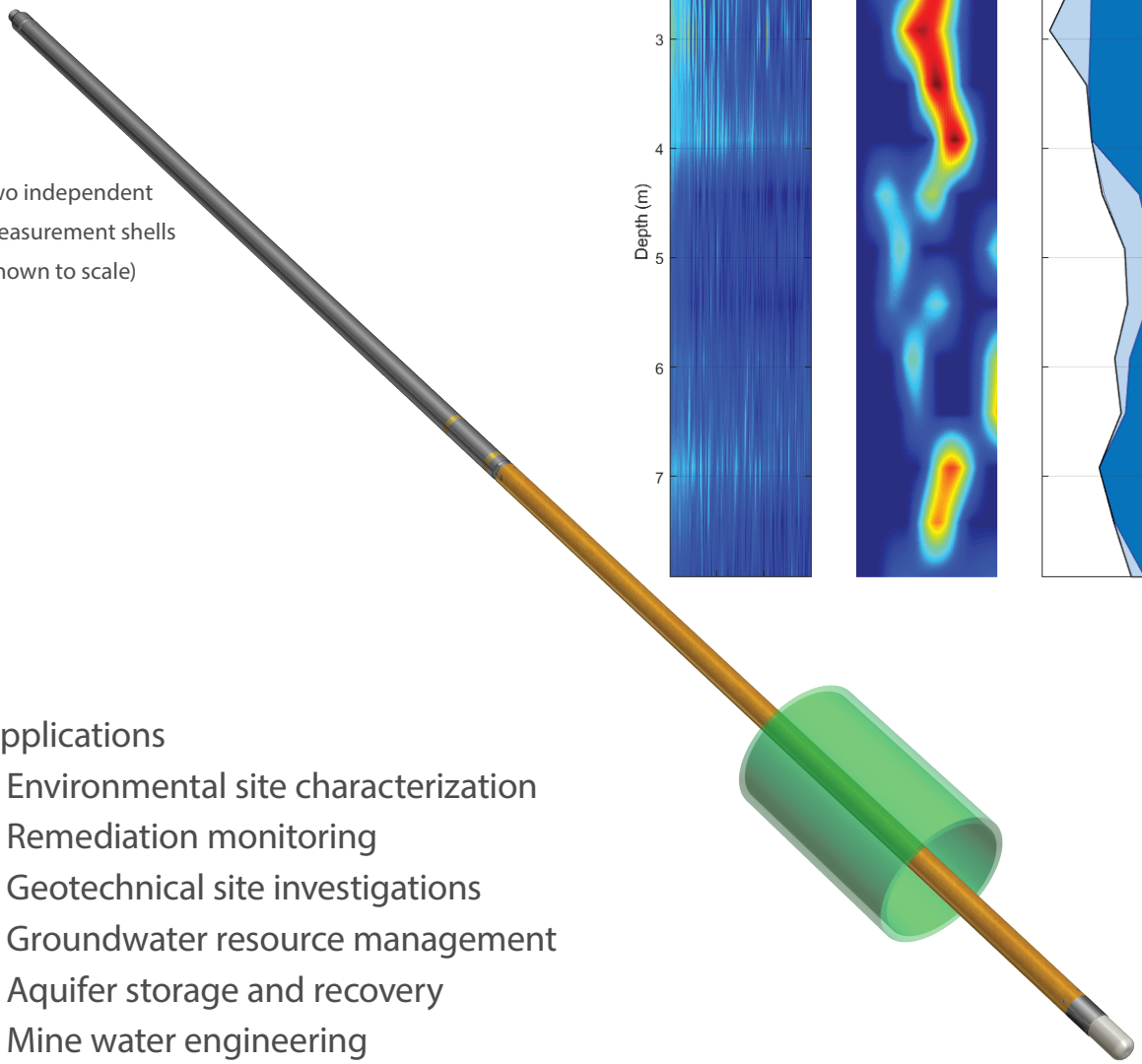
Ultra Small-Diameter Magnetic Resonance Wireline Logging

For professional geophysical logging operators

With a 1.75in (44mm) diameter, Javelin Micro is the world's first wireline NMR tool capable of logging 2in ID PVC cased boreholes. Javelin Micro provides high-resolution, continuous measurements of principal aquifer properties for groundwater and environmental investigations:

- Porosity
  - Bound and mobile water content
    - Pore size distribution
      - Hydraulic conductivity





Two independent measurement shells (shown to scale)

Applications

- Environmental site characterization
- Remediation monitoring
- Geotechnical site investigations
- Groundwater resource management
- Aquifer storage and recovery
- Mine water engineering
- Brine and leach mining

Javelin® Micro Magnetic Resonance Logging Tool

FEATURES

Probe

- World's smallest diameter NMR logging probe for wireline.
- 1.75in allows for logging in 2in diameter PVC wells common in environmental remediation.

Widest Diameter of Investigation

- Large Diameter of Investigation
- Measures properties of native formation past the disturbed zone

Multiple Depths of Investigation

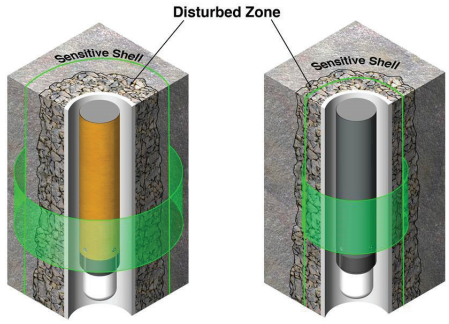
- Two independent measurement shells measured at different diameters of investigation during a single logging run
- Provides increased signal to noise ratio, ability to assess radial variability due to washout and mud invasion, and improved immunity to radiofrequency noise

Industry-Standard Wireline Compatibility

- Operation on 4-conductor or 7-conductor wireline cable ensures seamless integration with existing logging operations

Flexible Surface Station

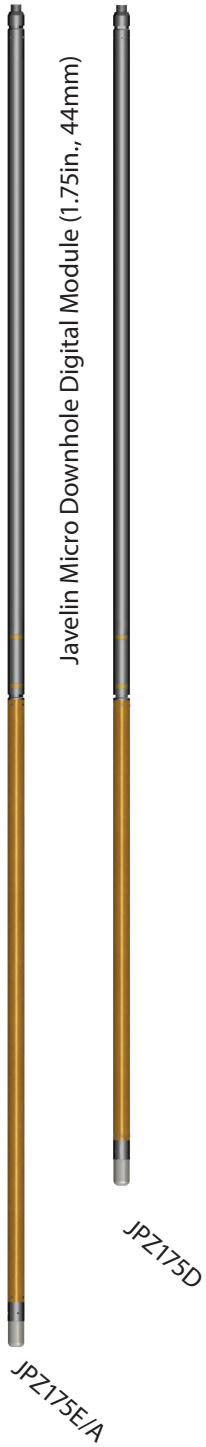
- The Javelin® surface station provides tool power, tool control, telemetry, depth counter, tension display. and interface to PC. It works with all Javelin® Max, Slim and Micro tools.



Javelin deep-view sensitivity

Unusable data without deep-view

Surface Station is available as a rackmount unit (4U) or housed in a compact, shock-mounted case.



SPECIFICATIONS

Javelin Probe	JPZ175E	JPZ175A	JPZ175D
Diameter:	1.75in (44mm)	1.75in (44mm)	1.75in (44mm)
Length:	69in (175cm)	69in (175cm)	52in (132cm)
Weight:	14.5lb (6.6kg)	15.5lb (7.0kg)	11lb (5.0kg)
Pressure Rating:	830 PSI	1700 PSI	1700 PSI
Sensitive Diameters:	F_1: 9in (23cm) F_2: 10in (25cm)	F_1: 7in (18cm) F_2: 8in (20cm)	F1: 5in (13cm) F2: 6in (15cm)
Vertical Resolution:	15in (38cm)	15in (38cm)	6in (15cm)
Echo Spacing:	1000µs	TBD	500µs
Temperature rating:	15ºF (-10ºC) to 160ºF (70ºC)		

Downhole Digital Module

Diameter: 1.75in (44mm)
Length: 70in (178cm)
Weight: 18.5lb. (8.4kg)
Pressure Rating: 2055 PSI
Cable: 3/16 inch (or larger), 4-core or 7-core
Logging Speed: 50-200 ft/hr

CE Certified. FCC, CTick, CE Emissions Compliant
Protected by US Patents: US 10,162,026 B2; US 10,302,733 B2; US 8,816,684 B2; US 9,348,054 B2; US 9,588,068 B2; US 8,736,264 B2; US 10,113,982 B2
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NMR Geophysics

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