

Analytik report on how Geotek utilises the ASD TerraSpec 4 in their systems for the analysis of geological cores

Cambridge, UK, 11th August 2015: Analytik, leading suppliers of innovative analytical instrumentation, report on how Geotek utilises the ASD TerraSpec 4 mineral analyser in their systems for the analysis of geological cores.

Geotek specialises in high-resolution, non-destructive analysis of geological cores. They have supplied their range of Multi-Sensor Core Logger ([MSCL](#)) systems for over 20 years, using a suite of geophysical and geochemical sensors, providing equipment sales and services to science and industry worldwide.

The MSCL is an automative core logger that non-destructively collects continuous physical, mineralogical and elemental properties from geological cores for a variety of applications including mining and civil engineering to oil and gas. The ASD, a PANalytical company, TerraSpec 4 portable mineral spectrometer is integrated onto the MSCL allowing their clients to determine a continuous mineralogical profile downcore, which is depth-registered to other core properties such as density, P-wave velocity, or elemental composition as determined by x-ray fluorescence. The combination of near-infrared spectrometry with other MSCL-sensor technology allows users to maximise data collection, and therefore improve their understanding of the core material ahead of any future laboratory testing or visual logging.

The physical properties of core material are intrinsically linked to the mineralogical composition of the core. Through acquisition of a multi-parameter stratigraphy of both physical properties and mineralogy, geologists and engineers can not only identify mineralogical changes downcore, but also quantify the physical properties associated with changes in mineralogy. The TerraSpec 4 adds visible and near infrared spectrographic information in complement with other spectroscopy techniques which include the Konica Minolta colour spectrophotometer and Olympus Delta XRF; Geotek's Helium-flushed XRF and spectral natural gamma spectrometers.

Speaking about the benefits of the TerraSpec, core analysis specialist, James Shreeve, says "The ASD TerraSpec 4 collects both visible and near infrared spectra, which provides both a quantitative analysis of the colour of the core samples, but also allows our users to interpret mineralogy from the near infrared spectra using 3rd party software such as The Spectral Geologist. The MSCL can accept both whole core and split/slabbed core up to 1.5 m in length. Importantly, we can also use our MSCL-XYZ system with the TerraSpec 4 installed to log cores still within their box."

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Trusted by the mining industry for more than a decade, the TerraSpec family of mineral analysers provides portable, rapid and non-destructive analysis of minerals in the lab or the field. Geologists appreciate the ASD TerraSpec 4 mineral analyser's portability and ability to rapidly identify key minerals. Results are presented in seconds to speed ore processing and mining decisions. The multi-parameter core analysis employed here by Geotek illustrates the flexibility of these spectrometers.

To find out more about Analytik and their range of spectral imaging, portable and handheld spectroscopy systems, please visit: <http://www.analytik.co.uk/>.

Attachment:



The ASD TerraSpec 4 making a measurement on a rock core in the Geotek MSCL system

For a high resolution copy of the image, either right click to download or contact Jezz Leckenby at Talking Science.

About...Analytik are leading suppliers of innovative analytical instrumentation to the UK and Ireland. Delivering cutting-edge solutions from global technology providers, coupled with responsive service and flexibility has enabled Analytik to build an impressive customer base since forming in 2003. Analytik's partners include Agilent Technologies, ASD Inc.(a PANalytical company), SciAps, Microfluidics, Sentronic, GL Optic, GeSiM, CPS Instruments, Videometer, Headwall Photonics, Quantum Northwest and Schmidt + Haensch. Solutions include portable and handheld spectrometers (FTIR, NIR & Raman), spectral imaging systems, light measurement systems, non-contact nanolitre dispensing systems, nanoparticle size analysers, high shear fluid processors, sample temperature control systems, polarimeters and refractometers.

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