BaraSure™ W-546

SHALE STABILIZER

Product Description

BaraSure™ W-546 (formerly BDF™-546) shale stabilizer is a mixed dry product that incorporates two shale stabilizing agents to provide superior clay inhibition at a very low concentration. BaraSure W-546 shale stabilizer is designed to be used in SHALEDRL® fluid systems utilized for drilling reactive clay and shale. BaraSure W-546 shale stabilizer can be used in low solids non-dispersed (LSND) and low clay SHALEDRL systems, but is incompatible with divalent brines. If used with sea water, or brackish make-up water, total hardness should be lowered below 600 ppm prior to the introduction of BaraSure W-546 shale stabilizer.

Applications/Functions

» Used in water based SHALEDRL systems to provide inhibition and stabilization of highly reactive clay and shale formations
» Can be used in seawater, fresh water and monovalent brines
» Helps seal pores and micro-fractures in the formation
» Helps reduce bit-balling and accretion tendencies

Advantages

» Can provide inhibition performance similar to oil-based fluid systems in a water based system
» Contains no hydrocarbon or synthetic oils
» Can be used in applications up to 350°F (177°C)

Typical Properties

» Appearance: White Powder
» pH, (10% aqueous solution): 12.3
» Bulk Density: 0.43 lb/ft²
» Solubility: Water Soluble

Recommended Treatment

Add 1.5-6.5 lb/bbl (4.3-18.5 kg/m³) of BaraSure W-546 shale stabilizer per finished barrel of fluid

Control LSG <7% v/v. BaraSure W-546 shale stabilizer can be added while drilling highly reactive clays and stopped while drilling sand packages. BaraSure W-546 shale stabilizer can be depleted when drilling anhydrite, green cement calcium chloride, or when exposed to H₂S or CO₂.

Total hardness should be lowered below 600 ppm prior to the introduction of BaraSure W-546 shale stabilizer

Packaging

BaraSure W-546 shale stabilizer is packaged in 50-lb (22.7-kg) sacks.