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NEWS BULLETIN #4

Challenges in Oil In Water Analysis

What key challenges must be addressed in evaluating an OIW analyzer?

- Fouling
- Oil Droplet Size Variation
- Maintenance
- Chemical Interference
- Flow Rate to Analyzer
- Pressure and Temperature
- Analyzer & Lab Correlation

Fouling of your optical based analyzer can be a problem - many major companies such as Talisman, Chevron and StatoilHydro have suffered from fouling on various analyzers. Some have been affected in less than 1hr. In all three cases an ASL OIW Analyzer was installed and has given at least 23 months of maintenance free service to date.

Oil Droplet Variation - directly affects the level of fluorescence which directly affects ppm measurement. The ASL OIW Analyzer utilizes ultrasonic's to break down oil droplets to standard size which then can be accurately be measured. This eliminates the use of mechanical mixers or surfactants.

Maintenance Fees can really start to add up. The ASL OIW Analyzer can operate in hazardous environments while providing accurate measurements maintenance free. Using ultrasonic technology the OIW is self cleaning negating the need of high maintenance costs. This also allows the unit to be placed in an unmonitored situation without any concerns.

Full range analysis of process fluid is available. The ASL EX1000 is equipped with an optical spectrometer that allows for enhanced analysis of produced water. This advancement can assist in the analysis of process dynamics resulting in the improvement of process management.

Flow, Pressure and Temperature all three important factors in choosing a reliable OIW. The ASL OIW Analyzer can be designed to handle higher Temperatures and Pressures found in heavy oil and SAGD applications.

Analyzer and Lab Correlation are very important. The ASL OIW Analyzer has proven to be as accurate and in many cases more accurate than lab analysis. The ASL OIW Analyzer measures every second which is an advantage over grab sampling.

The Advanced Sensor Analyzer OIW will provide years of accurate reliable measurements while still remaining trouble and maintenance free.