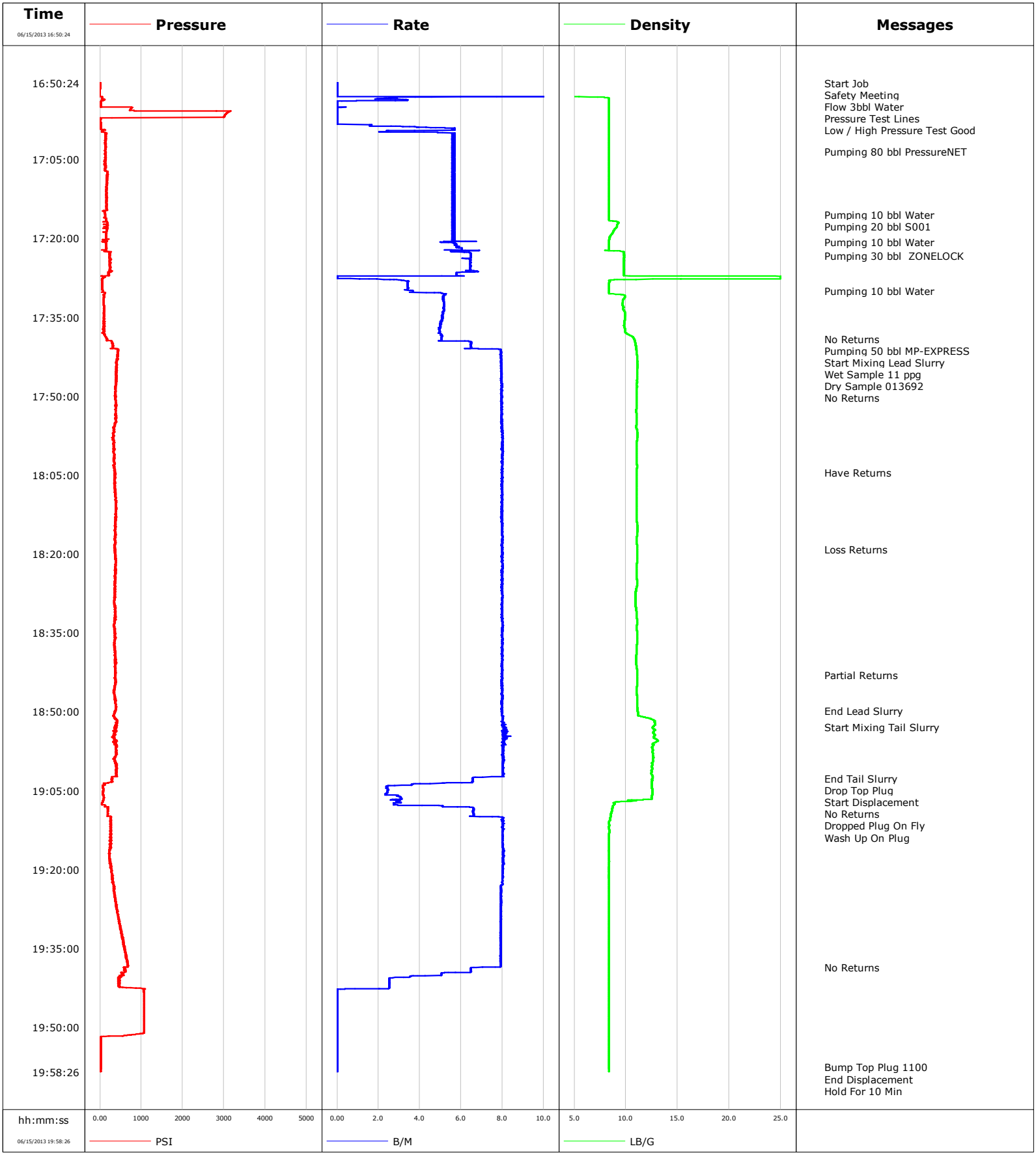
Schlumberger Cementing Job Report

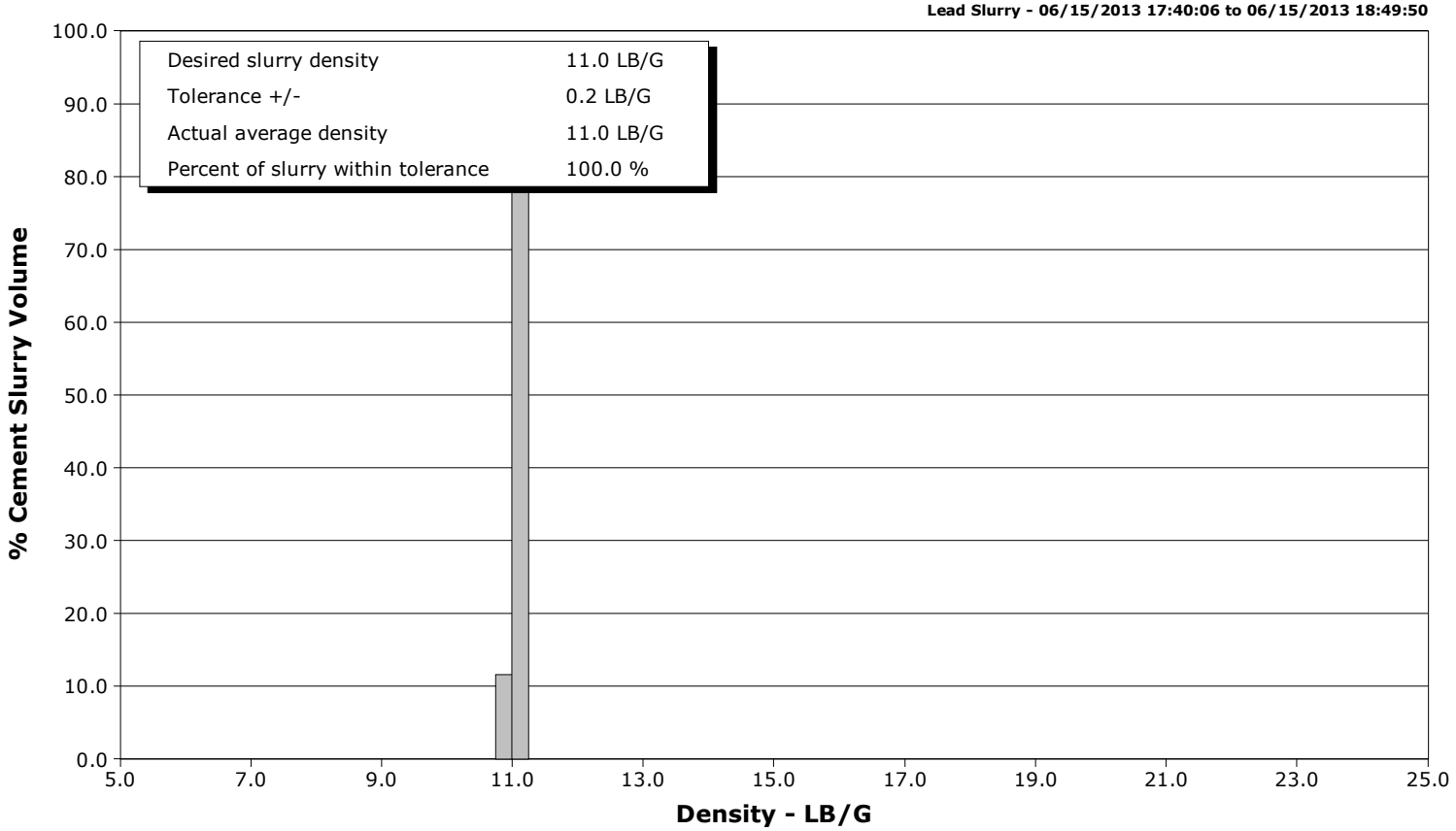
Well	SGU 850A-24	**Client**	EnCana
Field	Story Gulch	**SIR No.**	CAIO-00146
Engineer	Travis Willardson / Cole Fairbrook	**Job Type**	9 5/8 Surface
Country	United States	**Job Date**	06-15-2013



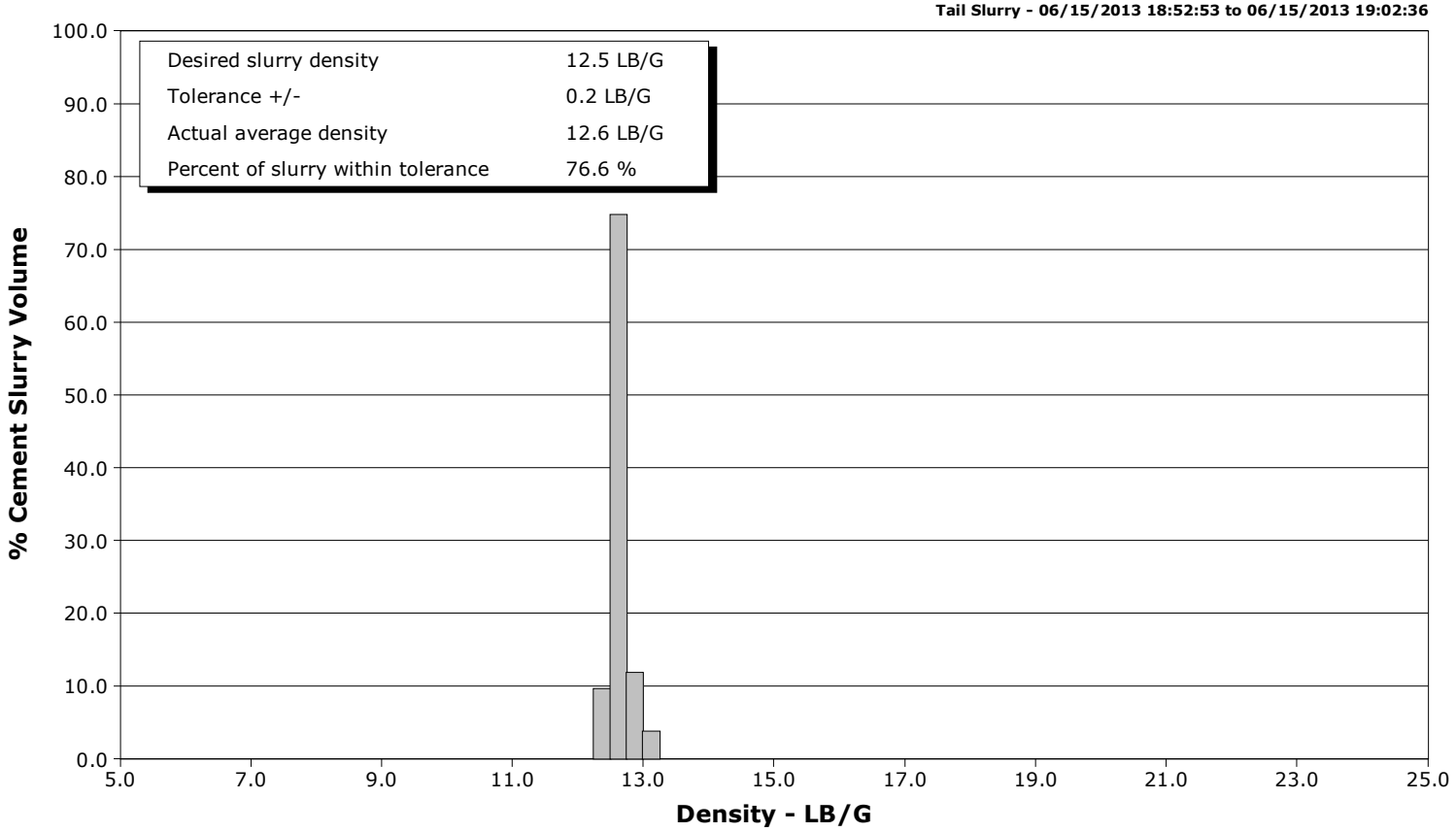
Schlumberger Cementing Qa/Qc Density Report

Well	SGU 850A-24	**Client**	EnCana
Field	Story Gulch	**SIR No.**	CAIO-00146
Engineer	Travis Willardson / Cole Fairbrook	**Job Type**	9 5/8 Surface
Country	United States	**Job Date**	06-15-2013

Lead Slurry - 06/15/2013 17:40:06 to 06/15/2013 18:49:50



Tail Slurry - 06/15/2013 18:52:53 to 06/15/2013 19:02:36



Cementing Service Report

Customer	Job Number
EnCana	CAIO-00146

Well	Location (legal)	Schlumberger Location	Job Start
SGU 850A-24 8505A-24	L24 496	Grand Junction	Jun/15/2013

Field	Formation Name/Type	Deviation	Bit Size	Well MD	Well TVD
Story Gulch	Dirty-Sandstone		14.8 in	3324.0 ft	3324.0 ft

County	State/Province	BHP	BHST	BHCT	Pore Press. Gradient
Garfield	Colorado		125 degF	97 degF	

Well Master	API/UWI
0631465738	

Rig Name	Drilled For	Service Via
Patterson 330	Gas	Land

Offshore Zone	Well Class	Well Type
	New	Development

Drilling Fluid Type	Max. Density	Plastic Viscosity
Bentonite		

Service Line	Job Type
Cementing	9 5/8 Surface

Max. Allowed Tub. Press	Max. Allowed Ann. Press	WH Connection
		Single Cement head

Service Instructions

160 bbl Pressurenet / Zonelock
11.0 ppg Litefil 1378 sks 2.12 ft3/sk
12.5 ppg G Tail 251 sks 2.11 ft3/sk

Casing/Liner

Depth, ft	Size, in	Weight, lb/ft	Grade	Thread
120.0	20.000	94.0	N/A	N/A
3324.0	9.630	36.0	J55	8RD

Tubing/Drill Pipe

Depth,	Size,	Weight,	Grade	Thread

Perforations/Open Hole

Top,	Bottom,		No. of Shots	Total Interval
				Diameter

Treat Down	Displacement	Packer Type	Packer Depth
Casing	253.0 bbl		

Tubing Vol.	Casing Vol.	Annular Vol.	Openhole Vol.
		421.0 bbl	695.0 bbl

Casing/Tubing Secured	1 Hole Vol. Circulated prior to Cement
X	X

Lift Pressure	Pipe Rotated	Pipe Reciprocated
1645 psi	☐	☐

No. Centralizers	Top Plugs	Bottom Plugs
	1	

Cement Head Type
Single

Job Scheduled For	Arrived on Location	Leave Location
Jun/15/2013	Jun/15/2013	Jun/15/2013

Casing Tools		Squeeze Job	
Shoe Type	Float	Squeeze Type	
Shoe Depth	3324.0 ft	Tool Type	
Stage Tool Type		Tool Depth	
Stage Tool Depth		Tail Pipe Size	
Collar Type	Float	Tail Pipe Depth	
Collar Depth	3277.0 ft	Sqz. Total Vol.	

Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message
01/01/1970	00:00:00					Started Acquisition
01/01/1970	00:00:00					Stopped Acquisition
06/15/2013	16:32:54					Started Acquisition
06/15/2013	16:50:24	1	0.0	0.19	0.0	
06/15/2013	16:50:27					Start Job
06/15/2013	16:50:27	1	0.0	0.19	0.0	
06/15/2013	16:50:28					Safety Meeting
06/15/2013	16:50:28					Flow 3bbl Water
06/15/2013	16:50:28	1	0.0	0.19	0.0	
06/15/2013	16:50:31					Pressure Test Lines
06/15/2013	16:50:31	1	0.0	0.18	0.0	
06/15/2013	16:50:33					Low / High Pressure Test Good
06/15/2013	16:50:33	1	0.0	0.19	0.0	
06/15/2013	16:55:00	13	0.0	8.36	2.8	
06/15/2013	17:00:00	149	5.7	8.36	9.0	
06/15/2013	17:03:30					Pumping 80 bbl PressureNET
06/15/2013	17:03:30	137	5.7	8.36	28.8	
06/15/2013	17:05:00	133	5.6	8.36	37.2	
06/15/2013	17:10:00	164	5.7	8.36	65.4	
06/15/2013	17:15:00	108	5.7	8.36	93.6	
06/15/2013	17:15:30					Pumping 10 bbl Water

Well	Field	Job Start	Customer	Job Number
SGU 850A-24 8505A-24	Story Gulch	Jun/15/2013	EnCana	CAIO-00146

Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message
06/15/2013	17:17:01					Pumping 20 bbl S001
06/15/2013	17:17:01	176	5.7	9.26	105.0	
06/15/2013	17:20:00	144	5.7	8.41	121.8	
06/15/2013	17:20:35					Pumping 10 bbl Water
06/15/2013	17:20:35	180	5.9	8.37	125.1	
06/15/2013	17:23:20					Pumping 30 bbl ZONELOCK
06/15/2013	17:23:20	231	6.5	9.81	141.5	
06/15/2013	17:25:00	237	6.5	9.81	152.3	
06/15/2013	17:30:00	69	3.7	8.36	173.6	
06/15/2013	17:30:01					Pumping 10 bbl Water
06/15/2013	17:30:01	63	3.7	8.36	173.6	
06/15/2013	17:35:00	102	5.1	9.90	198.8	
06/15/2013	17:39:04					No Returns
06/15/2013	17:39:04	159	5.0	10.77	219.2	
06/15/2013	17:40:00	314	6.5	10.92	224.6	
06/15/2013	17:40:02					Pumping 50 bbl MP-EXPRESS
06/15/2013	17:40:02	306	6.5	10.92	224.8	
06/15/2013	17:40:06					Start Mixing Lead Slurry
06/15/2013	17:40:06	302	6.5	10.93	225.2	
06/15/2013	17:41:44					Wet Sample 11 ppg
06/15/2013	17:41:44	426	7.9	11.03	236.8	
06/15/2013	17:41:45					Dry Sample 013692
06/15/2013	17:41:45	422	7.9	11.03	236.9	
06/15/2013	17:43:03					No Returns
06/15/2013	17:43:03	426	7.9	11.08	247.2	
06/15/2013	17:45:00	390	7.9	11.09	262.7	
06/15/2013	17:50:00	360	8.0	11.03	302.5	
06/15/2013	17:55:00	385	8.0	11.05	342.3	
06/15/2013	18:00:00	349	8.0	11.03	382.2	
06/15/2013	18:04:36					Have Returns
06/15/2013	18:04:36	367	8.0	11.05	419.0	
06/15/2013	18:05:00	368	8.0	11.04	422.2	
06/15/2013	18:10:00	379	8.0	11.02	462.1	
06/15/2013	18:15:00	375	8.0	11.12	501.9	
06/15/2013	18:19:02					Loss Returns
06/15/2013	18:19:02	370	8.0	11.05	534.1	
06/15/2013	18:20:00	363	8.0	11.06	541.9	
06/15/2013	18:25:00	363	8.0	11.05	581.8	
06/15/2013	18:30:00	362	8.0	10.95	621.7	
06/15/2013	18:35:00	363	8.0	11.08	661.6	
06/15/2013	18:40:00	378	8.0	10.99	701.5	
06/15/2013	18:42:59					Partial Returns
06/15/2013	18:42:59	371	8.0	11.07	725.3	
06/15/2013	18:45:00	368	7.9	11.05	741.4	
06/15/2013	18:49:50					End Lead Slurry
06/15/2013	18:49:50	371	8.0	11.12	780.0	
06/15/2013	18:50:00	375	8.0	11.14	781.3	
06/15/2013	18:52:53					Start Mixing Tail Slurry
06/15/2013	18:52:53	350	8.0	12.61	804.4	
06/15/2013	18:55:00	324	8.1	12.71	821.5	
06/15/2013	19:00:00	393	8.0	12.55	861.7	
06/15/2013	19:02:36					End Tail Slurry
06/15/2013	19:02:36	285	6.6	12.58	882.3	
06/15/2013	19:02:43					Drop Top Plug

Well	Field	Job Start	Customer	Job Number
SGU 850A-24 8505A-24	Story Gulch	Jun/15/2013	EnCana	CAIO-00146

Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message
06/15/2013	19:02:45					Start Displacement
06/15/2013	19:02:45	296	6.6	12.54	883.3	
06/15/2013	19:02:46					No Returns
06/15/2013	19:02:46	281	6.6	12.53	883.4	
06/15/2013	19:02:47					Dropped Plug On Fly
06/15/2013	19:02:47					Wash Up On Plug
06/15/2013	19:02:47	281	6.5	12.53	883.5	
06/15/2013	19:05:00	72	2.4	12.53	892.7	
06/15/2013	19:10:00	265	7.9	8.52	914.7	
06/15/2013	19:15:00	238	8.0	8.36	954.7	
06/15/2013	19:20:00	281	8.0	8.34	994.8	
06/15/2013	19:25:00	361	7.9	8.37	1034.7	
06/15/2013	19:30:00	473	7.9	8.37	1074.3	
06/15/2013	19:35:00	593	7.9	8.37	1113.9	
06/15/2013	19:38:38					No Returns
06/15/2013	19:38:38	569	6.5	8.37	1142.5	
06/15/2013	19:40:00	546	5.0	8.37	1150.7	
06/15/2013	19:45:00	1062	0.0	8.37	1158.2	
06/15/2013	19:50:00	1065	0.0	8.37	1158.2	
06/15/2013	19:55:00	16	0.0	8.37	1158.2	
06/15/2013	19:57:34					Bump Top Plug 1100
06/15/2013	19:57:34	17	0.0	8.37	1158.2	
06/15/2013	19:57:35					End Displacement
06/15/2013	19:57:35	17	0.0	8.37	1158.2	
06/15/2013	19:57:36					Hold For 10 Min
06/15/2013	19:57:36					Bleed Off / Floats Held
06/15/2013	19:57:36	17	0.0	8.37	1158.2	
06/15/2013	19:57:46					1 bbl Back
06/15/2013	19:57:46					Rig Up To Pump Parasite
06/15/2013	19:57:46	16	0.0	8.37	1158.2	
06/15/2013	21:25:00					Pumping The Parasite 14 bbl Sugar Water

Post Job Summary

Average Pump Rates, bbl/min				Volume of Fluid Injected, bbl			
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2
7.0		0.0	0.0	619.0	0.0	225.2	

Treating Pressure Summary, psi					Breakdown Fluid		
Maximum	Final	Average	Bump Plug to	Breakdown	Type	Volume	Density
17	16	346	1200			1075.0 bbl	

Avg. N2 Percent	Designed Slurry Volume	Displacement	Mix Water Temp	Cement Circulated to Surface?	Volume
	615.0 bbl	253.0 bbl	88 degF	X	0.0 bbl
				Washed Thru Perfs ☐	To

Customer or Authorized Representative	Schlumberger Supervisor	Circulation Lost	Job Completed
Buddy Burke	Travis Willardson / Cole Fairbrook	-	X
		-	-