

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



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	1.05 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	98.96 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	

Test Results

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

16.6 f/ps.10

9.00pm
Repeat New Cup #4

Setting
See note

7:30pm 3/9

Foam Mix and Stability (Foamed to 14.5 ppg Condition for 2 hours before pouring)															
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															
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 by Jane			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															
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															
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	48	From	96	2106				
Non-API Rheology at 190 deg F															
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	35	21	20	12	8	8	4	3	2	2					
	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	Condition	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															

Compi is 120 behind

8:45pm 3/9 CK

Heat 4

Slurry is settling out of blender, may be 1 to 1.5 in. ...