

Cement Lab Weigh-Up Sheet, May 20, 2010 - Req/Slurry: US-73909/2



Request Id	73909	Rig	TRANSOCEAN HORIZON	Engineer	Jesse Gagliano
Slurry No.	2	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 / 14460 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.	43.76 L/100kg	Yield	90.79 L/100kg	Total liquid	44.56 L/100kg
	16.741 PPG		4.93 gal/sack		1.37 ft³/sack		5.02 gal/sack
Pycnometer	35.000 %	Chloride conc.	N/A	Blend Weight	908.84 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	660.88 g	TRANSOCEAN	Tank # 8	05.04.10	67314
0.070 % BWOC	(US-LFT)	EZ-FLO	0.46 g	TRANSOCEAN		05.04.10	67314
0.250 % BWOC	(US-LFT)	D-Air 3000	1.65 g	TRANSOCEAN		05.04.10	67314
1.880 lb/sk	(US-LFT)	KCl (Potassium Chloride)	13.22 g	TRANSOCEAN		05.04.10	67314
20.000 % BWOC	(US-LFT)	SSA-1 (Silica Flour) - PB	132.18 g	TRANSOCEAN		05.04.10	67314
15.000 % BWOC	(US-LFT)	SSA-2 (100 Mesh) - PB	99.13 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
0.090 gps	(US-LFT)	SCR-100L	6.13 g		6264	22.10.09	54573
4.93 gps	(US-LFT)	Fresh Water	288.64 g		FRESH	12.04.10	67788

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	1220.51 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	244.10 g	
(US-LFT)	SSA-2 (100 Mesh) - PB	183.08 g	
(US-LFT)	SA-541	2.44 g	
(US-LFT)	ZoneSealant 2000		11.55 g
(US-LFT)	SCR-100L	11.31 g	
(US-LFT)	Fresh Water	533.06 g	

Test Results

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

5593

Exhibit No. _____
Worldwide Court Reporters, Inc.

Thickening Time (Pump as is, call with results 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	Terminatio	Terminatio
135	14458		83	11	06:48	06:50	06:51	06:52			
Thickening Time (REPEAT) Pump as is, call with results 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	Terminatio	Terminatio
135	14458		83	14	07:25	07:34	07:36	07:37			
UCA Comp. Strength (Un-foamed UCA for 12, 24, & 48 Hrs. Circulate before pouring C.S. for 3 Hrs @14458psi) 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	08:12	08:40		2301		2966	3099			
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						
811521	Thickening Time			135	Pump as is, call with results SCR-100L Lot #6264						
812338	Thickening Time			135	REPEAT. Pump as is, call with results SCR-100L Lot #6264						
811522	UCA Comp. Strength			210	Un-foamed UCA for 12, 24, & 48 Hrs. Circulate before pouring C.S. for						
811524	Mixability (0 - 5) - 0 is not mixable										
811529	Mud Balance Density										
Slurry Specific Comments											

Cement Lab Weigh-Up Sheet, May 28, 2010 - Req/Slurry: US-81447/1



Request Id	81447	Rig	TRANSOCEAN HORIZON	Engineer	Timothy Quirk
Slurry No.	1	Customer	BP	Request Type	Pilot
Job	Production Casing	Well	Mississippi Canyon 252	Request Date	28.05.2010
Pipe Size	7	Location	Mississippi Cny	Required By	04.06.2010
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 / 14460 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.	43.76 L/100kg	Yield	90.79 L/100kg	Total liquid	44.56 L/100kg
	16.741 PPG		4.93 gal/sack		1.37 ft ³ /sack		5.02 gal/sack
Pycnometer	N/A	Chloride conc.	N/A	Blend Weight	908.84 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	660.88 g				
0.070 % BWOC	(US-LFT)	EZ-FLO	0.46 g				
0.250 % BWOC	(US-LFT)	D-Air 3000	1.65 g				
1.880 lb/sk	(US-LFT)	KCl (Potassium Chloride)	13.22 g				
20.000 % BWOC	(US-LFT)	SSA-1 (Silica Flour) - PB	132.18 g				
15.000 % BWOC	(US-LFT)	SSA-2 (100 Mesh) - PB	99.13 g				
0.200 % BWOC	(US-LFT)	SA-541	1.32 g				
0.110 gps	(US-LFT)	ZoneSealant 2000	6.88 g				
0.090 gps	(US-LFT)	SCR-100L	6.13 g		6264		
4.93 gps	(US-LFT)	Fresh Water	288.64 g				

Test Results											
Static Gel Strength (JPT = 4:10) at 135 deg F											
Temp (°F)	Pressure	Time 100	Time 200	Time 300	Time 400	Time 500	Time 600	Speed	Stirring	T 100-500	Foam Q
135	14460	0:34				2:20				1:46	

Request/Project Comments
Use all lab stock additives - SCR-100L Lot # 6264

Required Tests			
Test Id	Test Type	Test Temp (F)	Conditions / Req. Properties
881919	Static Gel Strength	135	JPT = 4:10

Slurry Specific Comments

Repeat @ 100 = 1:04 500 = 1:37 FT = 0:33
 MAC #1
ASAP - Tim Q.

$$\begin{array}{r} 5:47 \\ 4:10 \\ \hline 1:37 \end{array}$$

$$\begin{array}{r} 37 \\ 4 \\ \hline 33 \end{array}$$

Cement Lab Weigh-Up Sheet, May 29, 2010 - Req/Slurry: US-81447/1



Request Id	81447	Rig	TRANSOCEAN HORIZON	Engineer	Timothy Quirk
Slurry No.	1	Customer	BP	Request Type	Pilot
Job	Production Casing	Well	Mississippi Canyon 252	Request Date	28.05.2010
Pipe Size	7	Location	Mississippi Cny	Required By	04.06.2010
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 / 14460 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.	43.76 L/100kg	Yield	90.79 L/100kg	Total liquid	44.56 L/100kg
	16.741 PPG		4.93 gal/sack		1.37 ft ³ /sack		5.02 gal/sack
Pycnometer	N/A	Chloride conc.	N/A	Blend Weight	908.84 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	660.88 g	Fourchon-C-Port I,		18.05.10	70903
0.070 % BWOC	(US-LFT)	EZ-FLO	0.46 g				
0.250 % BWOC	(US-LFT)	D-Air 3000	1.65 g			19.01.10	60947
1.880 lb/sk	(US-LFT)	KCl (Potassium Chloride)	13.22 g	Morgan City, La,		12.12.09	58188
20.000 % BWOC	(US-LFT)	SSA-1 (Silica Flour) - PB	132.18 g	Morgan City, La,		15.12.09	58453
15.000 % BWOC	(US-LFT)	SSA-2 (100 Mesh) - PB	99.13 g			29.12.09	59290
0.200 % BWOC	(US-LFT)	SA-541	1.32 g	Morgan City, La,		22.12.08	35695
0.110 gps	(US-LFT)	ZoneSealant 2000	6.88 g	Fourchon-C-Port I,		30.04.10	69365
0.090 gps	(US-LFT)	SCR-100L	6.13 g		6264	22.10.09	54573
4.93 gps	(US-LFT)	Fresh Water	288.64 g			10.05.10	70085

Test Results

Static Gel Strength (JPT = 4:10) at 135 deg F

Temp (°F)	Pressure	Time 100	Time 200	Time 300	Time 400	Time 500	Time 600	Speed	Stiring	T 100-500	Foam Q
135	14460	00:34				02:20		0.2	250	01:46	0

Static Gel Strength (JPT = 4:10) *ON Mac #1*

Temp (°F)	Pressure	Time 100	Time 200	Time 300	Time 400	Time 500	Time 600	Speed	Stiring	T 100-500	Foam Q
135	14460	0:49				2:18		0.2	250	1:29	

Static Gel Strength (JPT = 4:10) *Repeat on mac #2*

Temp (°F)	Pressure	Time 100	Time 200	Time 300	Time 400	Time 500	Time 600	Speed	Stiring	T 100-500	Foam Q
135	14460	1:10				3:10	Bad	not	not	2:00	

Request/Project Comments

Use all lab stock additives - SCR-100L Lot # 6264

Required Tests

Test Id	Test Type	Test Temp (F)	Conditions / Req. Properties
881919	Static Gel Strength	135	JPT = 4:10
883171	Static Gel Strength		JPT = 4:10
883172	Static Gel Strength		JPT = 4:10

Slurry Specific Comments

#2
#1
#2

Pressure

Results ASAF

TO: L.M. Q

138
49
89
1:29

AN SAMPLES (Scan Weigh-up sheet to finish)

RY ID	00163590	Rentl Weigh-up	Out of Stock	Stock Count	Database Connected	Barcode Open	Scale Open
Test ID	81447	Rig	TRANSOCEAN	Engineer	Timothy Quirk		
Y No	1	Customer	BP	Request Type	Pilot		
Production Casing	Well	Mississippi Canyon 252	Request Date	28.05.2010			
Size (in)	7	Field	Requested By	04.06.2010			
Size (in)	9.875	Slurry Type	Trademark				
		Slurry Type	Primary				
		Slurry Name					

Material	Lab	Material	Test Amount	Actual Amount	Source	Lot No	Date	3 sample ID
100 % BWDC	(US-LFT)	Large Class H	680.88 g	660.89 g	Fouchon C-Poil		18 MAY 2010	0000070903
1 % BWDC	(US-LFT)	EZ-FLO	0.46 g	0.46 g			19 APR 2010	0000068343
1 % BWDC	(US-LFT)	D-Air 3000	1.65 g	1.65 g			19 JAN 2010	0000060947
1 lb/4k	(US-LFT)	KCl (Potassium Chloride) Sak	13.22 g	13.22 g	Morgan City, La.		12 DEC 2009	0000058188
10 % BWDC	(US-LFT)	SSA-1 (Silica Flour) - PB	132.18 g	132.18 g	Morgan City, La.		15 DEC 2009	0000058453
10 % BWDC	(US-LFT)	SSA-2 (100 Mesh) - PB	93.13 g	93.13 g			29 DEC 2009	0000059280
1 % BWDC	(US-LFT)	SA-541	1.32 g	1.32 g	Morgan City, La.		22 DEC 2008	0000035695
1 gps	(US-LFT)	Zones eolant 2000	6.88 g	6.88 g	Fouchon C-Poil		30 APR 2010	0000069365
1 gps	(US-LFT)	SCR-100L	6.13 g	6.13 g			22 OCT 2009	0000054573
1 gps	(US-LFT)	Fresh Water	288.64 g	288.64 g		6264	10 MAY 2010	0000070085

81447.1 SGS JS

Program	Abeta	PC ID	ENAU500040470	Scale ID	100900000057	Manual Barcode Entry
---------	-------	-------	---------------	----------	--------------	----------------------

Halliburton Lab Scanner

SCAN SAMPLES (Scan Weigh-up sheet to finish)

Slurry Id	00163590	Restall Weight-up	Out of Stock	Stock Count	Database Connected	Barcode Open	Scale Open
Request Id	81447	Rig	TRANSOCEAN	Engineer	Timothy Quirk		
Slurry No	1	Customer	BP	Request Type	Pilot		
Job	Production Casing	Well	Mississippi Canyon 252	Request Date	28.05.2010		
Pipe Size (in)	7	Field		Required By	04.06.2010		
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	650.88 g	650.88 g	Foundation-C-Port		18 MAY 2010	10000070908
0.07 % BWOC	(US-LFT)	EZ-FLO	0.46 g	1.64 g			19 JAN 2010	0000050347
0.25 % BWOC	(US-LFT)	D-Air 3000	1.85 g	13.21 g	Morgan City, La.		12 DEC 2009	0000058188
1.88 lb/4k	(US-LFT)	KCl (Potassium Chloride) Salt	132.18 g	132.19 g	Morgan City, La.		15 DEC 2009	0000058453
20.00 % BWOC	(US-LFT)	SSA-1 (Silica Flour) - P8	99.13 g	99.12 g			29 DEC 2009	0000059280
15.00 % BWOC	(US-LFT)	SSA-2 (100 Mesh) - P8	1.32 g	1.34 g	Morgan City, La.		22 DEC 2008	0000055895
0.20 % BWOC	(US-LFT)	SA-541	6.88 g	6.89 g	Foundation-C-Port		30 APR 2010	0000059365
0.11 gps	(US-LFT)	ZonesSealant 2000	6.13 g	6.12 g			22 OCT 2009	0000054573
0.09 gps	(US-LFT)	SCR-100L	288.64 g	288.70 g			10 MAY 2010	10000070085
4.93 gps	(US-LFT)	Fresh Water						

DEDRIC TRANS TIME

Exit | About | PC ID: ENALIS00040470 | Scale ID: 100000000057 | Manual Barcode Entry

AN SAMPLES (Scan Weigh-up sheet to finish)

ry id	00163590	Relative Weigh-up	Out of Stock	Stock Count	Database Corrected	Barcode Open	Scale Open
test id	81447	Rig	TRANSOCEAN	Engineer	Timothy Quirk		
p No	1	Customer	BP	Request Type	Pilot		
		Production Casing	Well	Request Date	28.05.2010		
Size (in)	7		Field	Requested By	04.06.2010		
Size (in)	9.875		Slurry Type	Trademark			
			Primary	Slurry Name			

Material	Lab	Material	Test Amount	Actual Amount	Source	Lot No	Date	Sample Id
00 % BWDC	(US-LFT)	EZ-FLO	650.88 g	650.88 g	Fouchon-C-Port		18. MAY 2010	0000070903
1 % BWDC	(US-LFT)	D-Air 3000	0.46 g	1.65 g			19. JAN 2010	0000060947
1 lb/sk	(US-LFT)	KCl (Potassium Chloride) Sak	13.22 g	13.22 g	Morgan City, La.		12. DEC 2009	0000058188
10 % BWDC	(US-LFT)	SSA-1 (Silica Flour) - PB	132.18 g	132.17 g	Morgan City, La.		15. DEC 2009	0000058453
1 % BWDC	(US-LFT)	SSA-2 (100 Mesh) - PB	99.13 g	98.13 g			29. DEC 2009	0000059290
gps	(US-LFT)	SA-541	1.32 g	1.32 g	Morgan City, La.		22. DEC 2008	0000035595
gps	(US-LFT)	ZoneSealant 2000	6.88 g	6.88 g			30. APR 2010	0000069365
gps	(US-LFT)	SCR-100L	6.13 g	6.13 g	Fouchon-C-Port	6264	22. OCT 2009	0000054573
gps	(US-LFT)	Fresh Water	288.64 g	288.64 g			10. MAY 2010	0000070085

81447.1 SGS JS

plc/plain	Aboul	PC ID	ENAU500040470	Scale Id	100000900067	Manual Barcode Entry
-----------	-------	-------	---------------	----------	--------------	----------------------

SCAN SAMPLES (Scan Weigh-up sheet to finish)

Slurry Id	00163590	Resist Weight-up	Out of Stock	Stock Count	Database Connected	Barcode Open	Scale Open
Request Id	81447	Rig	TRANSOCEAN	Engineer	Timothy Quirk		
Slurry No	1	Customer	BP	Request Type	Pilot		
Job	Production Casing	Well	Mississippi Canyon 252	Request Date	28.05.2010		
Pipe Size (in)	7	Field		Required By	04.06.2010		
Hoie Size (in)	9.875	Slurry Type	Primary	Trademark			
		Slurry Name					

Concentration	Lab	Material	Test Amount	Actual Amount	Sealance	Lot No	Date	Sample Id
100.00 % BWDC	(US-LEFT)	Lalarge Class. H	660.88 g	660.88 g	Fouchon-E-Port		18 MAY 2010	0000070903
0.07 % BWDC	(US-LEFT)	EZ-FLD	0.46 g	1.65 g			19 JAN 2010	0000060947
0.25 % BWDC	(US-LEFT)	D-Air-3000	1.65 g	13.22 g	Morgan City, La.		12 DEC 2009	0000059188
1.88 lb/bk	(US-LEFT)	KCLIP (Potassium Chloride) Salt	132.18 g	132.17 g	Morgan City, La.		15 DEC 2009	0000058453
20.00 % BWDC	(US-LEFT)	SSA-1 (Silica Flour) - P8	99.13 g	99.13 g			29 DEC 2009	0000058290
15.00 % BWDC	(US-LEFT)	SSA-2 (100 Mesh) - P8	1.32 g	1.32 g	Morgan City, La.		22 DEC 2008	0000056566
0.20 % BWDC	(US-LEFT)	SA-541	6.88 g	6.07 g	Fouchon-E-Port		30 APR 2010	0000059365
0.11 gps	(US-LEFT)	ZoneSealant 2000	6.13 g	6.12 g			22 OCT 2009	0000054573
0.09 gps	(US-LEFT)	SCR-100L	288.64 g	288.66 g		6264	10 MAY 2010	0000070086
4.93 gps	(US-LEFT)	Fresh Water						

DEDRIC TRANS TIME