

Schlumberger



FracCAT



Monitoring, recording,
controlling and real-time
data transmission of
stimulation treatments

Applications

- Land and offshore stimulation treatments
- All types of fracturing treatments requiring one to three blenders
- Foam treatments
- Acid treatments

Benefits

- Precise treatments that follow design closely
- Efficient client-designed data presentations
- Confidence in job-critical decisions
- Superior job control
- Fast and easy real-time redesign
- Exceptional flexibility, performance and reliability
- Comfortable, efficient work atmosphere

Features

- Complete integration with FracCADE* design and evaluation software
- Real-time animation of equipment and treatment from surface to perforations
- Automatic control of proppant and additive concentrations
- Simultaneous control of three blenders
- Ability to use different blender types
- Clear, customizable digital displays and plots of job data
- Real-time data transmission from wellsite to any location worldwide
- More than 200 acquired or calculated job parameters
- Detailed postjob plots and reports
- Advanced, high-performance hardware
- Ergonomically designed control cabin

The FracCAT* fracturing computer-aided treatment system comprises hardware and software for monitoring, controlling, recording and reporting all types of fracturing treatments. Its real-time displays, plots, surface schematics and wellbore animations present a clear picture of the treatment as it occurs, providing decision-makers with real-time detailed job information from the surface to the perforations.

Technology and software

Using FracCAT technology, treatment design is followed and execution is precise. Integration with the Schlumberger FracCADE design and evaluation software allows job designs to be loaded directly into the FracCAT software.

During the job, the FracCAT system tracks the design and displays actual job parameters compared to planned values. FracCAT software also uses the design to control proppant and additive concentrations in as many as three blenders at the same time. This control capability ensures that actual concentrations follow the plan.

Job data are sent to the FracCADE software in real time. If the FracCADE

analysis indicates a need for design changes, the changes can be imported directly into the FracCAT software without interrupting the treatment. The FracCAT system works in conjunction with a local area network (LAN) environment, which enables networking of all PCs at the wellsite and also provides a connection to the Internet through satellite or cellular telephone technology. The Internet connectivity provides the ability to transmit real-time data from the remote wellsite to anywhere in the world for real-time analysis.

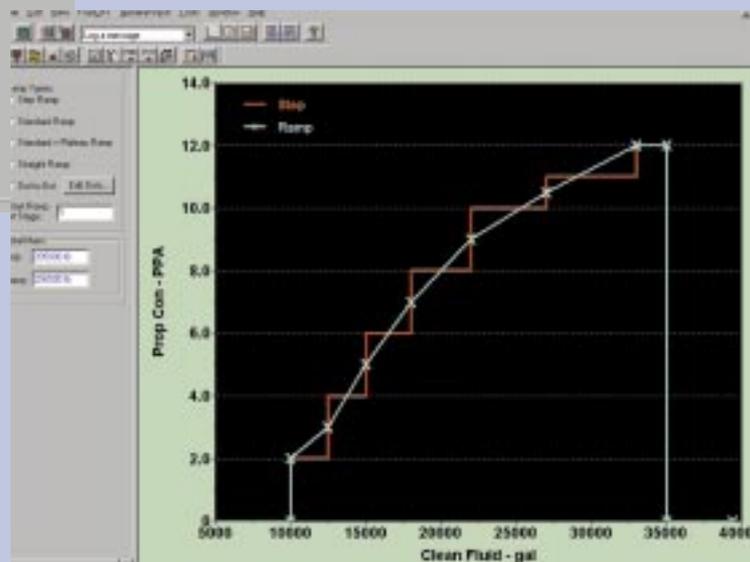
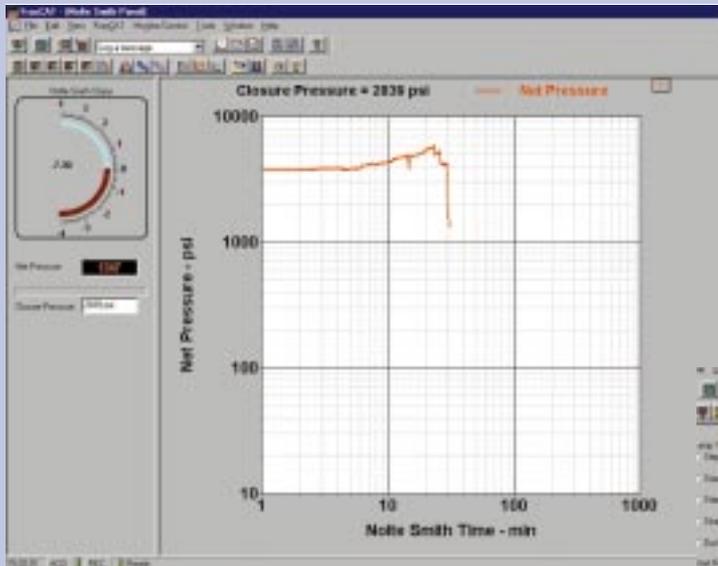
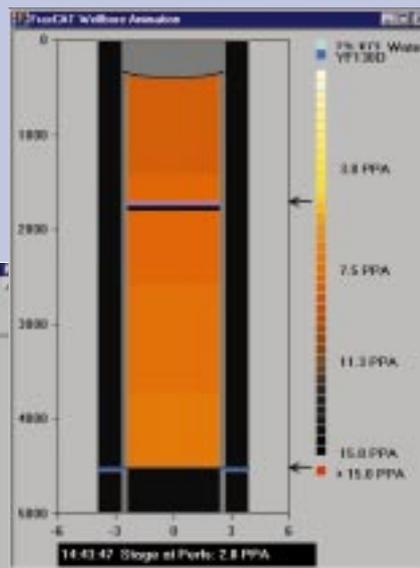
FracCAT controls make deviations from the schedule, such as extending a proppant stage or starting flush early, as simple as a single mouse-click.

Hardware

FracCAT hardware includes the latest high-performance PC systems. Innovations such as space-saving flat-panel displays and multiple monitors provide best-in-class presentation of data. All these features inside an ergonomically designed control cabin offer the ultimate job control environment and make the FracCAT system the premier tool for fracturing treatments.

FracCAT allows precise job control through different windows distributed along four flat panels.





Supervisor

Job information:

Stage **3** Of **9** Time to Flush: **00:18:20** (hr:mn:sc)

Used	Stage Slurry Volume	Remaining
24.9	34%	45.4
0	70.3	

Stage Time (hr:mn:sc) **00:00:37** **33%** **00:01:08**

0 00:01:45

Job Slurry Volume (bbl) **329.2** **28%** **831.3**

0 1160.5

Slurry Rate (bbl/min)	Actual:	Planned:	Next Plan
	39.6	40.0	40.0

Prop Conc (PPA) **9.2** **3.6** **5.0**

RDA: POD:



Hardware Status

RDA:

- RDA1 No Data
- RDA2 Unused
- RDA3 Unused
- RDA4 Unused
- RDA5 Unused
- RDA6 Unused
- PAC

POD - PODII

- Deck Not Acquiring Data
- Road Not Acquiring Data

PODB - PODII

- Deck Not Acquiring Data
- Road Not Acquiring Data

PODC - PumperPOD

- Not Acquiring Data

www.connect.slb.com

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