DeepQuest service enables fracpack and fracture stimulation of ultra-deep reservoirs without exceeding the safety limits of surface treating equipment and wellbore tubulars.

DeepQuest service uses a patented, high-density fluid that can address these issues:

- Bottomhole reservoir pressures exceeding 20,000 psi.
- 15,000 psi surface pressure limitation of conventional fracturing pumping equipment and treatment lines for marine and land service.
- Limited availability of 20,000 psi fracturing equipment.

The ability of DeepQuest service to reduce surface treating pressure can eliminate the Operators’ need and costs for obtaining higher-pressure equipment. Lower surface treating pressures also translate into safer operating conditions.

**DeepQuest Service Specifications**

DeepQuest service harnesses the power of gravity to reduce the amount of surface treating pressure required to achieve adequate fracturing pressure as shown in Figure 1. The typical specific gravity for an aqueous frac fluid is 1.00 to 1.04; DeepQuest fluid has specific gravity of 1.14 to 1.49.

DeepQuest has rheology properties comparable to conventional borate fracture fluids (Figure 2).

DeepQuest frac fluid may be used in wells with bottomhole static temperatures (BHST) of 80° to 300°F.

**Helps Prevent Gas Hydrates**

In operational areas prone to gas hydrate plugging DeepQuest fluid can be formulated to inhibit blockage of tubulars by gas hydrates.

*Figure 1 - DeepQuest service provided significant reduction in surface treating pressure on 11 Gulf of Mexico treatments (SPE 112531).*
**DeepQuest Weighted Frac Fluid vs Conventional Frac Fluid Surface Treating Comparisons**

![Graph showing treatment pressure comparison](image)

*Figure 2 – Through treatment modeling, Halliburton is able to accurately predict what the treating pressure will be with conventional fluid systems and with DeepQuest service.*

For more information about how DeepQuest service can help make ultra-deep reservoirs more profitable, contact your local Halliburton office or email sandcontrol@Halliburton.com.

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