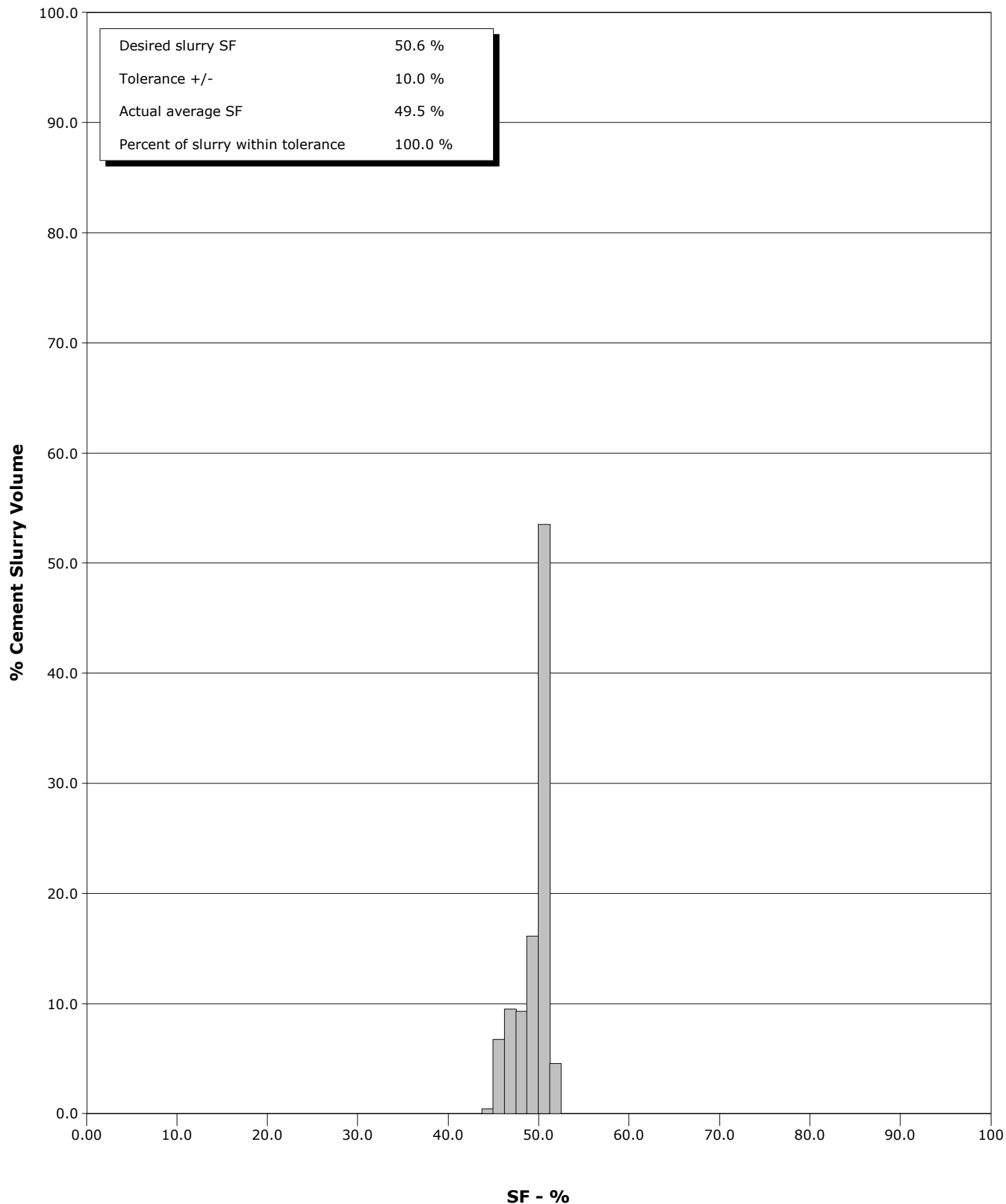


Schlumberger Cementing Qa/Qc SFM Report

Well
Field
Engineer
Country United States

Client
SIR No.
Job Type
Job Date 12-13-2010

Cement Slurry - 12/13/2010 15:34:42 to 12/13/2010 16:45:11





Cementing Service Report

				Customer			Job Number								
Well			Location (legal)			Schlumberger Location			Job Start Dec/13/2010						
Field		Formation Name/Type			Deviation		Bit Size 14.8 in		Well MD		Well TVD				
County		State/Province			BHP		BHST		BHCT		Pore Press. Gradient				
Well Master		API/UWI													
Rig Name		Drilled For		Service Via		Casing/Liner									
						Depth, ft		Size, in		Weight, lb/ft		Grade		Thread	
Offshore Zone		Well Class		Well Type		3032.0		9.630		36.0		110		8RD	
						0.0		0.000		0.0					
Drilling Fluid Type		Max. Density		Plastic Viscosity		Tubing/Drill Pipe									
						Depth,		Size,		Weight,		Grade		Thread	
Service Line Cementing		Job Type													
Max. Allowed Tubing Press		Max. Allowed Ann. Press		WellHead Connection Single Cement head		Perforations/Open Hole									
						Top,		Bottom,				No. of Shots		Total Interval	
Service Instructions														Diameter	
		Treat Down Casing				Displacement 231.0 bbl				Packer Type		Packer Depth			
		Tubing Vol.				Casing Vol. 234.0 bbl				Annular Vol. 368.0 bbl		Openhole Vol. 602.0 bbl			
Casing/Tubing Secured <input checked="" type="checkbox"/>		1 Hole Volume Circulated prior to Cement <input type="checkbox"/>				Casing Tools				Squeeze Job					
Lift Pressure 1500 psi						Shoe Type Guide				Squeeze Type					
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>				Shoe Depth 3032.0 ft				Tool Type					
No. Centralizers		Top Plugs		Bottom Plugs		Stage Tool Type				Tool Depth					
Cement Head Type Single						Stage Tool Depth				Tail Pipe Size					
Job Scheduled For Dec/13/2010		Arrived on Location Dec/13/2010		Leave Location Dec/13/2010		Collar Type Diff-Fill				Tail Pipe Depth					
						Collar Depth 2985.0 ft				Sqz. Total Vol.					
Date	Time 24-hr clock	Treating Pressure PSI		Flow Rate B/M		Density LB/G		Volume BBL		Message					
12/13/2010	14:27:38									Started Acquisition					
12/13/2010	14:28:24									Cement 3032'					
12/13/2010	14:28:24	441		6.5		8.93		0.1							
12/13/2010	14:28:25									9 5/8" Casing					
12/13/2010	14:28:25									SJ= 2985					
12/13/2010	14:28:25	424		6.5		8.93		0.2							
12/13/2010	14:28:27									Held Safety Meeting					
12/13/2010	14:28:27	437		6.5		8.93		0.4							
12/13/2010	14:28:28									Start Job					
12/13/2010	14:28:28	437		6.5		8.94		0.5							
12/13/2010	14:28:29									Pressure Test Lines					
12/13/2010	14:28:29	477		6.5		8.94		0.6							
12/13/2010	14:28:31									Test To 500&3500psi					
12/13/2010	14:28:31									Test= Sucsesfull					
12/13/2010	14:28:31	479		6.5		8.95		0.9							
12/13/2010	14:28:32									80bbls Mud With					
12/13/2010	14:28:32	466		6.5		8.95		1.0							
12/13/2010	14:28:33									Cement Plus					
12/13/2010	14:28:33									10bbls Water					
12/13/2010	14:28:33									20bbls S001					
12/13/2010	14:28:33									10bbls Water					
12/13/2010	14:28:33									30bbls D075					

Well			Field		Job Start Dec/13/2010		Customer	Job Number
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message		
12/13/2010	14:28:33					10bbls Water		
12/13/2010	14:28:33					80bbls Mud		
12/13/2010	14:28:33	466	6.5	8.95	1.1			
12/13/2010	14:28:34					With Cemnet Plus		
12/13/2010	14:28:34					10bbls Water		
12/13/2010	14:28:34	496	6.5	8.94	1.2			
12/13/2010	14:29:38	445	6.4	8.85	8.0			
12/13/2010	14:31:38	369	6.5	8.76	20.8			
12/13/2010	14:33:38	448	6.5	8.51	33.8			
12/13/2010	14:35:38	420	6.5	8.74	46.7			
12/13/2010	14:36:40					20bbls S001		
12/13/2010	14:36:40					10bbls Water		
12/13/2010	14:36:40					30bbls D075		
12/13/2010	14:36:40					10bbls Water		
12/13/2010	14:36:40					50bbls Mudpush		
12/13/2010	14:36:40	420	6.5	8.47	53.4			
12/13/2010	14:37:38	439	6.5	8.51	59.7			
12/13/2010	14:38:42					@ 8.6ppg		
12/13/2010	14:38:42	415	6.6	9.60	66.7			
12/13/2010	14:39:38	460	6.5	9.97	72.7			
12/13/2010	14:41:38	480	6.5	9.98	85.6			
12/13/2010	14:43:38	330	9.1	3.94	99.0			
12/13/2010	14:45:38	264	4.5	8.51	116.5			
12/13/2010	14:47:38	301	4.5	8.86	125.6			
12/13/2010	14:49:38	346	6.4	8.93	137.9			
12/13/2010	14:51:38	363	6.4	8.81	150.7			
12/13/2010	14:53:38	384	6.4	8.77	163.6			
12/13/2010	14:55:38	392	6.4	8.83	176.5			
12/13/2010	14:57:38	375	6.5	8.74	189.3			
12/13/2010	14:59:38	348	6.5	8.68	202.3			
12/13/2010	15:01:38	403	6.5	8.51	215.3			
12/13/2010	15:03:38	419	6.5	8.86	228.2			
12/13/2010	15:05:38	360	6.5	8.49	241.1			
12/13/2010	15:07:38	387	6.5	9.97	254.1			
12/13/2010	15:09:38	373	6.5	9.98	267.0			
12/13/2010	15:11:38	316	6.0	8.51	293.6			
12/13/2010	15:13:38	386	6.2	8.51	305.9			
12/13/2010	15:15:38	274	4.1	8.76	315.1			
12/13/2010	15:17:38	304	4.2	9.01	323.4			
12/13/2010	15:19:38	317	6.0	8.78	332.0			
12/13/2010	15:21:38	334	6.0	8.69	344.1			
12/13/2010	15:23:38	340	5.9	8.66	356.1			
12/13/2010	15:25:38	318	5.9	8.71	367.8			
12/13/2010	15:27:38	348	5.9	8.76	379.6			
12/13/2010	15:29:38	416	6.0	9.26	391.5			
12/13/2010	15:31:38	376	6.1	9.51	403.7			
12/13/2010	15:33:38	384	6.2	9.59	416.0			
12/13/2010	15:34:42					Start Cement Slurry		
12/13/2010	15:34:42	380	6.4	9.61	422.7			
12/13/2010	15:34:43					558bbls @ 9ppg		
12/13/2010	15:34:43					Take Wet&Dry Sample		
12/13/2010	15:34:43					SF= 50.6%		
12/13/2010	15:34:43	382	6.4	9.61	422.8			
12/13/2010	15:35:38	365	6.4	9.64	428.6			
12/13/2010	15:37:38	427	7.9	9.64	442.3			

Well			Field		Job Start Dec/13/2010		Customer	Job Number
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message		
12/13/2010	15:39:38	419	7.9	9.59	458.1			
12/13/2010	15:41:38	393	7.9	9.55	474.0			
12/13/2010	15:43:38	388	8.0	9.51	489.9			
12/13/2010	15:45:38	377	8.0	9.53	505.8			
12/13/2010	15:47:38	300	7.8	9.58	521.7			
12/13/2010	15:49:38	354	7.9	9.57	537.5			
12/13/2010	15:51:38	345	8.0	9.59	553.3			
12/13/2010	15:53:38	307	8.1	9.57	569.4			
12/13/2010	15:55:38	240	6.8	9.52	585.1			
12/13/2010	15:57:38	144	5.2	9.59	597.1			
12/13/2010	15:59:38	227	6.3	9.62	609.6			
12/13/2010	16:01:38	223	6.3	9.62	622.3			
12/13/2010	16:03:38	227	6.3	9.65	635.0			
12/13/2010	16:05:38	230	6.4	9.66	647.6			
12/13/2010	16:07:38	250	6.3	9.62	660.3			
12/13/2010	16:09:38	255	6.3	9.54	673.0			
12/13/2010	16:11:38	342	8.4	9.54	685.9			
12/13/2010	16:13:38	340	8.4	9.46	702.7			
12/13/2010	16:15:38	324	8.4	9.40	719.6			
12/13/2010	16:17:38	302	8.4	9.36	736.4			
12/13/2010	16:19:38	344	8.4	9.40	753.3			
12/13/2010	16:21:38	346	8.5	9.40	770.1			
12/13/2010	16:23:38	284	6.5	9.57	783.4			
12/13/2010	16:25:38	279	6.5	9.60	796.5			
12/13/2010	16:27:38	280	6.5	9.52	809.5			
12/13/2010	16:29:38	318	6.5	9.53	822.6			
12/13/2010	16:31:38	342	6.5	9.57	835.6			
12/13/2010	16:33:38	323	6.5	9.54	848.6			
12/13/2010	16:35:38	318	6.5	9.52	861.6			
12/13/2010	16:37:38	335	6.5	9.53	874.6			
12/13/2010	16:39:38	314	6.5	9.48	887.6			
12/13/2010	16:41:38	313	6.5	9.48	900.6			
12/13/2010	16:43:38	313	6.5	9.55	913.6			
12/13/2010	16:45:11					End Cement Slurry		
12/13/2010	16:45:11	336	6.5	9.58	923.6			
12/13/2010	16:45:13					Drop Plug On Fly		
12/13/2010	16:45:13	335	6.5	9.59	923.9			
12/13/2010	16:45:38	339	6.5	9.60	926.6			
12/13/2010	16:47:38	209	4.6	9.72	938.6			
12/13/2010	16:49:38	179	4.6	8.56	947.8			
12/13/2010	16:50:26					Start Displacement		
12/13/2010	16:50:26	171	4.6	8.56	951.5			
12/13/2010	16:50:28					231bbbls Fresh H2o		
12/13/2010	16:50:28	163	4.6	8.56	951.7			
12/13/2010	16:51:38	204	4.6	8.54	957.0			
12/13/2010	16:53:38	233	6.0	8.68	966.3			
12/13/2010	16:55:38	268	6.4	8.59	978.9			
12/13/2010	16:57:38	252	6.3	8.56	991.6			
12/13/2010	16:59:38	257	6.3	8.54	1004.3			
12/13/2010	17:01:38	217	6.3	8.54	1017.0			
12/13/2010	17:03:38	272	6.3	8.54	1029.6			
12/13/2010	17:05:38	295	6.3	8.54	1042.2			
12/13/2010	17:07:38	292	6.3	8.54	1054.9			
12/13/2010	17:08:05					130bbbls Cement		
12/13/2010	17:08:05	298	6.3	8.54	1057.7			

Well			Field		Job Start Dec/13/2010	Customer		Job Number
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message		
12/13/2010	17:08:19					To Surface		
12/13/2010	17:08:19	320	6.3	8.54	1059.2			
12/13/2010	17:09:38	313	6.3	8.54	1067.5			
12/13/2010	17:11:38	348	6.3	8.54	1080.1			
12/13/2010	17:13:38	388	6.3	8.54	1092.7			
12/13/2010	17:15:38	406	6.3	8.54	1105.3			
12/13/2010	17:17:38	433	6.3	8.54	1117.9			
12/13/2010	17:19:38	424	6.3	8.54	1130.5			
12/13/2010	17:21:38	408	6.3	8.54	1143.1			
12/13/2010	17:23:38	265	2.2	8.54	1149.6			
12/13/2010	17:25:38	257	2.2	8.54	1153.9			
12/13/2010	17:27:38	235	2.2	8.54	1158.3			
12/13/2010	17:29:38	260	2.2	8.54	1162.7			
12/13/2010	17:31:38	284	2.2	8.54	1167.1			
12/13/2010	17:33:38	243	2.2	8.53	1171.4			
12/13/2010	17:35:38	255	2.2	8.53	1175.8			
12/13/2010	17:36:40					Bump Top Plug		
12/13/2010	17:36:40	774	0.0	8.54	1177.4			
12/13/2010	17:36:42					Bump To 800psi		
12/13/2010	17:36:42	768	0.0	8.54	1177.4			
12/13/2010	17:37:38	762	0.0	8.54	1177.4			
12/13/2010	17:39:38	-12	0.0	8.54	1177.4			
12/13/2010	17:41:38	-14	0.0	8.54	1177.4			
12/13/2010	17:43:38	-15	0.0	8.54	1177.4			
12/13/2010	17:45:38	-14	0.0	8.54	1177.4			
12/13/2010	17:47:38	-15	0.0	8.54	1177.4			
12/13/2010	17:49:38	169	0.0	8.53	1177.4			
12/13/2010	17:51:38	151	5.3	8.54	1179.9			
12/13/2010	17:53:38	-13	0.0	8.54	1185.6			
12/13/2010	17:55:38	-13	0.0	8.54	1185.6			
12/13/2010	17:57:38	-12	0.0	8.55	1185.6			
12/13/2010	17:59:38	-12	0.0	8.55	1185.6			
12/13/2010	18:01:38	-12	0.0	8.55	1185.6			
12/13/2010	18:03:38	-12	0.0	8.55	1185.6			
12/13/2010	18:04:38	-13	0.0	8.55	1185.6			
12/13/2010	18:04:38					Floats Held		
12/13/2010	18:04:38					End Job		

Post Job Summary

Average Pump Rates,					Volume of Fluid Injected,			
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2	
Treating Pressure Summary,					Breakdown Fluid			
Maximum	Final	Average	Bump Plug to	Breakdown	Type	Volume	Density	
Avg. N2 Percent		Designed Slurry Volume	Displacement	Mix Water Temp	Cement Circulated to Surface? <input checked="" type="checkbox"/>		Volume 130.0 bbl	
		558.0 bbl		76 degF	Washed Thru Perfs <input type="checkbox"/>		To	
Customer or Authorized Representative			Schlumberger Supervisor			Circulation Lost <input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>	
						-	-	