

Cement Lab Weigh-Up Sheet, Apr 13, 2010 - Req/Slurry: US-73909/1



Request Id	73909	Rig	TRANSOCEAN HORIZON	Engineer	Jesse Gagliano
Slurry No.	1	Customer	BP	Request Type	Operation
Job	Production Casing	Well	Mississippi Canyon 252	Request Date	12.04.2010
Pipe Size	7	Location	Mississippi Cny	Required By	13.04.2010
Hole Size	9.875	Slurry Type	Primary	TradeMark	
Plant Name	Fourchon-C-Port I, La,			Slurry Name	

Test Conditions

BHST	99 °C / 210 °F	Batch Mix	0 min	MD	5596 m / 18360	Pressure	997 bar / 14458 psi
BHCT	57 °C / 135 °F	Heating time	83 min	TVD	5596 m / 18360	Mud Density	1.69 SG / 14.1 PPG

Slurry Details

Density	2.006 S.G.	Water Req.	43.84 L/100kg	Yield	90.77 L/100kg	Total liquid	44.55 L/100kg
	16.741 PPG		4.94 gal/sack		1.37 ft³/sack		5.02 gal/sack
Pychrometer	35.000 %	Chloride conc.	0 PPM	Blend Weight	908.98 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	980.98 g	TRANSOCEAN	Tank # 8	05.04.10	67314
0.070 % BWOC	(US-LFT)	EZ-FLO	0.46 g				
0.250 % BWOC	(US-LFT)	D-Air 3000	1.05 g				
1.880 lb/sk	(US-LFT)	KCl (Potassium Chloride)	43.22 g				
20.000 % BWOC	(US-LFT)	SSA-1 (Silica Flour) - PB	432.20 g				
15.000 % BWOC	(US-LFT)	SSA-2 (100 Mesh) - PB	99.16 g				
0.200 % BWOC	(US-LFT)	SA-541	1.32 g				
0.110 gps	(US-LFT)	ZoneSealant 2000	6.88 g				
0.080 gps	(US-LFT)	SCR-100L	5.45 g		6264		
4.94 gps	(US-LFT)	Fresh Water	289.18 g	TRANSOCEAN		05.04.10	67315

Foam Details

Final Foam Density	1.737 S.G.	Calc. Downstream Density	1.996 S.G.	Blender volume	1170 ml	Quality	12.98 %
	14.496 PPG		16.657 PPG				
Base Slurry Weight	2020.74 g	Base Slurry Total Weight	2032.29 g				

Foam Mixing

Lab	Material	Unfoamed Slurry Prep.	Unfoamed Slurry
(US-LFT)	Lafarge Class H	1220.70 g	
(US-LFT)	EZ-FLO	0.85 g	
(US-LFT)	D-Air 3000	3.05 g	
(US-LFT)	KCl (Potassium Chloride) Salt	24.41 g	
(US-LFT)	SSA-1 (Silica Flour) - PB	244.14 g	
(US-LFT)	SSA-2 (100 Mesh) - PB	183.10 g	
(US-LFT)	SA-541	2.44 g	
(US-LFT)	ZoneSealant 2000		11.55 g
(US-LFT)	SCR-100L	10.06 g	
(US-LFT)	Fresh Water	534.05 g	

Test Results

Mixability (0 - 5) - 0 is not mixable	Mud Balance Density
Mixability rating (0 - 5)	Density (SG)
5.75	Density (ppg)
	16.7 Tps

Foam Mix and Stability (Foamed to 14.5 ppg) 180 Pump 1.5 hrs

Sink [mm]	Time to Foam	Average Mix	Foam Density [SG]	SG top	SG bot.	Conditioning time
				1.88 (15.1)	1.82 (15.1)	

Thickening Time (Need 4 1/2 - 5 1/2 Hrs., SCR-100L Lot #6264) at 135 deg F 2:04 - 7/14

Temp (°F)	Pressure	Batch Mix	Reached	Start BC	30 Bc	40 Bc	50 Bc	70 Bc	100 Bc	Termination	Termination
135	14458	0	83	8:55	5:30	5:30	5:30	5:30	(BL)		

UCA Comp. Strength (Un-foamed UCA for 12, 24, & 48 Hrs, Circulate before pouring C.S. for 3 Hrs) at 210 deg F V-7 In

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
210	14458	5:54	6:19		2143		2526	2641			

Crush Compressive Strength (12, 24, & 48 Hrs Crush, Foamed to 14.5 ppg) at 210 deg F 180 Pump 1.5 hrs

Conditioni	Curing	Curing	Time 1	Strength 1	Time 2	Strength 2	Time 3	Strength 3	Time 4	Strength 4	Foam
	210	-	12	0	24	0	48	1590			

Non API Rheology at 80 deg F

Test temp	600	300	200	100	60	30	20	10	6	3	Condition
80	48	42	28	14	13	8	8	4	2	2	(MK)
	180	84	56	28	26	8	6	4	2	2	(MK)

Non API Rheology at 135 deg F

Test temp	600	300	200	100	60	30	20	10	6	3	Condition
135	65	58	20	10	8	8	3	4	2	2	(MK)
	130	56	40	20	14	8	6	4	4	2	(MK)

FYSA Viscosity Profile & Gel Strength (Foamed to 14.5 ppg) at 80 deg F

Test	600	300	200	100	60	30	6	3	3D - 3	6D - 6	Condi	Gel 10	Gel 30	K1	K2
80	14	7	5	3	1	1	1	1	1	1					

Request/Project Comments

Use location Blend and Rig water in lab
Use SCR-100L LOT#:6264

Required Tests

Test Id	Test Type	Test Temp (F)	Conditions / Req. Properties
806067	Thickening Time	135	Need 4 1/2 - 5 1/2 Hrs., SCR-100L Lot #6264
806068	UCA Comp. Strength	210	Un-foamed UCA for 12, 24, & 48 Hrs, Circulate before pouring C.S. for
806069	Crush Compressive Strength	210	12, 24, & 48 Hrs Crush, Foamed to 14.5 ppg
806071	Mixability (0 - 5) - 0 is not mixable		
806072	Foam Mix and Stability		Foamed to 14.5 ppg
806074	FYSA Viscosity Profile & Gel Strength	80	Foamed to 14.5 ppg
806075	Non API Rheology	80	
806076	Non API Rheology	135	
806078	Mud Balance Density		

Slurry Specific Comments

Use location Blend and Rig water in lab
Use SCR-100L LOT#:6264

In Hss on Bot

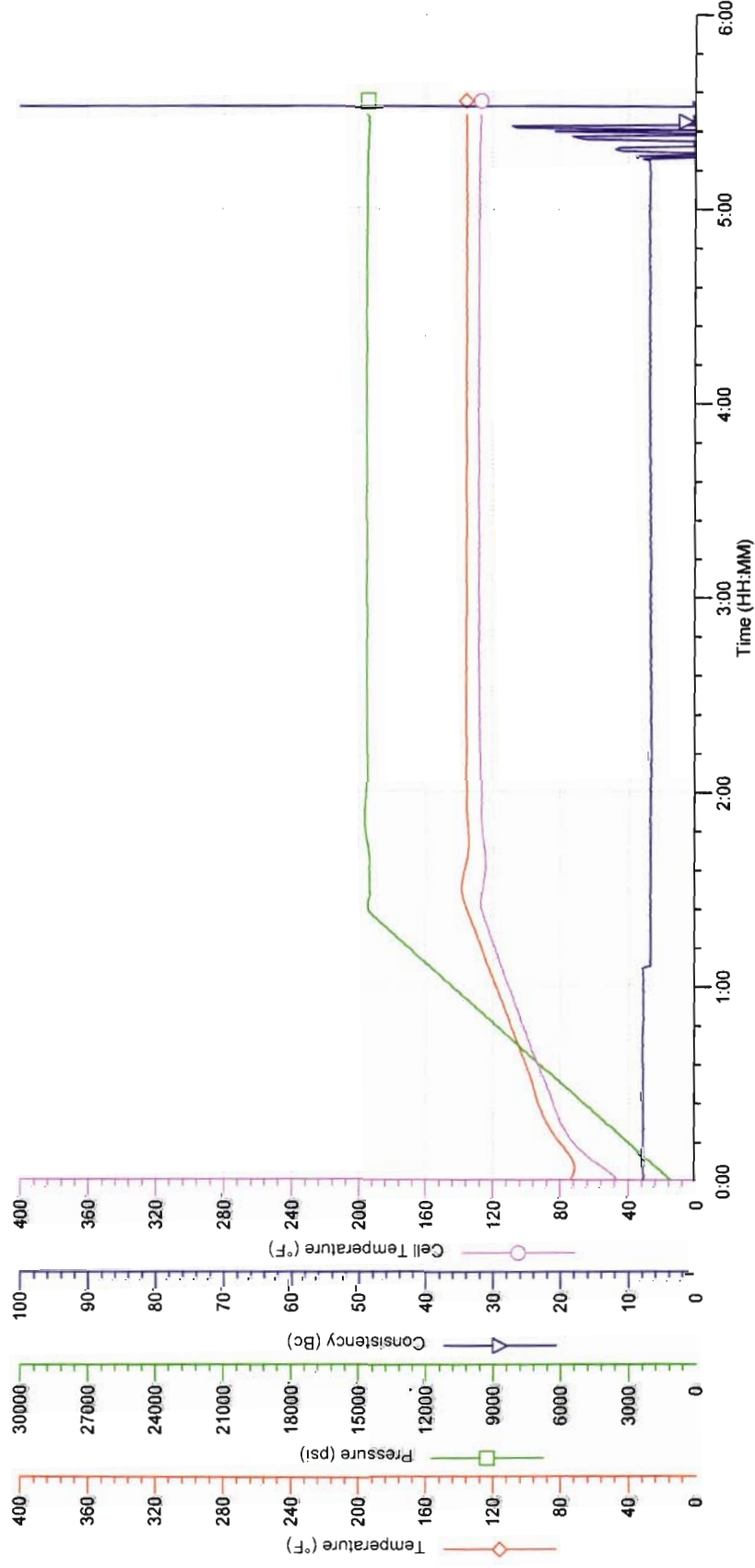
Top 41.56 78.97 1.88 15.7 #/gal

Bot 43.6 79.82 1.82 15.1 #/gal

.87

Company:
Job Type:
Well Info:
Project Number: 73909[1].1.tst
Slurry:

Slurry Density (ppg):
BHCT (°F): 135
N/A



Halliburton
Gulf Coast NWA Laboratory

Project Code: 73909[1].1.tst

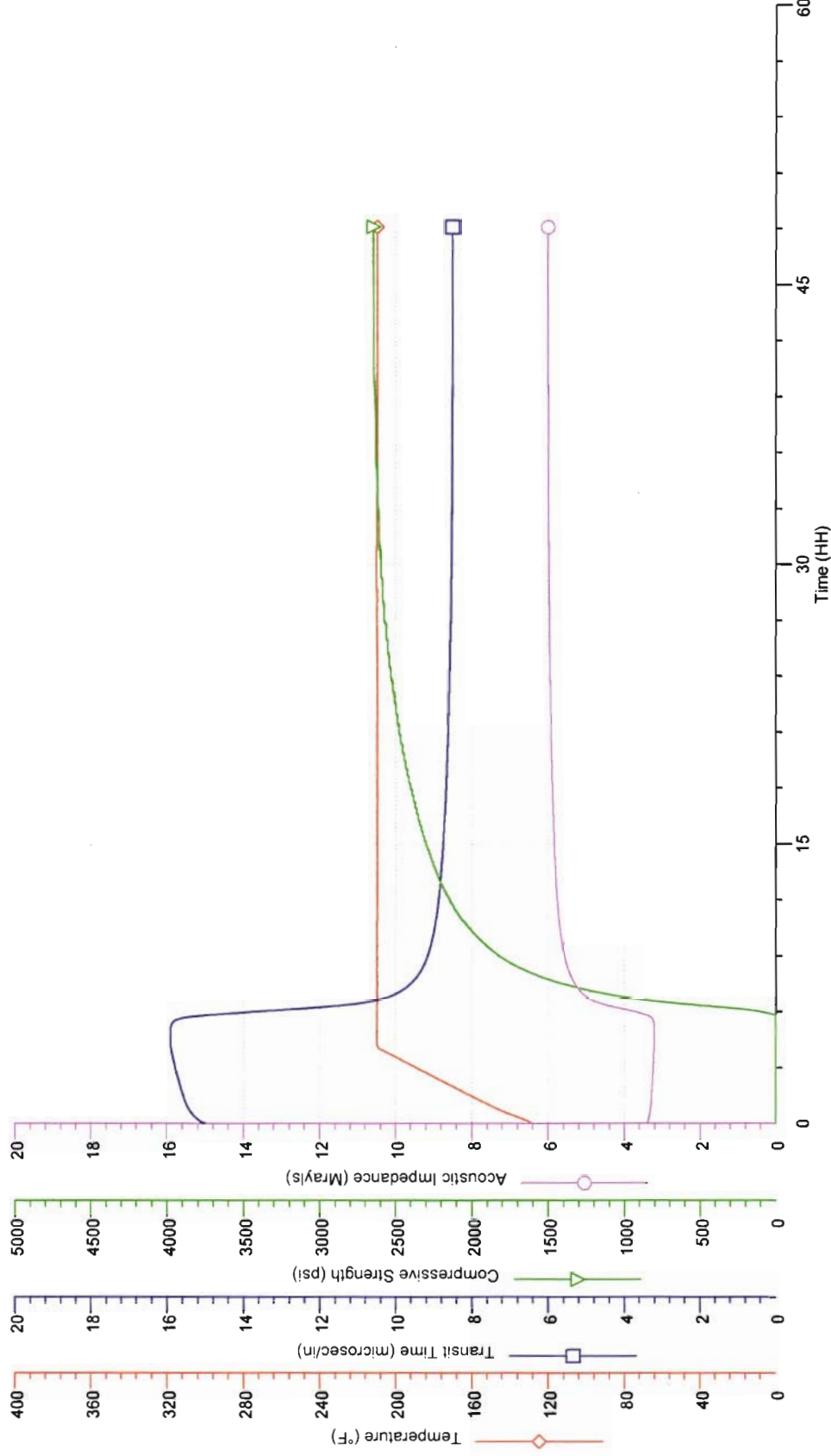
BUSINESS CONFIDENTIAL

HAL_DOJ_0000240

Well ID:
Test Start: 4/14/2010 10:31:57 PM
Test Stop: 4/16/2010 10:35:59 PM

Customer:
Strength: 2640 psi
Algorithm: Compressive strength type B (more than 14 lb/gal)

Test Temperature 210
50 psi @ 5:54:00
500 psi @ 6:19:00



CHANDLER
ENGINEERING

Test File Name: 73909[1].1 U-7.lst
Printed: 10/4/2010 3:06:38 PM

Page 1

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HAL_DOJ_0000241



SCAN SAMPLES (Scan Weigh-up sheet to finish)

Slurry Id	00150924	Restart Weigh-up	Out of Stock	Stock Count	Database Connected	Barcode Open	Scale Open
Request Id	73903	Rig	TRANSOCEAN	Engineer	Jesse Gagliano		
Slurry No	1	Customer	BP	Request Type	Operation		
Job	Production Casing	Well	Mississippi Canyon 252	Request Date	12.04.2010		
Pipe Size (in)	7	Field		Required By	13.04.2010		
Hole Size (in)	9.875	Slurry Type	Primary	Trademark			
		Slurry Name					

Concentration	Lab	Material	Test Amount	Actual Amount	Source	Lot No	Date	Sample Id
100.00 % BWOC	(US-LFT)	Lafarge Class H	908.98 g	908.98 g	TRANSOCEAN F	Tank # 8	05. APR 2010	0000067314
0.07 % BWOC	(US-LFT)	EZ-FLN			TRANSOCEAN F		05. APR 2010	0000067314
0.25 % BWOC	(US-LFT)	D-Air 3000			TRANSOCEAN F		05. APR 2010	0000067314
1.88 lb/sk	(US-LFT)	KCl (Potassium Chloride) Salt			TRANSOCEAN F		05. APR 2010	0000067314
20.00 % BWOC	(US-LFT)	SSA-1 (Silica Flour) - PB			TRANSOCEAN F		05. APR 2010	0000067314
15.00 % BWOC	(US-LFT)	SSA-2 (100 Mesh) - PB			TRANSOCEAN F		05. APR 2010	0000067314
0.20 % BWOC	(US-LFT)	SA-541			TRANSOCEAN F		05. APR 2010	0000067314
0.11 g/s	(US-LFT)	ZoneSealant 2000	6.88 g	6.86 g	Morgan City, La		15. MAR 2009	0000040395
0.08 g/s	(US-LFT)	SCR-100L	5.45 g	5.44 g			22. OCT 2009	0000054573
4.94 g/s	(US-LFT)	Fresh Water	289.18 g			6264		

Sample Id:0000067315 Sample does not match any additives: Field (Fresh) Water (US-LFT)

DEDRIC TT RIG H2O = 289.18

AN SAMPLES (Scan Weigh-up sheet to finish)

try Id 00150924	Restat Weighup	Out of Stock	Stock Court	Database Connected	Barcode Open	Scale Open
uest Id 73909	Rig	TRANSOCEAN	Engineer	Jesse Gagliano		
ry No 1	Customer	BP	Request Type	Operation		
Production Casing	Well	Mississippi Canyon 252	Request Date	12.04.2010		
Size (in) 7	Field		Required By	13.04.2010		
Size (in) 9.875	Slurry Type	Primary	Trademark			
	Slurry Name					

Identification	Lab	Material	Test Amount	Actual Amount	Source	Lot No	Date	Sample Id
100 % BWOC	(US-LFT)	Lafarge Class H	908.98 g	908.97 g	TRANSOCEAN F	Tank # 8	05. APR 2010	0000067314
17 % BWOC	(US-LFT)	EZ-FLO			TRANSOCEAN F		05. APR 2010	0000067314
15 % BWOC	(US-LFT)	D-Air 3000			TRANSOCEAN F		05. APR 2010	0000067314
18 lb/sk	(US-LFT)	KCl (Potassium Chloride) Salt			TRANSOCEAN F		05. APR 2010	0000067314
00 % BWOC	(US-LFT)	SSA-1 (Silica Flour) - PB			TRANSOCEAN F		05. APR 2010	0000067314
00 % BWOC	(US-LFT)	SSA-2 (100 Mesh) - PB			TRANSOCEAN F		05. APR 2010	0000067314
10 % BWOC	(US-LFT)	SA-541			TRANSOCEAN F		05. APR 2010	0000067314
1 gps	(US-LFT)	ZoneSealant 2000	6.88 g	6.88 g	Morgan City, La.		15. MAR 2009	0000040395
10 gps	(US-LFT)	SCR-100L	5.45 g	5.45 g		6264	22. OCT 2009	0000054573
14 gps	(US-LFT)	Fresh Water	289.18 g					

73909.1 RPM CS JS

xit program	About	FC ID	ENAU500040470	Scale Id	100000000057	Manual Barcode Entry
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AN SAMPLES (Scan Weigh-up sheet to finish)

rry Id	00150924	Restait Weigh-up	Out of Stock	Stock Count	Database Connected	Barcode Open	Scale Open
uest Id	73909	Rig	TRANSOCEAN	Engineer	Jesse Gagliano		
ry No	1	Customer	BP	Request Type	Operation		
		Production Casing	Mississippi Canyon 252	Request Date	12.04.2010		
Size (in)	7	Well		Required By	13.04.2010		
Size (in)	9.875	Field		Trademark			
		Slurry Type	Primary	Slurry Name			

centration	Lab	Material	Test Amount	Actual Amount	Source	Lot No	Date	Sample Id
100 % BW/OC	(US-LFT)	Lafarge Class H	908.98 g	1678.70 g	TRANSOCEAN F	Tank # 8	05. APR 2010	0000067314
7 % BW/OC	(US-LFT)	EZ-FLD			TRANSOCEAN F		05. APR 2010	0000067314
5 % BW/OC	(US-LFT)	D-Air 3000			TRANSOCEAN F		05. APR 2010	0000067314
18 lb/sk	(US-LFT)	KCl (Potassium Chloride) Salt			TRANSOCEAN F		05. APR 2010	0000067314
00 % BW/OC	(US-LFT)	SSA-1 (Silica Flour) - PB			TRANSOCEAN F		05. APR 2010	0000067314
00 % BW/OC	(US-LFT)	SSA-2 (100 Mesh) - PB			TRANSOCEAN F		05. APR 2010	0000067314
10 % BW/OC	(US-LFT)	SA-541			TRANSOCEAN F		05. APR 2010	0000067314
1 gps	(US-LFT)	ZoneSealant 2000	6.88 g	11.54 g	Morgan City, La.		15. MAR 2009	0000040395
18 gps	(US-LFT)	SCR-100L	5.45 g	10.06 g				
14 gps	(US-LFT)	Fresh Water	289.18 g	534.06		6264	22. OCT 2009	0000054573

Sample Id:0000067315 Sample does not match any additives: Field (Fresh) Water (US-LFT)

73909.1 FOAM
CUBES JS

Manual Barcode Entry

1000000000057

Scale Id

PC ID ENAUS00040470

About

xit program

AN SAMPLES (Scan Weigh-up sheet to finish)

ry Id	00150924	Restat Weigh-up	Stock Count	Database Connected	Barcode Open	Scale Open
uest Id	73909	Rig	TRANSOCEAN	Engineer	Jesse Gagliano	
ty No	1	Customer	DP	Request Type	Operation	
Production Casing		Well	Mississippi Canyon 252	Request Date	12.04.2010	
Size (in)	7	Field		Required By	13.04.2010	
Size (in)	9.875	Slurry Type	Primary	Trademark		
				Slurry Name		

Identification	Lab	Material	Test Amount	Actual Amount	Source	Lot No	Date	Sample Id
100 % BWOC	(US-LFT)	Large Class H	908.98 g	1678.67 g	TRANSOCEAN F	Tank # 8	05. APR 2010	0000067314
17 % BWOC	(US-LFT)	EZ-FLO			TRANSOCEAN F		05. APR 2010	0000067314
5 % BWOC	(US-LFT)	D-Air 3000			TRANSOCEAN F		05. APR 2010	0000067314
18 lb/sk	(US-LFT)	KCl (Potassium Chloride) Salt			TRANSOCEAN F		05. APR 2010	0000067314
00 % BWOC	(US-LFT)	SSA-1 (Silica Flour) - PB			TRANSOCEAN F		05. APR 2010	0000067314
00 % BWOC	(US-LFT)	SSA-2 (100 Mesh) - PB			TRANSOCEAN F		05. APR 2010	0000067314
00 % BWOC	(US-LFT)	SA-541			TRANSOCEAN F		05. APR 2010	0000067314
1 gps	(US-LFT)	ZoneSealant 2000	6.88 g	11.07 g	Morgan City, La.		15. MAR 2009	0000040385
18 gps	(US-LFT)	SCR-100L	5.45 g	10.05 g		6264	22. OCT 2009	0000054573
14 gps	(US-LFT)	Fresh Water	289.18 g	534.05 g		FRESH W	12. APR 2010	0000067788

73909.1 FYSA RPM
JS

Caliburton Lab Scanner

WEIGH-UP COMPLETE. SCAN NEW WEIGH-UP ID TO START

Slurry Id	00150924	Restat Weigh-up	Out of Stock	Stock Count	Database Connected	Barcode Open	Scale Open
Request Id	73909	Rig	TRANSOCEAN	Engineer	Jesse Gagliano		
Slurry No	1	Customer	BP	Request Type	Operation		
Job	Production Casing	Well	Mississippi Canyon 252	Request Date	12.04.2010		
Pipe Size (in)	7	Field		Required By	13.04.2010		
Isle Size (in)	9.075	Slurry Type	Primary	Trademark			
				Slurry Name			

Concentration	Lab	Material	Test Amount	Actual Amount	Source	Lot No	Date	Sample Id
100.00 % BWOC	(US-LFT)	Lafarge Class H	908.98 g	1220.67 g	TRANSOCEAN F	Tank # 8	05. APR 2010	0000057314
0.07 % BWOC	(US-LFT)	EZ-FLO			TRANSOCEAN F		05. APR 2010	0000057314
0.25 % BWOC	(US-LFT)	D-Air 3000			TRANSOCEAN F		05. APR 2010	0000057314
1.88 lb/sk	(US-LFT)	KCl (Potassium Chloride) Salt			TRANSOCEAN F		05. APR 2010	0000057314
20.00 % BWOC	(US-LFT)	SSA-1 (Silica Flour) - PB			TRANSOCEAN F		05. APR 2010	0000057314
15.00 % BWOC	(US-LFT)	SSA-2 (100 Mesh) - PB			TRANSOCEAN F		05. APR 2010	0000057314
0.20 % BWOC	(US-LFT)	SA-541			TRANSOCEAN F		05. APR 2010	0000057314
0.11 gpc	(US-LFT)	ZoneSealant 2000	6.88 g	11.54 g	Morgan City, La.		15. MAR 2009	0000040395
0.08 gpc	(US-LFT)	SCR-100L	5.45 g	10.04 g		6264	22. OCT 2009	0000054573
4.94 gpc	(US-LFT)	Field (Fresh) Water	289.18 g	534.05 g	TRANSOCEAN F		05. APR 2010	0000057315

FOAM STAB - JACK

Exit program

About

PC ID

ENAU/S00040470

Scale Id

100030000357

Manual Barcode Entry



SCAN SAMPLES (Scan Weigh-up sheet to finish)

Slurry Id	00150924	Restart Weigh-up	Out of Stock	Stock Count	Database Connected	Barcode Upen	Scale Upen
Request Id	73909	Rig	TRANSOCEAN	Engineer	Jesse Gagliano		
Slurry No	1	Customer	BP	Request Type	Operation		
Job	Production Casing	Well	Mississippi Canyon 252	Request Date	12.04.2010		
Pipe Size (in)	7	Field		Required By	13.04.2010		
Hole Size (in)	9.875	Slurry Type	Primary	Trademark			
				Slurry Name			

Concentration	Lab	Material	Test Amount	Actual Amount	Source	Lot No	Date	Sample Id
100.00 % BW/DC	(US-LFT)	Lafarge Class H	908.98 g	1578.69 g	TRANSOCEAN F	Tank # 8	05. APR 2010	0000067314
0.07 % BW/DC	(US-LFT)	FZ-FLO			TRANSOCEAN F		05. APR 2010	0000067314
0.25 % BW/DC	(US-LFT)	D-Air 3000			TRANSOCEAN F		05. APR 2010	0000067314
1.88 lb/sk	(US-LFT)	KCl (Potassium Chloride) Salt			TRANSOCEAN F		05. APR 2010	0000067314
20.00 % BW/DC	(US-LFT)	SSA-1 (Silica Flour) - PB			TRANSOCEAN F		05. APR 2010	0000067314
15.00 % BW/DC	(US-LFT)	SSA-2 (100 Mesh) - PB			TRANSOCEAN F		05. APR 2010	0000067314
0.20 % BW/DC	(US-LFT)	SA-541			TRANSOCEAN F		05. APR 2010	0000067314
0.11 gps	(US-LFT)	ZoneSealant 2000	6.88 g	11.56 g	Morgan City, La.		15. MAR 2009	000040395
0.08 gps	(US-LFT)	SCR-100L	5.45 g	10.06 g		6264	22. OCT 2009	0000054573
4.94 gps	(US-LFT)	Field [Fresh] Water	289.18 g	534.03 g	TRANSOCEAN F		05. APR 2010	0000067315

Z FOAM

Manual Barcode Entry

100000000057

Scale Id

FC ID ENAUSOC040470

About

Exit program



Cement Lab Weigh-Up Sheet, Apr 17, 2010 - Req/Slurry: US-73909/1



Request Id	73909	Rig	TRANSOCEAN HORIZON	Engineer	Jesse Gagliano
Slurry No.	1	Customer	BP	Request Type	Operation
Job	Production Casing	Well	Mississippi Canyon 252	Request Date	12.04.2010
Pipe Size	7	Location	Mississippi Cny	Required By	13.04.2010
Hole Size	9.875	Slurry Type	Primary	TradeMark	
Plant Name	Fourchon-C-Port I, La,			Slurry Name	

Test Conditions

BHST	99 °C / 210 °F	Batch Mix	0 min	MD	5596 m / 18360	Pressure	997 bar / 14458 psi
BHCT	57 °C / 135 °F	Heating time	83 min	TVD	5596 m / 18360	Mud Density	1.69 SG / 14.1 PPG

Slurry Details

Density	2.006 S.G.	Water Req.	43.84 L/100kg	Yield	90.77 L/100kg	Total liquid	44.55 L/100kg
	16.741 PPG		4.94 gal/sack		1.37 ft ³ /sack		5.02 gal/sack
Pycnometer	35.000 %	Chloride conc.	N/A	Blend Weight	908.98 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	600.96 g	TRANSOCEAN	Tank # 8	05.04.10	67314
0.070 % BWOC	(US-LFT)	EZ-FLO	0.40 g	TRANSOCEAN		05.04.10	67314
0.250 % BWOC	(US-LFT)	D-Air 3000	1.66 g	TRANSOCEAN		05.04.10	67314
1.880 lb/sk	(US-LFT)	KCl (Potassium Chloride)	15.22 g	TRANSOCEAN		05.04.10	67314
20.000 % BWOC	(US-LFT)	SSA-1 (Silica Flour) - PB	132.20 g	TRANSOCEAN		05.04.10	67314
15.000 % BWOC	(US-LFT)	SSA-2 (100 Mesh) - PB	99.46 g	TRANSOCEAN		05.04.10	67314
0.200 % BWOC	(US-LFT)	SA-541	1.32 g	TRANSOCEAN		05.04.10	67314
0.110 gps	(US-LFT)	ZoneSealant 2000	6.88 g	Morgan City, La,		15.03.09	40395
0.080 gps	(US-LFT)	SCR-100L	5.45 g		6264	22.10.09	54573
4.94 gps	(US-LFT)	Fresh Water <i>Pig Water</i>	289.18 g				

Foam Details

Final Foam Density	1.737 S.G.	Calc. Downstream Density	1.996 S.G.	Blender volume	1170 ml	Quality	12.98 %
	14.496 PPG		16.657 PPG				
Base Slurry Weight	2020.74 g	Base Slurry Total Weight	2032.29 g				

Foam Mixing

Lab	Material	Unfoamed Slurry Prep.	Unfoamed Slurry
(US-LFT)	Lafarge Class H	1220.70 g	
(US-LFT)	EZ-FLO	0.85 g	
(US-LFT)	D-Air 3000	3.05 g	
(US-LFT)	KCl (Potassium Chloride) Salt	24.41 g	
(US-LFT)	SSA-1 (Silica Flour) - PB	244.14 g	
(US-LFT)	SSA-2 (100 Mesh) - PB	183.10 g	
(US-LFT)	SA-541	2.44 g	
(US-LFT)	ZoneSealant 2000		11.55 g
(US-LFT)	SCR-100L	10.06 g	
(US-LFT)	Fresh Water	534.05 g	

Test Results

Mixability (0 - 5) - 0 is not mixable	Mud Balance Density	
Mixability rating (0 - 5)	Density (SG)	Density (ppg)
5		16.7

Repeat

Foam Mix and Stability (Repeat Foamed to 14.5 ppg) at 180 deg F <i>Pour @ 180°F</i>															
Sink [mm]	Time to Foam	Average Mix	Foam Density [SG]	SG top	SG bot.	Conditioning time									
	<i>4.5 sec</i>			<i>1.8</i>	<i>1.799</i>	<i>3 HRS</i>									
Foam Mix and Stability (Foamed to 14.5 ppg) <i>215° 4/18/10 Heat #1 RD</i>															
Sink [mm]	Time to Foam	Average Mix	Foam Density [SG]	SG top	SG bot.	Conditioning time									
				1.88	1.82	01:30									
Thickening Time (Need 4 1/2 - 5 1/2 Hrs., SCR-100L Lot #6264) at 135 deg F															
Temp (°F)	Pressure	Batch Mix	Reached	Start BC	30 Bc	40 Bc	50 Bc	70 Bc	100 Bc	Termination	Termination				
135	14458		83	8				05:30							
UCA Comp. Strength (Un-foamed UCA for 12, 24, & 48 Hrs, Circulate before pouring C.S. for 3 Hrs) at 210 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				
210	14458	05:54	06:19		2143		2526	2641							
Crush Compressive Strength (12, 24, & 48 Hrs Crush, Foamed to 14.5 ppg) at 210 deg F															
Condition	Curing	Curing	Time 1	Strength 1	Time 2	Strength 2	Time 3	Strength 3	Time 4	Strength 4	Foam				
	180		12	0	24	0	48	1590			0				
Non API Rheology at 80 deg F															
Test temp	600	300	200	100	60	30	20	10	6	3	Condition				
80	180	84	56	28	26	8	6	4	2	2					
Non API Rheology at 135 deg F															
Test temp	600	300	200	100	60	30	20	10	6	3	Condition				
135	130	56	40	20	12	8	6	4	4	2					
FYSA Viscosity Profile & Gel Strength (Foamed to 14.5 ppg) at 80 deg F															
Test	600	300	200	100	60	30	6	3	3D - 3	6D - 6	Conditi	Gel 10	Gel 30	K1	K2
80															
Request/Project Comments															
Use location Blend and Rig water in lab Use SCR-100L LOT#:6264															
Required Tests															
Test Id	Test Type				Test Temp (F)		Conditions / Req. Properties								
806067	Thickening Time				135		Need 4 1/2 - 5 1/2 Hrs., SCR-100L Lot #6264								
806068	UCA Comp. Strength				210		Un-foamed UCA for 12, 24, & 48 Hrs, Circulate before pouring C.S. for								
806069	Crush Compressive Strength				210		12, 24, & 48 Hrs Crush, Foamed to 14.5 ppg								
806071	Mixability (0 - 5) - 0 is not mixable														
806072	Foam Mix and Stability						Foamed to 14.5 ppg								
813603	Foam Mix and Stability				180		Repeat Foamed to 14.5 ppg								
806074	FYSA Viscosity Profile & Gel Strength				80		Foamed to 14.5 ppg								
806075	Non API Rheology				80										
806076	Non API Rheology				135										
806078	Mud Balance Density														
Slurry Specific Comments															
Use location Blend and Rig water in lab Use SCR-100L LOT#:6264															

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