AVOID CEMENT FAILURES

- Cement Left in Pipe
- Losses During Placement
- Mixing Issues
- Job Delays
- Poor Cement Bond Logs
- Annular Pressure

CSI can help you avoid these common cement failures.

CSI Technologies is the industry’s leading cement engineering firm and independent laboratory wholly dedicated to the improvement and advancement of oil and gas well cementing.

Through the following services, we aim to provide operators with the highest level of failure avoidance and quality support at every stage of their cementing operations.

- Laboratory Confirmation Testing/Failure Analysis
- Cement Engineering Support
- Slurry Design Review
- Blending and Job Site Supervision
- Bulk Facility/Laboratory Auditing
- Training

Services

Pre-Job Quality Assurance Testing
- Proven to be the #1 element of pro-active cement failure mitigation in the US land market.
- Samples can be received and tested on the day of final blending for 3rd party performance validation.

Basis of Design/Slurry Optimization
- Expertise to aid in slurry/spacer modifications to align slurries from any cement contractor with industry best practices.
- Ensure designs are robust and capable of performing under normal field mixing conditions.

Blending & Job Site Supervision
- A team of experienced field specialists are available to ensure that industry recognized best practices are followed during the blending and job execution stages.

Cement Failure Investigation Testing
- Root Cause Analysis methodology and testing to determine slurry related contributing factors in real-time; often completed within 48 hours of initial failure.
What should you do if a cement failure occurs?

Establish a protocol to ensure that samples of all relevant materials are collected prior to every cement job. (Do not forget water!)

- Collect minimum of 20 lb of dry cement from location (roughly half a 5 gal bucket).
- Collect minimum of 1 gal mix water.
- Collect a mud sample from time of job.
- Properly label all samples (don’t forget to identify lead from tail, and note the container number from which the sample was recovered, if applicable).

Collect Relevant Job Data
- Pressure/Rate/Density data from cementing operations.
- Mud report at time of job.
- Daily Drilling Report(s) from time of drilling TD through cement job. If losses or issues occurred while drilling, they may be valuable to the investigation as well.
- Cement Slurry Lab Report(s).
- Engineering/Simulation reports from cement service provider; these validate the slurry design conditions.

Lab Testing Capabilities

API 10B-2:
- Pressurized Density
- Surface & Conditioned Rheology
- Free Fluid
- Fluid Loss (Atmospheric & Pressurized)
- Thickening Time
- Ultrasonic Cement Analyzer (Compressive Strength)

Specialty Testing:
- Dynamic Settling Test
- Fluid Compatibilities
- Contamination Tolerance/Performance
  - Thickening Time
  - Ultrasonic Cement Analyzer (Compressive Strength)
- Additive Performance and Sensitivity Testing
- Specific Gravity of Dry Solids

Lab Facilities

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Physical Address
1930 W.W. Thorne Drive
Houston, TX 77073
Mail & Delivery Address
2202 Oil Center Court
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