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# Lab Services Stimulation

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## COMPATIBILITY TEST

- Preparation of live and spent acid systems
- Mixing of formation fluids with live and spent acid
- Curing @ elevated temperature
- Determination of precipitation / Emulsion break test



## CORE PREPARATION

- Cutting to size employing core drill and core saw
- Determination of pore volume / static porosity
- Measurement of effective porosity
- Photographical documentation



## CORE FLOOD TEST

- Conditioning of core sample to borehole temperature
- Determination of pre- and post-treatment permeability
- Preparation and pumping of different treatment fluids
- Reverse flow (optional)



## COUPON PREPARATION

- Cutting to size, grinding, polishing, and degreasing
- Measurement of surface area and weight
- Photographical documentation
- Microscopic evaluation



## CORROSION TEST

- Preparation of different acid systems as per client specs
- Exposure of coupon to acid systems @ BH temperature
- Storage under static or dynamic (roller oven) conditions
- Photographical documentation



## FOAM TEST

- Preparation of (synthetic) fluid sample
- Shearing @ varying foamer concentrations
- Measurement of foam height at various time intervals
- Photographical documentation of foam height



## SOLUBILITY TEST

- Drying and grinding of scales or cuttings
- Immersing of samples to various treatment fluids
- Heating of sample to elevated temperature
- Re-weighting of non-dissolved portion



## (SYNTHETIC) FLUID PREPARATION

- Dissolution of multiple salts in deionized water
- Adjustment of pH value
- Photometric control of ion concentration
- Measurement of fluid loss, free water, and sag tendency



## VISCOSITY MEASUREMENT

- Correct hydration of polymers
- Conditioning of sample to borehole temperature
- Measurement of viscosity at ambient and HT conditions
- Adjustment of breaker concentration (if applicable)

