

FES Newsletter – Spring 2016

FES training activities are highly appreciated

Now that summer has arrived, we can look back at a very busy spring time in terms of training activities. Below a list of events organized or supported by FES:

- Drilling Fluids Round Meeting (part of DGMK activities)
- Service Packer Workshop
- Formation Damage and Remedial Treatments Seminar
- Introduction to Well Cementing and Stimulation for Students (attendees from Sweden)
- Foam Squeeze and Perforations Cleaning Seminar

FES will continue its commitment to provide theoretical or hands-on training, voluntarily or at clients request. In this way, we support young as well as experienced professionals in terms of technology for better decision making.



FES Scientific article for Geothermische Energie 2030

As a part of the geothermal association "Bundesverband Geothermie", FES will contribute with a scientific article in the coming magazine Geothermische Energie 2030. Hereby, we would like to thank to the publisher for this opportunity.

Visit us at the European Geothermal Congress 2016 in Straßbourg

During 19-24th of September, FES will present itself at the biggest French geothermal congress. In this way, we keep up the tradition and will also present our latest technology updates.

Fangmann Energy Services

fes@fangmanngroup.com
 www.fangmanngroup.com

One Run Successful Remediation of Connection and Behind Casing Leakage using TAM Combo Tool

As an official TAM International representative, FES is providing a wide range of inflatable packer solutions both for primary and remedial cementing. In this case, a German client was looking for a method to seal an investigated connection leakage which potentially could jeopardize well integrity on one of its oil storage salt caverns. FES proposed a cement squeeze operation with a specially adapted TAM Combo Tool. This allowed a precise sealing fluid placement, in one run and with no drilling related costs involved (rig, bit, personnel etc.). 470 liters of cement were squeezed in one day which then stopped any uncontrolled oil flow.



New Industrial Services Department Established by FES



To further expand its portfolio, FES established a new specialized Industrial Services department. It is the result of inquiries coming from clients in this sector, which led to the investment in specialized equipment required. Already successfully executed projects involve chemical cleaning operations for plant heat exchangers, various water separation activities and pipeline

service (pigging and abandonment). For detailed information to specific projects, feel free to contact us directly.

FES Core Flood Tester Increases Confidence for Stimulation Well Candidates Selection Process



Well candidates selection for stimulation, if not combined with precise lab testing, is often a trial and error process. The approach of pumping standard sequence of fluids can sometimes lead to undesired results. Over the last two years, the ability to provide an exact reaction outcome, has proven the advantage of using the FES Core Flood Tester in numerous cases. Primary aspects evidenced were clay compatibility of fluids, acid reaction curves and effectiveness of water shutoff fluids. Thus, the decision to run a series of tests for choosing the best candidates is highly recommendable.

Isolating Low Fracture Gradient Intervals with 1,20 SG HOZlite Cement in the Paris Basin



The Paris Basin is known for its geothermal energy recovery installations. The challenge in this area is the low fracture gradient of the formation. To allow economic hot water flow rates, large diameter strings which cover long intervals need to be cemented in place. A French operator turned to FES where a project required slurry densities of 1,20 SG. The HOZlite system designed, allowed the successful casing isolation to surface with a 1650 PSI compressive strength development.