

Cement Lab Weigh-Up Sheet, Mar 7, 2010 - Req/Slurry: US-68156/1



00140934

Request Id	68156	Rig	TRANSOCEAN HORIZON	Engineer	Jesse Gagliano
Slurry No.	1	Customer	BP	Request Type	Operation
Job	Production Casing	Well	Mississippi Canyon 252	Request Date	04.03.2010
Pipe Size	9.625	Location	Mississippi Cny	Required By	06.03.2010
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.	42.94 L/100kg	Yield	90.95 L/100kg	Total liquid	44.72 L/100kg
	16.741 PPG		4.84 gal/sack		1.37 ft³/sack		5.04 gal/sack
Pycnometer	35.000 %	Chloride conc.	999 PPM	Blend Weight	907.27 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	659.74 g	TRANSOCEAN	LOCATION	23.02.10	63981
0.070 % BWOC	(US-LFT)	EZ-FLO	0.46 g	TRANSOCEAN	BLENDED	23.02.10	63981
0.250 % BWOC	(US-LFT)	D-Air 3000	1.85 g	TRANSOCEAN	BLENDED	23.02.10	63981
1.880 lb/sk	(US-LFT)	KCl (Potassium Chloride)	13.49 g	TRANSOCEAN	BLENDED	23.02.10	63981
20.000 % BWOC	(US-LFT)	SSA-1 (Silica Flour) - PB	134.95 g	TRANSOCEAN	BLENDED	23.02.10	63981
15.000 % BWOC	(US-LFT)	SSA-2 (100 Mesh) - PB	98.98 g	TRANSOCEAN	BLENDED	23.02.10	63981
0.200 % BWOC	(US-LFT)	SA-541	1.32 g	TRANSOCEAN	BLENDED	23.02.10	63981
0.110 gps	(US-LFT)	Foamer 760	6.70 g			15.02.10	63241
0.200 gps	(US-LFT)	SCR-100L	13.59 g		2117	18.01.09	37271
4.84 gps	(US-LFT)	Field (Fresh) Water	282.74 g	TRANSOCEAN		11.02.10	63002

Foam Details

Final Foam Density	1.737 S.G.	Calc. Downstream Density	1.996 S.G.	Blender volume	1170 ml	Quality	12.96 %
	14.496 PPG		16.657 PPG				
Base Slurry Weight	2021.04 g	Base Slurry Total Weight	2032.29 g				

Foam Mixing

Lab	Material	Unfoamed Slurry Prep.	Unfoamed Slurry
(US-LFT)	Lafarge Class H	1218.58 g	
(US-LFT)	EZ-FLO	0.85 g	
(US-LFT)	D-Air 3000	3.05 g	
(US-LFT)	KCl (Potassium Chloride) Salt	24.37 g	
(US-LFT)	SSA-1 (Silica Flour) - PB	242.72 g	
(US-LFT)	SSA-2 (100 Mesh) - PB	182.79 g	
(US-LFT)	SA-541	2.44 g	
(US-LFT)	Foamer 760		11.25 g
(US-LFT)	SCR-100L	25.10 g	
(US-LFT)	Field (Fresh) Water	522.25 g	

5595
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Test Results

Mixability (0 - 5) - 0 is not mixable	Mud Balance Density	
Mixability rating (0 - 5)	Density (SG)	Density (ppg)
5		16.6 f/psi TO

Foam Mix and Stability (Foamed to 14.5 ppg Condition for 2 hours before pouring) 7:30pm 3/9 @

Sink [mm]	Time to Foam	Average Mix	Foam Density [SG]	SG top	SG bot.	Conditioning time
	3 SEC		14.5	1.980	2.046	

Thickening Time (REPEAT TT with given additives, SCR-100L Lot #2117) at 223 deg F New Cyp 3/10/11

Temp (°F)	Pressure	Batch Mix	Reached	Start BC	30 Bc	40 Bc	50 Bc	70 Bc	100 Bc	Termination	Termination
223	15945		89	9			OK'd by [unclear]			4:46	26

Thickening Time (TT with given additives, SCR-100L Lot #2117) at 223 deg F

Temp (°F)	Pressure	Batch Mix	Reached	Start BC	30 Bc	40 Bc	50 Bc	70 Bc	100 Bc	Termination	Termination
223	15945		89	5		Soft Ball					

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

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	3.46	4.02		1465		1523	1861			

Crush Compressive Strength (12, 24, 48, & 96 Hrs Crush, Foamed to 14.5 ppg) at 262 deg F H307 3/9 CK

Condition	Curing	Curing	Time 1	Strength 1	Time 2	Strength 2	Time 3	Strength 3	Time 4	Strength 4	Foam
	262	12	0	24	0	248	From	96	2106		

Non API Rheology at 190 deg F Cond on Hptt 4

Test temp	600	300	200	100	60	30	20	10	6	3	Condition
190		61		29							
	200	122	88	54	42	30	24	22	20	18	

Non API Rheology at 130 deg F

Test temp	600	300	200	100	60	30	20	10	6	3	Condition
130	15	21	20	12	8	4	4	3	2	1	
	70	62	40	24	16	10	8	6	4	4	TP

Non API Rheology at 80 deg F

Test temp	600	300	200	100	60	30	20	10	6	3	Condition
80	66	30	21	11	7	5	4	3	2	1	
	132	60	42	22	14	10	8	6	4	2	DR

FYSA Viscosity Profile & Gel Strength 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	22	9	5	2	1	1	1	1	1	1					

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
750846	Thickening Time	223	TT with given additives, SCR-100L Lot #2117
754442	Thickening Time	223	REPEAT TT with given additives, SCR-100L Lot #2117
750847	UCA Comp. Strength	262	UCA for 12, 24, & 48 Hrs, Circulate before pouring C.S. for 3 Hrs
750848	Crush Compressive Strength	262	12, 24, 48, & 96 Hrs Crush, Foamed to 14.5 ppg
750850	Mixability (0 - 5) - 0 is not mixable		
750852	Foam Mix and Stability		Foamed to 14.5 ppg Condition for 2 hours before pouring
750853	FYSA Viscosity Profile & Gel Strength	80	
750854	Non API Rheology	80	
750855	Non API Rheology	130	
750856	Non API Rheology	190	
750857	Mud Balance Density		

Slurry Specific Comments

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

Slurry is settling out of Bladder, may need to condition, will check stability 1st

AN SAMPLES (Scan Weigh-up sheet to finish)

Ry Id	00140934	Restall Weigh-up	Out of Stock	Stock Count	Database Connected	Barcode Open	Scale Open
Test Id	68156	Rig	TRANSOCEAN		Engineer	Jesse Gagliano	
μ No	1	Customer	BP		Request Type	Operation	
Production Casing		Well	Mississippi Canyon 252		Request Date	04.03.2010	
Size (in)	9.625	Field			Required By	06.03.2010	
Size (in)	12.25	Slurry Type	Lead		Trademark		
		Slurry Name					

ventration	Lab	Material	Test Amount	Actual Amount	Source	Lot No	Date	Sample Id
00 % BW/OC	(US-LFT)	Lafarge Class H	907.27 g	907.27 g	TRANSOCEAN	LOCATION	23. FEB 2010	0000063981
1 % BW/OC	(US-LFT)	EZ-FLO			TRANSOCEAN	BLENDED	23. FEB 2010	0000063981
1 % BW/OC	(US-LFT)	D-Air 3000			TRANSOCEAN	BLENDED	23. FEB 2010	0000063981
1 lb/sk	(US-LFT)	KCl (Potassium Chloride) Salt			TRANSOCEAN	BLENDED	23. FEB 2010	0000063981
10 % BW/OC	(US-LFT)	SSA-1 (Silica Flour) - PB			TRANSOCEAN	BLENDED	23. FEB 2010	0000063981
10 % BW/OC	(US-LFT)	SSA-2 (100 Mesh) - PB			TRANSOCEAN	BLENDED	23. FEB 2010	0000063981
1 % BW/OC	(US-LFT)	SA-541	6.70 g	6.72 g	TRANSOCEAN	BLENDED	15. FEB 2010	0000063241
gps	(US-LFT)	Foamer 760	13.59 g	13.60 g			18. JAN 2009	0000037271
gps	(US-LFT)	SCR-100L	282.74 g	282.73 g	TRANSOCEAN	2117	11. FEB 2010	0000063002
gps	(US-LFT)	Field (Fresh) Water						

TTT REPEAT JPS NEW CUP

Program

About

PC ID ENAUS00038575

Scale Id 100000000054

Manual Barcode Entry

68156

File Edit View Insert Format Tools Slide Show Window Help

File Size (in) 12.25

18 Arial 100% Design New Slide

Trademark

Slurry Type Lead

Concentration	Lab	Material	Test Amount	Actual Amount	Source	Lot No	Date	Sample Id
100.00 % BWOC	(US-LFT)	Lafarge Class H	907.27 g	1675.81 g	TRANSOCEAN F	LOCATION	23. FEB 2010	0000063981
0.07 % BWOC	(US-LFT)	EZ-FLO			TRANSOCEAN F	BLEND	23. FEB 2010	0000063981
0.25 % BWOC	(US-LFT)	D-Air 3000			TRANSOCEAN F	BLEND	23. FEB 2010	0000063981
1.88 lb/sk	(US-LFT)	KCl (Potassium Chloride) Salt			TRANSOCEAN F	BLEND	23. FEB 2010	0000063981
20.00 % BWOC	(US-LFT)	SSA-1 (Silica Flour) - PB			TRANSOCEAN F	BLEND	23. FEB 2010	0000063981
15.00 % BWOC	(US-LFT)	SSA-2 (100 Mesh) - PB			TRANSOCEAN F	BLEND	23. FEB 2010	0000063981
0.20 % BWOC	(US-LFT)	SA-541			TRANSOCEAN F	BLEND	23. FEB 2010	0000063981
0.11 gps	(US-LFT)	Foamer 760	6.70 g	11.26 g	TRANSOCEAN F	BLEND	23. FEB 2010	0000063981
0.20 gps	(US-LFT)	SCR-100L	13.59 g	25.09 g			15. FEB 2010	0000063241
4.84 gps	(US-LFT)	Field (Fresh) Water	282.74 g	522.23 g	TRANSOCEAN F		18. JAN 2009	0000037271
						2117	11. FEB 2010	0000063002

FOAMED STAB. AND CS - FYSA - CPS

Exit program

About

PC ID ENAUS00038575 Scale Id 10000000054 Manual Barcode Entry

Draw AutoShapes

Slide 1 of 1

Default Design

SCAN SAMPLES (Scan Weigh-up sheet to finish)

Slurry Id	00140934	Out of Stock	Stock Count	Database Connected	Barcode	Open	Scale Open
Request Id	68156	Rig	TRANSOCEAN	Engineer	Jesse Gagliano		
Slurry No	1	Customer	BP	Request Type	Operation		
Job	Production Casing	Well	Mississippi Canyon 252	Request Date	04.03.2010		
Pipe Size (in)	9.625	Field		Required By	06.03.2010		
Hole Size (in)	12.25	Slurry Type	Lead	Trademark			
		Slurry Name					

Concentration	Lab	Material	Test Amount	Actual Amount	Source	Lot No	Date	Sample Id
100.00 % BWOC	(US-LFT)	Lafarge Class H	907.27 g	907.29 g	TRANSOCEAN F	LOCATION	23. FEB 2010	0000063981
0.07 % BWOC	(US-LFT)	EZ-FLO			TRANSOCEAN F	BLENDED	23. FEB 2010	0000063981
0.25 % BWOC	(US-LFT)	D-Air 3000			TRANSOCEAN F	BLENDED	23. FEB 2010	0000063981
1.88 lb/sk	(US-LFT)	KCl (Potassium Chloride) Salt			TRANSOCEAN F	BLENDED	23. FEB 2010	0000063981
20.00 % BWOC	(US-LFT)	SSA-1 (Silica Flour) - PB			TRANSOCEAN F	BLENDED	23. FEB 2010	0000063981
15.00 % BWOC	(US-LFT)	SSA-2 (100 Mesh) - PB			TRANSOCEAN F	BLENDED	23. FEB 2010	0000063981
0.20 % BWOC	(US-LFT)	SA-541			TRANSOCEAN F	BLENDED	23. FEB 2010	0000063981
0.11 gps	(US-LFT)	Foamer 760	6.70 g	6.71 g			15. FEB 2010	0000063241
0.20 gps	(US-LFT)	SCR-100L	13.59 g	13.60 g			18. JAN 2009	0000037271
4.84 gps	(US-LFT)	Field (Fresh) Water	282.74 g	282.75 g	TRANSOCEAN F	2117	11. FEB 2010	0000063002

RPMS 80 AND 130 - CPS

Exit program	About	PC ID	ENAU500038579	Scale Id	10000000054	Manual Barcode Entry
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SCAN SAMPLES (Scan Weigh-up sheet to finish)

Slurry Id 00140934

Request Id 68156

Slurry No 1

Job Production Casing

Pipe Size (in) 9.625

Hole Size (in) 12.25

First Start Weigh-up

Out of Stock

Stock Count

Database Connected

Barcode Open

Scale Open

Engineer Jesse Gagliano

Request Type Operation

Request Date 04.03.2010

Required By 06.03.2010

Trademark

Slurry Name

Concentration	Lab	Material	Test Amount	Actual Amount	Source	Lot No	Date	Sample Id
100.00 % BWOC	(US-LFT)	Lafarge Class H	907.27 g	907.26 g	TRANSOCEAN F	LOCATION	23. FEB 2010	0000063981
0.07 % BWOC	(US-LFT)	EZ-FLO			TRANSOCEAN F	BLENDED	23. FEB 2010	0000063981
0.25 % BWOC	(US-LFT)	D-Air 3000			TRANSOCEAN F	BLENDED	23. FEB 2010	0000063981
1.88 lb/sk	(US-LFT)	KCl (Potassium Chloride) Salt			TRANSOCEAN F	BLENDED	23. FEB 2010	0000063981
20.00 % BWOC	(US-LFT)	SSA-1 (Silica Flour) - PB			TRANSOCEAN F	BLENDED	23. FEB 2010	0000063981
15.00 % BWOC	(US-LFT)	SSA-2 (100 Mesh) - PB			TRANSOCEAN F	BLENDED	23. FEB 2010	0000063981
0.20 % BWOC	(US-LFT)	SA-541			TRANSOCEAN F	BLENDED	23. FEB 2010	0000063981
0.11 gps	(US-LFT)	Foamer 760	6.70 g	6.71 g	TRANSOCEAN F	BLENDED	23. FEB 2010	0000063981
0.20 gps	(US-LFT)	SCR-100L	13.59 g	13.60 g			15. FEB 2010	0000063241
4.84 gps	(US-LFT)	Field (Fresh) Water	282.74 g	282.73 g	TRANSOCEAN F	2117	18. JAN 2009	0000037271
							11. FEB 2010	0000063002

CS - CONDITION FOR 3 HRS - CPS

ALSO RUN RPM's @ 190'

Exit program

About

PC ID ENAUS00038575

Scale Id 10000000054

Manual Barcode Entry

Same

Concentration	Lab	Material	Test Amount	Actual Amount	Source	Lot No	Date	Sample Id
100.00 % BWOC	[US-LFT]	Latex Class H	907.27 g	907.27 g	TRANSOCEAN F	LOCATIO	23. FEB 2010	0000063981
0.07 % BWOC	[US-LFT]	EZ-FLO			TRANSOCEAN F	BLEND	23. FEB 2010	0000063981
0.25 % BWOC	[US-LFT]	D-Air 3800			TRANSOCEAN F	BLEND	23. FEB 2010	0000063981
1.88 lb/sk	[US-LFT]	KEL (Potassium Chloride) Salt			TRANSOCEAN F	BLEND	23. FEB 2010	0000063981
20.00 % BWOC	[US-LFT]	SSA-1 (Silica Flour) - P#			TRANSOCEAN F	BLEND	23. FEB 2010	0000063981
15.00 % BWOC	[US-LFT]	SSA-2 (100 Mesh) - P#			TRANSOCEAN F	BLEND	23. FEB 2010	0000063981
0.20 % BWOC	[US-LFT]	SA-541			TRANSOCEAN F	BLEND	23. FEB 2010	0000063981
0.11 gps	[US-LFT]	Feamer 750	6.70 g	6.70 g			15. FEB 2010	0000063241
0.20 gps	[US-LFT]	SCB-100L	13.59 g	13.59 g		2117	18. JAN 2009	0000063271
4.84 gps	[US-LFT]	Field [Fresh] Water	282.74 g	282.74 g	TRANSOCEAN F		11. FEB 2010	0000063002

RPMS REPEAT KC

SCAN SAMPLES (Scan Weigh-up sheet to finish)

Slurry Id	00140934	Restart Weigh-up	Out of Stock	Stock Count	Database Connected	Barcode Open	Scale Open
Request Id	68156	Rig	TRANSOCEAN	Engineer	Jesse Gagliano		
Slurry No	1	Customer	BP	Request Type	Operation		
Job	Production Casing	Well	Mississippi Canyon 252	Request Date	04.03.2010		
Pipe Size (in)	9.625	Field		Required By	06.03.2010		
Hole Size (in)	12.25	Slurry Type	Lead	Trademark			
				Slurry Name			

Concentration	Lab	Material	Test Amount	Actual Amount	Source	Lot No	Date	Sample Id
100.00 % BWOC	[US-LFT]	Lafarge Class H	907.27 g	907.28 g	TRANSOCEAN F	LOCATION	23. FEB 2010	000000000001
0.07 % BWOC	[US-LFT]	EZ-FLU			TRANSOCEAN F	BLENDEC	23. FEB 2010	000000000001
0.25 % BWOC	[US-LFT]	D-4A 3000			TRANSOCEAN F	BLENDEC	23. FEB 2010	000000000001
1.88 lb/sk	[US-LFT]	KCI (Potassium Chloride) Sol			TRANSOCEAN F	BLENDEC	23. FEB 2010	000000000001
20.00 % BWOC	[US-LFT]	SSA-1 (Sulfate Flow) - PB			TRANSOCEAN F	BLENDEC	23. FEB 2010	000000000001
15.00 % BWOC	[US-LFT]	SSA-2 (Flow Mod) - PB			TRANSOCEAN F	BLENDEC	23. FEB 2010	000000000001
0.20 % BWOC	[US-LFT]	SA-241			TRANSOCEAN F	BLENDEC	23. FEB 2010	000000000001
0.11 gps	[US-LFT]	Reamer Tool	6.70 g	6.70 g	TRANSOCEAN F	BLENDEC	23. FEB 2010	000000000001
0.20 gps	[US-LFT]	SDR-100L	13.59 g	13.60 g	TRANSOCEAN F	BLENDEC	23. FEB 2010	000000000001
4.84 gps	[US-LFT]	Field (Fresh) Water	282.74 g	282.75 g	TRANSOCEAN F	BLENDEC	23. FEB 2010	000000000001
						2117	15. FEB 2010	000000000001
							18. JAN 2009	000000000001
							11. FEB 2010	000000000001

REPEAT RPMS - CS - CPS