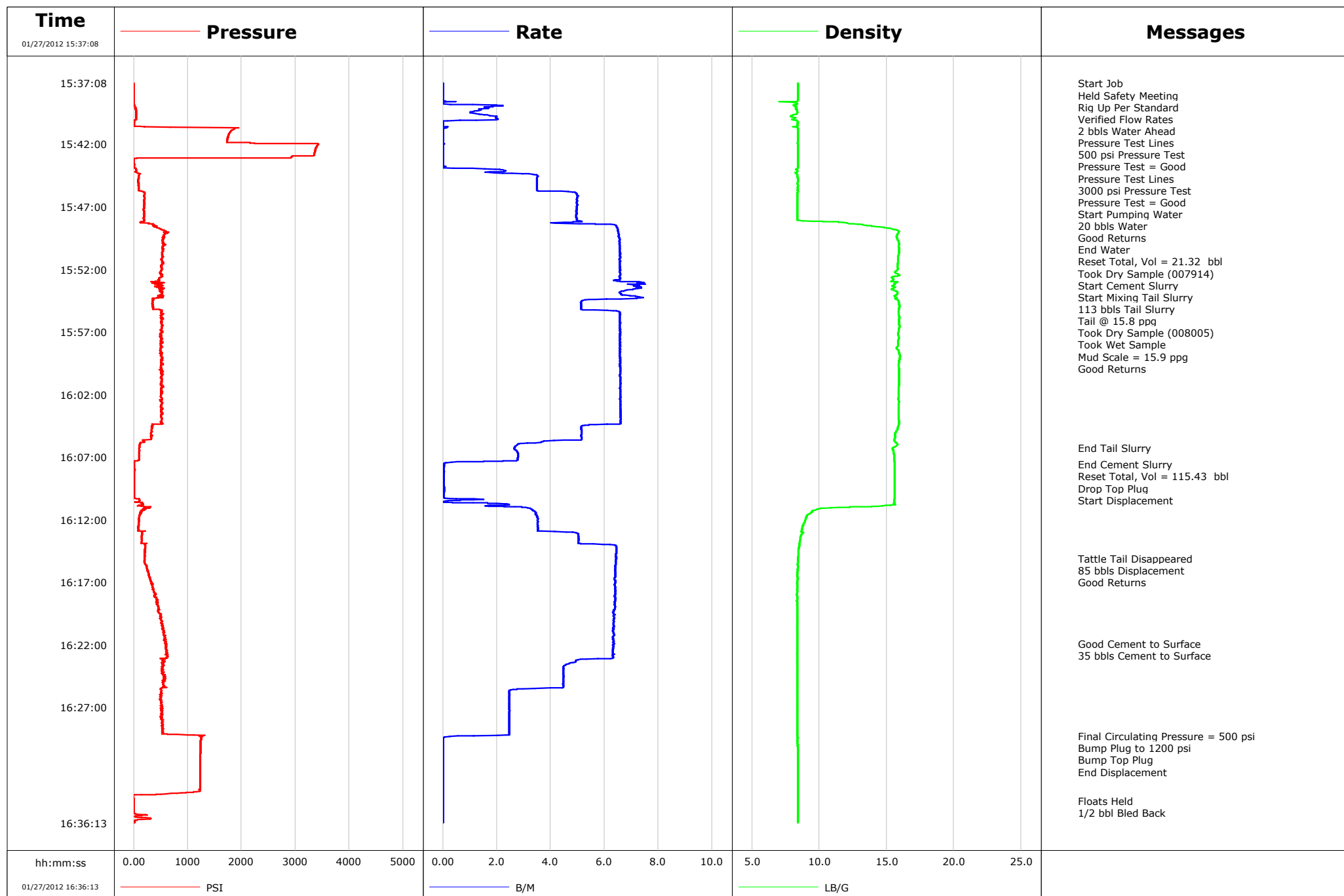


Well Twin Creek 12-5D2
Field Mamm Creek
Engineer Ryan Bowditch
Country United States

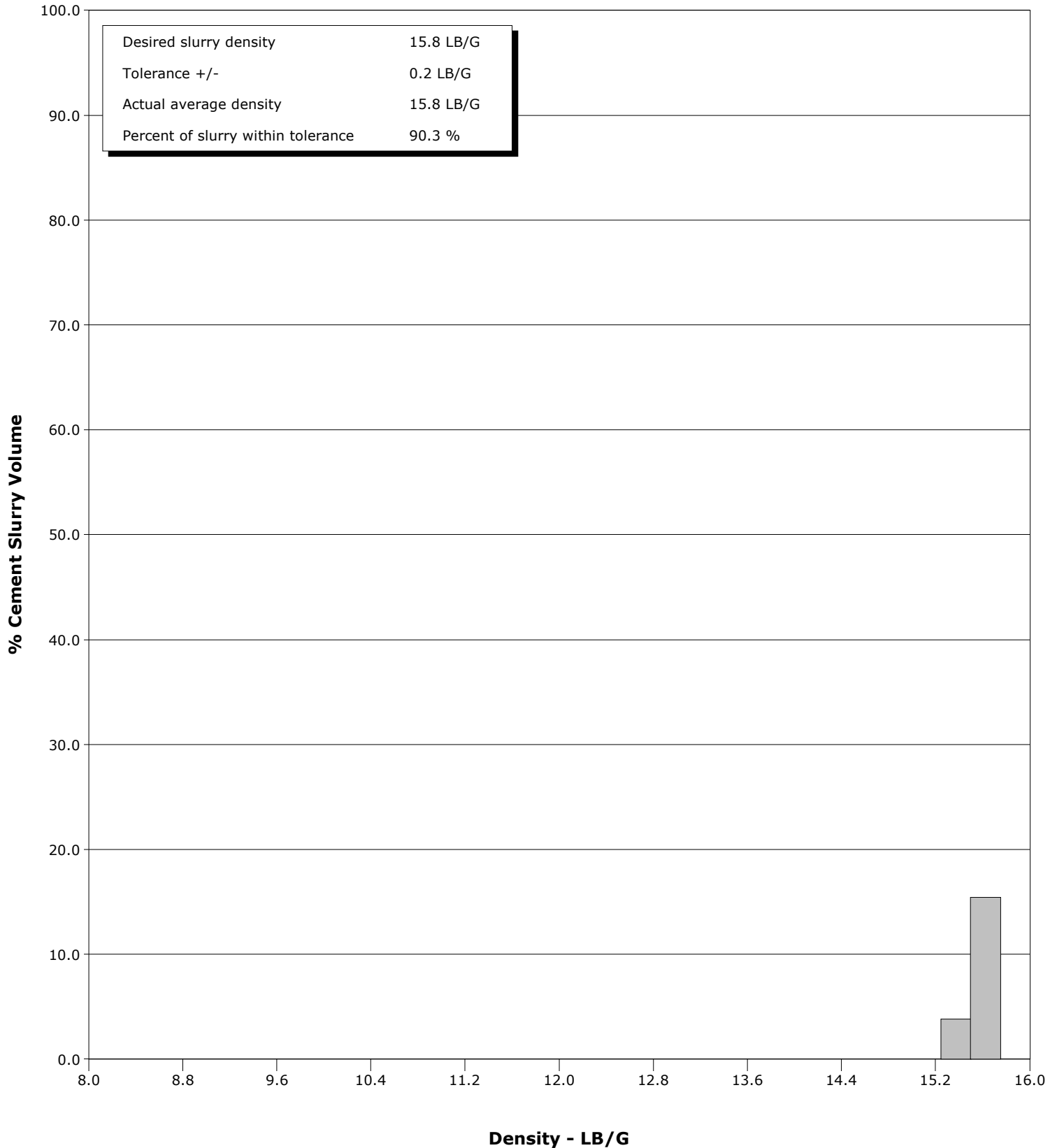
Client EnCana
SIR No. COBA-00075
Job Type 9 5/8" Surface Casing
Job Date 01-27-2012



Well Twin Creek 12-5D2
Field Mamm Creek
Engineer Ryan Bowditch
Country United States

Client EnCana
SIR No. C0BA-00075
Job Type 9 5/8" Surface Casing
Job Date 01-27-2012

Cement Slurry - 01/27/2012 15:49:19 to 01/27/2012 16:07:36



Cementing Service Report

					Customer EnCana			Job Number COBA-00075			
Well Twin Creek 12-5D2			Location (legal)			Schlumberger Location Grand Junction, CO			Job Start Jan/27/2012		
Field Mamm Creek		Formation Name/Type Shale		Deviation 10 deg		Bit Size 12.3 in		Well MD 1152.0 ft		Well TVD 1152.0 ft	
County Garfield		State/Province Colorado		BHP psi		BHST 100 degF		BHCT 81 degF		Pore Press. Gradient lb/gal	
Well Master		API/UWI									
Rig Name Nabors M15		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		40.0		16.0		65.0	
						1152.0		9.6		36.0	
										K55	
										8RD	
Drilling Fluid Type		Max. Density lb/gal		Plastic Viscosity cP		Tubing/Drill Pipe					
						T/D		Depth, ft		Size, in	
										Weight, lb/ft	
										Grade	
										Thread	
Service Line Cementing		Job Type 9 5/8" Surface Casing									
Max. Allowed Tub. Press 3000 psi		Max. Allowed Ann. Press 1500 psi		WH Connection Single Cement head		Perforations/Open Hole					
						Top, ft		Bottom, ft		shot/ft	
										No. of Shots	
										Total Interval ft	
										Diameter in	
						Treat Down Casing		Displacement 85.4 bbl		Packer Type	
										Packer Depth ft	
						Tubing Vol. bbl		Casing Vol. 89.1 bbl		Annular Vol. 67.0 bbl	
										Openhole Vol. 160.0 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 500 psi				Shoe Type Float				Squeeze Type			
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Depth 1152.0 ft				Tool Type			
No. Centralizers		Top Plugs 1		Bottom Plugs		Stage Tool Type				Tool Depth ft	
Cement Head Type Single				Stage Tool Depth ft				Tail Pipe Size in			
Job Scheduled For Jan/27/2012		Arrived on Location Jan/27/2012		Leave Location Jan/27/2012		Collar Type Float				Tail Pipe Depth ft	
						Collar Depth 1105.0 ft				Sqz. Total Vol. bbl	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Solid Fraction NULL	Message				
01/27/2012	15:37:08	-9	0.0	8.41	0.0	0	Started Acquisition				
01/27/2012	15:37:09	-9	0.0	8.41	0.0	0	Start Job				
01/27/2012	15:37:10	-9	0.0	8.41	0.0	0	Held Safety Meeting				
01/27/2012	15:37:11	-8	0.0	8.41	0.0	0	2 bbls Water Ahead				
01/27/2012	15:38:48	-7	0.0	8.37	0.0	0					
01/27/2012	15:40:28	7	0.0	8.36	2.1	0					
01/27/2012	15:41:30	1743	0.0	8.39	2.1	0	Pressure Test Lines				
01/27/2012	15:42:08	3406	0.0	8.39	2.1	0					
01/27/2012	15:42:15	3389	0.0	8.39	2.1	0	Pressure Test Lines				
01/27/2012	15:43:48	7	0.1	8.39	2.1	0					
01/27/2012	15:45:27	84	3.5	8.39	6.6	0	Start Pumping Water				
01/27/2012	15:45:28	84	3.5	8.39	6.7	0					
01/27/2012	15:45:29	84	3.5	8.39	6.8	0	20 bbls Water				
01/27/2012	15:47:08	191	5.0	8.39	14.5	0					
01/27/2012	15:48:28	381	6.4	13.19	21.1	54	End Water				
01/27/2012	15:48:29	381	6.4	13.36	21.2	55	Reset Total, Vol = 21.32 bbl				
01/27/2012	15:48:32	350	6.5	13.73	21.5	55	Took Dry Sample (007914)				
01/27/2012	15:48:48	491	6.5	15.46	23.3	54					
01/27/2012	15:49:19	566	6.5	15.76	26.6	50	Start Cement Slurry				
01/27/2012	15:49:21	558	6.5	15.75	26.8	51	113 bbls Tail Slurry				
01/27/2012	15:50:28	538	6.6	15.93	34.2	50					

Well			Field		Job Start	Customer		Job Number
Twin Creek 12-5D2			Mamm Creek		Jan/27/2012	EnCana		C0BA-00075
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Solid Fraction NULL	Message	
01/27/2012	15:53:48	506	6.6	15.77	56.5	54		
01/27/2012	15:55:24	511	6.5	15.87	66.0	53	Took Dry Sample (008005)	
01/27/2012	15:55:28	512	6.6	15.87	66.4	52		
01/27/2012	15:56:12	524	6.6	15.92	71.2	50	Took Wet Sample	
01/27/2012	15:56:13	501	6.6	15.92	71.3	50	Mud Scale = 15.9 ppg	
01/27/2012	15:57:08	509	6.6	15.85	77.3	48		
01/27/2012	15:57:39	503	6.6	15.87	80.7	47	Good Returns	
01/27/2012	15:58:48	516	6.6	15.95	88.3	49		
01/27/2012	16:00:28	525	6.6	15.92	99.3	48		
01/27/2012	16:02:08	506	6.6	15.88	110.3	48		
01/27/2012	16:03:48	506	6.6	15.88	121.2	48		
01/27/2012	16:05:28	320	5.2	15.63	130.7	47		
01/27/2012	16:06:14	103	2.7	15.51	133.6	33	End Tail Slurry	
01/27/2012	16:07:08	99	2.8	15.56	136.1	61		
01/27/2012	16:07:36	3	0.0	15.59	136.8	0	End Cement Slurry	
01/27/2012	16:07:38	5	0.0	15.59	136.8	0	Reset Total, Vol = 115.43 bbl	
01/27/2012	16:07:39	5	0.0	15.59	136.8	0	Drop Top Plug	
01/27/2012	16:07:40	5	0.0	15.59	136.8	0	Start Displacement	
01/27/2012	16:08:48	3	0.0	15.58	136.8	0		
01/27/2012	16:10:28	102	0.3	15.56	137.0	60		
01/27/2012	16:12:08	95	3.5	8.94	141.5	22		
01/27/2012	16:13:48	144	5.0	8.54	148.6	16		
01/27/2012	16:15:06	196	6.4	8.42	156.7	3	Tattle Tail Disappeared	
01/27/2012	16:15:07	196	6.4	8.42	156.8	4	Good Returns	
01/27/2012	16:15:28	202	6.4	8.41	159.1	10		
01/27/2012	16:17:08	353	6.4	8.36	169.8	12		
01/27/2012	16:18:48	437	6.4	8.38	180.4	3		
01/27/2012	16:20:28	514	6.3	8.39	191.0	0		
01/27/2012	16:21:53	573	6.3	8.37	200.0	0	Good Cement to Surface	
01/27/2012	16:22:08	602	6.3	8.39	201.5	0		
01/27/2012	16:23:48	527	4.5	8.39	211.0	0		
01/27/2012	16:25:28	524	4.0	8.39	218.5	0		
01/27/2012	16:27:08	518	2.5	8.39	222.7	0		
01/27/2012	16:28:48	531	2.5	8.39	226.8	0		
01/27/2012	16:29:18	1283	0.6	8.39	228.0	0	Final Circulating Pressure = 500 psi	
01/27/2012	16:29:19	1240	0.3	8.39	228.0	0	Bump Plug to 1200 psi	
01/27/2012	16:29:37	1243	0.0	8.39	228.0	0	Bump Top Plug	
01/27/2012	16:29:38	1242	0.0	8.39	228.0	0	End Displacement	
01/27/2012	16:30:28	1235	0.0	8.39	228.0	0		
01/27/2012	16:32:08	1230	0.0	8.39	228.0	0		
01/27/2012	16:33:48	973	0.0	8.39	228.0	0		
01/27/2012	16:34:27	-8	0.0	8.39	228.0	0	Floats Held	
01/27/2012	16:34:28	-8	0.0	8.39	228.0	0	1/2 bbl Bled Back	

Well Twin Creek 12-5D2	Field Mamm Creek	Job Start Jan/27/2012	Customer EnCana	Job Number C0BA-00075
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Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry 4.8	N2	Mud	Maximum Rate 7.5	Total Slurry 113.0	Mud 0.0	Spacer 20.0	N2	
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum 3424	Final 10	Average 518	Bump Plug to 1200	Breakdown	Type	Volume bbl	Density lb/gal	
Avg. N2 Percent %	Designed Slurry Volume 113.0 bbl	Displacement 85.0 bbl	Mix Water Temp 65 degF	Cement Circulated to Surface? <input checked="" type="checkbox"/>		Volume 35.0 bbl		
				Washed Thru Perfs <input type="checkbox"/>		To ft		
Customer or Authorized Representative Robert Tate			Schlumberger Supervisor Ryan Bowditch			Circulation Lost <input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>	
						-	-	