



---

# Stimulation Services

---



---

## PROGRAMMING

ACID (perforating) WASHING

MATRIX ACIDIZING

hydrochloric acid

hydrochloric- hydrofluoric acid

ORGANIC ACIDS

formic and acetic acids

ACID MIXTURES

acetic- hydrochloric blends

formic hydrofluoric blends

RETARDED ACID SYSTEM

gelled acids

foamed acids

chemically retarded acids

emulsified acids

FRACTURING FLUIDS

- water base:

hydrochloric acid hydrochloroacetic blends

- oil base

GRAVEL PACK

low density system

high density system

JET PERFORATING

JET CUTTING

---

## DESIGN

DEFINITION

well conditions

definition of formations and fluid properties

type of treatment

volume to be pumped

material and equipment

FINE TUNING OF JOB DESIGN

IMPLEMENTATION OF FINAL JOB DESIGN

---

## LABORATORY

testing of acid mixtures

testing of additives

testing of rock properties and fluid properties

fluid testing (rheology for fracturing fluids)

compatibility testing

corrosion testing at low temperatures

laser determination of particle size

proppant properties

scale control properties

geothermal properties and oil field water

analysis