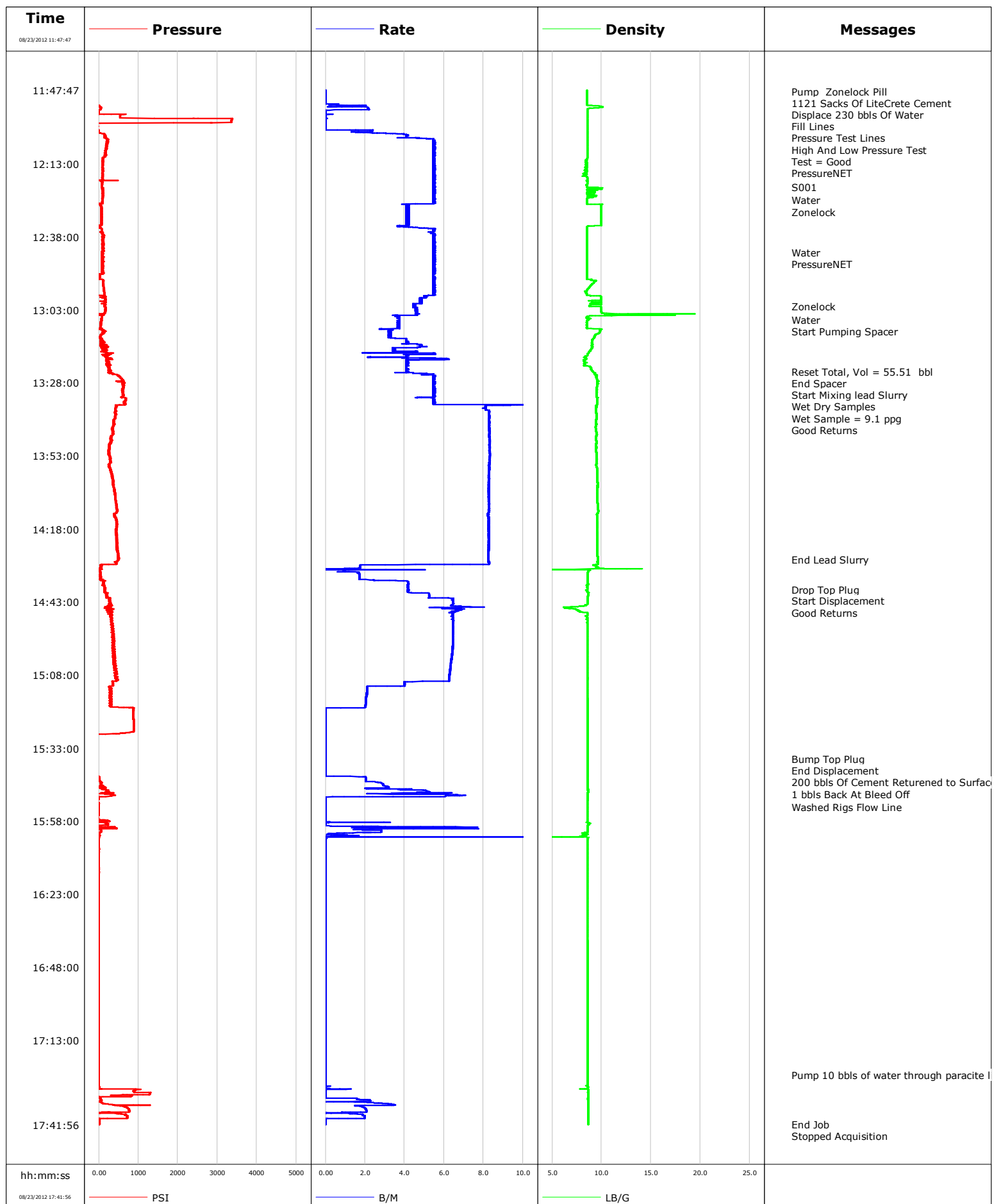


Well SG 8502C-35
Field North Parachute
Engineer Rogers / Willardson
Country United States

Client Encana
SIR No. C610-00556
Job Type 9 5/8 Surface
Job Date 08-23-2012

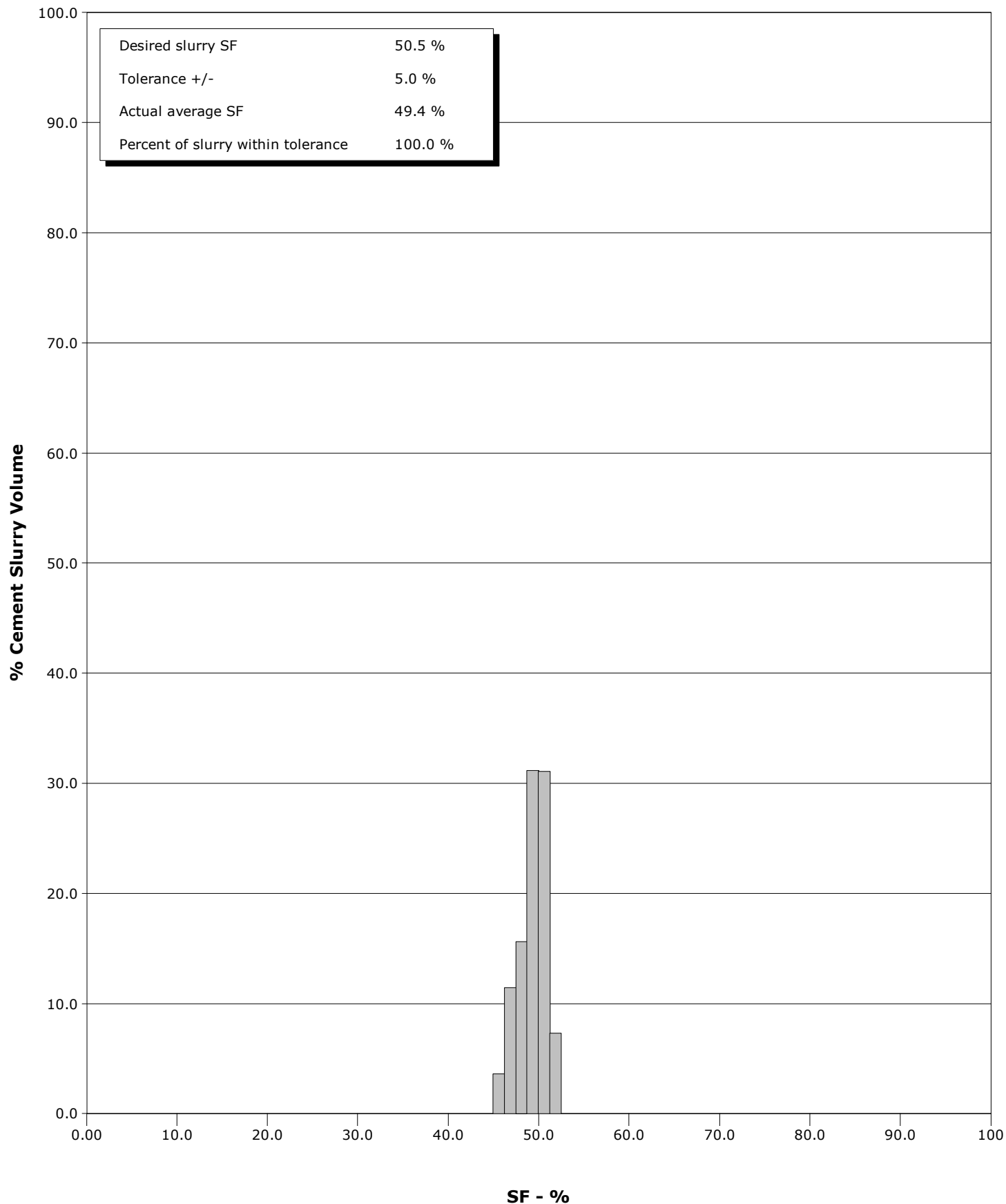


Schlumberger Cementing Qa/Qc SFM Report

Well SG 8502C-35
Field North Parachute
Engineer Rogers / Willardson
Country United States

Client Encana
SIR No. C610-00556
Job Type 9 5/8 Surface
Job Date 08-23-2012

Cement Slurry - 08/23/2012 13:39:13 to 08/23/2012 14:25:28





Cementing Service Report

				Customer Encana		Job Number C610-00556			
Well SG 8502C-35			Location (legal) D36 496		Schlumberger Location		Job Start Aug/23/2012		
Field North Parachute		Formation Name/Type		Deviation	Bit Size	Well MD	Well TVD		
County Garfield		State/Province Colorado		BHP	BHST 120 degF	BHCT 96 degF	Pore Press. Gradient		
Well Master 631304024		API/UWI 11162402							
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	
				3018.0	9.630	36.0	K55	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		Perforations/Open Hole			
Service Instructions				Top,	Bottom,		No. of Shots	Total Interval	
								Diameter	
				Treat Down Annulus		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 3018.0 ft		Tool Type			
No. Centralizers		Top Plugs 1	Bottom Plugs	Stage Tool Type		Tool Depth			
Cement Head Type Single				Stage Tool Depth		Tail Pipe Size			
Job Scheduled For Aug/23/2012		Arrived on Location Aug/23/2012		Leave Location Aug/23/2012		Collar Type Float		Tail Pipe Depth	
						Collar Depth 2978.0 ft		Sqz. Total Vol.	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message			
08/23/2012	11:16:19					Started Acquisition			
08/23/2012	11:47:47	-27	0.0	8.50	0.0				
08/23/2012	11:48:08					Pump Zonelock Pill			
08/23/2012	11:48:08					1121 Sacks Of LiteCrete Cement			
08/23/2012	11:48:08	-27	0.0	8.50	0.0				
08/23/2012	11:48:09					Displace 230 bbls Of Water			
08/23/2012	11:48:09					Fill Lines			
08/23/2012	11:48:09	-27	0.0	8.50	0.0				
08/23/2012	11:48:21					Pressure Test Lines			
08/23/2012	11:48:21	-28	0.0	8.50	0.0				
08/23/2012	11:51:19	-30	0.0	8.50	0.0				
08/23/2012	11:56:19	538	0.0	8.54	3.3				
08/23/2012	12:01:19	-18	0.0	8.54	3.3				
08/23/2012	12:03:32					High And Low Pressure Test			
08/23/2012	12:03:32	136	4.2	8.54	9.5				
08/23/2012	12:03:33					Test = Good			
08/23/2012	12:03:33	136	4.1	8.54	9.6				
08/23/2012	12:04:15					PressureNET			
08/23/2012	12:04:15	169	4.8	8.54	12.5				
08/23/2012	12:06:19	201	5.6	8.54	23.7				
08/23/2012	12:11:19	98	5.4	8.52	50.9				

Well			Field		Job Start		Customer		Job Number	
SG 8502C-35			North Parachute		Aug/23/2012		Encana		C610-00556	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
08/23/2012	12:20:59					S001				
08/23/2012	12:20:59	81	5.4	8.49	103.7					
08/23/2012	12:21:19	102	5.4	8.91	105.5					
08/23/2012	12:25:19					Water				
08/23/2012	12:25:19	93	5.6	8.51	127.3					
08/23/2012	12:26:19	87	5.4	8.50	132.8					
08/23/2012	12:28:05					Zonelock				
08/23/2012	12:28:05	56	4.2	9.98	140.6					
08/23/2012	12:31:19	70	4.2	9.99	154.1					
08/23/2012	12:36:19	68	5.4	8.50	176.5					
08/23/2012	12:41:19	93	5.4	8.50	203.7					
08/23/2012	12:43:17					Water				
08/23/2012	12:43:17	71	5.4	8.50	214.5					
08/23/2012	12:43:18					PressureNET				
08/23/2012	12:43:18	90	5.4	8.50	214.6					
08/23/2012	12:46:19	71	5.6	8.50	231.0					
08/23/2012	12:51:19	24	5.4	8.49	258.3					
08/23/2012	12:56:19	128	5.4	8.52	285.6					
08/23/2012	13:01:19	161	4.5	8.88	310.9					
08/23/2012	13:01:40					Zonelock				
08/23/2012	13:01:40	142	4.5	8.74	312.5					
08/23/2012	13:06:18					Water				
08/23/2012	13:06:18	54	3.7	8.60	332.4					
08/23/2012	13:06:19	64	3.7	8.64	332.5					
08/23/2012	13:10:21					Start Pumping Spacer				
08/23/2012	13:10:21	141	3.2	9.83	347.0					
08/23/2012	13:11:19	76	3.3	9.51	350.2					
08/23/2012	13:16:19	88	3.4	8.97	370.1					
08/23/2012	13:21:19	208	4.2	8.28	391.2					
08/23/2012	13:24:09					Reset Total, Vol = 55.51 bbl				
08/23/2012	13:24:09	262	4.1	9.12	402.8					
08/23/2012	13:25:03					End Spacer				
08/23/2012	13:25:03	370	5.4	9.30	406.9					
08/23/2012	13:26:19	546	5.4	9.50	413.8					
08/23/2012	13:28:47					Start Mixing lead Slurry				
08/23/2012	13:28:47	627	5.4	9.54	427.2					
08/23/2012	13:28:48					Wet Dry Samples				
08/23/2012	13:28:48	634	5.4	9.54	427.3					
08/23/2012	13:28:49					Wet Sample = 9.1 ppg				
08/23/2012	13:28:49	616	5.4	9.54	427.4					
08/23/2012	13:28:50					Good Returns				
08/23/2012	13:28:50	616	5.4	9.54	427.5					
08/23/2012	13:31:19	621	5.4	9.49	441.1					
08/23/2012	13:36:19	422	8.1	9.46	471.6					
08/23/2012	13:41:19	367	8.3	9.43	512.8					
08/23/2012	13:46:19	309	8.3	9.45	554.3					
08/23/2012	13:51:19	240	8.3	9.44	595.7					
08/23/2012	13:56:19	267	8.3	9.46	637.3					
08/23/2012	14:01:19	360	8.3	9.60	678.6					
08/23/2012	14:06:19	414	8.3	9.58	720.0					
08/23/2012	14:11:19	471	8.3	9.65	761.3					
08/23/2012	14:16:19	447	8.2	9.56	802.6					
08/23/2012	14:21:19	455	8.3	9.58	843.9					
08/23/2012	14:26:19	486	8.2	9.59	885.2					

Well			Field		Job Start		Customer		Job Number	
SG 8502C-35			North Parachute		Aug/23/2012		Encana		C610-00556	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
08/23/2012	14:28:29	491	8.2	9.64	903.0					
08/23/2012	14:31:19	75	1.7	9.45	919.4					
08/23/2012	14:36:19	110	4.2	8.59	928.8					
08/23/2012	14:38:42					Drop Top Plug				
08/23/2012	14:38:42	132	4.2	8.54	938.7					
08/23/2012	14:38:43					Start Displacement				
08/23/2012	14:38:43	146	4.2	8.54	938.8					
08/23/2012	14:41:19	201	5.2	8.62	951.1					
08/23/2012	14:42:18					Good Returns				
08/23/2012	14:42:18	276	6.4	8.60	957.0					
08/23/2012	14:46:19	245	6.5	7.80	983.3					
08/23/2012	14:51:19	344	6.5	8.55	1015.5					
08/23/2012	14:56:19	396	6.4	8.55	1047.7					
08/23/2012	15:01:19	352	6.4	8.57	1079.8					
08/23/2012	15:06:19	396	6.3	8.57	1111.5					
08/23/2012	15:11:19	352	4.0	8.58	1140.4					
08/23/2012	15:16:19	315	2.0	8.58	1151.8					
08/23/2012	15:21:19	867	0.0	8.59	1157.7					
08/23/2012	15:26:19	876	0.0	8.59	1157.7					
08/23/2012	15:31:19	-38	0.0	8.58	1157.7					
08/23/2012	15:36:19	-39	0.0	8.58	1157.7					
08/23/2012	15:36:48					Bump Top Plug				
08/23/2012	15:36:48	-39	0.0	8.58	1157.7					
08/23/2012	15:36:49					End Displacement				
08/23/2012	15:36:49	-38	0.0	8.58	1157.7					
08/23/2012	15:36:56					200 bbls Of Cement Returened to Surface				
08/23/2012	15:36:56	-39	0.0	8.58	1157.7					
08/23/2012	15:36:57					1 bbls Back At Bleed Off				
08/23/2012	15:36:57	-39	0.0	8.58	1157.7					
08/23/2012	15:41:19	-39	0.0	8.58	1157.7					
08/23/2012	15:46:19	59	3.2	8.60	1166.4					
08/23/2012	15:51:19	-14	0.0	8.58	1182.2					
08/23/2012	15:53:13					Washed Rigs Flow Line				
08/23/2012	15:53:13	-7	0.0	8.57	1182.2					
08/23/2012	15:56:19	-13	0.0	8.57	1182.2					
08/23/2012	16:01:19	53	2.8	8.58	1188.6					
08/23/2012	16:06:19	-0	0.0	8.56	1191.7					
08/23/2012	16:11:19	-0	0.0	8.57	1191.7					
08/23/2012	16:16:19	-1	0.0	8.57	1191.7					
08/23/2012	16:21:19	-1	0.0	8.57	1191.7					
08/23/2012	16:26:19	-2	0.0	8.57	1191.7					
08/23/2012	16:31:19	-1	0.0	8.57	1191.7					
08/23/2012	16:36:19	-2	0.0	8.58	1191.7					
08/23/2012	16:41:19	-2	0.0	8.58	1191.7					
08/23/2012	16:46:19	-1	0.0	8.58	1191.7					
08/23/2012	16:51:19	-2	0.0	8.58	1191.7					
08/23/2012	16:56:19	-2	0.0	8.59	1191.7					
08/23/2012	17:01:19	-1	0.0	8.59	1191.7					
08/23/2012	17:06:19	-2	0.0	8.59	1191.7					
08/23/2012	17:11:19	-2	0.0	8.60	1191.7					
08/23/2012	17:16:19	-2	0.0	8.60	1191.7					
08/23/2012	17:21:19	-2	0.0	8.60	1191.7					
08/23/2012	17:24:53					Pump 10 bbls of water through paracite line				
08/23/2012	17:24:53	-2	0.0	8.60	1191.7					

Well SG 8502C-35			Field North Parachute		Job Start Aug/23/2012	Customer Encana		Job Number C610-00556	
Date	Time 24-hr clock	Treating Pressure PSI		Flow Rate B/M	Density LB/G	Volume BBL	Message		
08/23/2012	17:31:19	1288		0.0	8.63	1191.8			
08/23/2012	17:36:19	724		2.0	8.63	1199.2			
08/23/2012	17:41:19	13		0.0	8.64	1205.5			
08/23/2012	17:41:54						End Job		
08/23/2012	17:41:54	12		0.0	8.64	1205.5			

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry 5.6	N2	Mud 0.0	Maximum Rate 11.0	Total Slurry 1020.9	Mud 0.0	Spacer 406.9	N2	
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum 3386	Final 342	Average 273	Bump Plug to	Breakdown	Type	Volume	Density	
Avg. N2 Percent		Designed Slurry Volume	Displacement 82.2 bbl	Mix Water Temp	Cement Circulated to Surface?	Volume		
					Washed Thru Perfs	To		
Customer or Authorized Representative Andrew Baltes			Schlumberger Supervisor Rogers / Willardson			Circulation Lost	Job Completed	
						-	-	