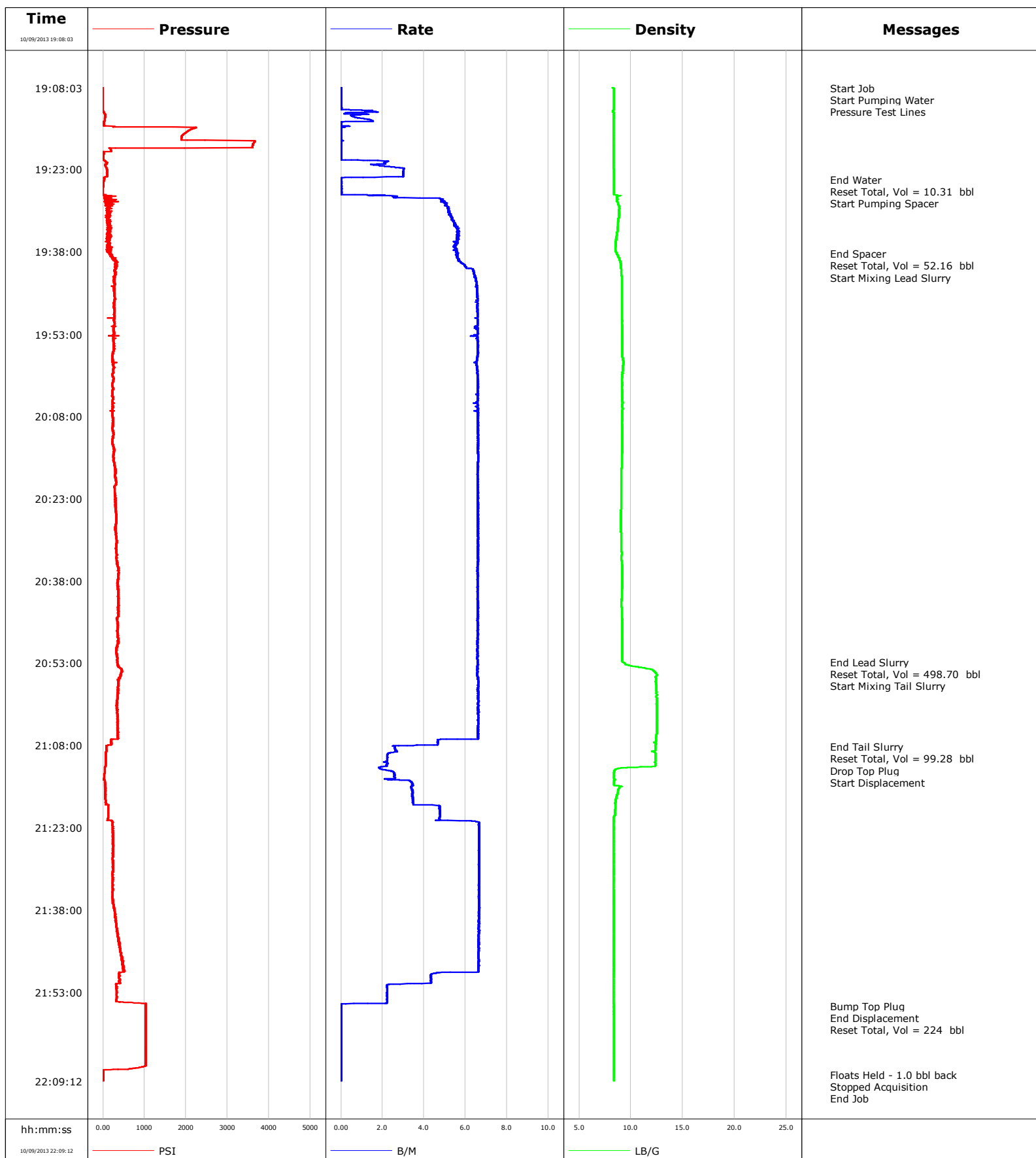


**Well** SGU 8509D-33  
**Field** Old 10  
**Engineer** Michael Simon/ M Reedy  
**Country** United States

**Client** Encana  
**SIR No.** CMI1-00373  
**Job Type** 9 5/8 Surface  
**Job Date** 10-09-2013





# Cementing Service Report

					Customer Encana			Job Number CMI1-00373						
Well SGU 8509D-33 8509D				Location (legal) Grand Junction			Schlumberger Location Grand Junction			Job Start Oct/09/2013				
Field Old 10		Formation Name/Type Shale			Deviation		Bit Size 14.8 in		Well MD 3000.0 ft		Well TVD 2975.0 ft			
County Garfield		State/Province Colorado			BHP		BHST 120 degF		BHCT 92 degF		Pore Press. Gradient			
Well Master 0631500434		API/UWI												
Rig Name Patterson 326		Drilled For Oil & Gas		Service Via Land		Casing/Liner								
Offshore Zone		Well Class New		Well Type Development		Depth, ft		Size, in		Weight, lb/ft		Grade	Thread	
						2975.0		9.630		36.0		J55		8RD
Drilling Fluid Type		Max. Density 9.00 lb/gal		Plastic Viscosity		Tubing/Drill Pipe								
						Depth,		Size,		Weight,		Grade		Thread
Service Line Cementing		Job Type 9 5/8 Surface												
Max. Allowed Tub. Press 3000 psi		Max. Allowed Ann. Press		WH Connection Single Cement head		Perforations/Open Hole								
Service Instructions						Top,		Bottom,				No. of Shots		Total Interval
														Diameter
		Treat Down Casing		Displacement 224.0 bbl		Packer Type		Packer Depth						
		Tubing Vol.		Casing Vol. 230.0 bbl		Annular Vol. 378.0 bbl		Openhole Vol. 626.0 bbl						
Casing/Tubing Secured <input checked="" type="checkbox"/>		1 Hole Vol. Circulated prior to Cement <input checked="" type="checkbox"/>		Casing Tools				Squeeze Job						
Lift Pressure 1472 psi				Shoe Type Float				Squeeze Type						
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Depth 2975.0 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 Oct/09/2013		Arrived on Location Oct/09/2013		Leave Location Oct/09/2013		Collar Type Float				Tail Pipe Depth				
						Collar Depth 2930.0 ft				Sqz. Total Vol.				
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Stage BBL	Message							
10/09/2013	17:40:34						Started Acquisition							
10/09/2013	19:08:03	-2	0.0	8.30	0.0	0.0								
10/09/2013	19:08:05						Start Job							
10/09/2013	19:08:05	-1	0.0	8.22	0.0	0.0								
10/09/2013	19:08:13						Start Pumping Water							
10/09/2013	19:08:13	-2	0.0	8.33	0.0	0.0								
10/09/2013	19:08:15						Pressure Test Lines							
10/09/2013	19:08:15	-2	0.0	8.34	0.0	0.0								
10/09/2013	19:10:34	-6	0.0	8.34	0.0	0.0								
10/09/2013	19:13:34	47	0.8	8.33	1.3	1.3								
10/09/2013	19:16:34	1945	0.0	8.33	2.2	2.2								
10/09/2013	19:19:34	191	0.0	8.33	2.3	2.3								
10/09/2013	19:22:34	76	2.6	8.33	4.8	4.8								
10/09/2013	19:24:46						End Water							
10/09/2013	19:24:46	31	0.0	8.34	10.3	10.3								
10/09/2013	19:24:47						Reset Total, Vol = 10.31 bbl							
10/09/2013	19:24:47	25	0.0	8.34	10.3	10.3								
10/09/2013	19:25:34	8	0.0	8.34	0.0	0.0								
10/09/2013	19:28:13						Start Pumping Spacer							
10/09/2013	19:28:13	128	4.2	8.68	1.5	1.5								
10/09/2013	19:28:34	267	4.9	8.67	3.2	3.2								

Well			Field		Job Start	Customer		Job Number
SGU 8509D-33 8509D			Old 10		Oct/09/2013	Encana		CMI1-00373
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Stage BBL	Message	
10/09/2013	19:34:34	163	5.6	8.65	35.1	35.1		
10/09/2013	19:37:34	208	5.6	8.51	51.8	51.8		
10/09/2013	19:38:19						End Spacer	
10/09/2013	19:38:19	174	5.6	8.63	56.0	56.0		
10/09/2013	19:38:21						Reset Total, Vol = 52.16 bbl	
10/09/2013	19:38:21	157	5.6	8.63	56.2	56.2		
10/09/2013	19:39:01						Start Mixing Lead Slurry	
10/09/2013	19:39:01	227	5.6	8.81	3.7	3.7		
10/09/2013	19:40:34	309	6.0	9.02	12.7	12.7		
10/09/2013	19:43:34	276	6.5	9.11	31.8	31.8		
10/09/2013	19:46:34	291	6.6	9.12	51.4	51.4		
10/09/2013	19:49:34	270	6.6	9.13	71.2	71.2		
10/09/2013	19:52:34	259	6.6	9.15	90.9	90.9		
10/09/2013	19:55:34	262	6.6	9.16	110.6	110.6		
10/09/2013	19:58:34	235	6.5	9.26	130.3	130.3		
10/09/2013	20:01:34	250	6.6	9.14	150.0	150.0		
10/09/2013	20:04:34	240	6.6	9.16	169.8	169.8		
10/09/2013	20:07:34	232	6.6	9.18	189.5	189.5		
10/09/2013	20:10:34	241	6.6	9.16	209.3	209.3		
10/09/2013	20:13:34	249	6.6	9.15	229.1	229.1		
10/09/2013	20:16:34	265	6.6	9.12	248.9	248.9		
10/09/2013	20:19:34	310	6.6	9.06	268.7	268.7		
10/09/2013	20:22:34	294	6.6	9.06	288.5	288.5		
10/09/2013	20:25:34	313	6.6	9.04	308.2	308.2		
10/09/2013	20:28:34	301	6.6	9.04	328.0	328.0		
10/09/2013	20:31:34	315	6.6	9.09	347.8	347.8		
10/09/2013	20:34:34	343	6.6	9.11	367.6	367.6		
10/09/2013	20:37:34	370	6.6	9.17	387.4	387.4		
10/09/2013	20:40:34	373	6.6	9.11	407.1	407.1		
10/09/2013	20:43:34	371	6.6	9.11	426.9	426.9		
10/09/2013	20:46:34	367	6.6	9.16	446.7	446.7		
10/09/2013	20:49:34	361	6.6	9.18	466.4	466.4		
10/09/2013	20:52:34	346	6.6	9.14	486.2	486.2		
10/09/2013	20:52:49						End Lead Slurry	
10/09/2013	20:52:49	346	6.6	9.21	487.8	487.8		
10/09/2013	20:52:57						Reset Total, Vol = 498.70 bbl	
10/09/2013	20:52:57	349	6.6	9.34	488.7	488.7		
10/09/2013	20:55:05						Start Mixing Tail Slurry	
10/09/2013	20:55:05	434	6.6	12.49	14.0	14.0		
10/09/2013	20:55:34	410	6.6	12.37	17.2	17.2		
10/09/2013	20:58:34	350	6.6	12.48	37.0	37.0		
10/09/2013	21:01:34	348	6.6	12.49	56.9	56.9		
10/09/2013	21:04:34	349	6.6	12.50	76.7	76.7		
10/09/2013	21:07:34	204	4.7	12.35	95.2	95.2		
10/09/2013	21:08:16						End Tail Slurry	
10/09/2013	21:08:16	80	2.6	12.35	97.9	97.9		
10/09/2013	21:08:26						Reset Total, Vol = 99.28 bbl	
10/09/2013	21:08:26	80	2.6	12.35	98.3	98.3		
10/09/2013	21:10:10						Drop Top Plug	
10/09/2013	21:10:10	62	2.2	12.35	102.6	102.6		
10/09/2013	21:10:11						Start Displacement	
10/09/2013	21:10:11	62	2.2	12.35	102.6	102.6		
10/09/2013	21:10:34	61	2.2	12.35	103.5	103.5		
10/09/2013	21:13:34	25	2.6	8.35	110.2	110.2		

Well			Field		Job Start	Customer		Job Number
SGU 8509D-33 8509D			Old 10		Oct/09/2013	Encana		CMI1-00373
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Stage BBL	Message	
10/09/2013	21:19:34	124	4.7	8.48	11.7	11.7		
10/09/2013	21:22:34	233	6.6	8.33	27.5	27.5		
10/09/2013	21:25:34	241	6.6	8.33	47.4	47.4		
10/09/2013	21:28:34	235	6.6	8.33	67.4	67.4		
10/09/2013	21:31:34	240	6.7	8.33	87.3	87.3		
10/09/2013	21:34:34	235	6.7	8.33	107.3	107.3		
10/09/2013	21:37:34	265	6.7	8.33	127.2	127.2		
10/09/2013	21:40:34	324	6.6	8.33	147.2	147.2		
10/09/2013	21:43:34	362	6.6	8.33	167.1	167.1		
10/09/2013	21:46:34	467	6.6	8.33	187.0	187.0		
10/09/2013	21:49:34	393	4.5	8.33	206.5	206.5		
10/09/2013	21:52:34	324	2.2	8.33	217.3	217.3		
10/09/2013	21:55:33						Bump Top Plug	
10/09/2013	21:55:33	1027	0.0	8.33	222.9	222.9		
10/09/2013	21:55:34						End Displacement	
10/09/2013	21:55:34	1027	0.0	8.33	222.9	222.9		
10/09/2013	21:55:38						Reset Total, Vol = 224 bbl	
10/09/2013	21:55:38	1030	0.0	8.33	222.9	222.9		
10/09/2013	21:58:34	1027	0.0	8.33	0.0	0.0		
10/09/2013	22:01:34	1030	0.0	8.34	0.1	0.1		
10/09/2013	22:04:34	1032	0.0	8.34	0.1	0.1		
10/09/2013	22:07:34	5	0.0	8.34	0.2	0.2		
10/09/2013	22:08:07						Floats Held - 1.0 bbl back	
10/09/2013	22:08:07	5	0.0	8.34	0.2	0.2		
10/09/2013	22:09:12	5	0.0	8.34	0.2	0.2		
10/09/2013	22:09:12						Stopped Acquisition	

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl					
Slurry 5.0	N2	Mud 0.0	Maximum Rate 6.7		Total Slurry 597.0	Mud 0.0	Spacer 52.0	N2		
Treating Pressure Summary, psi					Breakdown Fluid					
Maximum 3666	Final 5	Average 359	Bump Plug to 700	Breakdown	Type		Volume		Density	
Avg. N2 Percent		Designed Slurry Volume 560.0 bbl		Displacement 224.0 bbl		Mix Water Temp 62 degF		Cement Circulated to Surface? <input checked="" type="checkbox"/>		Volume 305.0 bbl
								Washed Thru Perfs <input type="checkbox"/>		To
Customer or Authorized Representative Mark Schulz				Schlumberger Supervisor Michael Simon/ M Reedy				Circulation Lost <input type="checkbox"/>		Job Completed <input checked="" type="checkbox"/>
								-		-