Mining Division

AGAT Laboratories

Inductively Coupled Plasma vs. Atomic Absorption for Au Analysis

■ 5900 ICP-0ES Instrument (Pictured above)

At **AGAT Laboratories**, we combine state-of-the-art instrumentation and technologies, a competent technical team and accredited methods to deliver the data that you and your business can trust. Gold measurement in mining samples has been a focus of laboratories for decades and Atomic Absorption Spectrometry (AA) has been the traditional method of choice used to analyze samples with levels in the parts per million (ppm) range. Currently our 240 FS series AA instruments have the ability to detect gold down to a minimum detection limit (MDL) of 0.009 ppm.

Following a stringent validation and use study we are excited to announce that we are now able to offer our clients two options to complete gold analysis. In keeping with our mission statement to provide 'Service Beyond Analysis', AGAT has recently invested in the latest Inductively Coupled Plasma (ICP) technology, adding to our gold measurement options for our most precise clientele needs. This new ICP technology is able to accurately and precisely measure gold down to an MDL of 0.004 ppm.

Our AA systems will continue to deliver trusted results to our valued customers but we are now also able to offer the lower detection limit method by ICP.

Advantages of ICP over AA:

- Lower MDL by 0.005 ppm
- A fully automated sample run
- Quicker TAT
- High degree of repeatability
- Wider calibration range
- Robust and reliable instrumentation
- Minimum wavelength interference
- Ability to accommodate other precious metals such as palladium & platinum in a single run

■ 240 FS Series AA Instrument

For more information, please contact us at **info@agatlabs.com** or call us at **403.736.2000**