

Cement Lab Weigh-Up Sheet, Apr 15, 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 / 18380	Pressure	997 bar / 14458 psi
BHCT	57 °C / 135 °F	Heating time	83 min	TVD	5596 m / 18380	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				67314
0.070 % BWOC	(US-LFT)	EZ-FLO	0.46 g				
0.250 % BWOC	(US-LFT)	D-Air 3000	3.05 g				
1.880 lb/sk	(US-LFT)	KCl (Potassium Chloride)	19.22 g				
20.000 % BWOC	(US-LFT)	SSA-1 (Silica Flour) - PB	132.18 g				
15.000 % BWOC	(US-LFT)	SSA-2 (100 Mesh) - PB	89.13 g				
0.200 % BWOC	(US-LFT)	SA-541	4.32 g				
0.110 g/s	(US-LFT)	ZoneSealant 2000	6.88 g				
0.090 g/s	(US-LFT)	SCR-100L	6.13 g				
4.93 g/s	(US-LFT)	Fresh Water	288.64 g				67315

Results ASAP
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Foam Details

Final Foam Density	1.737 S.G.	Calc. Downstream Density	1.986 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)
	Density (ppg)
	18.7

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Foam Mix and Stability (Foamed to 14.5 ppg)												
Sink (mm)	Time to Foam	Average Mix	Foam Density (SG)	SG top	SG bot.	Conditioning time						
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	Termination	Termination	
135	14.458	2	87	11:00	6:48	6:50	6:51	6:52	Repeat 45 per	Test		
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	18 hr CS	24 hr CS	48 hr CS	End CS	End Time	Crush CS	
210	14.458											
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	
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									
811522	UCA Comp. Strength	210	Un-foamed UCA for 12, 24, & 48 Hrs, Circulate before pouring C.S. for									
811523	Crush Compressive Strength	210	12, 24, & 48 Hrs Crush, Foamed to 14.5 ppg									
811524	Mixability (0 - 5) - 0 is not mixable											
811525	Foam Mix and Stability		Foamed to 14.5 ppg									
811529	Mud Balance Density											
Slurry Specific Comments												