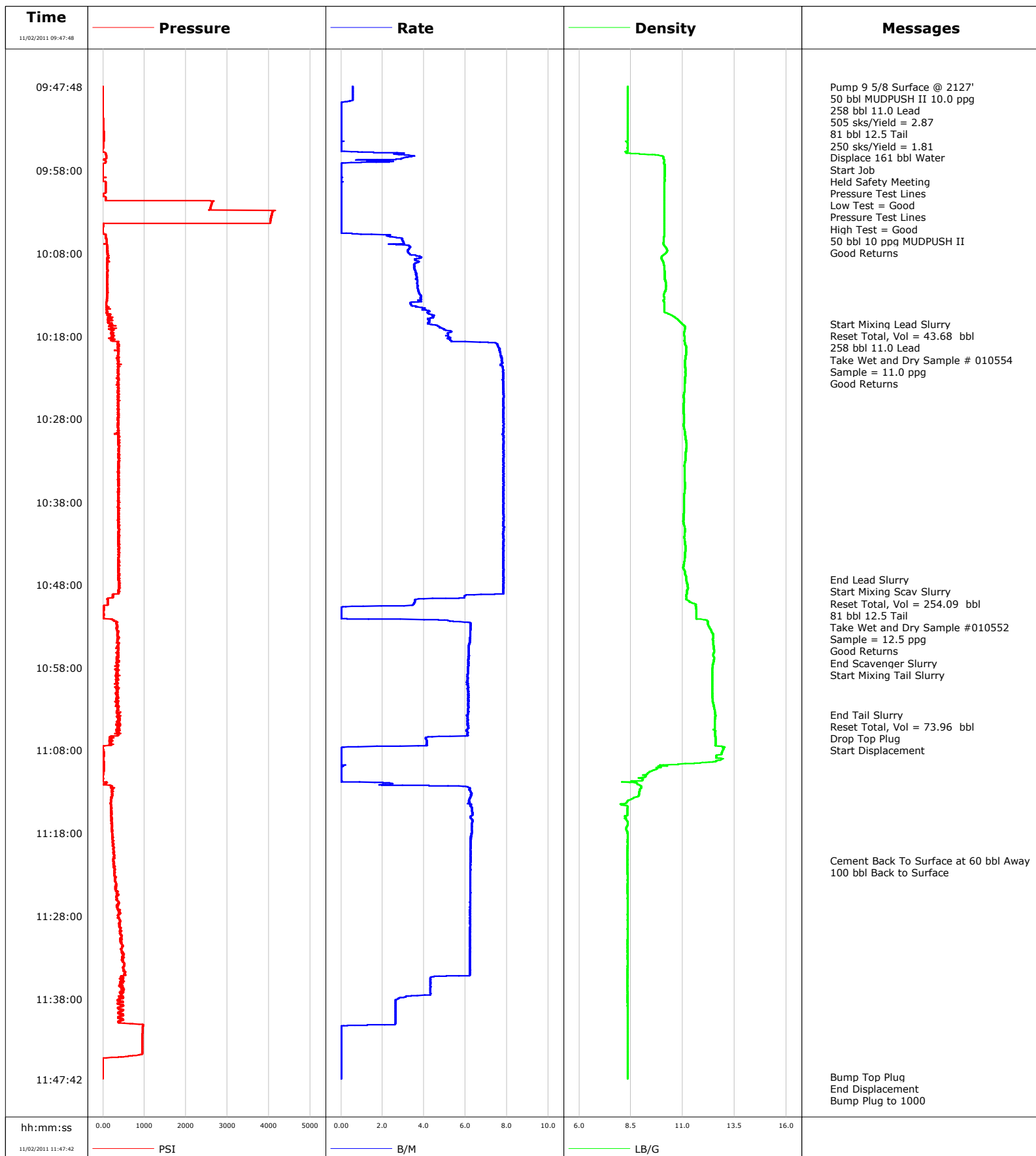


**Well** SGU 8509A-21  
**Field** N Parachute  
**Engineer** Tom Leduc  
**Country** United States

**Client** Encana  
**SIR No.**  
**Job Type** 9 5/8 Surface  
**Job Date** 11-02-2011





# Cementing Service Report

				Customer Encana		Job Number BQMF-00335				
Well SGU 8509A-21 8509A-21			Location (legal) N Parachute		Schlumberger Location Grand Junction		Job Start Nov/02/2011			
Field N Parachute		Formation Name/Type Shale		Deviation 0 deg	Bit Size 14.8 in	Well MD 2127.0 ft		Well TVD 2127.0 ft		
County Garfield		State/Province Colorado		BHP	BHST 110 degF	BHCT 91 degF	Pore Press. Gradient			
Well Master 0631277945		API/UWI								
Rig Name Patterson 306	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	2127.0	9.630	36.0	K55	8RD			
			0.0	0.000	0.0					
Drilling Fluid Type Bentonite		Max. Density 9.50 lb/gal	Plastic Viscosity 30.000 cP	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 500 psi	WH Connection Single Cement head	Perforations/Open Hole							
Service Instructions 9 5/8 Surface @ 2127'			Top,	Bottom,			No. of Shots	Total Interval		
								Diameter		
Treat Down Casing	Displacement 160.0 bbl		Packer Type		Packer Depth					
Tubing Vol.	Casing Vol. 162.0 bbl		Annular Vol. 275.0 bbl		Openhole Vol. 457.0 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 1052 psi			Shoe Type Float			Squeeze Type				
Pipe Rotated <input type="checkbox"/>	Pipe Reciprocated <input type="checkbox"/>	Shoe Depth 2127.0 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 Nov/02/2011 02:00		Arrived on Location Nov/02/2011 06:00	Leave Location Nov/02/2011 14:00	Collar Type Float			Tail Pipe Depth			
				Collar Depth 2080.0 ft			Sqz. Total Vol.			
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
11/02/2011	08:24:43					Started Acquisition				
11/02/2011	09:47:48	-5	0.6	8.34	0.0					
11/02/2011	09:47:49					Pump 9 5/8 Surface @ 2127'				
11/02/2011	09:47:49	-5	0.6	8.34	0.0					
11/02/2011	09:47:50					50 bbl MUDPUSH II 10.0 ppg				
11/02/2011	09:47:50					258 bbl 11.0 Lead				
11/02/2011	09:47:50					505 sks/Yield = 2.87				
11/02/2011	09:47:50					81 bbl 12.5 Tail				
11/02/2011	09:47:50					250 sks/Yield = 1.81				
11/02/2011	09:47:50	-5	0.6	8.34	0.0					
11/02/2011	09:47:51					Displace 161 bbl Water				
11/02/2011	09:47:51	-5	0.6	8.34	0.0					
11/02/2011	09:47:52					Start Job				
11/02/2011	09:47:52	-6	0.6	8.34	0.0					
11/02/2011	09:47:53					Held Safety Meeting				
11/02/2011	09:47:53	-5	0.6	8.34	0.1					
11/02/2011	09:47:55					Pressure Test Lines				
11/02/2011	09:47:55	-5	0.6	8.34	0.1					
11/02/2011	09:47:57					Low Test = Good				
11/02/2011	09:47:57	-5	0.6	8.34	0.1					
11/02/2011	09:47:58					Pressure Test Lines				

Well			Field		Job Start	Customer		Job Number
SGU 8509A-21 8509A-21			N Parachute		Nov/02/2011	Encana		BQMF-00335
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message		
11/02/2011	09:47:59					High Test = Good		
11/02/2011	09:47:59	-5	0.6	8.34	0.1			
11/02/2011	09:48:01					50 bbl 10 ppg MUDPUSH II		
11/02/2011	09:48:01	-5	0.6	8.34	0.1			
11/02/2011	09:48:02					Good Returns		
11/02/2011	09:48:02	-5	0.6	8.34	0.1			
11/02/2011	09:48:03	-5	0.6	8.34	0.1			
11/02/2011	09:49:43	-5	0.1	8.34	1.0			
11/02/2011	09:51:23	-6	0.0	8.34	1.0			
11/02/2011	09:53:03	11	0.0	8.34	1.0			
11/02/2011	09:54:43	6	0.0	8.33	1.1			
11/02/2011	09:56:23	73	3.1	10.06	2.9			
11/02/2011	09:58:03	-7	0.0	10.14	4.4			
11/02/2011	09:59:43	64	0.0	10.10	4.4			
11/02/2011	10:01:23	64	0.0	10.10	4.4			
11/02/2011	10:03:03	4082	0.0	10.12	4.4			
11/02/2011	10:04:43	2	0.0	10.11	4.4			
11/02/2011	10:06:23	88	3.0	10.08	6.2			
11/02/2011	10:08:03	118	3.3	10.14	11.5			
11/02/2011	10:09:43	110	3.5	10.10	17.5			
11/02/2011	10:11:23	104	3.7	10.16	23.5			
11/02/2011	10:13:03	104	3.8	10.09	29.7			
11/02/2011	10:14:43	86	3.9	10.10	35.9			
11/02/2011	10:16:23	214	4.2	10.92	43.0			
11/02/2011	10:16:31					Start Mixing Lead Slurry		
11/02/2011	10:16:31	204	4.2	10.97	43.5			
11/02/2011	10:16:33					Reset Total, Vol = 43.68 bbl		
11/02/2011	10:16:33	228	4.3	10.98	43.7			
11/02/2011	10:16:34					258 bbl 11.0 Lead		
11/02/2011	10:16:34					Take Wet and Dry Sample # 010554		
11/02/2011	10:16:34					Sample = 11.0 ppg		
11/02/2011	10:16:34	209	4.3	10.98	43.7			
11/02/2011	10:16:35					Good Returns		
11/02/2011	10:16:35	209	4.4	11.00	43.8			
11/02/2011	10:18:03	223	5.2	11.08	51.1			
11/02/2011	10:19:43	276	7.6	11.16	62.3			
11/02/2011	10:21:23	365	7.7	11.11	75.1			
11/02/2011	10:23:03	362	7.8	11.12	88.1			
11/02/2011	10:24:43	369	7.8	11.08	101.1			
11/02/2011	10:26:23	362	7.8	11.03	114.2			
11/02/2011	10:28:03	355	7.8	11.07	127.2			
11/02/2011	10:29:43	368	7.8	11.10	140.3			
11/02/2011	10:31:23	391	7.8	11.17	153.3			
11/02/2011	10:33:03	382	7.8	11.12	166.4			
11/02/2011	10:34:43	373	7.8	11.08	179.5			
11/02/2011	10:36:23	367	7.8	11.11	192.5			
11/02/2011	10:38:03	396	7.8	11.06	205.6			
11/02/2011	10:39:43	373	7.8	11.04	218.6			
11/02/2011	10:41:23	377	7.8	11.10	231.7			
11/02/2011	10:43:03	366	7.8	11.11	244.7			
11/02/2011	10:44:43	365	7.8	11.10	257.8			
11/02/2011	10:46:23	367	7.8	11.10	270.8			
11/02/2011	10:47:20					End Lead Slurry		
11/02/2011	10:47:20	383	7.8	11.15	278.3			

Well			Field		Job Start	Customer	Job Number
SGU 8509A-21 8509A-21			N Parachute		Nov/02/2011	Encana	BQMF-00335
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
11/02/2011	10:47:22	376	7.8	11.15	278.5		
11/02/2011	10:48:03	376	7.8	11.22	283.9		
11/02/2011	10:49:43	111	4.0	11.17	295.8		
11/02/2011	10:50:16					Reset Total, Vol = 254.09 bbl	
11/02/2011	10:50:16	110	3.5	11.53	297.8		
11/02/2011	10:50:17					81 bbl 12.5 Tail	
11/02/2011	10:50:17	111	3.5	11.56	297.8		
11/02/2011	10:50:18					Take Wet and Dry Sample #010552	
11/02/2011	10:50:18					Sample = 12.5 ppg	
11/02/2011	10:50:18					Good Returns	
11/02/2011	10:50:18	111	3.5	11.56	297.9		
11/02/2011	10:51:23	10	0.0	11.65	298.9		
11/02/2011	10:53:03	354	6.3	12.26	303.9		
11/02/2011	10:53:20					End Scavenger Slurry	
11/02/2011	10:53:20	344	6.2	12.33	305.7		
11/02/2011	10:53:21					Start Mixing Tail Slurry	
11/02/2011	10:53:21	322	6.2	12.33	305.8		
11/02/2011	10:54:43	346	6.2	12.45	314.3		
11/02/2011	10:56:23	347	6.2	12.47	324.6		
11/02/2011	10:58:03	345	6.1	12.43	334.8		
11/02/2011	10:59:43	326	6.1	12.42	345.0		
11/02/2011	11:01:23	354	6.2	12.43	355.2		
11/02/2011	11:03:03	353	6.1	12.52	365.4		
11/02/2011	11:03:41					End Tail Slurry	
11/02/2011	11:03:41	363	6.1	12.57	369.3		
11/02/2011	11:04:05					Reset Total, Vol = 73.96 bbl	
11/02/2011	11:04:05					Drop Top Plug	
11/02/2011	11:04:05	342	6.1	12.56	371.7		
11/02/2011	11:04:06					Start Displacement	
11/02/2011	11:04:06	379	6.1	12.56	371.8		
11/02/2011	11:04:43	399	6.1	12.54	375.6		
11/02/2011	11:06:23	193	4.4	12.57	385.6		
11/02/2011	11:08:03	11	0.0	12.92	390.4		
11/02/2011	11:09:43	16	0.0	10.77	390.4		
11/02/2011	11:11:23	2	0.0	8.92	390.4		
11/02/2011	11:13:03	226	6.3	8.89	396.1		
11/02/2011	11:14:43	198	6.2	8.33	406.5		
11/02/2011	11:16:23	211	6.3	8.29	417.0		
11/02/2011	11:18:03	223	6.3	8.33	427.5		
11/02/2011	11:19:43	256	6.3	8.33	437.9		
11/02/2011	11:21:17					Cement Back To Surface at 60 bbl Away	
11/02/2011	11:21:17	258	6.3	8.33	447.7		
11/02/2011	11:21:23	257	6.3	8.33	448.4		
11/02/2011	11:21:37					100 bbl Back to Surface	
11/02/2011	11:21:37	265	6.2	8.33	449.8		
11/02/2011	11:23:03	274	6.2	8.33	458.7		
11/02/2011	11:24:43	301	6.2	8.33	469.1		
11/02/2011	11:26:23	397	6.2	8.33	479.5		
11/02/2011	11:28:03	366	6.2	8.33	489.9		
11/02/2011	11:29:43	406	6.2	8.33	500.2		
11/02/2011	11:31:23	464	6.2	8.33	510.6		
11/02/2011	11:33:03	453	6.2	8.33	520.9		
11/02/2011	11:34:43	534	6.2	8.33	531.2		
11/02/2011	11:36:23	405	4.3	8.33	539.5		

Well			Field		Job Start		Customer		Job Number	
SGU 8509A-21 8509A-21			N Parachute		Nov/02/2011		Encana		BQMF-00335	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
11/02/2011	11:39:43	384	2.6	8.33	550.5					
11/02/2011	11:41:23	962	0.0	8.34	554.4					
11/02/2011	11:43:03	949	0.0	8.34	554.4					
11/02/2011	11:44:43	946	0.0	8.34	554.4					
11/02/2011	11:46:23	-10	0.0	8.34	554.4					
11/02/2011	11:47:26					Bump Top Plug				
11/02/2011	11:47:26	-11	0.0	8.34	554.4					
11/02/2011	11:47:28					End Displacement				
11/02/2011	11:47:28	-11	0.0	8.34	554.4					
11/02/2011	11:47:29					Bump Plug to 1000				
11/02/2011	11:47:29	-11	0.0	8.34	554.4					
11/02/2011	11:47:30					Bled Off Pressure				
11/02/2011	11:47:30					Floats Held				
11/02/2011	11:47:30	-11	0.0	8.34	554.4					
11/02/2011	11:47:31					Rig Down Floor				
11/02/2011	11:47:31					Wait for Parasitie line				
11/02/2011	11:47:31	-11	0.0	8.34	554.4					
11/02/2011	12:47:35					Pressure up to 200 psi				
11/02/2011	12:47:35					Pump 10 bbl Sugar Water				
11/02/2011	12:47:35					Rig Down				

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl					
Slurry 5.8	N2	Mud 0.0	Maximum Rate 7.9		Total Slurry 554.4	Mud 0.0	Spacer 43.5	N2		
Treating Pressure Summary, psi					Breakdown Fluid					
Maximum 4143	Final 0	Average 382	Bump Plug to 1000	Breakdown	Type FreshWater	Volume 530.0 bbl		Density 8.34 lb/gal		
Avg. N2 Percent		Designed Slurry Volume 339.0 bbl		Displacement 182.7 bbl		Mix Water Temp 50 degF		Cement Circulated to Surface?		Volume
								Washed Thru Perfs		
Customer or Authorized Representative Robert Escojeda				Schlumberger Supervisor Tom Leduc				Circulation Lost		Job Completed
								-		-