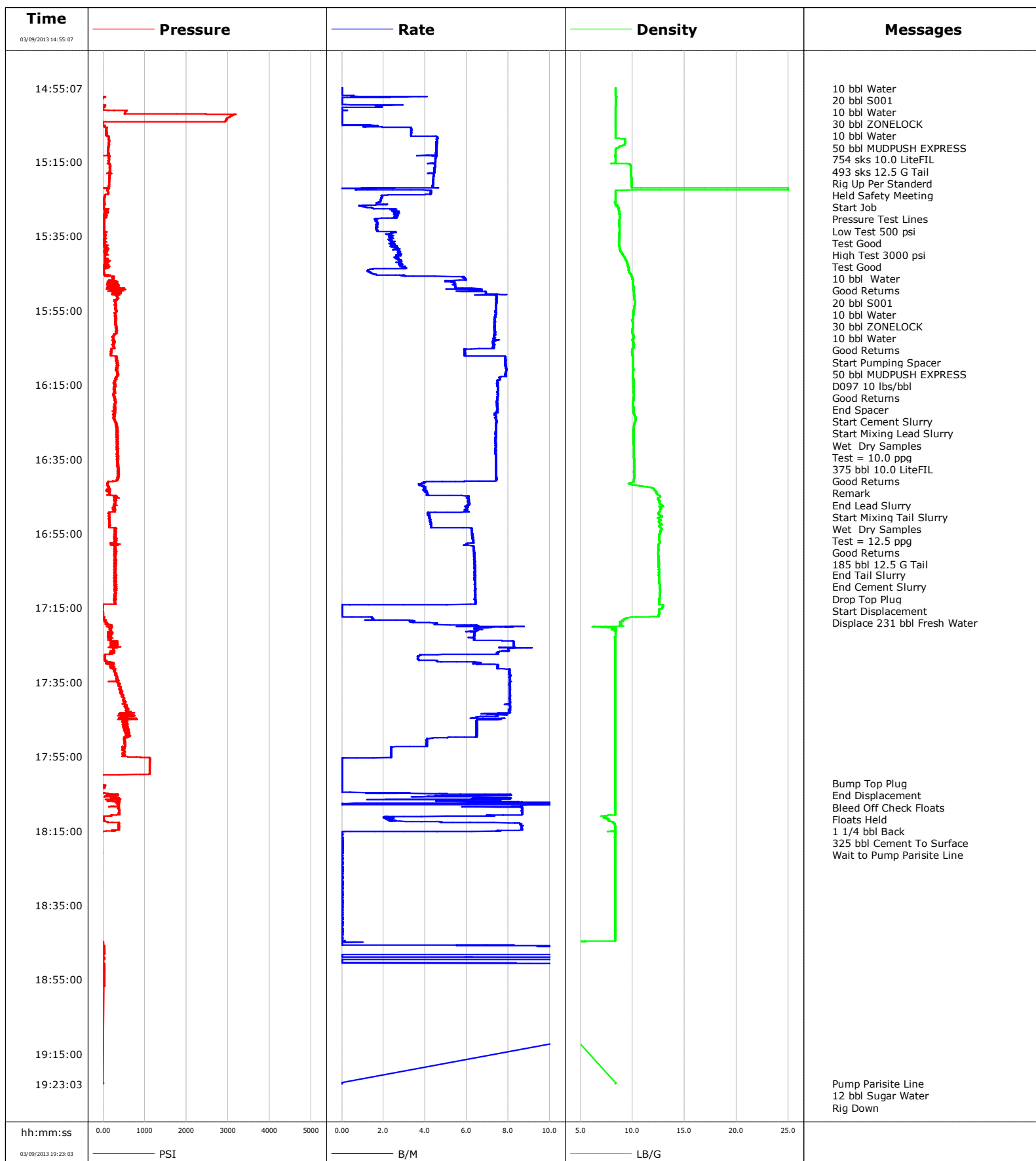


Well SGU 8512C-36
Field Story Gulch
Engineer Jordan Moreland
Country United States

Client Encana
SIR No.
Job Type 9 5/8 Surface
Job Date 03-09-2013

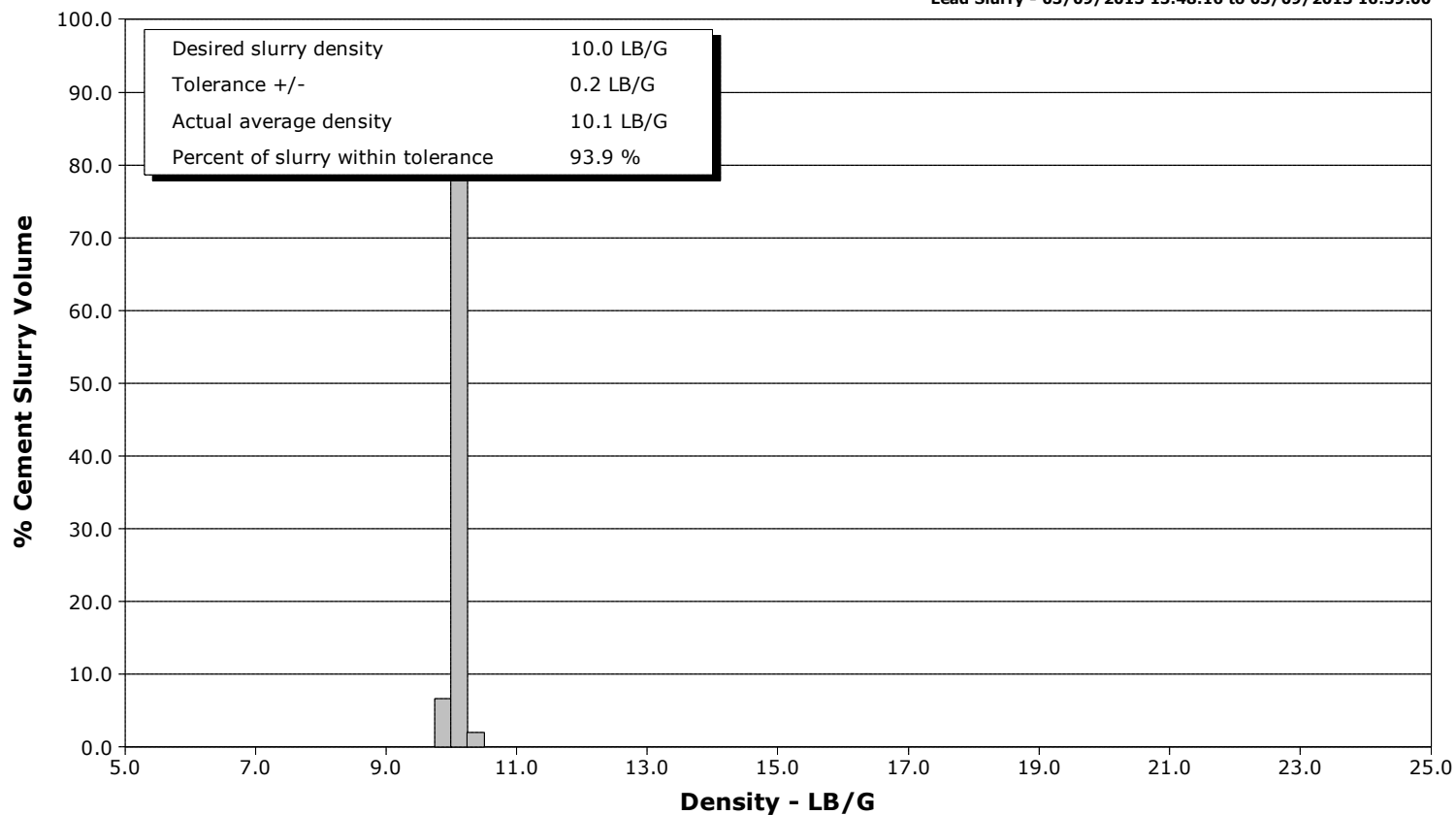


Schlumberger Cementing Qa/Qc Density Report

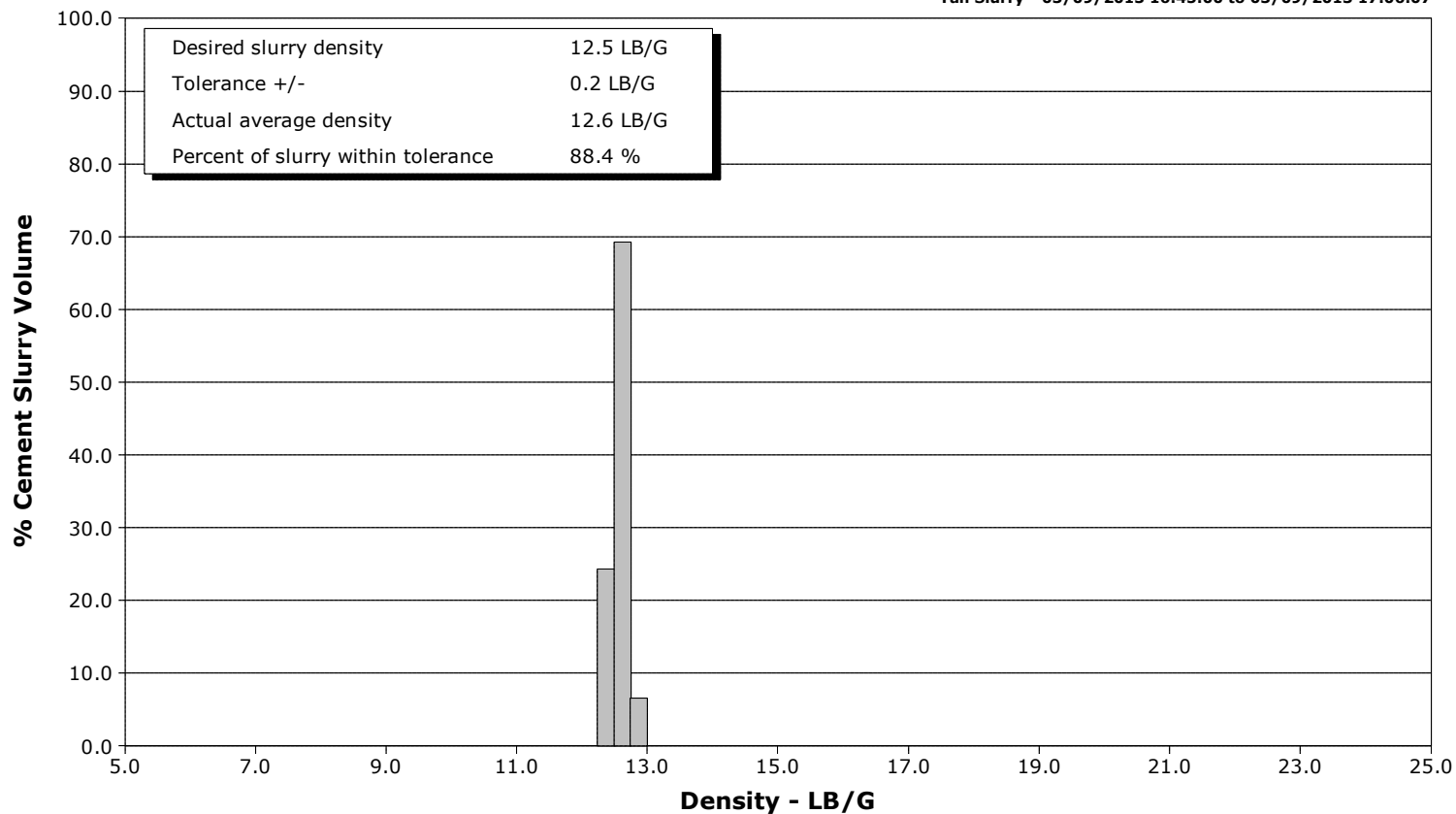
Well SGU 8512C-36
Field Story Gulch
Engineer Jordan Moreland
Country United States

Client Encana
SIR No.
Job Type 9 5/8 Surface
Job Date 03-09-2013

Lead Slurry - 03/09/2013 15:48:16 to 03/09/2013 16:39:00



Tail Slurry - 03/09/2013 16:45:00 to 03/09/2013 17:06:07





Cementing Service Report

				Customer Encana		Job Number C459-01192		
Well SGU 8512C-36			Location (legal) D36		Schlumberger Location GCO		Job Start Mar/09/2013	
Field Story Gulch		Formation Name/Type		Deviation	Bit Size 14.8 in	Well MD	Well TVD	
County Garfield		State/Province Colorado		BHP	BHST 120 degF	BHCT 96 degF	Pore Press. Gradient	
Well Master		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	3027.0	9.630	36.0	J55	8RD
				0.0	0.000	0.0		
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 3000 psi		Max. Allowed Ann. Press	WH Connection Single Cement head	Perforations/Open Hole				
				Top,	Bottom,		No. of Shots	Total Interval
								Diameter
				Treat Down Casing	Displacement 231.0 bbl	Packer Type	Packer Depth	
				Tubing Vol.	Casing Vol. 232.0 bbl	Annular Vol. 385.0 bbl	Openhole Vol. 636.0 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 1498 psi				Shoe Type Guide		Squeeze Type		
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Depth 3027.0 ft		Tool Type		
No. Centralizers		Top Plugs 1	Bottom Plugs	Stage Tool Type		Tool Depth		
Cement Head Type				Stage Tool Depth		Tail Pipe Size		
Job Scheduled For Mar/09/2013		Arrived on Location Mar/09/2013	Leave Location Mar/09/2013	Collar Type Float		Tail Pipe Depth		
				Collar Depth 2982.0 ft		Sqz. Total Vol.		
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message		
03/09/2013	13:58:17					Started Acquisition		
03/09/2013	14:55:07					10 bbl Water		
03/09/2013	14:55:07					20 bbl S001		
03/09/2013	14:55:07					10 bbl Water		
03/09/2013	14:55:07	-35	0.0	8.34	0.0			
03/09/2013	14:55:08					30 bbl ZONELOCK		
03/09/2013	14:55:08					10 bbl Water		
03/09/2013	14:55:08					50 bbl MUDPUSH EXPRESS		
03/09/2013	14:55:08					754 sks 10.0 LiteFIL		
03/09/2013	14:55:08					493 sks 12.5 G Tail		
03/09/2013	14:55:08					Rig Up Per Standerd		
03/09/2013	14:55:08					Held Safety Meeting		
03/09/2013	14:55:08	-36	0.0	8.34	0.0			
03/09/2013	14:55:10					Start Job		
03/09/2013	14:55:10					Pressure Test Lines		
03/09/2013	14:55:10	-35	0.0	8.34	0.0			
03/09/2013	14:55:12					Low Test 500 psi		
03/09/2013	14:55:12					Test Good		
03/09/2013	14:55:12					High Test 3000 psi		
03/09/2013	14:55:12					Test Good		
03/09/2013	14:55:12	-35	0.0	8.34	0.0			

Well SGU 8512C-36			Field Story Gulch	Job Start Mar/09/2013	Customer Encana	Job Number C459-01192
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message
03/09/2013	15:01:37	527	0.0	8.36	2.4	
03/09/2013	15:04:57	-17	0.0	8.36	2.4	
03/09/2013	15:07:51					10 bbl Water
03/09/2013	15:07:51	70	3.3	8.34	10.4	
03/09/2013	15:07:52					Good Returns
03/09/2013	15:07:52	80	3.3	8.34	10.5	
03/09/2013	15:08:17	123	4.6	8.34	12.1	
03/09/2013	15:08:37					20 bbl S001
03/09/2013	15:08:37	137	4.6	8.34	13.6	
03/09/2013	15:11:37	115	4.5	8.36	27.2	
03/09/2013	15:13:03					10 bbl Water
03/09/2013	15:13:03	120	4.5	8.35	33.7	
03/09/2013	15:14:57	128	4.5	8.34	42.2	
03/09/2013	15:15:33					30 bbl ZONELOCK
03/09/2013	15:15:33	131	4.4	9.57	44.9	
03/09/2013	15:18:17	160	4.4	9.86	57.0	
03/09/2013	15:21:37	133	4.4	9.87	71.6	
03/09/2013	15:24:57	24	1.9	8.36	81.4	
03/09/2013	15:28:00					10 bbl Water
03/09/2013	15:28:00					Good Returns
03/09/2013	15:28:00	43	2.5	8.69	86.6	
03/09/2013	15:28:01					Start Pumping Spacer
03/09/2013	15:28:01	58	2.5	8.69	86.6	
03/09/2013	15:28:02					50 bbl MUDPUSH EXPRESS
03/09/2013	15:28:02					D097 10 lbs/bbl
03/09/2013	15:28:02	58	2.4	8.70	86.6	
03/09/2013	15:28:17	36	2.6	8.68	87.3	
03/09/2013	15:28:35					Good Returns
03/09/2013	15:28:35	81	2.7	8.70	88.0	
03/09/2013	15:31:37	18	1.7	8.71	94.6	
03/09/2013	15:34:57	22	2.3	8.73	101.0	
03/09/2013	15:38:17	45	2.6	8.77	109.1	
03/09/2013	15:41:37	31	2.8	9.39	118.1	
03/09/2013	15:42:04					End Spacer
03/09/2013	15:42:04	140	2.6	9.45	119.3	
03/09/2013	15:44:57	13	1.4	9.73	125.8	
03/09/2013	15:48:16					Start Cement Slurry
03/09/2013	15:48:16					Start Mixing Lead Slurry
03/09/2013	15:48:16	136	5.4	10.05	141.3	
03/09/2013	15:48:17	304	5.4	10.05	141.4	
03/09/2013	15:48:18					Wet Dry Samples
03/09/2013	15:48:18	138	5.4	10.05	141.4	
03/09/2013	15:48:19					Test = 10.0 ppg
03/09/2013	15:48:19					375 bbl 10.0 LiteFIL
03/09/2013	15:48:19					Good Returns
03/09/2013	15:48:19					Remark
03/09/2013	15:48:19	386	5.4	10.05	141.5	
03/09/2013	15:51:37	330	7.4	10.15	163.1	
03/09/2013	15:54:57	311	7.4	10.11	187.8	
03/09/2013	15:58:17	306	7.4	10.01	212.4	
03/09/2013	16:01:37	261	7.3	10.08	236.9	
03/09/2013	16:04:57	248	7.3	10.05	261.3	
03/09/2013	16:08:17	324	7.9	10.01	283.5	
03/09/2013	16:11:37	332	7.9	10.04	309.7	

Well			Field		Job Start	Customer	Job Number
SGU 8512C-36			Story Gulch		Mar/09/2013	Encana	C459-01192
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
03/09/2013	16:18:17	264	7.5	10.10	360.1		
03/09/2013	16:21:37	270	7.5	10.10	385.0		
03/09/2013	16:24:57	288	7.5	10.23	409.7		
03/09/2013	16:28:17	316	7.4	10.08	434.4		
03/09/2013	16:31:37	337	7.4	10.10	459.0		
03/09/2013	16:34:57	358	7.4	10.15	483.6		
03/09/2013	16:38:17	344	7.4	10.14	508.3		
03/09/2013	16:39:00					End Lead Slurry	
03/09/2013	16:39:00	379	7.4	10.17	513.6		
03/09/2013	16:41:37	95	3.9	9.66	530.8		
03/09/2013	16:44:57	312	6.1	12.62	544.4		
03/09/2013	16:45:00					Start Mixing Tail Slurry	
03/09/2013	16:45:00	288	6.1	12.62	544.7		
03/09/2013	16:46:00					Wet Dry Samples	
03/09/2013	16:46:00	305	6.1	12.52	550.8		
03/09/2013	16:47:00					Test = 12.5 ppg	
03/09/2013	16:47:00	268	6.1	12.62	556.9		
03/09/2013	16:48:00					Good Returns	
03/09/2013	16:48:00	256	6.0	12.76	562.9		
03/09/2013	16:48:17	255	6.0	12.70	564.6		
03/09/2013	16:49:00					185 bbl 12.5 G Tail	
03/09/2013	16:49:00	253	6.0	12.63	568.9		
03/09/2013	16:51:37	143	4.2	12.54	580.4		
03/09/2013	16:54:57	277	6.3	12.65	597.5		
03/09/2013	16:58:17	279	6.3	12.49	618.3		
03/09/2013	17:01:37	277	6.4	12.49	639.5		
03/09/2013	17:04:57	282	6.4	12.53	660.7		
03/09/2013	17:06:07					End Tail Slurry	
03/09/2013	17:06:07	265	6.4	12.52	668.2		
03/09/2013	17:06:08					End Cement Slurry	
03/09/2013	17:06:08	280	6.4	12.52	668.3		
03/09/2013	17:06:11					Drop Top Plug	
03/09/2013	17:06:11	304	6.4	12.52	668.6		
03/09/2013	17:06:20					Start Displacement	
03/09/2013	17:06:20	262	6.4	12.52	669.6		
03/09/2013	17:07:00					Displace 231 bbl Fresh Water	
03/09/2013	17:07:00	290	6.4	12.54	673.8		
03/09/2013	17:08:17	276	6.4	12.55	682.0		
03/09/2013	17:11:37	288	6.4	12.61	703.3		
03/09/2013	17:14:57	-22	0.0	12.86	719.4		
03/09/2013	17:18:17	53	1.8	9.14	720.7		
03/09/2013	17:21:37	150	6.4	8.35	739.1		
03/09/2013	17:24:57	200	8.2	8.33	762.4		
03/09/2013	17:28:17	33	3.7	8.33	785.7		
03/09/2013	17:31:37	270	8.0	8.32	805.7		
03/09/2013	17:34:57	327	8.1	8.32	832.5		
03/09/2013	17:38:17	455	8.1	8.32	859.4		
03/09/2013	17:41:37	524	8.1	8.32	886.3		
03/09/2013	17:44:57	826	6.7	8.31	911.7		
03/09/2013	17:48:17	617	6.5	8.31	933.4		
03/09/2013	17:51:37	517	4.1	8.31	950.9		
03/09/2013	17:54:57	459	2.4	8.31	960.1		
03/09/2013	17:58:17	1118	0.0	8.32	961.1		
03/09/2013	18:01:37	-35	0.0	8.32	961.1		

Well			Field		Job Start		Customer		Job Number	
SGU 8512C-36			Story Gulch		Mar/09/2013		Encana		C459-01192	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
03/09/2013	18:02:10	-35	0.0	8.31	961.2					
03/09/2013	18:02:11					End Displacement				
03/09/2013	18:02:11	-35	0.0	8.31	961.2					
03/09/2013	18:02:13					Bleed Off Check Floats				
03/09/2013	18:02:13					Floats Held				
03/09/2013	18:02:13					1 1/4 bbl Back				
03/09/2013	18:02:13					325 bbl Cement To Surface				
03/09/2013	18:02:13	-35	0.0	8.32	961.2					
03/09/2013	18:02:14					Wait to Pump Parisite Line				
03/09/2013	18:02:14	-35	0.0	8.31	961.2					
03/09/2013	18:04:57	109	3.3	8.32	961.7					
03/09/2013	18:08:17	364	8.6	8.32	983.8					
03/09/2013	18:11:37	4	2.5	7.35	1008.4					
03/09/2013	18:14:57	282	7.5	8.32	1030.5					
03/09/2013	18:18:17	-34	0.0	8.31	1031.9					
03/09/2013	18:21:37	-34	0.0	8.31	1032.0					
03/09/2013	18:24:57	-34	0.0	8.31	1032.1					
03/09/2013	18:28:17	-34	0.0	8.32	1032.1					
03/09/2013	18:31:37	-34	0.0	8.32	1032.2					
03/09/2013	18:34:57	-35	0.0	8.32	1032.3					
03/09/2013	18:38:17	-34	0.0	8.32	1032.3					
03/09/2013	18:41:37	-33	0.0	8.31	1032.4					
03/09/2013	18:44:57	-5	0.5	2.12	1032.5					
03/09/2013	18:48:17	21	25.0	0.22	1090.9					
03/09/2013	18:51:37	19	25.0	-0.00	1129.4					
03/09/2013	18:54:57	25	25.0	-0.00	1212.7					
03/09/2013	19:22:59					Pump Parisite Line				
03/09/2013	19:22:59					12 bbl Sugar Water				
03/09/2013	19:22:59					Rig Down				
03/09/2013	19:22:59	-3	0.0	8.35	1261.1					

Post Job Summary

Average Pump Rates,					Volume of Fluid Injected,			
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2	
Treating Pressure Summary,					Breakdown Fluid			
Maximum	Final	Average	Bump Plug to	Breakdown	Type	Volume	Density	
Avg. N2 Percent	Designed Slurry Volume		Displacement	Mix Water Temp	Cement Circulated to Surface?	<input checked="" type="checkbox"/>	Volume	
				66 degF	Washed Thru Perfs	<input type="checkbox"/>	To	
Customer or Authorized Representative			Schlumberger Supervisor			Circulation Lost	Job Completed	
Norman McCreary			Jordan Moreland			-	<input checked="" type="checkbox"/>	
						-		