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**PRESSURE PUMPING SERVICES DIVISION**

**Experience, Support and Innovation**



## SUPERIOR AT-A-GLANCE

Superior Energy Services is a leading provider of specialized oilfield services and equipment focusing on serving the production-related and drilling-related needs of oil and gas companies around the world, including marine services, well intervention and rental tools. A publicly traded company on the New York Stock Exchange, Superior has been consistently recognized by both *Forbes* and *Fortune* magazines as a player in the global energy industry.



## Division Overview

### Complete Pressure Pumping Services

Superior Energy Services' Pressure Pumping Services Division provides quality equipment; highly trained and experienced personnel; and technical support to accommodate all offshore and onshore pumping operations. Superior maintains one of the newest inventories of equipment to provide customers with a cost-effective, trouble-free solution to their pumping needs. The Division's cement blends and chemical treatment systems, combined with its experienced technical engineering group, ensures the proper design and execution to complete any pressure pumping projects including:

- Primary and Remedial Cementing
- Stimulation Services
- Acidizing Services
- Sand Control
- Thermal Services
- Technical Support

### Safety & Quality

At Superior, we believe safety is more than just "being safe" at work. We believe safety is a way of life. Superior is second-to-none in its commitment to the safety of its personnel and the quality of its equipment. Stemming from this company-wide philosophy is a commitment to creating and maintaining a strong behavior-based safety program for our employees. With safety being a way of life, it no longer is a task our people have to complete at work. In addition, the Company is dedicated to operating the best-maintained equipment in the industry.



## Cementing Services

From a deep, high temperature casing job to a remedial cement plug, Superior's Pressure Pumping Services Division has all equipment in-house to accommodate any cementing need. The Division offers pumping equipment in both low and high pressure units. This equipment, proven to perform in extreme environments, can be used in offshore, onshore and inland water applications.

### Primary Cementing:

- Surface/Production Casing
- Liners
- Water Wells/Injectors

### Remedial Cementing:

- Plug & Abandonment
- Squeeze Cementing
- Kick-Off Plugs
- Cement Packers

## CASE HISTORY



Superior's Pressure Pumping Services Division cemented a liner in excess of 15,000' at a bottomhole temperature of 326°F. The client had previously experienced poor cement bonds in the same field with another service company. The liner was drilled with a 17.5 ppg mud. Superior's cement lab tested the slurry based upon expected pump times. Superior's 100 bbl batch mixing truck was used to create a uniformly consistent 18.1 ppg cement weight. A viscous, weighted mud removal spacer was pumped ahead of the cement to prepare the casing/hole for cement placement. The Superior-designed recommendation was pumped and displaced as expected, and a cement bond log verified a successful cement bond.

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## CASE HISTORY



Superior's Pressure Pumping Services Division recently stimulated a well in the Gulf of Mexico in excess of 19,000' at a bottomhole temperature of 312°F. The Superior design included a nitrified acid treatment through coiled tubing. Superior decided that once the nitrogen reached the perforations, the wellhead pressure would be observed, and if the pressure continued to drop, then the nitrogen would be continuously pumped until the pressure stabilized. After successful placement, the well was brought back on line and experienced a 500% increase in production.

## Stimulation Services

Superior's Pressure Pumping Services Division has technically sound equipment and personnel to restore or enhance the productivity of an oil and gas well. Whether a client has encountered a high-pressure or low-pressure situation, Superior will tailor a treatment to fit that need. With cost-effective approaches to well stimulation and proven technologies for increasing productivity, Superior offers a complete package of stimulation services.

- Acidizing Services:
  - Matrix Acidizing
  - Acid Fracturing
- Remedial Stimulation Services

## Sand Control

Dependable sand control equipment and techniques are crucial to creating and maintaining effective production. Superior's Pressure Pumping Services Division has a complete range of sand control products and services to employ treatments such as gravel packing and sand consolidation to treat various formation types.

- Gravel Packs
- High Rate Water Packs
- Frac Packs



## PRESSURE PUMPING SERVICES DIVISION

### Thermal Services

Superior's Pressure Pumping Services Division offers thermal services which have the capabilities to effectively heat virtually any fluid, including water, chemicals or hydrocarbons, while allowing for precise temperature control. The Division's equipment, in combination with custom solvent packages, provides for exceptional performance in cleaning vessels and removing flowline obstruction, such as deposits of paraffin, asphaltenes and scales. Utilizing the Division's line of proprietary solvent-based products, paraffin waxes can be completely removed from pipelines and flowlines.

Superior's Thermal Fluid Unit is capable of meeting all job parameters when heated fluids are required. Highlights include:

- Increased safety due to patented:
  - Flameless heating system
  - High flash point solvents
- Precise temperature control
- Heating of fluids and chemicals up to 200°F
- In-house engineering and manufacturing
- Enhanced removal of organic deposits in tubing and pipelines
- Flexible rates, pressures and temperatures

### CASE HISTORY



Superior's Pressure Pumping Services Division restored maximum production to two wells in deepwater Gulf of Mexico. After experiencing a significant production decline, the client attempted to remove paraffin with slickline but had little success. Chemical thermal treatments were bullheaded down each well. The first well showed an 81% increase in oil production (more than 500 BPD) and a 150% increase in gas production, as a result of the treatment. The second well produced a 43% increase in oil production and a 60% increase in gas production.



## PRESSURE PUMPING SERVICES DIVISION

### Technical Support

Superior's Pressure Pumping Services Division is a leader in oilfield testing with a state-of-the-art laboratory facility, allowing for precise technical analysis and technically sound decisions before and during projects. Extensive laboratory resources and engineering expertise allows the Division to provide the most cost-effective and efficient services within the industry.

The Division's technical support solves challenging problems ranging from high-pressure, high-temperature cementing to effective stimulation techniques to lost circulation. With the knowledge gained from this valuable resource, operators are able to control and validate the effectiveness of critical pumping applications, specializing in:



- Techniques for operations in deep, hot wells
- Cementing and drilling in deepwater
- Cement design and placement for preventing gas migration
- Lost circulation mitigation
- High temperature/high pressure applications
- Maximizing mud removal
- Computer modeling all aspects of critical cementing
- Rheology analysis
- Compatibility analysis



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