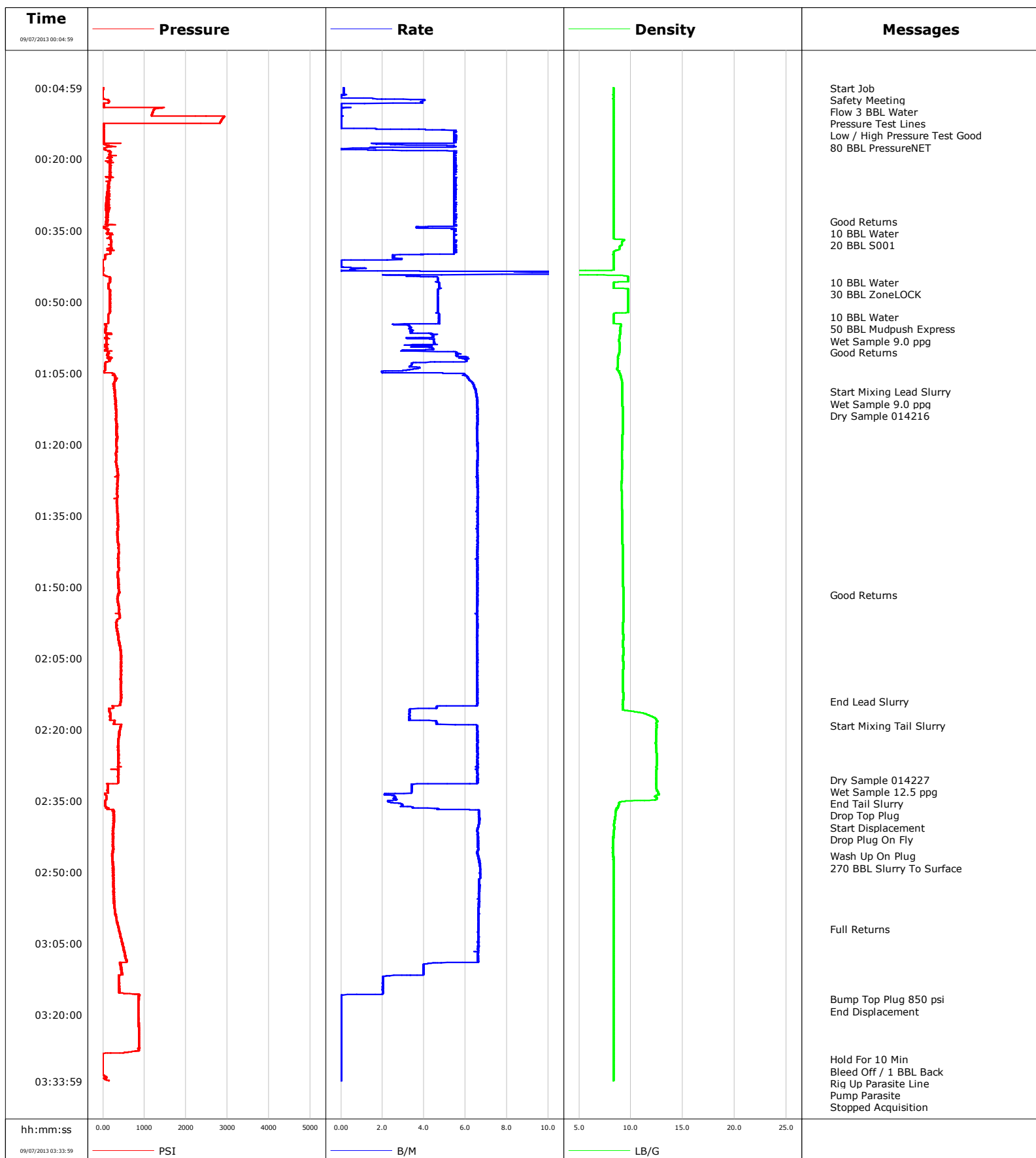


**Well** SGU 8511C-34 E34 496  
**Field** Story Gulch  
**Engineer** Travis Willardson / Cole Fairbrook  
**Country** United States

**Client** EnCana  
**SIR No.** CMI1-00259  
**Job Type** 9 5/8 Surface  
**Job Date** 09-06-2013

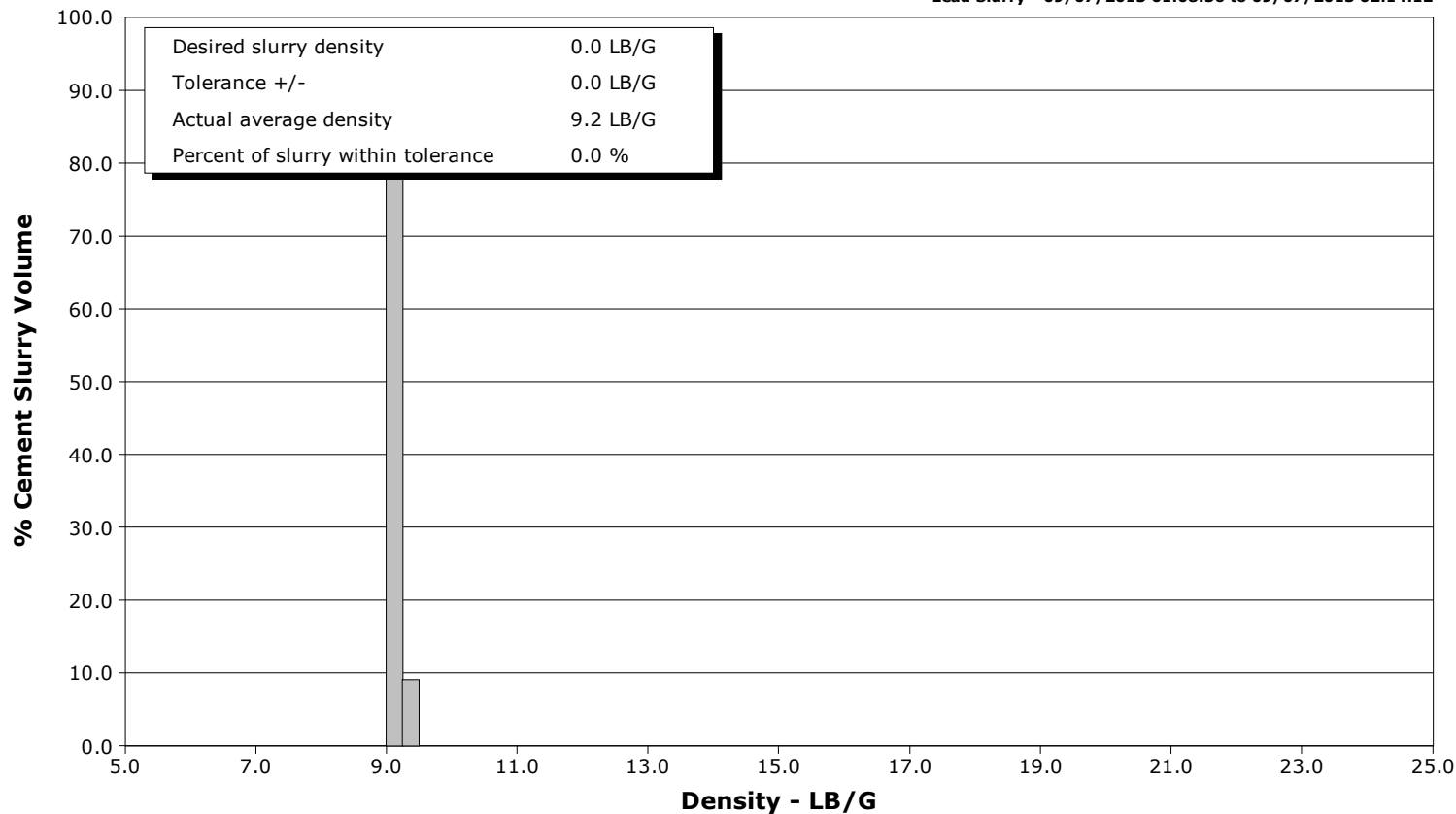


# Schlumberger Cementing Qa/Qc Density Report

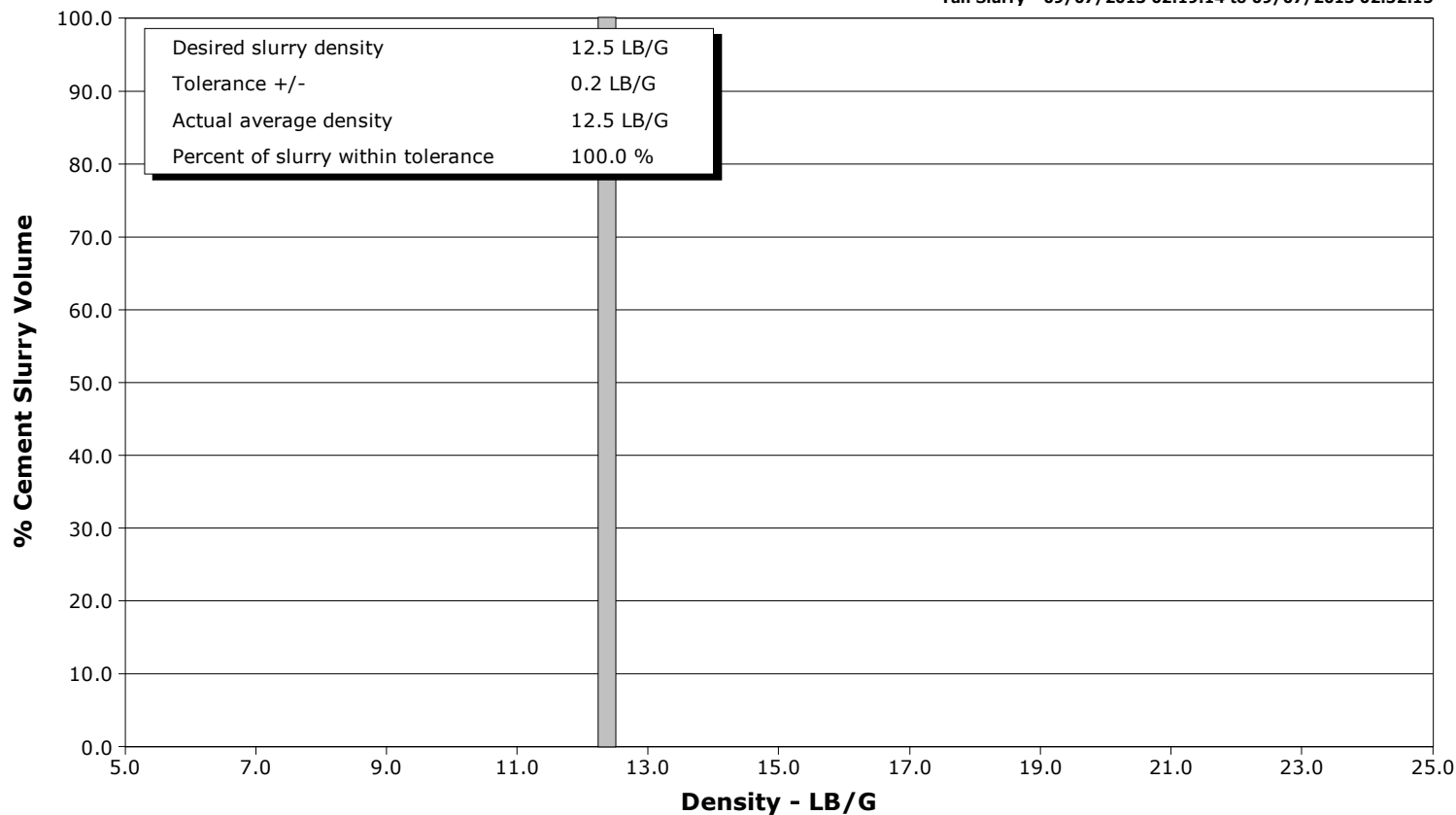
**Well** SGU 8511C-34 E34 496  
**Field** Story Gulch  
**Engineer** Travis Willardson / Cole Fairbrook  
**Country** United States

**Client** EnCana  
**SIR No.** CMI1-00259  
**Job Type** 9 5/8 Surface  
**Job Date** 09-06-2013

**Lead Slurry - 09/07/2013 01:08:56 to 09/07/2013 02:14:12**



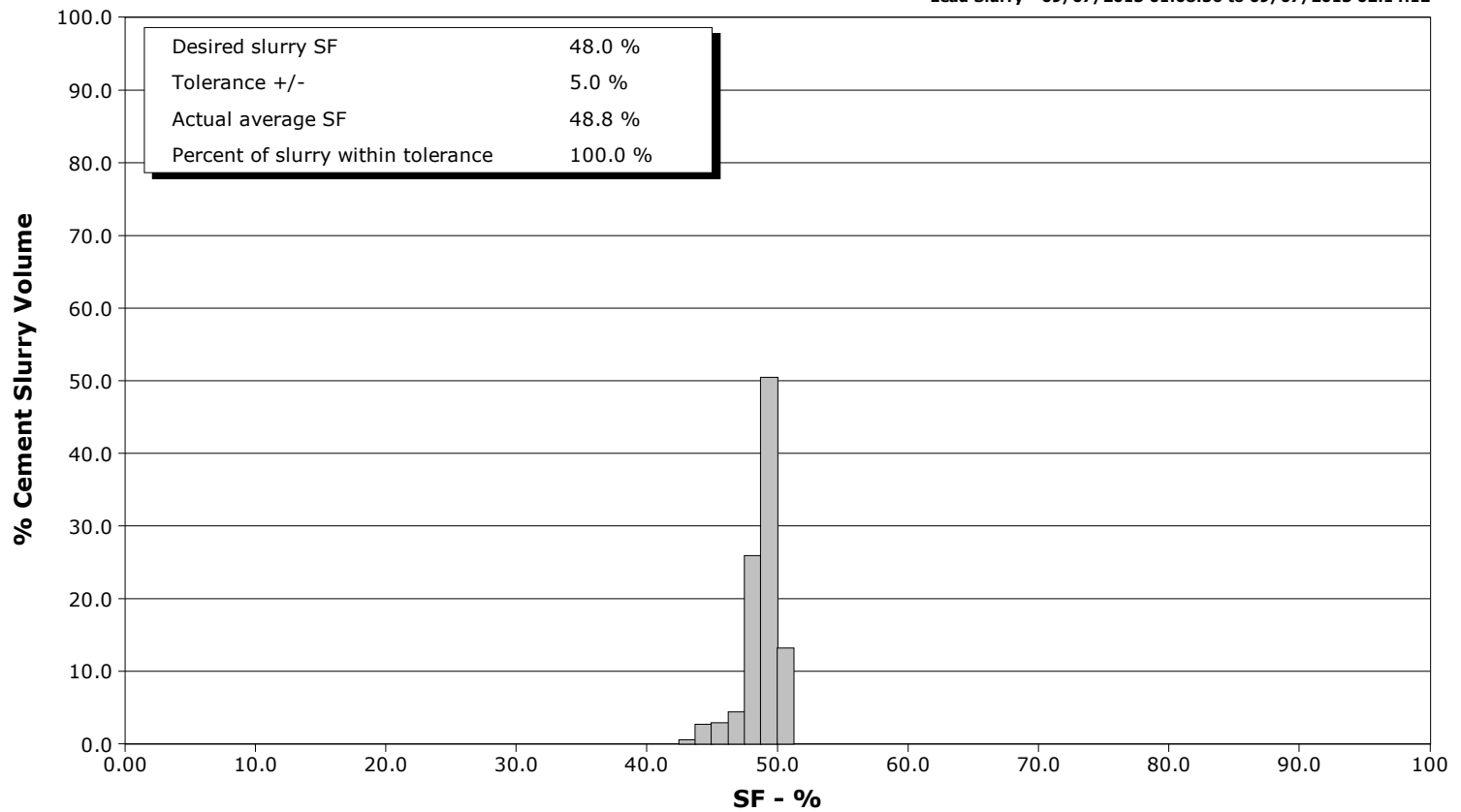
**Tail Slurry - 09/07/2013 02:19:14 to 09/07/2013 02:32:15**



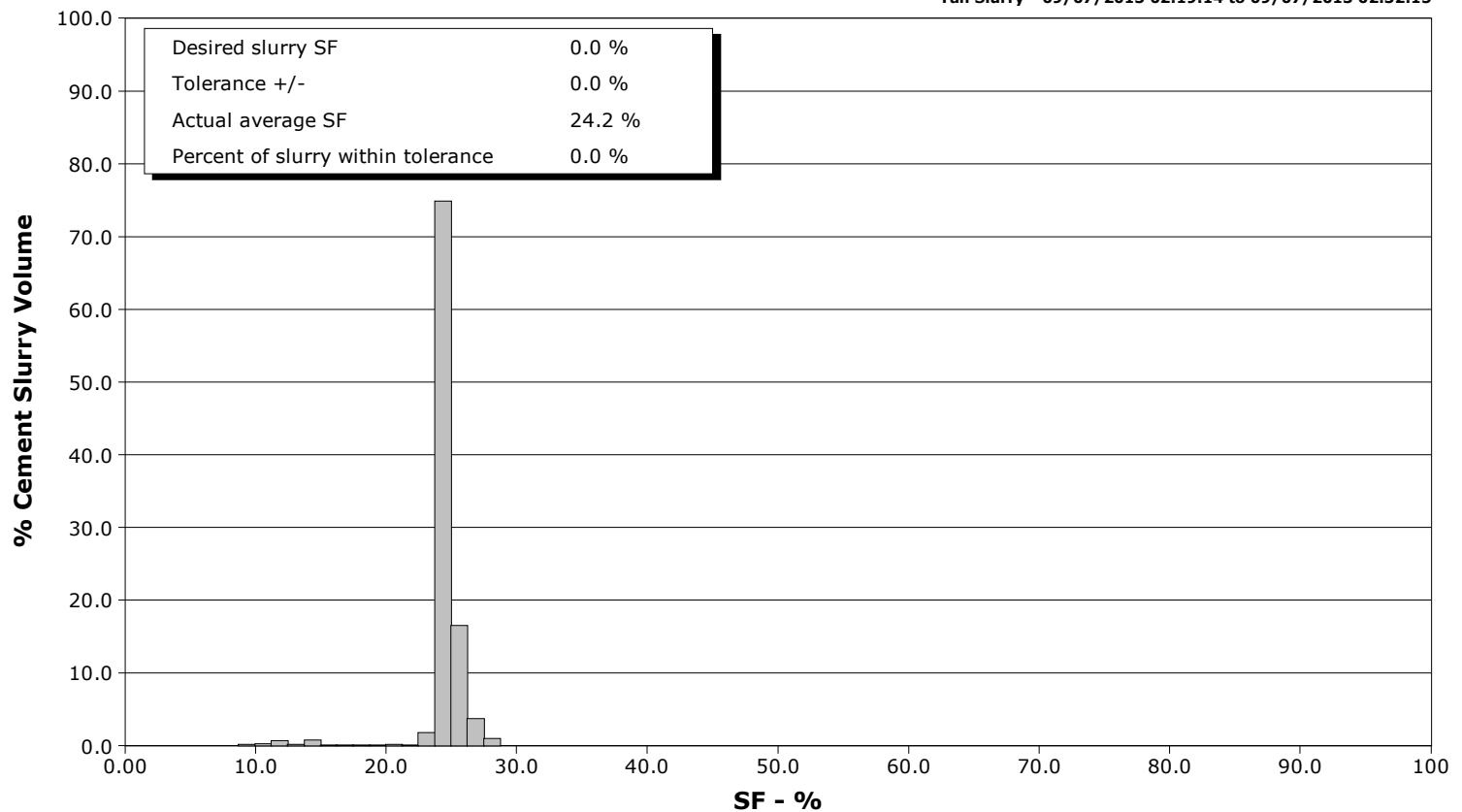
**Well** SGU 8511C-34 E34 496  
**Field** Story Gulch  
**Engineer** Travis Willardson / Cole Fairbrook  
**Country** United States

**Client** EnCana  
**SIR No.** CMI1-00259  
**Job Type** 9 5/8 Surface  
**Job Date** 09-06-2013

**Lead Slurry - 09/07/2013 01:08:56 to 09/07/2013 02:14:12**



**Tail Slurry - 09/07/2013 02:19:14 to 09/07/2013 02:32:15**





# Cementing Service Report

				Customer EnCana		Job Number CMI1-00259		
Well SGU 8511C-34 E34 496 8511C-34			Location (legal) E34		Schlumberger Location Grand Junction		Job Start Sep/06/2013	
Field Story Gulch		Formation Name/Type Dirty-Sandstone		Deviation	Bit Size 14.8 in	Well MD 2982.0 ft	Well TVD 2939.0 ft	
County Garfield		State/Province Colorado		BHP	BHST 120 degF	BHCT 89 degF	Pore Press. Gradient	
Well Master 0631491994		API/UWI						
Rig Name Patterson 326		Drilled For Gas	Service Via Land	Casing/Liner				
				Depth, ft	Size, in	Weight, lb/ft	Grade	Thread
Offshore Zone		Well Class New	Well Type Development	120.0	20.000	52.8	N/A	N/A
				2982.0	9.630	36.0	J55	8RD
Drilling Fluid Type Bentonite		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
								Diameter
				Treat Down Casing	Displacement 227.0 bbl	Packer Type	Packer Depth	
				Tubing Vol.	Casing Vol.	Annular Vol. 379.0 bbl	Openhole Vol. 559.0 bbl	
Casing/Tubing Secured <input type="checkbox"/>		1 Hole Vol. Circulated prior to Cement <input checked="" type="checkbox"/>		Casing Tools		Squeeze Job		
Lift Pressure 1475 psi				Shoe Type Float		Squeeze Type		
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Depth 2982.0 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 Sep/06/2013		Arrived on Location Sep/06/2013	Leave Location Sep/06/2013	Collar Type Float		Tail Pipe Depth		
				Collar Depth 2937.0 ft		Sqz. Total Vol.		
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message		
09/06/2013	23:47:34					Started Acquisition		
09/07/2013	00:04:59	1	0.1	8.31	0.0			
09/07/2013	00:05:01					Start Job		
09/07/2013	00:05:01	1	0.1	8.31	0.0			
09/07/2013	00:05:05					Safety Meeting		
09/07/2013	00:05:05					Flow 3 BBL Water		
09/07/2013	00:05:05	1	0.1	8.31	0.0			
09/07/2013	00:05:13					Pressure Test Lines		
09/07/2013	00:05:13	1	0.1	8.31	0.0			
09/07/2013	00:05:15					Low / High Pressure Test Good		
09/07/2013	00:05:15					80 BBL PressureNET		
09/07/2013	00:05:15	1	0.1	8.31	0.0			
09/07/2013	00:07:34	124	4.0	8.29	1.0			
09/07/2013	00:12:34	29	0.0	8.32	4.0			
09/07/2013	00:17:34	86	1.5	8.32	23.2			
09/07/2013	00:22:34	170	5.4	8.32	47.5			
09/07/2013	00:27:34	97	5.4	8.32	74.8			
09/07/2013	00:32:34	86	5.6	8.32	102.0			
09/07/2013	00:33:06					Good Returns		
09/07/2013	00:33:06	85	5.4	8.32	105.0			
09/07/2013	00:34:01					10 BBL Water		

Well SGU 8511C-34 E34 496 8511C-34			Field Story Gulch	Job Start Sep/06/2013	Customer EnCana	Job Number CMI1-00259
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message
09/07/2013	00:36:56					20 BBL S001
09/07/2013	00:36:56	183	5.4	9.09	125.2	
09/07/2013	00:37:34	198	5.4	9.11	128.7	
09/07/2013	00:42:34	-5	0.0	8.33	145.5	
09/07/2013	00:45:56					10 BBL Water
09/07/2013	00:45:56	163	4.6	8.54	166.4	
09/07/2013	00:46:09					30 BBL ZoneLOCK
09/07/2013	00:46:09	144	4.7	8.31	167.5	
09/07/2013	00:47:34	170	4.7	9.75	174.2	
09/07/2013	00:52:34	142	4.7	8.38	197.5	
09/07/2013	00:53:15					10 BBL Water
09/07/2013	00:53:15	127	4.7	8.32	200.7	
09/07/2013	00:53:34					50 BBL Mudpush Express
09/07/2013	00:53:34	124	4.7	8.32	202.2	
09/07/2013	00:54:04					Wet Sample 9.0 ppg
09/07/2013	00:54:04	123	4.7	8.32	204.6	
09/07/2013	00:55:02					Good Returns
09/07/2013	00:55:02	62	3.3	9.01	208.6	
09/07/2013	00:57:34	92	4.4	8.89	218.0	
09/07/2013	01:02:34	161	6.1	8.74	242.1	
09/07/2013	01:07:34	265	6.4	9.16	265.9	
09/07/2013	01:08:56					Start Mixing Lead Slurry
09/07/2013	01:08:56	294	6.5	9.17	274.7	
09/07/2013	01:09:22					Wet Sample 9.0 ppg
09/07/2013	01:09:22	294	6.5	9.17	277.5	
09/07/2013	01:09:23					Dry Sample 014216
09/07/2013	01:09:23	288	6.5	9.17	277.6	
09/07/2013	01:12:34	310	6.6	9.21	298.5	
09/07/2013	01:17:34	337	6.6	9.20	331.3	
09/07/2013	01:22:34	311	6.6	9.10	364.2	
09/07/2013	01:27:34	355	6.6	9.10	397.1	
09/07/2013	01:32:34	335	6.6	9.13	430.0	
09/07/2013	01:37:34	365	6.6	9.16	462.9	
09/07/2013	01:42:34	374	6.6	9.23	495.8	
09/07/2013	01:47:34	352	6.6	9.23	528.6	
09/07/2013	01:51:41					Good Returns
09/07/2013	01:51:41	367	6.6	9.27	555.7	
09/07/2013	01:52:34	339	6.6	9.27	561.5	
09/07/2013	01:57:34	328	6.5	9.24	594.3	
09/07/2013	02:02:34	411	6.6	9.23	627.1	
09/07/2013	02:07:34	426	6.6	9.24	659.9	
09/07/2013	02:12:34	440	6.6	9.24	692.7	
09/07/2013	02:14:12					End Lead Slurry
09/07/2013	02:14:12	431	6.6	9.23	703.5	
09/07/2013	02:17:34	183	3.3	12.29	718.3	
09/07/2013	02:19:14					Start Mixing Tail Slurry
09/07/2013	02:19:14	429	6.6	12.47	725.6	
09/07/2013	02:22:34	377	6.6	12.40	747.5	
09/07/2013	02:27:34	365	6.6	12.49	780.3	
09/07/2013	02:30:39					Dry Sample 014227
09/07/2013	02:30:39	360	6.6	12.44	800.6	
09/07/2013	02:31:00					Wet Sample 12.5 ppg
09/07/2013	02:31:00	365	6.6	12.45	802.9	
09/07/2013	02:32:15					End Tail Slurry

Well			Field		Job Start		Customer		Job Number	
SGU 8511C-34 E34 496 8511C-34			Story Gulch		Sep/06/2013		EnCana		CMI1-00259	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
09/07/2013	02:32:16					Drop Top Plug				
09/07/2013	02:32:16	115	3.4	12.44	808.7					
09/07/2013	02:32:17					Start Displacement				
09/07/2013	02:32:17	113	3.4	12.44	808.8					
09/07/2013	02:32:19					Drop Plug On Fly				
09/07/2013	02:32:19	116	3.4	12.44	808.9					
09/07/2013	02:32:34	117	3.4	12.45	809.7					
09/07/2013	02:37:34	245	6.6	8.51	827.0					
09/07/2013	02:42:34	249	6.6	8.28	860.1					
09/07/2013	02:46:37					Wash Up On Plug				
09/07/2013	02:46:37	226	6.6	8.28	886.8					
09/07/2013	02:46:52					270 BBL Slurry To Surface				
09/07/2013	02:46:52	223	6.6	8.29	888.5					
09/07/2013	02:47:34	232	6.7	8.30	893.1					
09/07/2013	02:52:34	243	6.7	8.32	926.6					
09/07/2013	02:57:34	279	6.6	8.32	959.8					
09/07/2013	03:02:06					Full Returns				
09/07/2013	03:02:06	383	6.6	8.32	989.9					
09/07/2013	03:02:34	393	6.6	8.32	993.0					
09/07/2013	03:07:34	546	6.6	8.32	1026.0					
09/07/2013	03:12:34	381	2.0	8.32	1048.5					
09/07/2013	03:16:44					Bump Top Plug 850 psi				
09/07/2013	03:16:44	856	0.0	8.32	1055.0					
09/07/2013	03:16:45					End Displacement				
09/07/2013	03:16:45	854	0.0	8.32	1055.0					
09/07/2013	03:17:34	855	0.0	8.32	1055.0					
09/07/2013	03:22:34	857	0.0	8.33	1055.1					
09/07/2013	03:27:34	860	0.0	8.33	1055.1					
09/07/2013	03:29:27					Hold For 10 Min				
09/07/2013	03:29:27	-4	0.0	8.33	1055.1					
09/07/2013	03:29:28					Bleed Off / 1 BBL Back				
09/07/2013	03:29:28	-3	0.0	8.33	1055.1					
09/07/2013	03:32:34	-3	0.0	8.33	1055.2					
09/07/2013	04:17:23					Rig Up Parasite Line				
09/07/2013	04:31:09					Pump Parasite				

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl					
Slurry 5.1	N2	Mud 0.0	Maximum Rate 25.0		Total Slurry 570.0	Mud 0.0	Spacer 210.0	N2		
Treating Pressure Summary, psi					Breakdown Fluid					
Maximum 2935	Final 150	Average 335	Bump Plug to 850	Breakdown	Type		Volume 1157.0 bbl	Density		
Avg. N2 Percent		Designed Slurry Volume 559.0 bbl		Displacement 225.0 bbl		Mix Water Temp 80 degF		Cement Circulated to Surface? <input checked="" type="checkbox"/>		Volume 270.0 bbl
								Washed Thru Perfs <input type="checkbox"/>		To
Customer or Authorized Representative Mike Quintana				Schlumberger Supervisor Travis Willardson / Cole Fairbrook				Circulation Lost <input type="checkbox"/>		Job Completed <input checked="" type="checkbox"/>
								-		-