

# **Pressure Pumping Market by Types (Hydraulic Fracturing, Cementing, Others), North America Resource Type (Conventional, Unconventional), North America Well Type (Horizontal, Vertical) & Geography - Global Trends & Forecasts to 2018**

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## **Abstracts**

This report estimates the pressure pumping market in terms of volume and value. The volume of this market is estimated in terms of million hydraulic horse power (million HHP) and value in terms of \$million. This has been broken down into component regions and further split into countries.

Pressure pumping is required throughout the lifecycle of an oil and gas well. The ever increasing exploration and production activities across the globe and new areas of unconventional resources are the main drivers for the growth of the pressure pumping market. However, issues associated with the environment, water contamination, and increased seismic activities have slowed down the growth of this market. Foam fracturing has advantageous properties such as high viscosity and low liquid content; foams find applications in many petroleum industry processes. This alternative utilizes less water than traditional fracturing and could help companies address the public concern over the environmental effects of fracturing. As a process, fracturing takes up a large percentage of the total water required in well drilling, at roughly 89%. This presents a good opportunity for players to capitalize on.

We have used various secondary sources such as encyclopedia, directories, and databases to identify and collect information useful for this extensive commercial study of the global pressure pumping market. The primary sources—experts from industry and suppliers have been interviewed to obtain and verify critical information as well as to assess the future prospects of the pressure pumping market.

We have also profiled leading players of this industry with their recent developments and other strategic industry activities. These include Baker Hughes (U.S.), Calfrac Well Services (U.S.), and Cudd Energy services (U.S.), FTS International (U.S.), Key Energy Services (U.S.), Halliburton (U.S.), Schlumberger (U.S.), Trican Well Services Limited (U.S.), and Weatherford International Inc. (U.S.).

The North American market share is about 80% of the global pressure pumping consumption. In North America, U.S. is the largest market and is lead by Halliburton, Schlumberger, Baker Hughes, Superior Well services, and Cudd Energy Services. Chinese players and few Asian players are expected to grow in the near future.

The pressure pumping market is segmented in six regions, namely North America, South & Central America, Europe, Africa, Asia-Pacific, and the Middle East. The North American pressure pumping market is further segmented by resource types and well types.

The report also touches on various other important aspects of the market. It includes an analysis of the value chain, Porter's five forces analysis, the competitive landscape, a raw material analysis, patent analysis, as well as the fracturing process. In addition, 11 key players of this market have also been profiled.

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## About

Hydraulic fracturing services are the most revenue generating pressure pumping service type. Hydraulic fracturing services generated about XX% of the revenue of the global pressure pumping market in 2012. The graph above illustrates the historical and future growth trend of each type of pressure pumping service that states the sharp growth for hydraulic fracturing and cementing services over the next five years.

After a well is drilled, cement is pumped to complete the well and to prepare it for production. After the well completion—which refers to drilling and casing—perforations are created along selected intervals of the well within the shale formation. Next, fracturing fluids—which are made up of water, sand, or other proppants and chemicals—are injected under high pressures into the well to create fractures, or widen the existing ones. These fractures are kept propped open by the sand. Additional fluids can then be pumped into the well to maintain pressure. A well may be divided into ‘stages’ using plugs, which split the well into smaller sections. These stages are fractured one by one. Once fractured, the well is depressurized, which allows gas to flow out through the well. The fracturing fluid returns to the surface over the lifetime of the well. Hydraulic fracturing has various important functions, which include:

- Increase the flow rate of oil and/or gas from low permeability reservoirs

- Increase the flow rate of oil and/or gas from wells that have been damaged

- Connect the natural fractures and/or cleats in a formation to the wellbore

- Decrease the pressure drop around the well to minimize sand production

- Decrease the pressure drop around the well to minimize problems with asphaltting and/or paraffin deposition

- Increase the area of drainage or the amount of formation in contact with the wellbore

- Connect the full vertical extent of a reservoir to a slanted or horizontal well

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