

OILFIELD SOLUTIONS

# Versalis

OIL & GAS  
WELL STIMULATION  
& PUMPING SERVICES



versalis  
oilfield solutions

# Versalis e<sup>®</sup>

## OIL & GAS WELL STIMULATION & PUMPING SERVICES

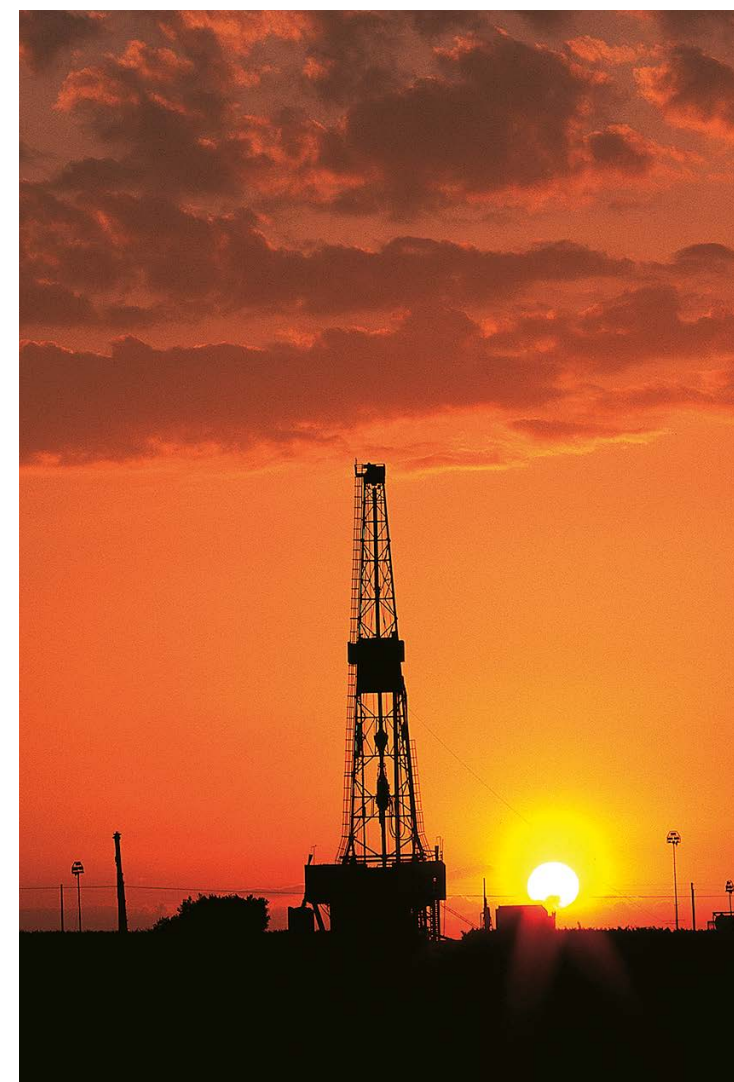
### INTRODUCTION

**Well Stimulation & Pumping Services  
is a service line of Versalis Oilfield Solutions.**

This service is based on Chemical Stimulation Product and Well Pumping Services which are customized according to customer requirement:

- Laboratory testing.
- Customized fluids systems.
- Design of services developed in collaboration with Customer.
- Pumping, mixing and storage equipment to deliver chemical treatments on location.
- Experienced personnel.

Versalis Oilfield Solutions believes that a combination of tailored approach, best-in-class chemical products and specialized technical service operations is essential to maximize extraction from oil and gas reserves, while aiming to reduce the impact on the environment and reducing costs.



## Versalis e® product range

### Production Enhancement chemicals for matrix stimulation

During well life cycle, one of the main target is to optimize the reservoir performance to enhance in order to sustain hydrocarbon production.

Versalis e® portfolio comprises a dedicated suite of products for matrix stimulation.

**Versalis e® - acid** family has different types of pre-mixed acid system such as:

- Acid based on HCl 15% solution commonly used in carbonate acidizing. Suitable up to 120 °C.
- Fluid system based on Organic-Non organic mixture developed for HPHT wells and for tight carbonates payzones. Suitable up to 140 °C.
- Emulsified Acid System with “retarded” characteristic that allows to be more efficient while penetrating the reservoir, with a “live” acid and higher effect in creating worm-holing than traditional HCl acid.

**All fluid system can be customized according to customer needs.**

### Water Shut-Off and P&A

One of the biggest challenges in O&G industry is to mitigate water production. The water production is part of life-cycle, especially in water-drive mechanism reservoirs. Once the Water Cut is increasing dramatically the well becomes not profitable.

**Versalis e® - seal** portfolio comprises dedicated products designed for permanent WSO using polymer sealant:

- Fluid designed for vertical or slightly deviated wells. Based on cross-link polymer fine tunable at all temperatures. It can Seal-Off the fractures becoming a rigid gel.
- Fluid designed for highly deviated and horizontal wells. This system has a thixotropic property and able to Seal-Off horizontal fractures.

**Versalis e® - cem portfolio** includes dedicated products designed for selective WSO and P&A applications:

- Smart cement with “selective” properties: based on ultra-fine cement mixed in aromatic solvent, the fluid system will activate and harden in the presence of water. The system is designed for well-know unwanted fluid production zones.

### Organic scales removal

During the production phase, the presence of asphaltenes or organic scales into the reservoir and production tubing can cause a heavy oil production decline. In order to support our customer **Versalis e® - solv** portfolio comprises dedicated products designed for organic scale removal.

### Anionic, Ionic and non-ionic surfactants

**Versalis e® - surf** portfolio comprises different surfactants used as demulsifier agent in chemicals treatments.

| PRODUCT CLASS NAME | DESCRIPTION AND INFORMATION                                       |
|--------------------|-------------------------------------------------------------------|
| Versalis e® - solv | Cleaning treatment agent for the removal of various deposits      |
| Versalis e® - acid | Acid systems designed for production enhancement and optimization |
| Versalis e® - seal | WSO fluid systems                                                 |
| Versalis e® - cem  | Selective WSO and P&A projects                                    |
| Versalis e® - surf | Anionic, Ionic and non-ionic surfactants                          |
| Versalis e® - foam | Anionic, Ionic and non-ionic surfactants                          |



## Pumping Service Equipment

Versalis Well Stimulation & Pumping Services delivers highly qualified personnel to manage on site equipment including:

- High Pressure Pumps.
- High Pressure Lines.
- Mixing Tanks.
- Storage Tanks.
- Technical Command Center.





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