

Vista Clara and Geoprobe Partner to Serve Direct Push NMR Market

Geoprobe is now the exclusive distributor for Vista Clara's Dart™ Direct Push Nuclear Magnetic Resonance (NMR) logging instruments in national markets in North America, Central America, and Columbia.

Nuclear magnetic resonance (NMR) is a powerful technology that provides direct and non-destructive detection of hydrogen in the formation fluids.

Direct Push NMR logging can be performed in a variety of remote and not easily accessible areas providing robust, highly efficient, and high-resolution measurements of hydrogeologic properties of native formation.

[Read More Here](#)

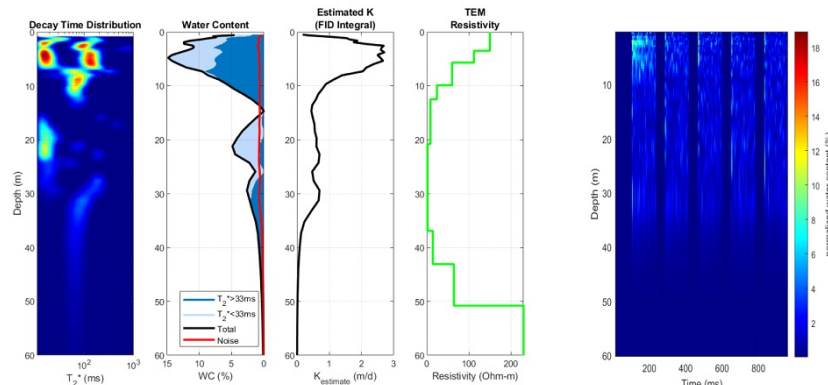


NMR Geophysical Measurements Provide Definitive Data to Support Extensive Watershed Study in Crested Butte, CO Region



Surface and borehole NMR measurements with Vista Clara's GMR™ surface instrument and Javelin® portable borehole logging tool identified a previously unrecognized, unconsolidated alluvial aquifer underlying much of the East River Valley. In the absence of such measurements this aquifer would have remained unknown and uncharacterized. Non-invasive GMR™ surface NMR measurements in the high alpine Redwell Basin unambiguously mapped groundwater and groundwater flow paths that are likely contributing heavy metals and other contaminants into the watershed.

The Dart™ person-portable NMR logging system was used to measurement soil moisture data at hike-in monitoring stations along the floor and hillsides of the East River Valley over the course of two consecutive summer-fall seasons. These high-precision in-situ NMR soil moisture measurements enabled quantification of bioavailable pools of soil water, e.g. clay bound, capillary and mobile water content and their variability over space and time.



This is one of the NMR surface measurements from the Redwell Basin, which shows the mobile water in fractured rock and flows detected in two zones, one near the surface (valley fill material) and the other is fractured bedrock starting at a dept of approximately 25 meters.

The NMR geophysical measurements in the East River Experimental Watershed provided unambiguous answers to fundamental mountain hydrology research questions, including the presence of important aquifers, groundwater flow paths and soil moisture. The NMR-measured soil moisture data enabled quantification of more bioavailable pools of soil water, e.g. clay bound, capillary and mobile water content and their variability over space and time.

Surface and borehole NMR data provided insights into the presence of aquifers hosting considerable supplies of groundwater and groundwater flow processes at spatial scales (surface) and with high resolution (borehole) that could not have been achieved without such data.

[Read More Here](#)

Meet with Vista Clara at these Upcoming Events

[RemPlex 2023 Summit | PNNL](#) Richland, WA

Presentation title: NMR Logging Technologies for High-Resolution Site Characterization and Monitoring of Environmental Remediation.

Presentation date: November 14, 2023 at 3:15pm.

Session: Innovative Characterization and Monitoring Technologies and Methodologies

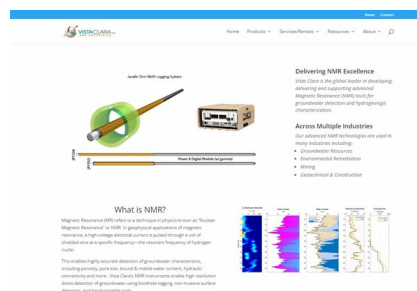
[Groundwater week 2023](#) Las Vegas, NV

We will be doing learning session about: "Nuclear Magnetic Resonance (NMR) Technology for Groundwater Investigations" on December 7, 2023 at 9:15am (Room Number: N107/N108)

Meet with us at Booth #1341

For more information on Vista Clara and our NMR technologies:

Visit our web site at www.vista-clara.com



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