



## EverFrac® LH Oil Services

### ADVANTAGES

- Minimizes sensitivity problems associated with clays, iron ores, and large volumes of liquid.
- Enable rapid cleanup of flowback fluid
- Highly beneficial in depleted gas reservoirs due to energizing properties
- Provides a better capacity to place the proppant in water sensitive formations
- Beneficial for shallow formations

Everfrac® system is a biphasic foam fluid that provides great viscosity and excellent proppant transport capability. This system has similar viscosity properties to a water based fluid that translates into foam stability. Everfrac® system is typically used for fracturing wells with low pressure and low permeability. Assisting the fracturing treatment with the addition of an inert gas such nitrogen will energize the fluid thus causing a cleaner and faster discharge.

### PROPERTIES:

This system reaches stability when a polymer is added to allow the foam to rise with the surfactant. The gas is used to energize the liquid phase to facilitate water unloading in low-pressure formations. The gas bubbles are created when the liquid and gas are mixed. The foam quality is between 70 - 95% to provide the necessary viscosity to create fracture geometry and the transport for the proppant in the fractures.

Emulsified bubbles in the liquid create break foam that will slowly disintegrate upon contact with the fluids and rock formation. The foam decreases along with the quality and this helps to ensure good cleaning treatments in the well. Furthermore Everfrac is very convenient because the water content is very little, since in the preparation is only a 65% to 80% of water that is used. This reduces the potential for damage to sensitive formations.

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