

Cement Lab Weigh-Up Sheet, Apr 16, 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 / 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.	43.76 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
Pychrometer	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	BLEND
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)	43.22 g	TRANSOCEAN		05.04.10	67314	
20.000 % BWOC	(US-LFT)	SSA-1 (Silica Flour) - PB	432.48 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	4.52 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	

Results ASAP
TO: Jesse G.

Test Results		
Mixability (0 - 5) - 0 is not mixable	Mud Balance Density	
Mixability rating (0 - 5)	Density (SG)	Density (ppg)
4/1A		16.7

HIGHLY CONFIDENTIAL

EXHIBIT # **811**
WIT: _____

HAL_0502393

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						
		Cancel	Foamed	Stability as per Jesse								
Thickening Time (REPEAT. Pump as is, call with results SCR-100L Lot #6264) at 135 deg F 4/16/17												
Temp (°F)	Pressure	Batch Mix	Reached	Start BC	30 Bc	40 Bc	50 Bc	70 Bc	100 Bc	Terminatio	Terminatio	
135	14458	0	83	14	7:25	7:34	7:36	7:37	OK'D By Jesse	1:55am	4/17	
Thickening Time (Pump as is, call with results SCR-100L Lot #6264) at 135 deg F Pour cis on UCA ONLY as per Jesse												
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	Bad chat, repeat			
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	8.12	8.40		2301		2966	3099				
Crush Compressive Strength (12, 24, & 48 Hrs Crush, Foamed to 14.5 ppg) at 210 deg F												
Conditioni	Curing	Curing	Time 1	Strength 1	Time 2	Strength 2	Time 3	Strength 3	Time 4	Strength 4	Foam	
	210	-	12		24		48	Cancelled foamed cis				
Request/Project Comments												
Use location Blend and Rig water in lab Use SCR-100L LOT#:6264												
Request/Project Comments												
ON THIS PART AS PER JESSE												
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									
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												

#7 Repeat

Cond 3hr

Pass (2)