

Cement Lab Weigh-Up Sheet, Feb 10, 2010 - Req/Slurry: US-65112/1



Request Id	65112	Rig	TRANSOCEAN HORIZON	Engineer	Jesse Gagliano
Slurry No.	1	Customer	BP	Request Type	FROM MARCHON
Job	Production Casing	Well	Mississippi Canyon 252	Request Date	10.02.2010
Pipe Size	9.625	Location	Mississippi Cny	Required By	12.02.2010
Hole Size	12.25	Slurry Type	Lead	TradeMark	
Plant Name	Fourchon-C-Port I, La.			Slurry Name	

Test Conditions

BHST	128 °C / 262 °F	Batch Mix	0 min	MD	5989 m / 19650	Pressure	1099 bar / 15945 psi
BHCT	106 °C / 223 °F	Heating time	89 min	TVD	5989 m / 19650	Mud Density	1.75 SG / 14.6 PPG

Slurry Details

Density	2.006 S.G.	Water Req.	43.69 L/100kg	Yield	90.8 L/100kg	Total liquid	44.58 L/100kg
	16.741 PPG		4.92 gal/sack		1.37 ft <sup>3</sup> /sack		5.02 gal/sack
Pychrometer	35.000 %	Chloride conc.	0 PPM	Blend Weight	908.69 g	Sack Weight	94.00 lbs

Materials

Concentration	Lab	Material	Test Amount	Source	Lot No.	Date	Sample Id
100.00 % BWOC	(US-LFT)	Lafarge Class H	560.77 g	TRANSOCEAN	LOCATION	29.12.09	59335
0.070 % BWOC	(US-LFT)	EZ-FLO	0.46 g	BLEND			
0.250 % BWOC	(US-LFT)	D-Air 3000	1.89 g				
1.880 lb/sk	(US-LFT)	KCl (Potassium Chloride)	13.22 g				
20.000 % BWOC	(US-LFT)	SSA-1 (Silica Flour) - PB	132.75 g				
15.000 % BWOC	(US-LFT)	SSA-2 (100 Mesh) - PB	99.12 g				
0.200 % BWOC	(US-LFT)	SA-541	7.32 g				
0.110 gps	(US-LFT)	ZoneSealant 2000	6.88 g				
0.100 gps	(US-LFT)	SCR-100L	6.80 g		2117		
4.92 gps	(US-LFT)	SCR (Fresh) Water	288.10 g	TRANSOCEAN		29.12.09	59335

Test Results

\* use city H2O as per Jesse

Mixability (0 - 5) - 0 is not mixable	Mud Balance Density
Mixability rating (0 - 5)	Density (SG)
1.75	Density (ppg)

Foam Mix and Stability at 180 deg F

Sink [mm]	Time to Foam	Average Mix	Foam Density [SG]	SG top	SG bot.	Conditioning time
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Thickening Time (Need 5 - 6 Hrs., SCR-100L Lot #2117) at 223 deg F

11:00 am 2-11-10 BB

Temp (°F)	Pressure	Batch Mix	Reached	Start BC	30 Bc	40 Bc	50 Bc	70 Bc	100 Bc	Termination	Termination
223	15945	0	89	14	215	10:59	3:01	3:04			

UCA Comp. Strength (UCA for 12, 24, & 48 Hrs. Circulate before pouring C.S. for 3 Hrs) at 262 deg F

End Temp	Pressure	50 psi	500 psi	8 hr CS	12 hr CS	16 hr CS	24 hr CS	48 hr CS	End CS	End Time	Crush CS
262	15945										

Crush Compressive Strength (12, 24, & 48 Hrs Crush, Foamed to 14.5 ppg) at 262 deg F

Condition	Curing	Curing	Time 1	Strength 1	Time 2	Strength 2	Time 3	Strength 3	Time 4	Strength 4	Foam
	262	-	12		24		48				

Non API Rheology at 80 deg F

Test temp	600	300	200	100	60	30	20	10	6	3	Condition
80											

Non API Rheology at 130 deg F

Test temp	600	300	200	100	60	30	20	10	6	3	Condition
130											

Non API Rheology at 190 deg F											
Test temp	600	300	200	100	60	30	20	10	6	3	Condition
190											

FYSA Viscosity Profile & Gel Strength at 80 deg F															
Test	600	300	200	100	60	30	6	3	3D - 3	6D - 6	Condit	Gel 10	Gel 30	K1	K2
80															

**Request/Project Comments**  
 Use location Blend and Rig water in lab  
 Use SCR-100L LOT#:2117

Required Tests			
Test Id	Test Type	Test Temp (F)	Conditions / Req. Properties
719469	Thickening Time	223	Need 5 - 6 Hrs., SCR-100L Lot #2117
719470	UCA Comp. Strength	262	UCA for 12, 24, & 48 Hrs, Circulate before pouring C.S. for 3 Hrs
719471	Crush Compressive Strength	262	12, 24, & 48 Hrs Crush, Foamed to 14.5 ppg
719451	Mixability (0 - 5) - 0 is not mixable		
719472	Foam Mix and Stability	180	
719476	FYSA Viscosity Profile & Gel Strength	80	
719473	Non API Rheology	80	
719474	Non API Rheology	130	
719475	Non API Rheology	190	
719468	Mud Balance Density		

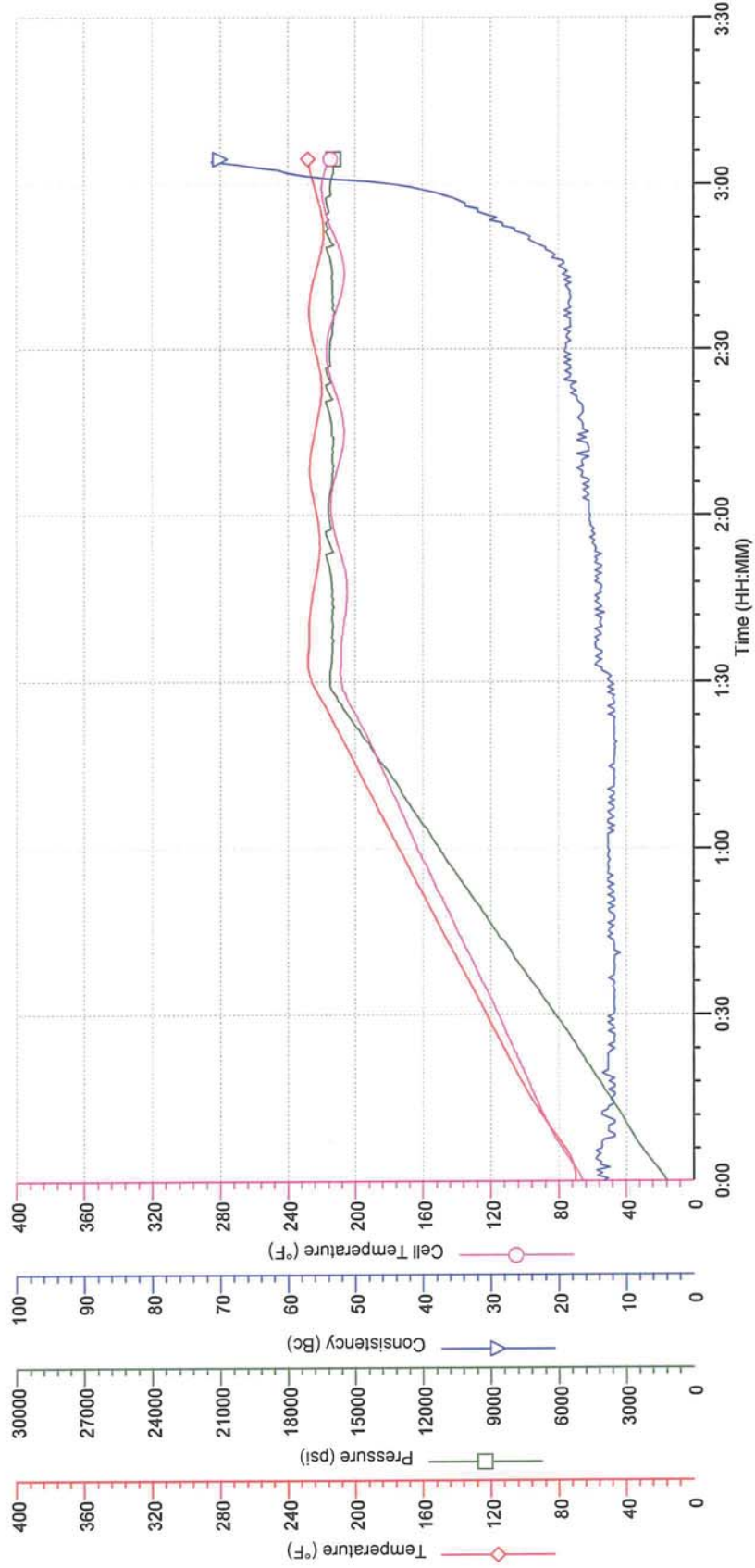
**Slurry Specific Comments**  
 Use location Blend and Rig water in lab  
 Use SCR-100L LOT#:2117

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Company:  
 Job Type:  
 Well Info:  
 Project Number: 65112[1].1.tst  
 Slurry:

Slurry Density (ppg):  
 BHCT (°F):  
 N/A



**Halliburton**  
 Gulf Coast NWA Laboratory

Project Code: 65112[1].1.tst

**BUSINESS CONFIDENTIAL**

HAL\_DOJ\_0000210



AN SAMPLES (Scan Weigh-up sheet to finish)

ID 00135385  
 Test Id 65112  
 Rig TRANSOCEAN  
 Customer BP  
 Engineer Jesse Gagliano  
 Request Type Operation  
 Production Casing  
 Well Mississippi Canyon 252  
 Request Date 10.02.2010  
 Field  
 Required By 12.02.2010  
 Size (in) 9.625  
 Trademark  
 Size (in) 12.25  
 Slurry Type Lead  
 Slurry Name

Concentration	Lab	Material	Test Amount	Actual Amount	Source	Lot No	Date	Sample Id
100 % BWOC	(US-LFT)	Lafarge Class H	908.69 g	908.89 g	TRANSOCEAN F	LOCATIOI	29. DEC 2009	0000059335
100 % BWOC	(US-LFT)	EZ-FLO			TRANSOCEAN F	BLEND	29. DEC 2009	0000059335
100 % BWOC	(US-LFT)	D-Air 3000			TRANSOCEAN F	BLEND	29. DEC 2009	0000059335
100 % BWOC	(US-LFT)	KCl (Potassium Chloride) Salt			TRANSOCEAN F	BLEND	29. DEC 2009	0000059335
100 % DWOC	(US-LFT)	SSA-1 (Silica Flour) - PB			TRANSOCEAN F	BLEND	29. DEC 2009	0000059335
100 % BWOC	(US-LFT)	SSA-2 (100 Mesh) - PB			TRANSOCEAN F	BLEND	29. DEC 2009	0000059335
100 % BWOC	(US-LFT)	SA-541			TRANSOCEAN F	BLEND	29. DEC 2009	0000059335
gps	(US-LFT)	ZoneSealant 2000	6.00 g	6.00 g	Morgan City, La.		15. MAR 2009	0000040395
l gps	(US-LFT)	SCR-100L	6.80 g	6.79 g	Morgan City, La.	2117	23. DEC 2008	0000036204
l gps	(US-LFT)	(Fresh) Water	288.1 g					

Sample Id:0000060731 Sample does not match any additives: Fresh Water (US-LFT)

65112.1 TTT JS

ENAUS00040470
  100000000057