

Cement Lab Weigh-Up Sheet, Feb 16, 2010 - Req/Slurry: US-65112/3



Request Id	65112	Rig	TRANSOCEAN HORIZON	Engineer	Jesse Gagliano
Slurry No.	3	Customer	BP	Request Type	Operation
Job	Production Casing	Well	Mississippi Canyon 252	Request Date	10.02.2010
Pipe Size	9.625	Location	Mississippi Cny	Required By	12.02.2010
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 ft ³ /sack		5.04 gal/sack
Pycnometer	35.000 %	Chloride conc.	N/A	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	29.12.09	59335
0.070 % BWOC	(US-LFT)	EZ-FLO	0.46 g	TRANSOCEAN	BLENDED	29.12.09	59335
0.250 % BWOC	(US-LFT)	D-Air 3000	1.65 g	TRANSOCEAN	BLENDED	29.12.09	59335
1.880 lb/sk	(US-LFT)	KCl (Potassium Chloride)	13.19 g	TRANSOCEAN	BLENDED	29.12.09	59335
20.000 % BWOC	(US-LFT)	SSA-1 (Silica Flour) - PB	131.95 g	TRANSOCEAN	BLENDED	29.12.09	59335
15.000 % BWOC	(US-LFT)	SSA-2 (100 Mesh) - PB	98.96 g	TRANSOCEAN	BLENDED	29.12.09	59335
0.200 % BWOC	(US-LFT)	SA-541	1.32 g	TRANSOCEAN	BLENDED	29.12.09	59335
0.110 gps	(US-LFT)	ZoneSealant 2000	6.87 g	Morgan City, La,		15.03.09	40395
0.200 gps	(US-LFT)	SCR-100L	13.59 g	Morgan City, La,	2117	23.12.08	36204
4.84 gps	(US-LFT)	Fresh Water	282.74 g			18.01.10	60731

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	2020.76 g	Base Slurry Total Weight	2032.29 g				

Foam Mixing

Lab	Material	Unfoamed Slurry Prep.	Unfoamed Slurry
(US-LFT)	Lafarge Class H	1218.41 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	243.68 g	
(US-LFT)	SSA-2 (100 Mesh) - PB	182.76 g	
(US-LFT)	SA-541	2.44 g	
(US-LFT)	ZoneSealant 2000		11.53 g
(US-LFT)	SCR-100L	25.10 g	
(US-LFT)	Fresh Water	522.18 g	

Test Results

Mixability (0 - 5) - 0 is not mixable	Mud Balance Density	
Mixability rating (0 - 5)	Density (SG)	Density (ppg)
5		16.5

EXHIBIT # **809**
WIT: _____

Use half cone seal to condition Then pour and pour Cubes & Foam Stability

Foam Mix and Stability at 180 deg F															
Sink [mm]	Time to Foam	Average Mix	Foam Density [SG]	SG top	SG bot.	Conditioning time									
				2.02	2.11	00:00									
Foam Mix and Stability (Foamed to 14.5 ppg Condition for 2 hours before pouring) at 180 deg F 4:00a 2/17/10															
				1.91	1.91										
Thickening Time (Need 5 - 6 Hrs., 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	Terminatio	Terminatio				
223	15945	0	89	7	04:57	04:58	04:59	05:00							
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				
Crush Compressive Strength (12, 24, & 48 Hrs Crush, Foamed to 14.5 ppg) at 262 deg F															
Conditioni	Curing	Curing	Time 1	Strength 1	Time 2	Strength 2	Time 3	Strength 3	Time 4	Strength 4	Foam				
	180		12	0	24	0.0					0				
Crush Compressive Strength (Foamed to 14.5 ppg Condition for 2 hours before pouring) at 180 deg F 4:00a 2/17/10															
Conditioni	Curing	Curing	Time 1	Strength 1	Time 2	Strength 2	Time 3	Strength 3	Time 4	Strength 4	Foam				
			12	0	24	0	36	0	48	File	60 Hard on both soft on top				
Non API Rheology at 190 deg F 96hr CS = 1145 84 Hard on bottom from on top															
Test temp	600	300	200	100	60	30	20	10	6	3	Condition				
190	192	108	66	34	20	10	6	2	2	2					
Non API Rheology at 80 deg F															
Test temp	600	300	200	100	60	30	20	10	6	3	Condition				
80	120	58	36	16	8	4	2	2	2	2					
Non API Rheology at 130 deg F															
Test temp	600	300	200	100	60	30	20	10	6	3	Condition				
130	56	28	18	8	4	2	2	2	2	2					
FYSA Viscosity Profile & Gel Strength at 80 deg F															
Test	600	300	200	100	60	30	6	3	3D - 3	6D - 6	Conditio	Gel 10	Gel 30	K1	K2
80															
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												
722097	Thickening Time	223	Need 5 - 6 Hrs., SCR-100L Lot #2117												
722098	UCA Comp. Strength	262	UCA for 12, 24, & 48 Hrs, Circulate before pouring C.S. for 3 Hrs												
722099	Crush Compressive Strength	262	12, 24, & 48 Hrs Crush, Foamed to 14.5 ppg												
727535	Crush Compressive Strength	180	Foamed to 14.5 ppg Condition for 2 hours before pouring												
722100	Mixability (0 - 5) - 0 is not mixable														
722101	Foam Mix and Stability	180													
727534	Foam Mix and Stability	180	Foamed to 14.5 ppg Condition for 2 hours before pouring												
722102	FYSA Viscosity Profile & Gel Strength	80													
722103	Non API Rheology	80													
722104	Non API Rheology	130													
722105	Non API Rheology	190													
722106	Mud Balance Density														
Slurry Specific Comments															

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