FDP-S1007-11 Formation Mobility Modifier
Helps Improve Production from Unconventional Oil Reservoirs

FDP-S1007-11 formation mobility modifier helps improve production from unconventional reservoirs with a low gas/oil ratio (GOR). FDP-S1007-11 agent is applicable across a wide temperature range of 100 to over 300°F (38 to over 149°C) and is compatible with a broad array of fracturing fluid systems including but not limited to PermStim™, SilverStim®, and Hybor™ fluid systems.

Benefits
FDP-S1007-11 agent provides important benefits in low GOR reservoirs:

- Enhances mobilization of liquid hydrocarbons
- Broad crude oil spectrum demulsifier
- Helps improve load recovery
- Helps increase relative permeability to oil
- Enables more effective displacement of the treatment fluid from the proppant pack
- Minimizes the adsorption of the demulsifier and enables lower interfacial tension as treatment penetrates the reservoir for improved flowback

The active agents in FDP-S1007-11 formation mobility modifier are contained in a stabilized micellar structure. The micelles’ average size is 10 to 20 nm. This allows penetration of active agents into the formation with the leading edge of the fluid. Capture of the demulsifier and surface active agents into a stabilized micellar structure reduces absorption onto rock surfaces. This allows lower fluid surface tension properties as the treatment penetrates the reservoir to allow better clean up on flow back.

Applications
To help prevent emulsions between injected treatment fluids in stimulation treatments and formation fluids, FDP S1007-11 can be added at concentrations of 0.15 to 0.2 % and up to 0.5% concentrations. Typical stimulation treatments will use ± 0.2-0.3%, but this is dependent on the well fluids and produced oil. It is advisable to perform demulsification tests prior to inclusion of FDP S1007-11 in any treatment regimen to determine the appropriate concentration which provides the optimum results.

FDP S1007-11 has demonstrated chemical compatibility in demulsification testing with FR (anionic) based stimulation fluid. Compatibility testing is recommended for specific reservoir fluids and rock wettability optimization.

Environmental
FDP S1007-11 was developed to contain environmentallyconscious material and does not contain nonylphenol ethoxylates or EGMBE.

For more information on FDP-S1007-11 Formation Mobility Modifier, contact your local Halliburton representative or email stimulation@halliburton.com.

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