

**WEXPRO COMPANY E-BILL
DO NOT MAIL - PO BOX 45601
SALT LAKE CITY, Utah**

JC Donnell #7

Post Job Summary **Plug to Abandon Service**

Date Prepared 8/8/2012:
Version: 1

Service Supervisor: DENT, JEROD

Submitted by: Rock Springs Engineering

HALLIBURTON

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Service Summary

Halliburton appreciates the opportunity to perform the cementing services on the Wexpro JC Donnell 7 PTA cement job. A pre-job safety meeting was held before the job where details of the job were discussed, potential safety hazards were reviewed, and environmental compliance procedures were outlined.

An ISIP of 1520 psi was established at a rate of 0.5 bpm. During the job, full circulation was maintained throughout the job and a successful squeeze and plugs were indicated for the job

Halliburton maintains a continuous quality improvement process and appreciates any comments or suggestions that you may have. Halliburton again thanks you for the opportunity to perform service work on this well. We hope to be your solutions provider for future projects.

Respectfully,

HES Rock Springs Cement

Wellbore Geometry

Job Tubulars					MD		Shoe Joint Length ft
Type	Description	Size in	ID in	Wt lbm/ft	Top ft	Bottom ft	
Casing	Production Casing	5.50	4.950	15.50	0.00	4,925.00	N/A
Casing	Surface Casing	8.63	7.825	36.00	0.00	1,500.00	N/A
Tubing	Tubing	2.38	1.995	4.70	0.00	4,925.00	N/A

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Planned Pumping Schedule

Stage / Plug #	Fluid #	Fluid Type	Fluid Name	Surface Density lbm/gal	Avg Rate bbl/min	Surface Volume	Downhole Volume
1	1	Cement Slurry	Mountain G	15.80	0.5	60.0 sacks	60.0 sacks
1	2	Cement Slurry	Poz/Gel	9.00	3	70.0 sacks	70.0 sacks
1	3	Cement Slurry	Mountain G	15.80	2	45.0 sacks	45.0 sacks
1	4	Cement Slurry	Mountain G	15.80	1.5	65.0 sacks	65.0 sacks

Fluids Pumped

Stage/Plug # 1 Fluid 1: Mountain G
Mountain G
94 lbm Premium Cement
0.1 % Halad(R)-322

Fluid Weight: 15.80 lbm/gal
Slurry Yield: 1.15 ft³/sack
Total Mixing Fluid: 4.99 Gal

Stage/Plug # 1 Fluid 2: Poz/Gel
Poz/Gel
70.0 lbm Pozmix A
15 lbm Halliburton Gel

Fluid Weight: 9.00 lbm/gal
Slurry Yield: 9.94 ft³/sack
Total Mixing Fluid: 70.07 Gal

Stage/Plug # 1 Fluid 3: Mountain G
Mountain G
94 lbm Premium Cement
2 % Calcium Chloride, Pellet

Fluid Weight: 15.80 lbm/gal
Slurry Yield: 1.16 ft³/sack
Total Mixing Fluid: 5.01 Gal

Stage/Plug # 1 Fluid 4: Mountain G
Mountain G
94 lbm Premium Cement
1 % Calcium Chloride, Pellet

Fluid Weight: 15.80 lbm/gal
Slurry Yield: 1.16 ft³/sack
Total Mixing Fluid: 5.00 Gal

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Job Summary

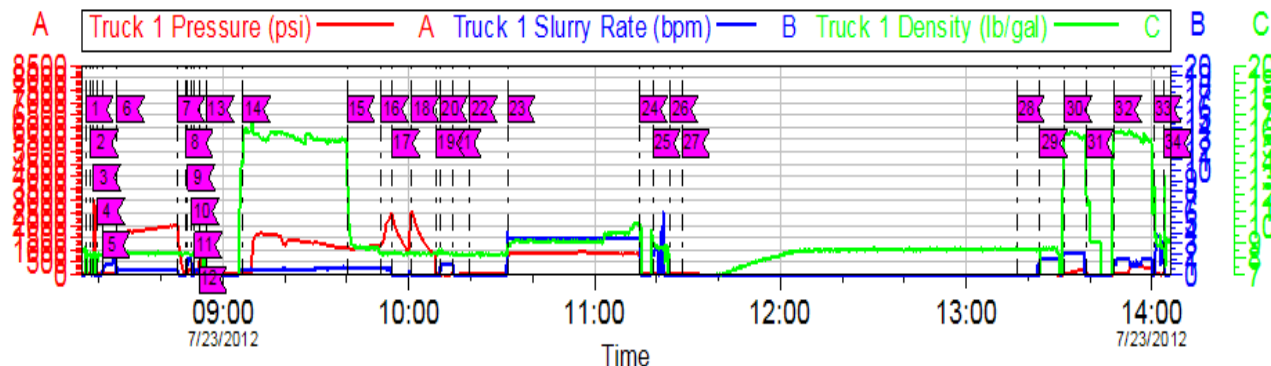
Job Information

Job Start Date	7/23/2012 8:15:00 AM
Job MD	4,925.0 ft
Height of Plug Container/Swage Above Rig Floor	3.0 ft
Surface Temperature at Time of Job	74 degF
Pipe Movement During Hole Circulation	None
Pipe Movement During Cementing	None

Did Pipe Pull Dry?	Pipe Pulled Dry
Rate Pipe Was Pulled	10.00
Job Displaced by (rig/halco)	Cement Unit HP Pumps
Annular flow Before Job? (Water/Gas)	No
Annular flow After Job? (Water/Gas)	No

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Data Acquisition



Local Event Log											
Intersection				Intersection							
		T1P	T1SR	T1D		T1P	T1SR	T1D			
1	START JOB/FILL LINES	08:15:41	19.06	1.689	8.191	2	SHUTDOWN	08:17:18	20.00	1.900	8.260
3	PRESSURE TEST	08:18:06	3022	0.000	8.340	4	RELEASE PRESSURE	08:19:19	18.00	0.000	7.458
5	LOAD TUBING	08:21:02	17.00	0.000	8.277	6	SLOW RATE	08:25:48	1084	0.000	8.355
7	SHUTDOWN/EST ISIP	08:45:16	1989	0.500	8.353	8	RIG STINGS OUT	08:47:51	34.28	0.000	8.361
9	LOAD CASING	08:48:38	145.9	1.699	8.280	10	SHUTDOWN	08:49:50	106.6	0.000	8.270
11	PRESSURE UP BACKSIDE	08:50:46	18.00	0.000	8.254	12	RIG STINGS IN	08:52:20	582.7	0.000	8.300
13	MIX CEMENT	08:54:41	10.000	0.000	-0.424	14	PUMP CEMENT	09:06:25	18.00	0.400	14.04
15	START DISPLACEMENT	09:40:09	1112	0.600	13.47	16	START SQUEEZE	09:51:04	1214	0.600	8.323
17	SHUTDOWN/HESITATE	09:54:34	2431	0.000	8.340	18	END SQUEEZE	10:00:58	2552	0.000	8.291
19	RIG STINGS OUT	10:08:52	20.13	0.000	8.329	20	DISPLACE CEMENT TO BALANCE	10:10:09	5.000	0.518	8.364
21	SHUTDOWN	10:14:21	12.00	0.955	8.280	22	RIG PULLS STANDS	10:19:42	12.00	0.000	8.269
23	PUMP POZ/GEL	10:31:54	30.67	4.078	8.299	24	SHUTDOWN	11:14:39	851.3	3.500	10.19
25	CLEAN LINES	11:18:49	14.35	1.800	9.040	26	SHUTDOWN	11:24:30	9.000	0.000	2.970
27	POOH	11:28:18	9.000	0.000	5.759	28	RIH	13:16:22	-15.00	0.000	8.577
29	PUMP WATER AHEAD	13:23:45	-14.62	0.000	8.613	30	PUMP SURFACE PLUG	13:31:46	50.56	2.000	15.82
31	SHUTDOWN	13:38:42	33.84	0.000	12.16	32	BULLHEAD SQUEEZE	13:47:48	13.00	1.000	15.83
33	SHUTDOWN	14:00:36	101.3	0.000	11.31	34	END JOB	14:03:50	18.00	2.900	8.730

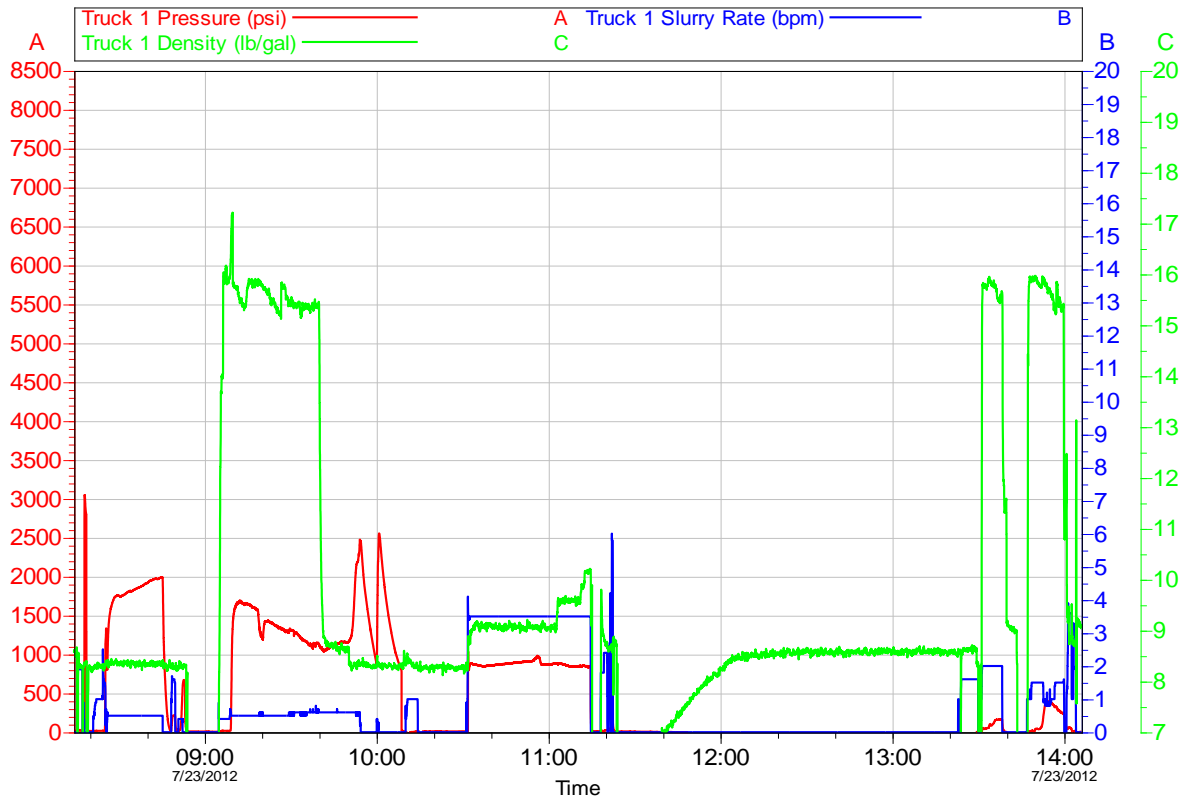
Customer: WEXPRO BASIC 1601
Well Description: JC DONNELL

Job Date: 23-Jul-2012
UWI: JOB DESCRIPTION PTA

Sales Order #: 9685144
SERVICE SUPERVISOR JEROD DENT

OptiCem v6.4.21
23-Jul-12 14:24

HALLIBURTON



Customer: WEXPRO BASIC 1601	Job Date: 23-Jul-2012	Sales Order #: 9685144	OptiCem v6.4.21 23-Jul-12 14:20
Well Description: JC DONNELL	UWI: JOB DESCRIPTION PTA	SERVICE SUPERVISOR JEROD DENT	

Service Supervisor Reports

Job Log

Date/Time	Chart #	Activity Code	Pump Rate	Cum Vol	Pressure (psig)		Comments
07/23/2012 01:00		Call Out					CALLED OUT ON WEXPRO PLUG TO ABANDON
07/23/2012 02:30		Pre-Convoy Safety Meeting					HAD SAFETY MEETING DURING VEHICLE INSPECTIONS
07/23/2012 03:00		Crew Leave Yard					HES CREW LEAVES YARD
07/23/2012 05:30		Arrive At Loc					HES CREW ARRIVES AT WEXPRO PLUG TO ABANDON LOCATION
07/23/2012 05:45		Pre-Rig Up Safety Meeting					HES CREW HELD SAFETY MEETING FOR RIG UP
07/23/2012 05:55		Rig-Up Equipment					HES RIGS UP ALL EQUIPMENT
07/23/2012 07:30		Rig-Up Completed					RIG UP COMPLETED /SAFETY MEETING WITH RIG CREW AND CUSTOMER TO DISCUSS JOB AND HAZARDS OF JOB
07/23/2012 08:15	1	Start Job	1.5	3	19.0		START JOB & FILLED LINES WITH 3 BBLS H2O
07/23/2012 08:17	2	Shutdown					SHUTDOWN TO PRESSURE TEST
07/23/2012 08:18	3	Pressure Test					PRESSURE TEST HES IRON TO 3022 PSI
07/23/2012 08:19	4	Other					RELEASE PRESSURE
07/23/2012 08:21	5	Load Tubing	1.5	4.5	17.0		PUMP INTO TUBING TO LOAD UP UNDER RETAINER AND LOAD TUBING
07/23/2012 08:25	6	Slow Rate	0.5	15	1084.0		SLOW RATE WHEN ACHIEVING GOOD PRESSURE
07/23/2012 08:45	7	Shutdown			1989.0		SHUTDOWN TO ESTABLISH ISIP OF 1520 PSI AT .5 BBL/MIN
07/23/2012 08:47	8	Other					RIG STINGS OUT OF RETAINER
07/23/2012 08:48	9	Load Casing					PUMP INTO TUBING TO LOAD UP CASING
07/23/2012 08:49	10	Shutdown				106.0	SHUTDOWN WITH .5 BBLS AND ESTABLISHED RETURNS
07/23/2012 08:50	11	Pressure Up Annulus				634.0	PRESSURE UP ON BACKSIDE TO HOLD 600 PSI PER CUSTOMER REQUEST
07/23/2012 08:52	12	Other					RIG STINGS INTO RETAINER
07/23/2012 08:54	13	Other					MIX UP A TUB OF CEMENT AND VERIFY CORRECT WEIGHT
07/23/2012 09:06	14	Pump Cement	0.5	12.3	18.0		MIX AND PUMP 60 SACKS OF MOUNTAIN G CEMENT AT 15.8 PPG,1.15 YLD, AND4.99 GAL/SK
07/23/2012 09:40	15	Pump Displacement	0.5	9.3	1112.0		PUMP 9.3 BBLS OF DISPLACEMENT
07/23/2012 09:51	16	Start Squeeze	0.5	0.2	1214.0		START SQUEEZE
07/23/2012 09:54	17	Shutdown			2431.0		SHUTDOWN WITH 9.5 BBLS DISPLACEMENT AWAY. HESITATE ON CEMENT
07/23/2012 10:00	18	Other			2552.0		END SQUEEZE
07/23/2012 10:08	19	Other					RIG STINGS OUT
07/23/2012 10:10	20	Pump Displacement	1	7.75	5.0		DISPLACE CEMENT TO BALANCE ON TOP OF RETAINER WITH 7.75 BBLS DISPLACEMENT
07/23/2012 10:14	21	Shutdown					SHUTDOWN
07/23/2012 10:19	22	Other					RIG PULLS 12 JOINTS OF TUBING

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Date/Time	Chart #	Activity Code	Pump Rate	Cum Vol	Pressure (psig)		Comments
07/23/2012 10:31	23	Pump Gel – Start	3	123.92	30.0		MIX AND PUMP SACKS OF POZ-PLUG AT 9 PPG, 9.94YLD, 70.07 GAL/SK
07/23/2012 11:14	24	Shutdown					SHUTDOWN
07/23/2012 11:18	25	Clean Lines					WASH PUMPS/LINES TO PIT
07/23/2012 11:24	26	Shutdown					SHUTDOWN
07/23/2012 11:28	27	Other					RIG PULLS TUBING OUT OF HOLE
07/23/2012 13:16	28	Other					RIG RUNS TUBING BACK INTO HOLE TO 360' TO SPOT SURFACE PLUG
07/23/2012 13:23	29	Pump Water	2	10	.0		PUMP 10 BBLS OF WATER AHEAD
07/23/2012 13:31	30	Pump Cement	2	9.3	50.0		MIX AND PUMP 45 SACKS OF MOUNTAIN G CEMENT AT 15.8 PPG, 1.16 YLD, 5.01 GAL/SK. PUMP CEMENT TO SURFACE IN 5.5" CASING
07/23/2012 13:38	31	Shutdown					SHUTDOWN
07/23/2012 13:47	32	Pump Cement	1.5	13.4	450.0		MIX AND PUMP 65 SACKS OF MOUNTAIN G CEMENT AT 15.8 PPG, 1.16 YLD, 5.00 GAL/SK. BULLHEAD SQUEEZE INTO 8.625" BY 5.5" ANNULUS
07/23/2012 14:00	33	Shutdown					SHUTDOWN
07/23/2012 14:03	34	End Job					HES CREW ENDS PTA JOB.
07/23/2012 14:05		Other					GOOD RETURNS THROUGHOUT JOB, SUCCESFULL SQUEEZE AND PLUGS.

The Road to Excellence Starts with Safety

Sold To #: 343491	Ship To #: 2940877	Quote #:	Sales Order #: 9685144
Customer: WEXPRO COMPANY E-BILL	Customer Rep: Workover, .		
Well Name: JC Donnell	Well #: #7	API/UWI #:	
Field:	City (SAP): CRAIG	County/Parish: Moffat	State: Colorado
Job Purpose: Plug to Abandon Service			
Well Type: Producing Well	Job Type: Plug to Abandon Service		
Sales Person: VOLNER, THOMAS	Srvc Supervisor: DENT, JEROD	MBU ID Emp #:	457336

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BERRY, COLT Walker	9	509357	DEAN, BENNIE Lee	9	487632	DENT, JEROD Judd	9	457336
			DRANEY, CHANCE Skinner	9	507209	LOOMIS, ROBERT Neil	9	358959
SPINDLER, DAVID Joseph	9	481522						

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10714289C	100 mile	10719789	100 mile	10867409	100 mile	11139002	100 mile
11139006	100 mile	11380723	100 mile				

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
	9	7						
TOTAL	Total is the sum of each column separately							

Job

Job Times

Formation Name	Formation Depth (MD)	Top	Bottom	Form Type	Job depth MD	Job Depth TVD	Water Depth	Perforation Depth (MD)	From	To	Called Out	Date	Time	Time Zone
				BHST	4925. ft	4925. ft						23 - Jul - 2012	01:00	MST
											On Location	23 - Jul - 2012	05:30	MST
											Job Started	23 - Jul - 2012	08:15	MST
											Job Completed	23 - Jul - 2012	14:03	MST
											Departed Loc	23 - Jul - 2012	14:30	MST

Well Data

Description	Max pressure Psig	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD Ft	Top TVD ft	Bottom TVD ft
5 1/2" Production		5.5	4.95	15.5			.	4925.		
8 5/8" Surface		8.625	7.825	36.			.	1500.		
2 3/8" Tubing		2.375	1.995	4.7			.	4925.		

Tools and Accessories

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug			
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer	5.5	1	COMP	4917	SSR plug set			
Insert Float										Plug Container			
Stage Tool										Centralizers			

Miscellaneous Materials

Gelling Agt	Conc	Surfactant	Conc	Acid Type	Qty	Conc	%
Treatment Fld	Conc	Inhibitor	Conc	Sand Type	Size	Qty	

Fluid Data

Stage/Plug #: 1									
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft ³ /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	Mountain G	CMT - PREMIUM - CLASS G, 94 LB SK (100003685)	60.0	sacks	15.8	1.15	4.99	.5	4.99
	94 lbm	CMT - PREMIUM - CLASS G REG OR TYPE V, BULK (100003685)							
	1 %	HALAD(R)-322, 50 LB (100003646)							
	4.928 Gal	FRESH WATER							
2	Poz/Gel	POZMIX A FLYASH (100003690)	70.0	sacks	9.0	9.94	70.09	3	70.07
	70.5 lbm	POZMIX A (BULK) FLYASH (100003690)							
	15 lbm	HALLIBURTON GEL, 50 LB SK (100064040)							
	70.092 Gal	FRESH WATER							
3	Mountain G	CMT - PREMIUM - CLASS G, 94 LB SK (100003685)	45.0	sacks	15.8	1.16	5.01	2	5.01
	94 lbm	CMT - PREMIUM - CLASS G REG OR TYPE V, BULK (100003685)							
	2 %	CALCIUM CHLORIDE, PELLET, 50 LB (101509387)							
	5.019 Gal	FRESH WATER							
4	Mountain G	CMT - PREMIUM - CLASS G, 94 LB SK (100003685)	65.0	sacks	15.8	1.16	5.0	1.5	5.0
	94 lbm	CMT - PREMIUM - CLASS G REG OR TYPE V, BULK (100003685)							
	1 %	CALCIUM CHLORIDE, PELLET, 50 LB (101509387)							
	5.004 Gal	FRESH WATER							
Calculated Values		Pressures		Volumes					
Displacement	19.03	Shut In: Instant	1520	Lost Returns		Cement Slurry	158.95	Pad	
Top Of Cement	4831	5 Min		Cement Returns		Actual Displacement	19.03	Treatment	
Frac Gradient		15 Min		Spacers		Load and Breakdown		Total Job	178.95
Rates									
Circulating	0	Mixing	0.5	Displacement	0.5	Avg. Job	0.5		
Cement Left In Pipe	Amount	86 ft	Reason	CEMENT CAP ON TRETAINER					
Frac Ring # 1 @	ID	Frac ring # 2 @	ID	Frac Ring # 3 @	ID	Frac Ring # 4 @	ID		
The Information Stated Herein Is Correct				Customer Representative Signature					

Water Analysis Report

COMPANY: WEXPRO Date Recorded 7/23/2012

SUBMITTED BY: JEROD DENT SO# 9685144

LEASE: JC DONNELL Job Type PTA

WELL #: 7 Camp Location Rock Springs WYO

CEMENT MIX WATER REQUIREMENTS

Item	Recorded Test Value	Units	Max. Acceptable Limit	Potential Problems in Exceeding Limit
pH	8	----	6.0 - 8.0	Chemicals in the water can cause severe retardation
Chlorides	0	ppm	3000 ppm	Can shorten thickening time of cement
Sulfates	<200	ppm	1500 ppm	Will greatly decrease the strength of cement
Total Hardness	120	ppm	500 mg/L	High concentrations will accelerate the set of the cement
Calcium	25	ppm	500 ppm	High concentrations will accelerate the set of the cement
Total Alkalinity	120	ppm	1000 ppm	Cement is greatly retarded to the point where it may not set up at all (typically occurs @ pH ≥ 8.3).
Potassium	0	ppm	5000 ppm	High concentrations will shorten the pump time of cement (indicates the presence of chlorides, therefore if
Iron	0	ppm	300 ppm	High concentrations will accelerate the set of the cement
Temperature	68	°F	50-80 °F	High temps will accelerate; Low temps may risk freezing in cold weather

Item	Approximate Calculated Value	Units	Max. Acceptable Limit	Potential Problems in Exceeding Limit - Calculation Method
Magnesium	95	ppm	300 ppm	High concentrations will accelerate the set of the cement