

High-Resolution Imaging

White and UV Light to 100X

High-throughput high-resolution imaging service expands upon conventional field examination by mudloggers and provides in-depth cuttings visualizations within a laboratory setting. Using a combination of broad-spectrum white light and short-wavelength ultraviolet (UV) illumination, this high-performance system augments standard microscopy resolution. It achieves exceptional contrast and resolution. Additionally, this capability makes it a modern, cost-effective tool for increased granular perspective into

cuttings attributes including color, lithology, grain size, sorting, mineralogy, porosity type, texture, fabric, and fracture characterization. Furthermore, it enhances visual discernment of hydrocarbon presence, distribution, and quality. This pore-scale visual record paired with our gas and elemental data can assist reservoir, operations, and completions teams during decision points with a robust all-in-one sample interpretation workflow.

Applications

Core and Cuttings

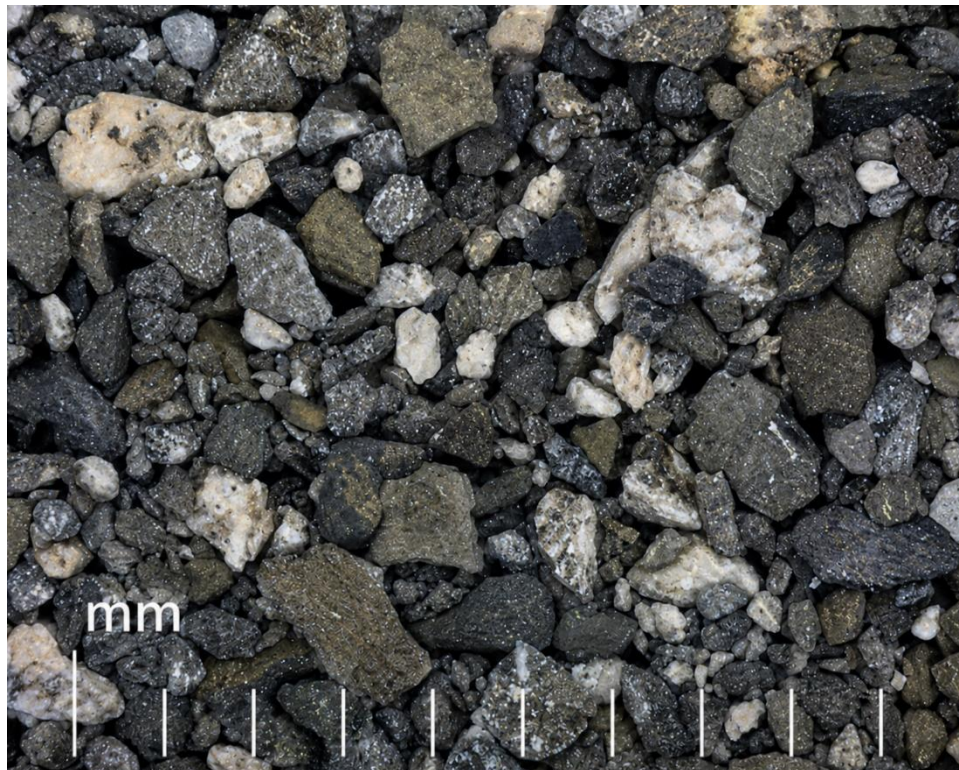
- High-resolution, pore-scale digital imagery at 100x
- Mineralogy, texture, fabric, pore shape, grain size, fracture characterization
- Observation of solid organic matter content and quality (vitrinite reflectance, Ro)
- Hydrocarbon presence, distribution, quality (API)
- WL/UV imagery pairs with gas and elemental data
- Improved geological correlation between wells

Reservoir and Operations Teams

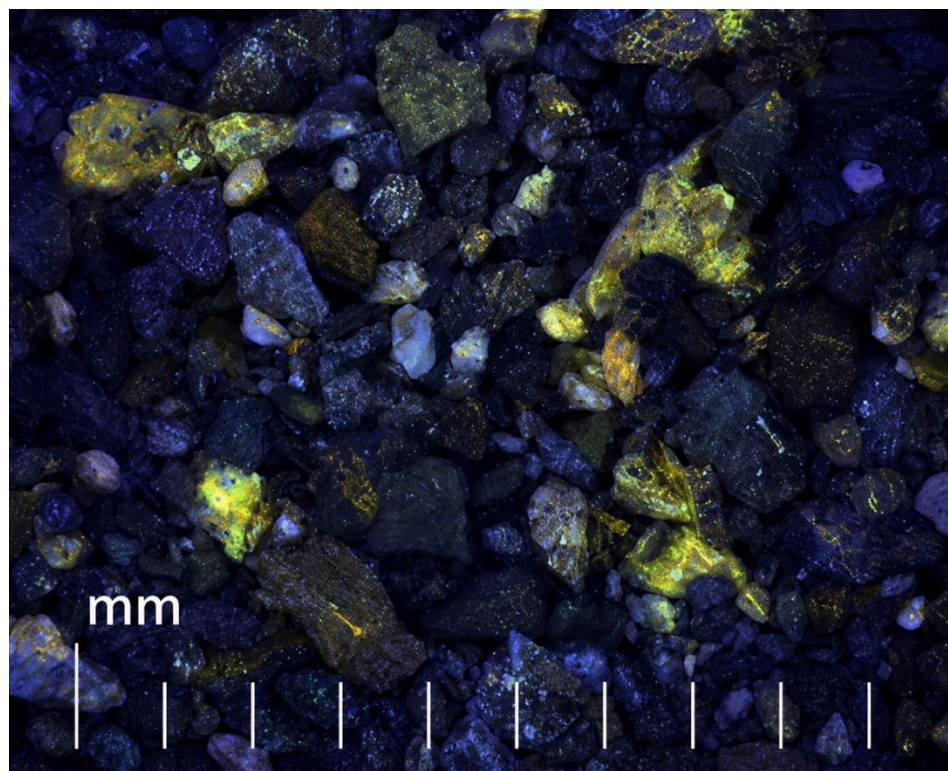
- Standardized processing for consistent well-to-well comparison of rock properties
- Stunning digital resolution providing a long-term visual stratigraphic record
- Valuable for decision points in field to basin scale assessment and development planning
- Collaboration between operations and reservoir teams through time regardless of personnel changes or extended shut-ins, etc.

Details

- Climate controlled laboratory setting
- Sample preparation, clean samples to a standard
- Wet and/or dry high-resolution digital imaging
- Stunning WL/UV illumination under 100x
- Rapid processing of up to 500 samples/day
- Results uploaded to the cloud for quick access
- Sample tracking through reference IDs
- Media: JPG, PNG, PDF, Excel reference tracking sheet
- Live-Log Plots with Imaging by depth (upon request)
- Integrates seamlessly with One-Geo gas and elemental data (upon request)
- Full technical support available from experienced geologists and data interpreters (upon request)



White Light – Wet and/or Dry



Ultraviolet Illumination