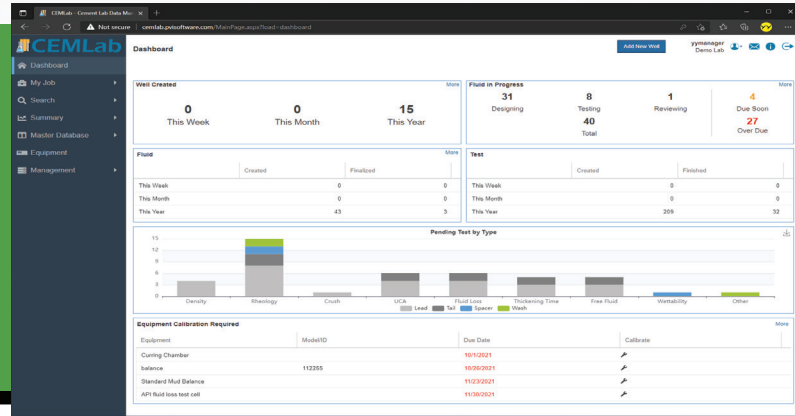


CEMLab

Cement Lab Testing & Data Management

Streamline cement slurry design and lab testing



Dashboard

OVERVIEW

The design and testing of slurry are integral aspects of every cementing job. This process is both time-consuming and costly due to the variability of conditions across different wells. Traditionally, cementing engineers and lab technicians relied on 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 the management of numerous reports and search functions.

Without an efficient lab database, challenges such as difficulty in designing cement slurries, waste of resources in having to repeat similar tests, managing large amounts of slurry data, lack of evidence when problems arise, and non-standard practices across labs within a company.

To streamline cement lab operations, LINQX (following its acquisition of Pegasus Vertex) developed CEMLab, an integrated database management application. CEMLab formulates slurry, calculates lab amounts for all ingredients (cement, dry and liquid additives, salts, and water), stores API test results, and generates weight-up sheets and lab reports.

This software provides quick access to slurry formulations and testing statuses anywhere, anytime. Its advanced search function enables users to swiftly locate formulas and tests.

KEY BENEFITS

Efficiency and Productivity

- Stores all slurry formulations and test results in one place, providing easy access and reducing search time.
- Includes all slurry, spacer and washer industrial standard tests.
- Compatible with Azure Active Directory (Azure AD).
- Support single sign-on (SSO).

Cost Savings

- By optimizing resource use and reducing the need for repetitive tests, CEMLab helps lower operational costs.
- Enhances overall lab efficiency, allowing more tests to be conducted in less time.

Quality Control

- Ensures consistent procedures across different labs within a company.
- Automated calculations and data entry minimize human error, improving overall data accuracy.

KEY FEATURES

- Web-based application
- Centralized database for multiple labs
- Integration with Azure Active Directory
- Multi-user online collaboration
- Formulation designs and calculations for lead slurry, tail slurry, spacer, and wash
- 16 standard tests and user-define test
- Search by various combined criteria
- Job tracking and due date checking
- Sample management
- Equipment database with calibration and usage monitor
- Remote submission of test and review requests
- Lot number, mixing order, history log
- Cost calculation and super sack functionality
- Lab management and user management with permission assignment (admin only)

Product	Code	Name	Group	SG	Size	Size (µm)	Vol. (%)
1	B	B	Group bbb	2.2	1	0.239	0
2	C	C	Group bbb	2.33	2	0.344	0
3	F	F	Group bbb	1.2345	3	0.409	0
4	G	g	Group DDD	0.001	4	0.578	0
5	J	J	Group DDD	4.5	5	0.688	0
					6	0.818	0.34
					7	0.972	0.42
					8	1.154	0.55
					9	1.375	0.71
					10	1.635	0.95
					11	1.945	1.21
					12	2.312	1.61
					13		
						Vol. total (%)	100.00

Rheology (Test)

Code	Component	SG	Price	Sheds	Comp.	Unit	Lot	Lot No. (SG)	Unit
class A	class A Cement	3.111	1.81 (Bbl)	70	% S/W/O/B	Dry		148.01	88
FGS	FGS	1.9	1.81 (Bbl)	10	% S/W/O/B	Dry		148.01	88
CGS	CGS	2.2	2.00 (Bbl)	10	% S/W/O/B	Dry		148.01	88
HGS10000	Glass Beadles	2.0	1.80 (Bbl)	10	% S/W/O/B	Dry		148.01	88

Slurry Design

Report No. cmt 12316
CEMLab Slurry Report
 Demo Lab
 6100 corp Dr., 713-981-5558

Well Information

Well	Pegasus Well No. 1	Client	Operator	Oil Services	ope com	Country	USA	Requisitor	Reviewer
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Job Information

Coating	Surface Coating	Job	Casing	Shoe ID (ft)	1254	Shoe TVD (ft)	1234
Coating Size (in)	15	Mud	WBM	MW (ppg)	10	BHP (psi)	10000

Slurry Properties

Density (ppg)	12.3	Cement Yield (lb/sk)	864.473	Blend Yield (lb/sk)	3.711	Porosity (%)	59.88	S/V (%)	40.11	Water Salinity (ppm)	72500	Mix Fluid (gal/sk)	16.027	Solid Component SG	2.728
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Slurry Composition

Order	Code	Component	Concentration	Unit	Mode	Lot #
1	class A	class A Cement	70	% S/W/O/B	Dry	
2	FGS	FGS	10	% S/W/O/B	Dry	
3	CGS	CGS	10	% S/W/O/B	Dry	
4	HGS10000	Glass Beadles	10	% S/W/O/B	Dry	
5	BBS	LCM	2	% S/W/O/B	Dry	
6	D076	Weighting	1	% S/W/O/C	Dry	

Density - cmt 12316-Density

Temperature (°F)	88	Pressure (psi)	15	Density (ppg)	12.5
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Rheology - cmt 12316-Rheology

T (°F)	P (psi)	Time (min)	300	100	80	30	6	3	PV (cP)	YP (lb-ft/100lb)	Gel (lb-ft/100lb)		
88	15	25	99	88	77	66	55	44	33	59.6	49.2	15	20

Rheology - cmt 12316-Rheology2

T (°F)	P (psi)	Time (min)	300	200	100	80	30	6	3	PV (cP)	YP (lb-ft/100lb)	Gel (lb-ft/100lb)	
120	55	25	100	80	80	70	60	50	40	54.2	55.4	12	13

UCA - cmt 12316-UCA

Ramp Time (hr:min)	T (°F)	P (psi)	Final	Compressive Strength (psi) @ Time (hr:min)
1:00	15	122	55	11:00 7200 10:00 2400 48:00 4800 72:00 4000

Fluid Loss - cmt 12316-FL

T (°F)	P (psi)	Conditioning Time (min)	Condition	Blow Out	Fluid Loss (mL/50m)
88	15	25	Static	No	18

Thickening Time - cmt 12316-TT

Bath Mix (hr:min)	T (°F)	Ramp Time (hr:min)	Initial	Final	Time to Consistency (h)
0:10	88	1:00	88	15	122 55 10 30 70 100

Free Fluid - cmt 12316-FF

T (°F)	Time (min)	Static 2 hr T (°F)	Inclination (deg)	Free Fluid (mL)	Free Fluid (%)	Setting	
88	25	88	90	250	100	50:00	No

The above data is supplied for informational purposes, and the company that generated this report makes no guarantee or warranties, either expressed or implied, with respect to accuracy of use of these data and interpretations.

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Cementing Lab Report



STANDARDIZE CEMENT LAB DATA ACROSS WELLS

See CEMLab in Action—Request Your Demo Today

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