SeaQuest Service

SeaQuestSM Service

Features A New Seawater-based Fluid System for Stimulating Offshore Sandstone Reservoirs up to 300° F – Both Unconsolidated and Consolidated

SeaQuestSM service launches the next-generation of seawater-based stimulation systems. Now, one system is appropriate for both offshore fracturing and FracPacSM service.

Applicable in both shelf and deepwater environments, SeaQuest service includes a new, enhanced, proprietary fluid system with characteristics that help achieve enhanced well performance and more flexible service delivery:

• Fluid system designed for seawater mixing.
  – Provides greater flexibility for job design and delivery.
  – Helps reduce delays due to stimulation vessel scheduling issues inherent with fresh-water-based fluid systems.
  – Does not produce damaging precipitates.

• InstaVis™ mixing system:
  – Helps reduce or eliminate rig operations time required to prepare frac fluid.
  – On-the-fly rheology changes are simple.
  – On-line quality control helps achieve desired fluid properties.

• Suited for reservoir temperatures from 80°F to 300°F.

• Includes Halliburton’s stringent quality assurance procedures.

SeaQuest Service Helps Achieve Lower Completion Skins for Improved Production

Because low completion skins can result in high production wells, achieving a low-skin, high-flow-efficiency completion is one of the most important objectives during fracpacking. With SeaQuest service, the effects of 1) low total formation damage and 2) stimulation of the formation and completion inflow path combine to provide lower skins compared to other fracpack systems.

SeaQuest Fluid - An Optimized Offshore System for FracPac Service and Fracture Stimulation

SeaQuest service includes a new, enhanced, proprietary, seawater-based frac fluid system with a number of characteristics to help enhance well performance and more flexible service delivery:

• Cleaner base fluid, low polymer loading, and high performance breaker system.
  – Provides faster cleanup, higher permeability, and improved conductivity retention.
  – Helps achieve higher proppant pack conductivity.
  – Not cationic (does not leave formation oil wet).

SeaQuest service fluid provides excellent viscosity with reduced polymer loading (left) and controlled viscosity with complete breaks up to 300°F with ViCon™ breaker (right).
• Robust fluid system less sensitive to pH and crosslinking variations.
  – Enhances on-site quality control under actual treating conditions.
  – Provides highly consistent and reliable fluid properties

SeaQuest Service Does Not Create Damaging Precipitates

Other crosslinked gels can create damaging precipitates when mixed with seawater, often resulting in damaged productivity, increased treatment costs, and possibly, plugged packs and screens. SeaQuest service is designed to enable seawater mixing with no fluid incompatibility and without creating damaging precipitates.

InstaVis™ Mixing System Helps Optimize Fluid Characteristics

The InstaVis fluid mixing system used in delivering SeaQuest service eliminates waiting for gel hydration and allows almost instantaneous adjustments to help match fluid characteristics to formation parameters. This means virtually no waiting time to build additional fluid volume or change fluid viscosity, and it is no longer necessary to compromise fluid designs in order to save time.

SeaQuest service using seawater provides significantly better retained conductivity than conventional polymer fluids using fresh water.