
From: Jesse Gagliano
Sent: Monday, April 26, 2010 10:07 AM
To: Brett W Cocalis (Brett.Cocalis@bp.com)
Subject: 9 7/8" X 7" Lab Test
Attachments: Location Blend 9 GPHS SCR-100L BC18-73909.2.pdf

Importance: High

See attached. Lab test not captured in Post Job Report.

Jesse Gagliano
Halliburton Energy Services
Account Representative - Cementing
Office - 281-366-6106
Cell - 281-635-4798
Fax - 713-583-9700
E-mail - jesse.gagliano@halliburton.com

EXHIBIT #	<u>709</u>
WIT:	_____

HALLIBURTON

Cementing Gulf of Mexico, Broussard

LAB RESULTS - Primary

Job Information

Request/Slurry	73909/2	Rig Name	TRANSOCEAN HORIZON	Date	April 12th 2010
Submitted By	Jesse Gagliano	Job Type	9 7/8" X 7" Prod Casing	Bulk Plant	Fourchon-C-Port I, La, USA
Customer	BP	Location	Mississippi Cny	Well	Mississippi Canyon 252 OCS-G-32306 Macondo #1

Well Information

Casing/Liner Size	7"	Depth MD	18360 ft	BHST	210 F
Hole Size	9 7/8"	Depth TVD	18360 ft	BHCT	135 F

Drilling Fluid Information

Mud Company	MI	Type	SOBM	Density	14,1 PPG	PV/YP
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Cement Information - Primary Design

Conc	UOM	Cement/Additive	Sample Type	Sample Date	Lot No.	Cement Properties	
						Slurry Density	16.741 PPG
						Slurry Yield	1.37 FT3
100.00	% BWOC	Lafarge Class H	Rig	Apr 05, 2010	Tank # 8	Water Requirement	4.93 GPS
0.07	% BWOC	EZ-FLO	Rig	Apr 05, 2010		Total Mix Fluid	5.02 GPS
0.25	% BWOC	D-Air 3000	Rig	Apr 05, 2010		Foam Density	14.496 PPG
						Foam Quality	12.98 %
1.88	lb/sk	KCl (Potassium Chloride) Salt	Rig	Apr 05, 2010		Water Source	Fresh Water
20.00	% BWOC	SSA-1 (Silica Flour) - PB	Rig	Apr 05, 2010		Water Chloride	N/A ppm
15.00	% BWOC	SSA-2 (100 Mesh) - PB	Rig	Apr 05, 2010			
0.20	% BWOC	SA-541	Rig	Apr 05, 2010			
0.11	gps	ZoneSealant 2000	Lab	Mar 15, 2009			
0.09	gps	SCR-100L	Lab	Oct 22, 2009	6264		
4.93	gps	Fresh Water	Lab	Apr 12, 2010	FRESH WATER		

Operation Test Results Request ID 73909/2

Thickening Time, Request Test ID:812338

Temp (°F)	Pressure (psi)	Reached in (min)	Start BC	30 Bc (hh:mm)	40 Bc (hh:mm)	50 Bc (hh:mm)	70 Bc (hh:mm)
135	14,458	83	14	07:25	07:34	07:36	07:37

Mud Balance Density, Request Test ID:811529

Density (ppg)

16.7

from part 1

Mixability (0 - 5) - 0 is not mixable, Request Test ID:811524

Mixability rating (0 - 5)

4

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UCA Comp. Strength, Request Test ID:811522

End Temp (°F)	Pressure (psi)	50 psi (hh:mm)	500 psi (hh:mm)	12 hr CS (psi)	24 hr CS (psi)	48 hr CS (psi)
210	14,458	08:12	08:40	2,301	2,966	3,099

Circulate before pouring C.S. for 3 Hrs

Operation Test Results Request ID 73909/1**Crush Compressive Strength, Request Test ID:806069**

Curing Temp (°F)	Time 1 (hrs)	Strength 1	Time 2 (hrs)	Strength 2	Time 3 (hrs)	Strength 3	Foam quality
180	12	0	24	0	48	1,590	0

Condition for 1.5 hrs

FYSA Viscosity Profile & Gel Strength, Request Test ID:806074

Test Temp (°F)

80

600=14, 300=7, 200=5, 100=3, 60=1, 30=1, 6=1, 3=1.... 6D=1, 3D=1

Non API Rheology, Request Test ID:806075

Test temp (°F)	600	300	200	100	60	30	20	10	6	3
80	180	84	56	28	26	8	6	4	2	2

Non API Rheology, Request Test ID:806076

Test temp (°F)	600	300	200	100	60	30	20	10	6	3
135	130	56	40	20	12	8	6	4	4	2

Foam Mix and Stability, Request Test ID:813603

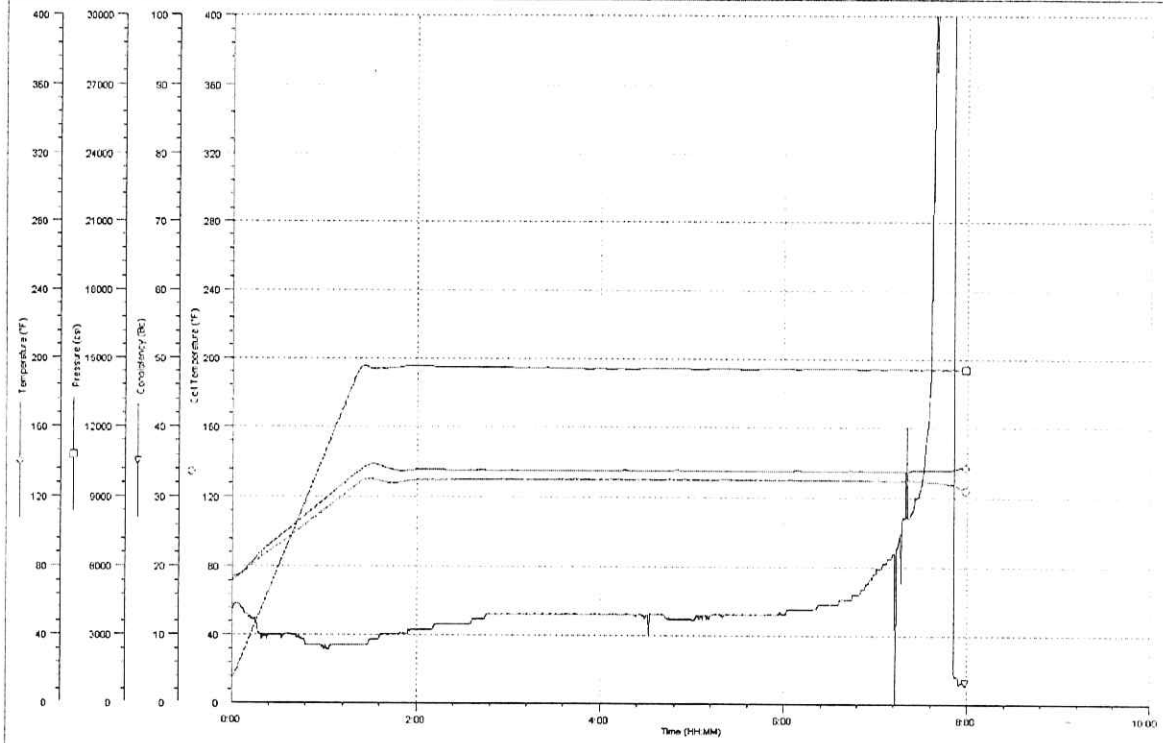
Time to Foam [Sec]	SG top	SG bot.	Conditioning time (hrs:min)
8	1.8	1.8	03:00

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Temperature 137 °F
Cell Temperature 124 °F

Pressure 14503 psi

Consistency 3 Bc

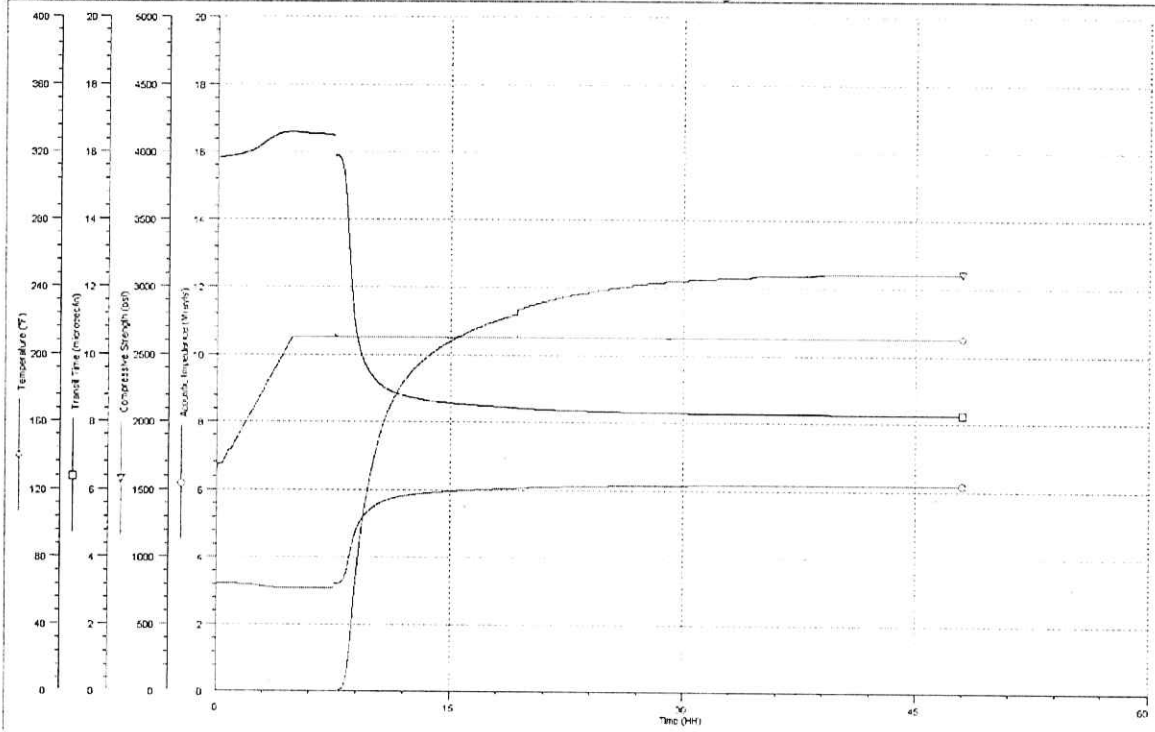


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Well ID:
Temperature: 210 °F
Transit Time: 8.24 microssc/in

Customer:
Strength: 3099 psi
Compressive strength test B (more than 14 lb/gal)

50 psi @ 12.00
500 psi @ 1.48 30



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