Overview

The design and test of the slurry are integral parts of every cementing job. This process is time-consuming and expensive because of the variability of the conditions between wells. Traditionally, cementing engineers and lab technicians used paper forms to record test results. With the introduction of Microsoft Excel®, people began to take advantage of electronic filing. This significantly improved reporting quality; however, what was missing with this approach was management of numerous reports and search functions.

Without an efficient lab database, the following situations could arise: Difficulty in designing cement slurries, waste of resources in having to repeat similar tests, lack of proof when problems arise, and non-standard practices at various labs within a company.

In order to streamline cement lab operations, Pegasus Vertex, Inc. developed CEMLab, an integrated database management application that formulates slurry, calculates lab amounts for all ingredients (cement, dry and liquid additives, salts and water), generates weigh-up sheets, stores API test results, and generates lab reports.

This software allows quick access to all your slurry formulations and testing statuses anywhere, any time. The advanced search function allows the user to find the formula and to test it quickly.
CEMLab®—Cement Lab Data Management System

Features

- Web-based application
- Multiple labs with one central database
- Slurry design and tests
- Search by various/combined criteria
- Master cement and additive database
- Job tracking
- Remote submission of test requests
- Spacer designs and tests
- Density/porosity input
- Customized test
- Up to 5 sets of data for each test
- Test sheet
- Summary/full reports
- Email notification
- Cost calculations
- Lab management and user management (admin only)
- Compatible with IE, Edge, Firefox, Chrome and Safari
- Work on desktop, tablet and smartphone

System Requirements

- Dual-core Intel or AMD processor, 1.4 GHz or faster. Quad-core CPU recommended. Not compatible with ARM processor
- Windows Server® 2008 or later with .Net FrameWork® 3.5 and 4.6
- IIS Server®, Version 6.0 or higher
- Microsoft SQL® 2008 or higher
- 4 GB RAM
- 20 GB of free disk space
- Microsoft Office® Excel and Word 2010 or later

Client Requirements

- IE 8 or later, Edge, Firefox, Chrome and Safari
- 1 Mbps
- 1,280 x 720 display resolution
- Microsoft Office® Excel