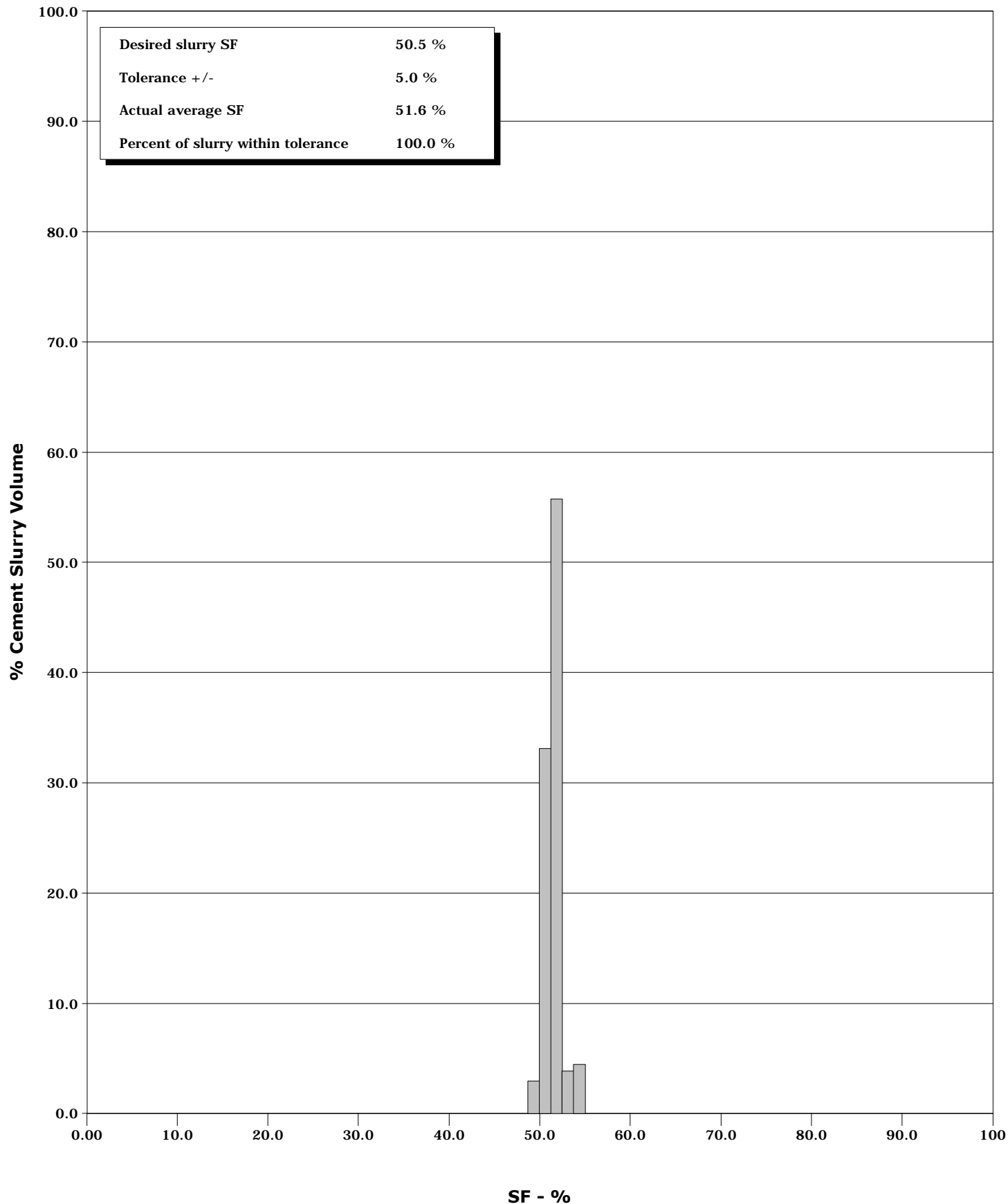


Schlumberger Cementing Qa/Qc SFM Report

Well SG 8513D-25
Field Story Gulch
Engineer ROGERS / HANSEN
Country United States

Client Encana
SIR No. C610-00567
Job Type 9 5/8 SURFACE
Job Date 09-23-2012

Cement Slurry - 09/23/2012 18:10:41 to 09/23/2012 19:19:05





Cementing Service Report

				Customer Encana			Job Number C610-00567								
Well SG 8513D-25			Location (legal) D36			Schlumberger Location			Job Start Sep/23/2012						
Field Story Gulch		Formation Name/Type Dirty-Sandstone			Deviation		Bit Size		Well MD		Well TVD				
County Garfield		State/Province Colorado			BHP		BHST		BHCT		Pore Press. Gradient				
Well Master 121626222		API/UWI 05045209300000													
Rig Name PATTERSON 306		Drilled For Gas		Service Via Land		Casing/Liner									
Offshore Zone		Well Class New		Well Type Development		Depth, ft		Size, in		Weight, lb/ft		Grade		Thread	
						3025.0		9.630		36.0		J55		8RD	
Drilling Fluid Type		Max. Density		Plastic Viscosity		Tubing/Drill Pipe									
						Depth,		Size,		Weight,		Grade		Thread	
Service Line Cementing		Job Type 9 5/8 SURFACE													
Max. Allowed Tub. Press		Max. Allowed Ann. Press		WH Connection Single Cement head		Perforations/Open Hole									
						Top,		Bottom,				No. of Shots		Total Interval	
Service Instructions														Diameter	
						Treat Down		Displacement		Packer Type		Packer Depth			
Tubing Vol.		Casing Vol.		Annular Vol.		Openhole Vol.									
Casing/Tubing Secured <input type="checkbox"/>		1 Hole Vol. Circulated prior to Cement <input type="checkbox"/>		Casing Tools				Squeeze Job							
Lift Pressure				Shoe Type Float				Squeeze Type							
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Depth 3025.0 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 Sep/23/2012		Arrived on Location Sep/23/2012		Leave Location Sep/23/2012		Collar Type Float				Tail Pipe Depth					
						Collar Depth				Sqz. Total Vol.					
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message									
09/23/2012	16:42:05					Started Acquisition									
09/23/2012	17:06:37	-6	0.0	9.08	0.0										
09/23/2012	17:06:39					Pump PerssureNet Pil									
09/23/2012	17:06:39					ZoneLock Pill									
09/23/2012	17:06:39	-5	0.0	9.08	0.0										
09/23/2012	17:06:40					1134 Sacks Of LiteCrete Cement									
09/23/2012	17:06:40	-5	0.0	9.08	0.0										
09/23/2012	17:06:41					230 bbls Of Displacement									
09/23/2012	17:06:41	-6	0.0	9.08	0.0										
09/23/2012	17:06:42					10 bbls Of Sugar Water									
09/23/2012	17:06:42	-6	0.0	9.08	0.0										
09/23/2012	17:06:45					Start Job									
09/23/2012	17:06:45	-6	0.0	9.08	0.0										
09/23/2012	17:06:46					Fill Lines									
09/23/2012	17:06:46	-6	0.0	9.08	0.0										
09/23/2012	17:06:48					Pressure Test Lines									
09/23/2012	17:06:48	-6	0.0	9.08	0.0										
09/23/2012	17:07:05	-6	0.0	9.08	0.0										
09/23/2012	17:12:05	-5	0.0	9.09	0.0										
09/23/2012	17:17:05	774	0.0	8.75	2.0										
09/23/2012	17:22:05	19	0.0	8.74	2.0										

Well			Field		Job Start		Customer		Job Number	
SG 8513D-25			Story Gulch		Sep/23/2012		Encana		C610-00567	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
09/23/2012	17:22:53	17	0.0	8.74	2.0					
09/23/2012	17:22:56					Test = Good				
09/23/2012	17:22:56	17	0.0	8.74	2.0					
09/23/2012	17:22:57					PressureNet				
09/23/2012	17:22:57	17	0.0	8.74	2.0					
09/23/2012	17:27:05	173	5.9	8.69	17.0					
09/23/2012	17:32:05	144	5.9	8.68	46.0					
09/23/2012	17:37:05	88	5.8	8.69	75.0					
09/23/2012	17:42:05	10	5.9	8.68	104.0					
09/23/2012	17:47:05	166	5.7	8.43	132.9					
09/23/2012	17:48:53					Water				
09/23/2012	17:48:53	134	5.7	8.36	143.3					
09/23/2012	17:49:00					S001				
09/23/2012	17:49:00	141	6.2	8.36	144.0					
09/23/2012	17:49:07					Water				
09/23/2012	17:49:07	150	6.2	8.36	144.7					
09/23/2012	17:49:12					Zonelock				
09/23/2012	17:49:12	150	6.2	8.36	145.2					
09/23/2012	17:49:20					Water				
09/23/2012	17:49:20	152	6.3	9.49	146.1					
09/23/2012	17:52:05	102	3.9	9.67	162.7					
09/23/2012	17:57:05	94	4.9	8.36	183.3					
09/23/2012	18:01:19					Start Pumping Spacer				
09/23/2012	18:01:19	49	3.7	8.68	201.7					
09/23/2012	18:02:05	49	3.4	8.73	204.5					
09/23/2012	18:07:05	35	2.8	8.66	220.5					
09/23/2012	18:08:16					End Spacer				
09/23/2012	18:08:16	39	2.9	8.90	224.0					
09/23/2012	18:08:27					Reset Total, Vol = 224.50 bbl				
09/23/2012	18:08:27	45	2.8	8.93	224.5					
09/23/2012	18:09:17					Start Mixing Lead Slurry				
09/23/2012	18:09:17	93	3.7	8.89	227.0					
09/23/2012	18:09:20					Wet Dry Sample				
09/23/2012	18:09:20					Wet Sample = 9.0 ppg				
09/23/2012	18:09:20	67	3.9	8.76	227.2					
09/23/2012	18:09:22					Good Returns				
09/23/2012	18:09:22	84	4.2	8.71	227.3					
09/23/2012	18:12:05	170	7.3	9.09	245.4					
09/23/2012	18:17:05	210	7.1	9.08	283.0					
09/23/2012	18:22:05	267	6.8	9.17	317.3					
09/23/2012	18:27:05	247	7.4	9.22	354.3					
09/23/2012	18:32:05	197	7.4	9.24	391.5					
09/23/2012	18:37:05	418	7.4	9.05	428.5					
09/23/2012	18:42:05	413	6.7	9.05	468.8					
09/23/2012	18:47:05	463	8.2	9.07	508.2					
09/23/2012	18:52:05	466	8.2	9.15	549.2					
09/23/2012	18:57:05	459	8.2	9.17	590.4					
09/23/2012	19:02:05	466	8.2	9.17	631.6					
09/23/2012	19:07:05	461	8.2	9.18	672.8					
09/23/2012	19:12:05	452	8.3	9.22	714.0					
09/23/2012	19:17:05	479	8.2	9.27	755.7					
09/23/2012	19:20:36					Cement Back To Surface				
09/23/2012	19:20:36	463	8.2	9.26	784.6					
09/23/2012	19:22:05	466	8.2	9.27	796.9					

Well			Field	Job Start		Customer	Job Number
SG 8513D-25			Story Gulch	Sep/23/2012		Encana	C610-00567
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
09/23/2012	19:31:45					End Lead Slurry	
09/23/2012	19:31:45	322	8.2	9.30	876.4		
09/23/2012	19:31:53					Reset Total, Vol = 652.85 bbl	
09/23/2012	19:31:53	306	6.5	9.30	877.4		
09/23/2012	19:32:05	308	6.5	9.31	878.6		
09/23/2012	19:37:05	108	2.8	8.87	886.8		
09/23/2012	19:40:38					Drop Top Plug	
09/23/2012	19:40:38	194	5.5	8.51	899.2		
09/23/2012	19:40:39					Start Displacement	
09/23/2012	19:40:39	194	5.5	8.51	899.3		
09/23/2012	19:40:42					Good Returns	
09/23/2012	19:40:42	182	6.2	8.51	899.6		
09/23/2012	19:42:05	207	6.4	8.46	908.4		
09/23/2012	19:47:05	325	7.5	8.41	944.7		
09/23/2012	19:52:05	382	7.5	8.41	983.2		
09/23/2012	19:57:05	356	7.5	8.32	1019.7		
09/23/2012	20:02:05	429	7.5	8.41	1057.3		
09/23/2012	20:07:05	470	7.5	8.41	1094.7		
09/23/2012	20:12:05	258	2.2	8.41	1122.7		
09/23/2012	20:17:05	719	1.4	8.41	1133.5		
09/23/2012	20:17:34					Bump Top Plug	
09/23/2012	20:17:34	726	0.0	8.41	1133.6		
09/23/2012	20:17:35					End Displacement	
09/23/2012	20:17:35	727	0.0	8.41	1133.6		
09/23/2012	20:22:05	727	0.0	8.41	1133.6		
09/23/2012	20:27:05	448	0.0	8.41	1133.6		
09/23/2012	20:32:05	-3	0.0	8.41	1133.6		
09/23/2012	20:37:05	188	4.9	8.41	1141.9		
09/23/2012	20:42:05	54	3.4	8.38	1178.6		
09/23/2012	20:47:01					1/2 bbp Back At Bleed-Off	
09/23/2012	20:47:01	3	0.0	8.41	1179.1		
09/23/2012	20:47:05					Wash-Up Rig Stack	
09/23/2012	20:47:05	3	0.0	8.41	1179.1		
09/23/2012	20:47:51					280 bbls Of Cement Back To Surface	
09/23/2012	20:47:51	3	0.0	8.41	1179.1		
09/23/2012	20:52:05	3	0.0	8.41	1179.1		
09/23/2012	20:57:05	10	0.0	8.41	1179.1		
09/23/2012	21:02:05	11	0.0	8.41	1179.1		
09/23/2012	21:07:05	-4	0.0	8.41	1179.1		
09/23/2012	21:12:05	-4	0.0	8.40	1179.1		
09/23/2012	21:17:05	-3	0.0	8.40	1179.1		
09/23/2012	21:22:05	-3	0.0	8.40	1179.1		
09/23/2012	21:27:05	-3	0.0	8.41	1179.1		
09/23/2012	21:28:22					Pump 10 bbls Down Parasite Line	
09/23/2012	21:28:22	-3	0.0	8.41	1179.1		
09/23/2012	21:32:05	32	0.2	8.41	1179.1		
09/23/2012	21:37:05	165	1.0	8.45	1189.7		
09/23/2012	21:39:29					End Job	
09/23/2012	21:39:29	13	0.0	8.44	1191.2		

Well SG 8513D-25	Field Story Gulch	Job Start Sep/23/2012	Customer Encana	Job Number C610-00567
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Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry 6.4	N2	Mud 0.0	Maximum Rate 11.2	Total Slurry 1191.2	Mud 0.0	Spacer 224.0	N2	
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum 4005	Final -1	Average 323	Bump Plug to	Breakdown	Type	Volume	Density	
Avg. N2 Percent	Designed Slurry Volume	Displacement 234.4 bbl	Mix Water Temp	Cement Circulated to Surface? <input type="checkbox"/>	Volume			
				Washed Thru Perfs <input type="checkbox"/>	To			
Customer or Authorized Representative Robert Escojeda		Schlumberger Supervisor ROGERS / HANSEN			Circulation Lost <input type="checkbox"/>	Job Completed <input type="checkbox"/>		
					-		-	