Crosslinked AquaLinear® Gravel-Pack Fluid Service
Low-Damage Fluid System Provides Improved Application Flexibility for High Temperature Wells

Crosslinked AquaLinear® gravel-pack service provides a gravel-pack carrier fluid for higher-temperature wells and provides several benefits:

- Reduced rig time due to ease of mixing and rapid hydration. The base polymer rapidly disperses in water without a complex mixing protocol or extended hydration period.
- Applicable at temperature from 180 to 245°F bottom hole static temperature.
- Compatible with monovalent brine up to 12 ppg density.
- Provides excellent sand or gravel suspension.

Field Applications
Crosslinked AquaLinear service can be used in a variety of applications:

- Gravel pack carrier fluid for open hole gravel packing services and Halliburton’s Alternate Path System services.
- Drill-in fluids displacement sweep for openhole horizontal completions.

West Africa Case History
An operator needed to implement a 1000-ft open-hole gravel pack in an oil-producing well in West Africa. The well had 240°F bottomhole temperature and 5200 psi bottomhole pressure. This reservoir presented several challenges including maintaining hole-stability when displacing out non-aqueous drilling fluid to a non-damaging completion fluid in a timely manner. The completion fluid needed to leave the pay zone with high permeability.

Halliburton offered a single fluids train that provided efficient drilling fluid displacement and effective sand transport for grain-to-grain gravel pack placement. Using Crosslinked AquaLinear service, the Halliburton team solved the completion challenges—hole stability issues, sand transport capability and implementing a process optimized for top performance—while saving rig time. The use of Crosslinked AquaLinear fluid eliminated all compatibility issues and left the pay zone with no damage. As a result, the operator has completed many wells in West Africa using this fluid and has extended its use to the Asia Pacific region with consistent, reproducible results.

For more information about how Crosslinked AquaLinear® fluid can help improve your gravel pack efficiency, contact your local Halliburton representative or email sandcontrol@halliburton.com

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