



The optimal use of chemicals saves operators costs and shortens the completion cycle by cleaning the wellbore more effectively.

Greenwell's automated mixing plants enable chemicals to mix properly and be delivered precisely for superior well clean-out. Our solution combines on-site advisors, custom-blended chemicals and comprehensive laboratory analysis so that we can fully control chemistries for ideal well performance.

Features	Benefits
• On-site mixing plants for chemical control	• Eliminate pump services that lack precise chemical delivery
• 80 barrel, steel tanks	• Gives time for chemicals to mix properly — achieve optimal yield
• Built-in control house with automated technology	• Allows real-time adjustments of chemical flow
• Valves and operations controlled from front of tank	• Removes risk of climbing on top of tank and makes operations safer
• On-site fluid operators	• Deliver oversight for ideal plant performance
• Remote access software	• Enables remote access into job progress via Internet connection
• In-house laboratory services	• Ensure most effective chemicals used based on fluid and chemical analysis
• Technical job reports	• Provide critical data to improve future jobs
• Totes often used in place of buckets	• Improves dosage ratios and eliminates excess trash on location



GREENWELL
ENERGY SOLUTIONS

Impacting Efficiency™

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Applications

- Plug drill outs
- Loss circulation pills
- On-site fluid blending

Comprehensive Job Reports

- Chemicals used and quantities
- Pressures at different stages
- Sweeps pumped
- Viscosity of sweeps
- Drill times of each plug

Mixing Plant Components

Automated Controls

- Real-time flow adjustments — enable immediate changes to chemical flows
- Remote access software — provides instant view of job status regardless of location

Control House

- Air conditioned work space — ensures comfortable area for multiple employees
- Test equipment — gives immediate fluid testing results

80 Barrel Tanks

- Hydraulic paddles to mix gels — improve fluid shearing and viscosity
- Central operating system — eliminates difficult-to-reach top of tank valves

Pumps

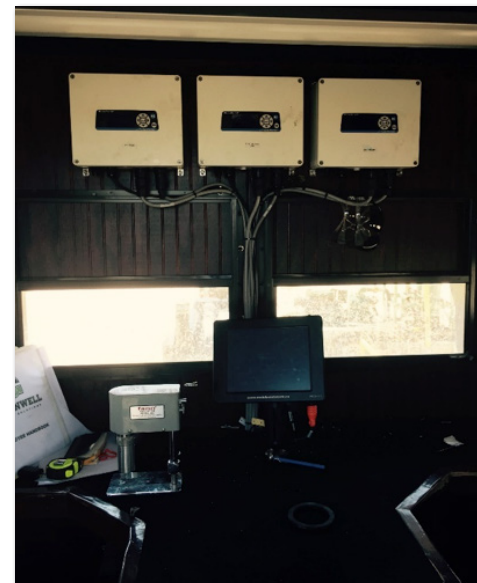
- Four inch diesel pumps — aid in efficient fluid transfer
- Trailer mounted — provides easy location maneuverability

Filtration System

- Dual pod — prevents need to break circulation if unexpected problem arises
- Cartridge filters — trap solids to prevent downhole particles that can cause clogs



Mixing tank with hydraulic paddles



Control house with automated flow management controls



High rate 6x8 transfer pump