Due to its cost efficiency and reliability, most stimulation operations requiring acid treatment will use HCl as a first choice. HCl, however, may not be as effective in many high temperature applications as corrosion concerns may force lower acid concentrations. As a result, acid dissolving power is diminished and contact times with the formation must be shorter, resulting in a less efficient stimulation treatment.

Halliburton developed the Hot Rock™ acid system with a dissolving power equal to 15% HCl and capacity to effectively function in high-pressure, high-temperature applications.

Organic Acid Blend for More Effective HP/HT Treatments

The Hot Rock acid system uses a blend of formic and acetic acid that in the right ratios has an equivalent dissolving power of 15% HCl, together with MSA II™ corrosion inhibitor and SGA-HT® gelling agent. The blend of acids and chemicals increases stimulation effectiveness and reduces corrosion rates. The Hot Rock acid system allows for extended reaction times, provides built-in iron control, and enhances the performance of acid gelling agents. It reduces interfacial tensions so emulsion and sludging problems are less likely to occur.

Halliburton’s Hot Rock™ acid system has the dissolving power of 15% HCl with the temperature and pressure robustness of organic acid blends.

For more information about how Hot Rock™ acid system can help your acidizing treatments, contact your local Halliburton representative or email stimulation@halliburton.com.