

Field Lab 1

Drilling & Completion Field Chemistry Lab



Chemicals used in drilling and hydraulic fracturing (Frac) are a critical component of completion and stimulation of a oil or gas well. Monitoring chemistry (and biology) on-site in real time can reduce operating problems and help maximize the performance of the well when in production.



To help monitor those critical chemistry and biological parameters, One AquaSource has designed and commissioned our Field lab 1 (FL1). FL1 is a full featured laboratory that can be deployed to the well site. Our expert technicians will test water or mud samples and provide real time feedback to service companies and owner/operators.

The 'Wet Side'



- ◆ Metals testing via Hach DR2800 spectrophotometer: Fe, Ba, Ca,
- ◆ Anions testing via Hach DR2800: SO₄, carbonate, silica and sulfide
- ◆ Hach selective ion unit: pH, conductivity, sodium and chloride
- ◆ Brookfield viscometer for fluid viscosity monitoring
- ◆ PAA kit for checking polyacrylamide (FR, FLC, bore stabilizers, etc) concentration

The 'Dry Side'

- ◆ Stereo microscope for examining sphericity of proppant. Images can be photographed and viewed/stored on the resident PC.
- ◆ Bacteriological testing for aerobic and anaerobic bacterial monitoring. An incubator to grow cultures at bottom hole temperature. In non gel fracs, an ATP meter is used for quick determination of total biological loading.
- ◆ Sand sieve to check sizing of proppants
- ◆ Hand held Geiger counter.
- ◆ Complete pc set up with color printer



T O M O R R O W ' S C H E M I S T R Y , T O D A Y

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DR 2800 Spectrophotometer



Stereo Microscope



Bacteria Incubator



Specific Ion /pH/conductivity
meter